



evox INCLUDED
PLATFORM

Série C-A-F-S IE2-IE3-IE4

Réducteurs coaxiaux série C

Réducteurs avec arbres orthogonaux série A  INCLUDED

Réducteurs pendulaires série F

Réducteurs a un étage de réduction série S



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Révisions

Le sommaire de révision du catalogue est indiqué à la page 694.

Sur le site www.bonfiglioli.com des catalogues avec les dernières révisions sont disponibles.



INFORMATIONS GENERALES

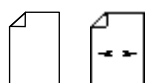
1 SYMBOLES ET UNITES DE MESURE

Symboles	Unités de mesure	Description
$A_{N\ 1,2}$	[N]	Charge axiale nominale
f_s	—	Facteur de service
f_T	—	Facteur thermique
f_{TP}	—	Facteur de température
i	—	Rapport de réduction
I	—	Rapport d'intermittence
J_C	[Kgm ²]	Moment d'inertie de la charge
J_M	[Kgm ²]	Moment d'inertie du moteur
J_R	[Kgm ²]	Moment d'inertie du réducteur
K	—	Facteur d'accélération des masses
K_r	—	Constante de transmission
$M_{1,2}$	[Nm]	Couple
$M_{c\ 1,2}$	[Nm]	Couple de calcul
$M_{n\ 1,2}$	[Nm]	Couple nominal
$M_{r\ 1,2}$	[Nm]	Couple nécessaire
$n_{1,2}$	[min ⁻¹]	Vitesse

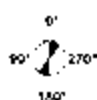
Symboles	Unités de mesure	Description
$P_{1,2}$	[kW]	Puissance
$P_{N\ 1,2}$	[kW]	Puissance nominale
$P_{R\ 1,2}$	[kW]	Puissance nécessaire
$R_{C\ 1,2}$	[N]	Charge radiale de calcul
$R_{N\ 1,2}$	[N]	Charge radiale nominale
S	—	Facteur de sécurité
t_a	[°C]	Température ambiante
t_s	[°C]	Température de surface
t_o	[°C]	Température d'huile
t_f	[min]	Temps de fonctionnement à charge constante
t_r	[min]	Temps de repos
η_d	—	Rendement dynamique
η_s	—	Rendement statique
φ	[°]	Jeu angulaire à l'arbre lent (avec arbre rapide bloqué)

₁ valeurs pour l'arbre rapide

₂ valeurs pour l'arbre lent



Le symbole identifie la page à laquelle l'on peut trouver l'information.



Ce symbole présente les références angulaires pour l'indication de la direction de la charge radiale (l'arbre est vu de face).



DANGER – ATTENTION !

Ce pictogramme indique des situations de grave danger : si elles sont négligées, elles peuvent mettre sérieusement en danger la santé et la sécurité des personnes.



Symbole se référant aux poids des réducteurs et des motoréducteurs. Les valeurs indiquées dans les tableaux des motoréducteurs comprennent tant le poids du moteur à 4 pôles que le poids du lubrifiant contenu, lorsque prévu par BONFIGLIOLI RIDUTTORI.



IMPORTANT

Ce pictogramme indique des informations techniques d'une importance particulière à ne pas négliger



Se réfèrent aux appareils conformes à la Directive "ATEX"

Série C	Série A	Série F	Série S	
				Motoréducteur avec moteur compact.
				Motoréducteur avec moteur normalisé IEC.
				Réducteur prédisposé pour liaison a moteur IEC.
				Réducteur prédisposé pour liaison a servomoteur.
				Réducteur avec arbre rapide cylindrique.



2 TEMPERATURES LIMITES ADMISES

Symb.	Description / Condition	Valeur (*)	
		Huile synthétique	Huile minérale
t_a	Température ambiante		
$t_{au \min}$	Température ambiante minimum de fonctionnement	-30°C	-10°C
$t_{au \max}$	Température ambiante maximum de fonctionnement	+50°C	+40°C
$t_{as \min}$	Température ambiante minimum de stockage	-40°C	-10°C
$t_{as \max}$	Température ambiante maximum de stockage	+50°C	+50°C
t_s	Température de surface		
$t_{s \min}$	Température minimum de surface lors du démarrage du réducteur avec une charge réduite (#)	-25°C	-10°C
$t_{sc \min}$	Température minimum de surface lors du démarrage du réducteur avec une charge complète	-10°C	-5°C
$t_{s \max}$	Température de surface maximum du carter durant un fonctionnement continu (mesurée près de l'entrée du réducteur)	+100°C	+100°C (@)
t_o	Température d'huile		
$t_{o \max}$	Température d'huile maximum durant un fonctionnement continu	+95°C	+95°C (@)

(*) = Se référer au tableau "Sélection de la viscosité optimale" pour plus d'informations concernant les valeurs minimum et maximum des différentes viscosités d'huile. Pour les valeurs de $t_a < -20^\circ\text{C}$ et de $t_s, t_o > 80^\circ\text{C}$, choisir (comme autorisé à l'étape de configuration du produit) le type matériaux d'étanchéité le plus adapté au type d'application. Si nécessaire contacter le service technique de Bonfiglioli. 

(@) = Pour les valeurs de t_s et $t_o > 80^\circ\text{C}$ et $< 95^\circ\text{C}$, l'utilisation en fonctionnement continu est déconseillée.

(#) = Pour le démarrage à pleine charge il est recommandé d'utiliser une rampe progressive et de prévoir une plus grande absorption pour le moteur. Si nécessaire contacter le service technique de Bonfiglioli. 



3 COUPLE

3.1 Couple nominal M_{n2} [Nm]

C'est le couple transmissible en sortie avec une charge continue uniforme se référant à la vitesse en entrée n_1 et à celle correspondante en sortie n_2 .

Il est calculé sur la base d'un facteur de service $f_s = 1$.

3.2 Couple requis M_{r2} [Nm]

Il représente le couple requis par l'application et devra toujours être inférieur ou égal au couple en sortie nominal M_{n2} du réducteur choisi.

3.3 Couple de calcul M_{c2} [Nm]

C'est la valeur de couple à utiliser pour la sélection du réducteur en considérant le couple requis M_{r2} et le facteur de service f_s et s'obtient avec la formule :

$$M_{c2} = M_{r2} \cdot f_s < M_{n2} \quad (1)$$

4 PUISSANCE

4.1 Puissance en entrée P_{n1} [kW]

Dans les tableaux de sélection des réducteurs, c'est la puissance applicable en entrée se rapportant à la vitesse n_1 et en considérant un facteur de service $f_s = 1$.



5 PUISSANCE THERMIQUE P_t [kW]

Les indications suivantes sont valables pour les réducteurs C, F et S. Pour la vérification thermique des réducteurs A, se référer aux indications du paragraphe 48 (valable à la fois pour les produits standard et ATEX).

P_t est la valeur qui indique la limite thermique du réducteur et représente la puissance transmissible en service continu, et à une température ambiante $t_a = 20^\circ\text{C}$, sans apparition de dommages au niveau des organes du réducteur ou de dégradations du lubrifiant. Voir tab. (A1).

En cas de service intermittent ou de température ambiante différente de 20°C , la valeur de P_t doit être corrigée au moyen du facteur f_t , exprimé dans le tableau (A2), à savoir: $P_t' = P_t \times f_t$

Enfin, pour les réducteurs ayant plus de deux réductions et/ou un rapport $i > 45$, la vérification de la puissance thermique n'est pas nécessaire car elle est certainement supérieure à la puissance mécanique transmissible.

(A 1)

P_t [kW] 20°C		
	$n_1 = 1400 \text{ min}^{-1}$	$n_1 = 2800 \text{ min}^{-1}$
C 05 2	—	—
C 12 2	—	—
C 22 2	—	—
C 32 2	—	4.5
C 36 2	6.5	5.0
C 41 2	8.0	6.0
C 51 2	11.0	7.8
C 61 2	14.0	10.0
C 70 2	21	16.0
C 80 2	32	24
C 90 2	43	32
C 100 2	59	42

P_t [kW] 20°C		
	$n_1 = 1400 \text{ min}^{-1}$	$n_1 = 2800 \text{ min}^{-1}$
F 10 2	3.8	2.7
F 20 2	9.1	6.5
F 25 2	10.2	7.4
F 31 2	11.7	8.5
F 41 2	14.3	10.4
F 51 2	21.5	15.0
F 60 3	26.0	18.9
F 70 3	36.4	26.0
F 80 3	52	36
F 90 3	75	53

P_t [kW] 20°C		
	$n_1 = 1400 \text{ min}^{-1}$	$n_1 = 2800 \text{ min}^{-1}$
S 10 1	5.5	4.9
S 20 1	7.8	7.2
S 30 1	10.0	9.1
S 40 1	15.6	14.3
S 50 1	21	18.9



(A 2)

f_t					
t_a [°C]	Service continu	Service intermittent			
		Degré d'intermittence [I]			
		80%	60%	40%	20%
40	0.80	1.1	1.3	1.5	1.6
30	0.85	1.3	1.5	1.6	1.8
20	1.0	1.5	1.6	1.8	2.0
10	1.15	1.6	1.8	2.0	2.3

Où le degré d'intermittence (I)% est fourni par le rapport entre le temps de fonctionnement en charge et le temps total ($t_f + t_r$) exprimé en pourcentage.

$$I = \frac{t_f}{t_f + t_r} \cdot 100 \quad (2)$$

La vérification à faire sera la suivante :

$$P_{r1} \leq P_t \times f_t \quad (3)$$

6 RENDEMENT

6.1 Rendement dynamique η_d

Il est donné par le rapport entre la puissance en sortie P_2 et celle en entrée P_1 :

$$\eta_d = \frac{P_2}{P_1} \cdot 100 \quad [\%] \quad (4)$$

(A 3)

	2 x	3 x	4 x
η_d	95%	93%	90%

	2 x	3 x	4 x
η_d	94%	91%	89%

	2 x	3 x	4 x
η_d	95%	93%	90%

	1 x
η_d	98%



7 RAPPORT DE REDUCTION i

Le rapport de réduction est identifié par la lettre $[i]$ et son calcul s'effectue à partir de la vitesse d'entrée n_1 et de la vitesse de sortie n_2 en utilisant la relation suivante :

$$i = \frac{n_1}{n_2} \quad (5)$$

Dans le catalogue, le rapport de réduction a une précision d'un chiffre après la virgule (sauf pour $i > 1000$). Si une plus grande précision est nécessaire, voir chapitre "RAPPORTS EXACTS".

8 VITESSE ANGULAIRE

8.1 Vitesse d'entrée n_1 [min⁻¹]

C'est la vitesse relative au type de motorisation choisie. Les valeurs de catalogue se réfèrent aux vitesses des moteurs électriques à simple et double polarité communément utilisés.

Si le réducteur reçoit le mouvement d'une transmission en entrée, il est toujours préférable d'adopter des vitesses inférieures à 1400 min⁻¹ afin de garantir des conditions optimales de fonctionnement. Des vitesses d'entrée supérieures sont admises en considérant le déclassement naturel du couple nominal M_{n2} du réducteur.

8.2 Vitesse en sortie n_2 [min⁻¹]

Elle varie en fonction de la vitesse d'entrée n_1 et du rapport de réduction i selon l'équation :

$$n_2 = \frac{n_1}{i} \quad (6)$$

9 MOMENT D'INERTIE J_r [Kgm²]

Les moments d'inertie indiqués dans le catalogue se réfèrent à l'axe d'entrée du réducteur par conséquent, dans le cas d'accouplement direct, ils se rapportent déjà à la vitesse du moteur.



10 FACTEUR DE SERVICE f_s

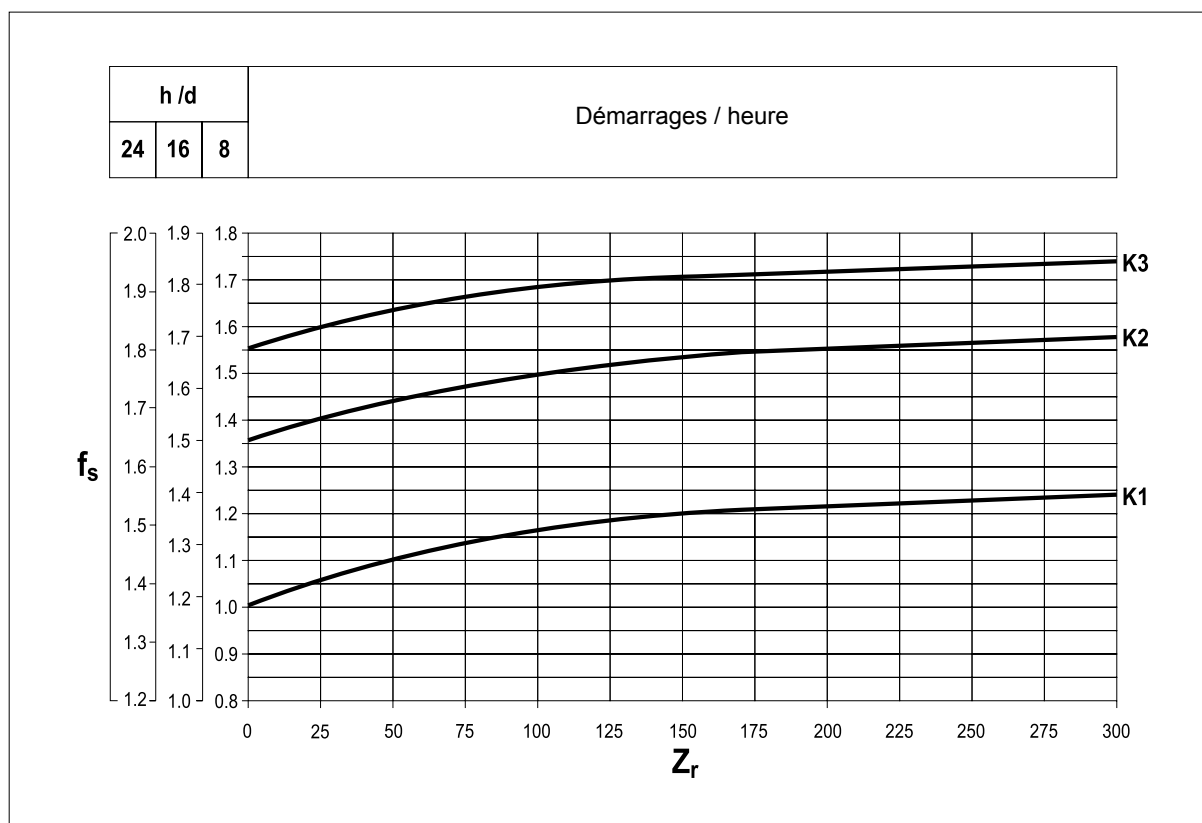
Le facteur de service est le paramètre qui traduit en une valeur numérique la difficulté du service que le réducteur est appelé à effectuer en tenant compte, avec une approximation inévitable, du fonctionnement journalier, de la variabilité de la charge et des éventuelles surcharges liées à l'application spécifique du réducteur. Sur le graphique (A4) ci-dessous, le facteur de service peut être trouvé, après avoir sélectionné la colonne relative aux heures de fonctionnement journalier, à l'intersection entre le nombre de démarrages horaire et l'une des courbes K1, K2 et K3.

Les courbes K_ sont associées à la nature du service (approximativement: uniforme, moyen et difficile) au moyen du facteur d'accélération des masses K, lié au rapport entre les inerties des masses conduites et le moteur.

Indépendamment de la valeur du facteur de service ainsi trouvée, nous signalons qu'il existe des applications parmi lesquelles, à titre d'exemple, les levages, pour lesquels la rupture d'un organe du réducteur pourrait exposer le personne opérant à proximité immédiate à des risques de lésion.

En cas de doute concernant les risques éventuels de l'application, nous vous conseillons de contacter préalablement notre Service Technique.

(A 4)



10.1 Facteur d'accélération des masses K

Le paramètre sert à sélectionner la courbe relative au type de charge particulier.

La valeur est obtenue par l'équation :

(A 5)

$K = \frac{J_c}{J_m}$	$\rightarrow$	$J_c =$ Moment d'inertie des masses commandées se référant à l'arbre du moteur	$K \leq 0,25$	$\rightarrow$ K1	Charge uniforme
		$J_m =$ Moment d'inertie du moteur	$0,25 < K \leq 3$	$\rightarrow$ K2	Charge avec chocs modérés
			$3 < K \leq 10$	$\rightarrow$ K3	Charge avec chocs importants
			$K > 10$	$\rightarrow$	Contacter le Service Technique de Bonfiglioli



11 LUBRIFICATION

Les réducteurs fournis avec lubrification permanente n'ont besoin d'aucun remplacement périodique de l'huile.

Se référer au Manuel d'Installation, Utilisation et Entretien disponible sur www.bonfiglioli.com pour les indications concernant le niveau d'huile et son remplacement.

Ne pas mélanger une huile minérale avec une huile synthétique et/ou de marques différentes.

Toutefois, il est conseillé de contrôler le niveau d'huile une fois par mois, en cas de fonctionnement intermittent, plus souvent en cas de service continu, et de faire l'appoint si nécessaire.

11.1 Sélection de la viscosité d'huile optimale (donnée relative aux huiles Shell)

(A 6)

		Température ambiante de fonctionnement [C°]																
		-40	-35	-30	-25	-20	-15	-10	-5	0	+5	+10	+15	+20	+25	+30	+35	+40
		Contrôle des étanchéités adaptées				Etanchéité standard fournie dans le catalogue												
Lubrification par barbotage	Huile minérale [1]	150 VG							*									
		220 VG							*									
		320 VG	⊘						*									
		460 VG							*									
	Huile synthétique (PAG) [2]	150 VG		*	*													
		220 VG			*	*												
		320 VG	⊘			*												
		460 VG				*												
	Huile synthétique (PAO)	150 VG			*													
		220 VG				*												
		320 VG	⊘				*											
		460 VG					*											

☐ Limites de fonctionnement recommandées.

☐ Limites de fonctionnement autorisées.

☒ Limites de fonctionnement interdites.

* = Il est recommandé d'utiliser une rampe progressive et de prévoir une plus grande absorption pour le moteur.
Si nécessaire contacter le service technique de Bonfiglioli.

[1] L'utilisation d'huile minérale est autorisée sur les motoréducteurs avec facteur de service $f_s \geq 1.30$

[2] Les réducteurs A05...60 doivent être utilisés strictement avec de l'huile PAG (viscosité 320 suggérée).
Pour des besoins différents, veuillez contacter le service technique.



11.2 Lubrification des réducteurs série 300

Les organes internes des réducteurs Bonfiglioli sont lubrifiés avec un système mixte d'immersion et de barbotage de l'huile.

Les groupes C 05...C 41, A 05...A 41, F 10...F 41, S 10...S 40 sont normalement livrés avec charge de lubrifiant de l'usine, ou du réseau de vente officiel.

Les groupes de taille C 51, A 50, F 51, S 50 et supérieures sont normalement fournis sans lubrifiant, et le remplissage d'huile sera à la charge de l'utilisateur avant la mise en service.

Dans les deux cas, selon les versions, avant la mise en service du réducteur, il pourrait être nécessaire de remplacer le bouchon fermé utilisé pour le transport par le bouchon d'évent fourni.

Pour les tableaux de référence pour le placement des bouchons de service et la quantité de lubrifiant, se référer au Manuel d'Installation, d'utilisation et d'entretien (disponible sur www.bonfiglioli.com).

Le lubrifiant "long life"; fourni de série, est de nature synthétique (SHELL OMALA S4 WE 320) et, à moins de contamination par l'extérieur, il ne demande pas de remplacements périodiques pour toute la durée de vie du réducteur.

11.3 Lubrification réducteurs A-EX (Atex)

Les réducteur en version ATEX (avec quelques exceptions voir le tableau suivant) sont remplis en usine avec une quantité de lubrifiant "à vie" SHELL OMALA S4 WE 320 appropriée pour l'installation dans la position de montage spécifiée lors de la commande.

(A 7)

A 05	A 10	A 20	A 30	A 35	A 41	A 50	A 55 ⁽¹⁾	A 60 2 ⁽²⁾	A 60 3 ⁽¹⁾	A 60 4 ⁽¹⁾	A 70 ⁽¹⁾	A 80 ⁽¹⁾	A 90 ⁽¹⁾
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 Fourniture avec un lubrifiant synthétique « à vie »

 Fourniture avec un lubrifiant synthétique

(1) Sans lubrifiant dans les positions de montage B6 et B7

(2) Sans lubrifiant dans la position de montage B6, B7 et VB

Pour le transport, les réducteurs sont équipés de bouchon de remplissage de type fermé ; en fonction de la version, ils sont équipés d'un bouchon doté d'un reniflard que l'utilisateur devra remplacer avant de mettre en route le réducteur. Dans ce cas également, il convient de se référer au Manuel d'installation, d'utilisation et d'entretien correspondant (le manuel est disponible en différentes langues et en format pdf à l'adresse www.bonfiglioli.com) pour effectuer correctement le remplacement.

Dans les cas où le réducteur est fourni sans lubrifiant, il est tout de même recommandé d'en utiliser un, de la même nature, parmi ceux autorisés indiqués dans le Manuel d'installation, d'utilisation et d'entretien correspondant.



12 SELECTION

Pour sélectionner correctement un réducteur ou un motoréducteur, il est nécessaire de disposer de certaines données fondamentales que nous avons résumé dans le tableau (A8).

En particulier, ce dernier pourra être rempli et retourné à notre service technique qui recherchera la motorisation la plus appropriée à l'application indiquée.

(A 8)

		DONNEES TECHNIQUES NECESSAIRES POUR LA SELECTION DES REDUCTEURS ...			Nr: _____	
					date : _____	
					Rev_	Donnée :
A) DONNEES GENERALES						
#	1	Société / Client				
#	2	Contact				
#	3	Filiale / Distributeur				
#	4	Quantité en commande				
	5	Délai de livraison				
B) MOTEUR ELECTRIQUE						
	6	Type de moteur				
#	7	P_{n1}	Puissance nominale moteur		[kW]	
#	8	P_{r1}	Puissance moteur nécessaire		[kW]	
	9	n_1	Vitesse d'entrée		[min ⁻¹]	
	10	Nombre de pôles				
C) REDUCTEUR						
#	11	Configuration du réducteur				
#	12	i	Rapport de réduction			
#	13	n_1	Vitesse d'entrée		[min ⁻¹]	
#	14	M_{r2}	Couple de sortie nécessaire		[Nm]	
#	15	f_s	Facteur de service nécessaire			
	16	Sens de rotation de l'arbre de sortie [vu de face]:		CW	CCW	
#	17	L_{10H}	Durée de vie des roulements		[h]	
	18		Durée de vie des engrenages		[h]	
	19	SF_{min}	Sécurité au pied de denture		standard de référence (ISO préféré)	
	20	SH_{min}	Sécurité au flanc de denture		standard de référence (ISO préféré)	
D) CHARGES ADDITIONNELLES						
	21	R_{c2}	Charge radiale sur l'arbre de sortie		[N]	Orientation [°]
	22	x_2	Distance d'application de la charge depuis l'épaule de l'arbre		[mm]	
	23	R_{c1}	Charge radiale sur l'arbre d'entrée		[N]	Orientation [°]
	24	x_1	Distance d'application de la charge depuis l'épaule de l'arbre		[mm]	
	25	A_{n2}	Charge axiale sur l'arbre de sortie (+ / -)		[N]	+ = en poussée
	26	A_{n1}	Charge axiale sur l'arbre d'entrée (+ / -)		[N]	- = en traction
E) APPLICATION						
#	27	Type d'application				
	28	Cycle de travail	Durée de la phase	Couple de sortie du réducteur	Vitesse de sortie du réducteur	
			%	[Nm]	[min ⁻¹]	
			***	***		
			***	***		
	29	Notes concernant le cycle :				
	30	Classement FEM	T-	L-	M-	
	31	Degré d'intermittence		[%]		
	32	T_{AMB}	Plage de température ambiante		[°C]	
#	33	Altitude a.s.l.			[m]	
	34	Type d'environnement	petit espace couvert	grand espace couvert	extérieur	
F) NOTES						
	35	Notes et demandes complémentaires du client :				
# Obligatoire pour la sélection						



Pour la sélection des réducteurs en exécution Atex, voir également le chapitre spécifique en page 348.

12.1 Sélection des motoréducteurs

a) Déterminer le facteur de service f_s en fonction du type de charge (facteur K), du nombre d'insertions/heure Z_r et du nombre d'heures de fonctionnement.

b) A partir du couple M_{r2} , en connaissant n_2 et le rendement dynamique η_d , calculer la puissance en entrée.

$$P_{r1} = \frac{M_{r2} \cdot n_2}{9550 \cdot \eta_d} \text{ [kW]} \quad (7)$$

La valeur de η_d pour le réducteur spécifique peut être calculée d'après les indications du paragraphe 6.

c) Rechercher parmi les tableaux des caractéristiques techniques des motoréducteurs celui correspondant à une puissance :

$$P_n \geq P_{r1} \quad (8)$$

Sauf indication contraire la puissance P_n des moteurs indiquée dans le catalogue se réfère à un service continu S1.

Pour les moteurs utilisés dans des conditions différentes du service S1, il sera nécessaire d'identifier le type de service prévu en se référant aux normes CEI 2-3/IEC 34-1.

En particulier, pour les services de type S2 à S8 ou pour les tailles de moteurs égales ou inférieures à 132 il est possible d'obtenir une majoration de la puissance par rapport à celle prévue pour le service continu. Par conséquent, la condition à satisfaire sera :

$$P_n \geq \frac{P_{r1}}{f_m} \quad (9)$$

Le facteur de majoration f_m peut être obtenu en consultant le tableau (A9).

12.2 Rapport d'intermittence

$$I = \frac{t_f}{t_f + t_r} \cdot 100 \quad (10)$$

t_f = temps de fonctionnement à charge constante

t_r = temps de repos



(A 9)

	SERVICE					
	S2			S3*		
	Durée du cycle [min]			Rapport d'intermittence (I)		
	10	30	60	25%	40%	70%
f_m	1.35	1.15	1.05	1.25	1.15	1.1

* La durée du cycle devra être égale ou inférieure à 10 minutes. Si supérieure, contacter notre Service Technique.

Dans la section relative à la puissance installée **P_n** sélectionner enfin le motoréducteur qui développe la vitesse de fonctionnement la plus proche à la vitesse **n₂** désirée et pour lequel le facteur de sécurité **S** soit égal, ou supérieur, au facteur de service **f_s**.

Le facteur de sécurité est défini ainsi :

$$S = \frac{M_{n2}}{M_2} = \frac{P_{n1}}{P_1} \quad (11)$$

Dans les tableaux de sélection des motoréducteurs les accouplements sont développés avec moteurs à 2, 4 et 6 pôles alimentés à 50 Hz. Pour vitesses de commande différentes à celles-ci, sélectionner suite aux données nominales fournies par les réducteurs.

12.3 Sélection des réducteurs et des réducteurs IEC

a) Déterminer le facteur de service **f_s**.

b) En connaissant le couple **M_{r2}** de sortie requis par l'application, l'on procède à la définition du couple de calcul :

$$M_{c2} = M_{r2} \cdot f_s \quad (12)$$

c) Suivant la vitesse en sortie **n₂** requise et celle en entrée **n₁** disponible, l'on calcule le rapport de réduction :

$$i = \frac{n_1}{n_2} \quad (13)$$



En disposant des données M_{c2} et i , l'on recherchera dans les tableaux correspondant à la vitesse n_1 le réducteur qui, en fonction du rapport $[i]$ le plus proche de celui calculé, propose un couple nominal :

$$M_{n2} \geq M_{c2} \quad (14)$$

Au cas où il serait nécessaire d'appliquer un moteur électrique normalisé au réducteur choisi, en vérifier la possible adaptation en consultant le tableau des prédispositions possibles présenté.

13 VERIFICATIONS

Une fois effectuée la sélection du réducteur, ou motoréducteur, il faut procéder aux vérifications suivantes :

a) Puissance thermique

S'assurer que la puissance thermique du réducteur ait une valeur supérieure ou égale à la puissance requise par l'application selon l'équation (3) page 7. Dans le cas contraire, sélectionner un réducteur de taille supérieure ou bien prévoir un système de refroidissement forcé.

b) Couple maximum

Généralement, le couple maximum (à considérer comme une pointe de charge instantanée) applicable au réducteur ne doit pas dépasser les 200% du couple nominal M_{n2} .

Vérifier par conséquent que cette limite ne soit pas dépassée en adoptant, si nécessaire, des dispositifs adaptés pour limiter le couple.

Pour les moteurs triphasés à double polarité, il est nécessaire de prêter une attention particulière au couple de commutation instantané qui est généré lors du passage de la grande à la petite vitesse étant donné qu'il peut être considérablement plus élevé que le couple maximum lui même.

Une méthode simple et économique pour réduire ce couple consiste à alimenter seulement deux phases du moteur pendant la commutation (la durée d'alimentation sur deux phases peut être réglée au moyen d'un relais temporisateur) :

$$M_{g2} = 0.5 \cdot M_{g3}$$

M_{g2} = Couple de commutation en alimentant deux phases

M_{g3} = Couple de commutation en alimentant trois phases

Nous suggérons cependant de contacter notre Service Technique.

c) Charges radiales

Vérifier que les charges radiales agissant sur les arbres d'entrée et/ou de sortie se situent dans les valeurs de catalogue admises.

Si elles sont supérieures, choisir une taille de réducteur supérieure ou modifier la reprise de charge. Rappelons que toutes les valeurs indiquées dans le catalogue se réfèrent à des charges agissant au milieu de la longueur disponible de l'arbre contrôlé. Par conséquent, en phase de vérification, il est indispensable de prendre en considération cette condition en déterminant, si nécessaire, avec les formules appropriées, la charge admissible à la distance x_{1-2} désirée. Se rapporter à ce propos aux paragraphes relatifs aux charges radiales.



d) Charges axiales

Les éventuelles charges axiales devront être comparées avec les valeurs admissibles. Si l'on est en présence de charges axiales très élevées ou combinées avec des charges radiales, nous conseillons d'interpeller notre Service Technique.

e) Démarrages/heure

Pour les services différents de S1, avec un nombre important d'insertions/heure, il faudra prendre en considération un facteur Z (déterminé à l'aide des informations reportées dans le chapitre des moteurs) qui définit le nombre maximum de démarrages spécifique pour l'application concernée.

14 INSTALLATION

Il est très important, pour l'installation du réducteur, de se conformer aux règles suivantes :

a) S'assurer que la fixation du réducteur soit stable afin d'éviter toute vibration.

Installer (en cas de chocs, de surcharges prolongées ou de blocages) des coupleurs hydrauliques, des embrayages, des limiteurs de couple etc...

b) En phase de peinture, il faudra protéger les plans usinés et le bord extérieur des bagues d'étanchéité pour éviter que la peinture ne dessèche le caoutchouc, ce qui risque de nuire à l'efficacité du joint.

c) Les organes qui sont calés sur les arbres de sortie du réducteur doivent être réalisés avec une tolérance ISO H7 pour éviter les accouplements trop serrés qui, en phase de montage, pourraient endommager irrémédiablement le réducteur.

En outre, pour le montage et le démontage de ces organes, nous conseillons d'utiliser un outillage et des extracteurs appropriés en utilisant le trou taraudé situé en extrémité d'arbre.

d) Les surfaces de contact devront être propres et traitées avec des produits de protections appropriés avant le montage afin d'éviter l'oxydation et par suite le blocage des pièces.

e) Avant la mise en service du réducteur, vérifier que la machine où il est monté est conforme aux normes de la Directive Machines 2006/42/CE et ses mises à jour.

f) Avant la mise en marche de la machine, s'assurer que la position du niveau du lubrifiant soit conforme à la position de montage du réducteur et que la viscosité soit appropriée (Reportez-vous au manuel de l'utilisateur disponible sur www.bonfiglioli.com).

g) En cas d'installation en plein air, il est nécessaire d'appliquer des protections et/ou des caches appropriés de façon à éviter l'exposition directe aux agents atmosphériques et aux rayonnements solaires.



14.1 Assemblage du servomoteur avec le frette de serrage (entrée type SC)

Tourner la frette de serrage jusqu'à aligner sa fente en correspondance de celles présentes sur l'arbre d'entrée du réducteur.

Si l'arbre moteur est muni d'une clavette, celle-ci doit être retirée et son logement doit être lui aussi aligné sur le même plan, disposé du même côté de la vis de la frette.

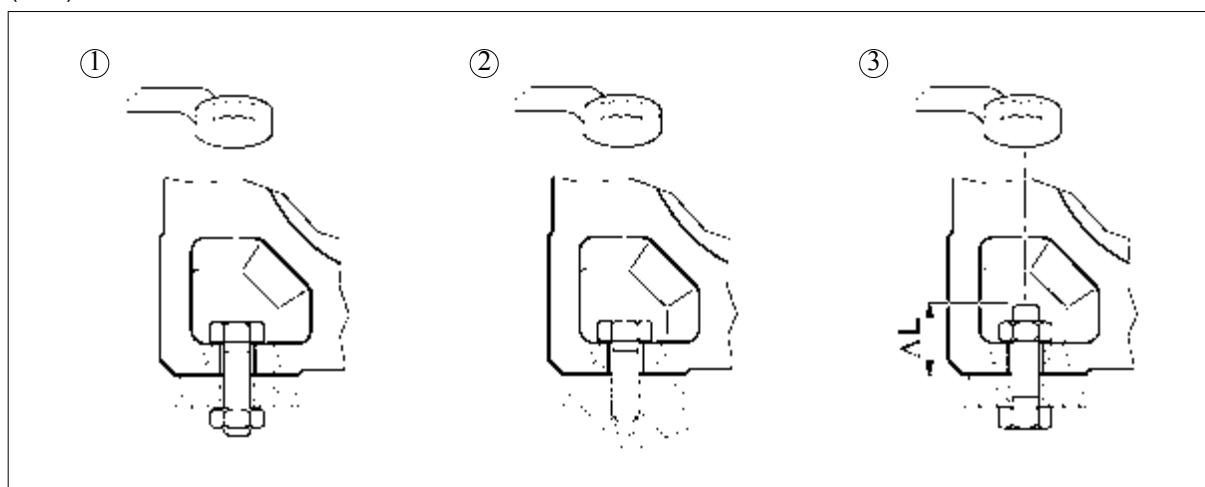
Accoster ensuite la bride du moteur à la bride du réducteur et serrer les vis de fixation.

Serrer la vis de la frette en utilisant une clé dynamométrique introduite dans le trou présent sur la face latérale de la bride. Les couples de serrage sont spécifiés dans les pages des dimensions de chaque réducteur.

15 INSTRUCTIONS POUR L' INSTALLATION

Dans les schémas indiqués dans le tableau (A10) l'on a indiqué 3 cas possibles pour le montage des réducteurs type A à la structure de la machine. Pour tous ces cas l'on doit se référer pour les dimensions des vis à tête hexagonales à employer, au tableau (A11). Pour un montage plus soigneux nous conseillons l'emploi du type de clé indiquée au tableau (A10).

(A 10)



(A 11)

	Type de vis			
	①	②	③	ΔL (mm)
A 05	M8x22	M8x20	M8x ...	22
A 10	M8x25	M8x20	M8x ...	20
A 20	M8x25	M8x20	M8x ...	20
A 30	M10x30	M10x25	M10x ...	25
A 35	M10x30	M10x25	M10x ...	25
A 41	M12x35	M12x30	M12x ...	30

	Type de vis			
	①	②	③	ΔL (mm)
A 50	M14x45	M14x40	M14x ...	35
A 55	M14x40	M14x40	M14x ...	35
A 60	M16x50	M16x45	M16x ...	40
A 70	M20x60	M20x55	M20x ...	45
A 80	M24x70	M24x65	M24x ...	55
A 90	M24x90	M24x80	M24x ...	65



16 STOCKAGE

Un correct stockage des produits reçus nécessite de respecter les règles suivantes :

- a) Exclure les zones à ciel ouvert, les zones exposées aux intempéries ou avec humidité excessive.
- b) Interposer dans tous les cas entre les produits et le sol, des planches de bois ou des supports d'autre nature empêchant un contact direct.
- c) Pour un stockage de long durée il faut protéger les surfaces d'accouplement (brides, arbres, manchon d'accouplement) avec produit anti oxydant (Mobilarma 248 ou équivalent).
- d) Dans les cas de stockage longue durée définis en phase de commande avec le choix optionnel de SLM ou SLP (voir chapitre spécifique cas et délais), les exigences techniques appropriées sont indiquées dans le Manuel d'utilisation disponible sur www.bonfiglioli.com. Pour garantir les délais, les conditions et les extensions, contactez le centre d'assistance Bonfiglioli disponible sur le site Web de l'entreprise.

Dans ce cas les réducteurs devront être placés avec bouchon reniflard vers le haut et complètement rempli d'huile.

Avant de la mise en service du réducteur, la bonne quantité d'huile devra être rétablie selon la quantité indiquée sur le catalogue (Reportez-vous au manuel de l'utilisateur disponible sur www.bonfiglioli.com).

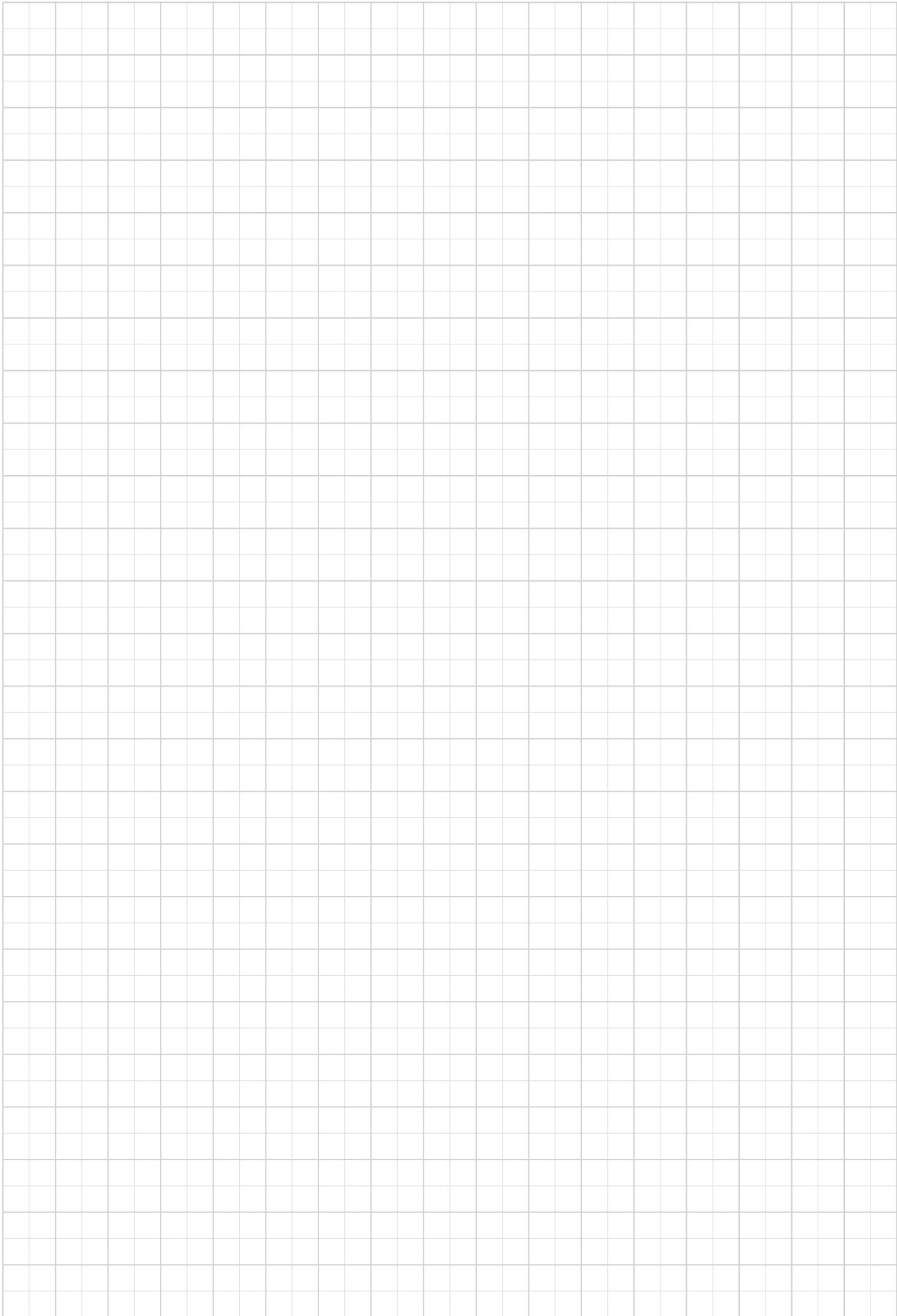
17 CONDITIONS DE LIVRAISON

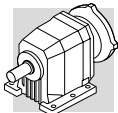
Les réducteurs sont livrés comme suit :

- a) déjà prédisposés pour être installés dans la position de montage comme défini en phase de commande ;
- b) testés selon les spécifications internes ;
- c) les surfaces de liaison ne sont pas peintes ;
- d) équipés d'écrous et de boulons pour le montage des moteurs normalisés pour la version IEC ;
- e) embouts de protections en plastique sur les arbres ;
- f) dotés d'un crochet de levage (quand cela est prévu).

18 SPECIFICATIONS DE LA PEINTURE

Les spécifications de la peinture appliquée sur les réducteurs pourront, le cas échéant, être demandées aux filiales ou aux distributeurs ayant fourni les groupes.





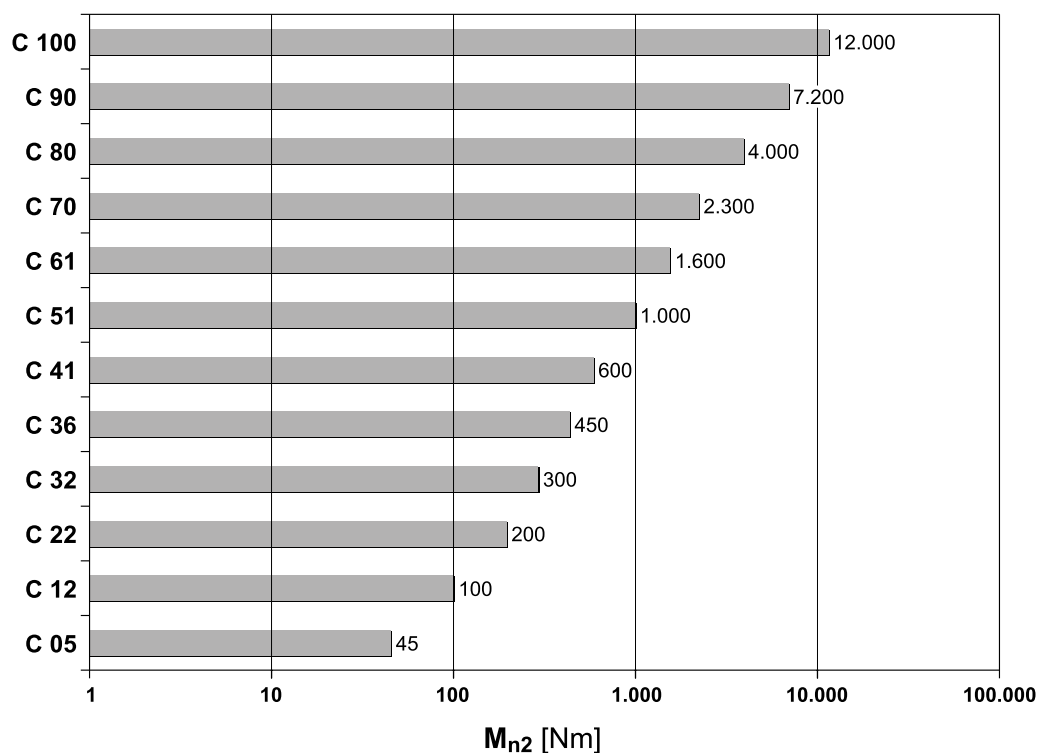
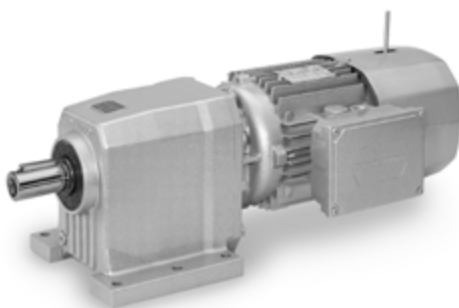
MOTOREDUCTEURS COAXIAUX SERIE C

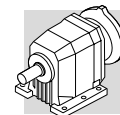
19 CARACTERISTIQUES DE CONSTRUCTION

Les principales caractéristiques de construction sont :

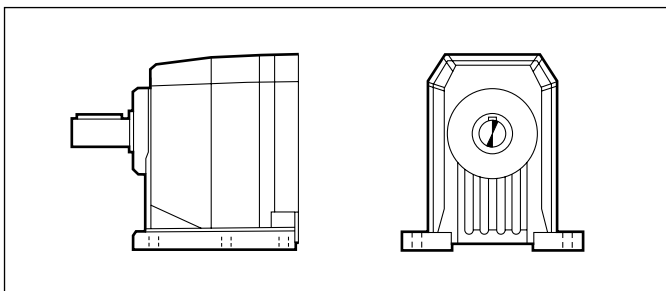
- modularité
- compacité
- montages universels
- rendements élevés
- faible niveau de bruit
- engrenages en acier allié cémentés et trempés
- carters en aluminium non peints dans les tailles 05, 12, 22, 32, carters en fonte à haute résistance peints dans les autres tailles
- arbres d'entrée et de sortie en acier à haute résistance.

(B 12)





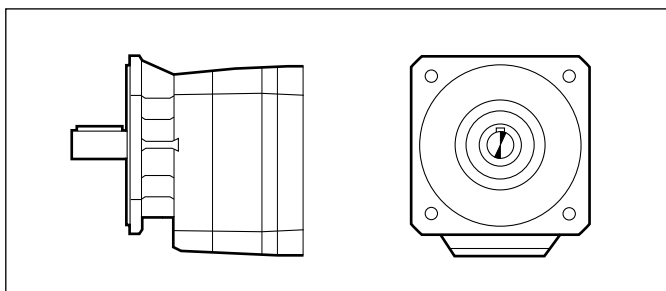
20 FORMES DE CONSTRUCTION



P

Carter à pattes monobloc

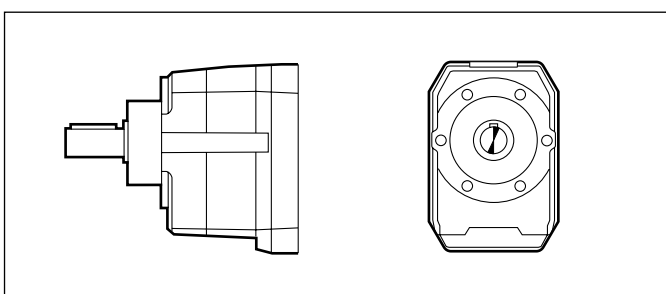
C 05 ... C 100



F

Carter à bride monobloc

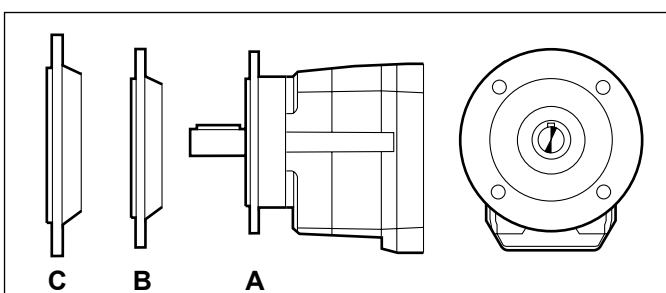
C 05 ... C 32
C 70 ... C 100



U

UNIBOX - carter universel

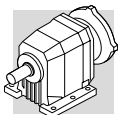
C 12 ... C 61



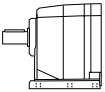
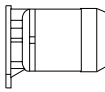
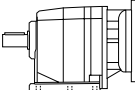
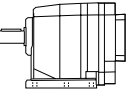
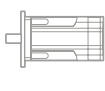
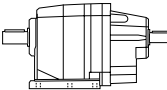
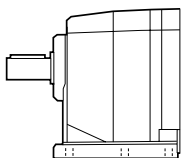
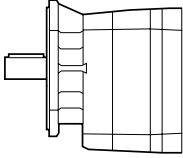
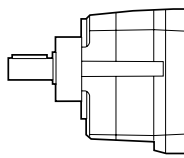
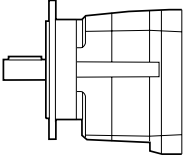
UF

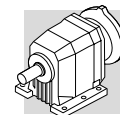
UNIBOX bride rapportée

C 12 ... C 61



21 DESIGNATION

REDUCTEUR							
C	32	2	F	52.4	S1	B5	
							OPTIONS
							POSITION DE MONTAGE C...P: B3 (Standard), B6, B7, B8, V5, V6 C...F/U/UF: B5 (Standard), B51, B53, B52, V1, V3
							DESIGNATION ENTREE <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  (C05...C100) </div> <div style="text-align: center;"> S05 ... S5 </div> <div style="text-align: center;">  M - ME - MX - MXN </div> </div> <div style="display: flex; justify-content: space-around; align-items: flex-start; margin-top: 10px;"> <div style="text-align: center;">  (C12...C100) </div> <div style="text-align: center;"> IEC_ P63 ... P280 </div> <div style="text-align: center;">  BN - BE - BX - BXN </div> </div> <div style="display: flex; justify-content: space-around; align-items: flex-start; margin-top: 10px;"> <div style="text-align: center;">  (C12...C61) </div> <div style="text-align: center;"> SK_ SC_ </div> <div style="text-align: center;">  </div> </div> <div style="display: flex; justify-content: space-around; align-items: flex-start; margin-top: 10px;"> <div style="text-align: center;">  (C12...C100) </div> <div style="text-align: center;"> HS </div> </div>
							RAPPORT DE REDUCTION
							FORME DE CONSTRUCTION <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  P (C05...C100) </div> <div style="text-align: center;">  F (C05...C32) (C70...C100) </div> <div style="text-align: center;">  U (C12...C61) </div> <div style="text-align: center;">  UFA UFB UFC (C12...C61) </div> </div>
							ETAGES DE REDUCTION 2, 3, 4
							TAILLE REDUCTEUR 05, 12, 22, 32, 36, 41, 51, 61, 70, 80, 90, 100
TYPE: C = coaxial							



MOTEUR					FREIN				
M	1LA 4	230/400-50	IP54	CLF		W	FD	7.5	R SB 220 SA
									OPTIONS
									ALIMENTATION FREIN
									TYPE REDRESSEUR AC/DC NB, SB, NBR, SBR, NR, SR
									LEVIER DE DEBLOCAGE FREIN R, RM
									COUPLE FREIN
									TYPE DE FREIN FD (frein c.c.) FDD (frein à courant continu haute performance)
									POSITION BOITE A BORNES W (default), N, E, S
									FORME DE CONSTRUCTION — (moteur compact) B5 (moteur IEC)
									CLASSE ISOLATION CL F standard CL H option
									DEGRE DE PROTECTION IP54, IP55, IP56
									TENSION - FRÉQUENCE Par BXN/MXN voir la section " Tension et fréquence " dans le catalogue EVOX
									Nbre POLES 2, 4, 6
									TAILLE MOTEUR 0B ... 5LA (moteur compact) 63A ... 280SBK (moteur IEC)

TYPE MOTEUR

MX-MXN = 3phasé compact, classe IE3

BX-BXN = 3phasé IEC, classe IE3

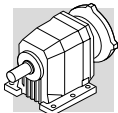
BY = 3phasé IEC, classe IE4

ME = 3phasé compact, classe IE2

BE = 3phasé IEC, classe IE2

M = 3phasé compact

BN = 3phasé IEC



21.1 Options réducteurs

LUBRIFICATION

Les réducteurs C05, C12, C22, C32, C36 et C41 sont généralement remplis d'huile en usine dans la version standard. Les réducteurs C51, C61, C70, C80, C90 et C100 sont généralement fournis non lubrifiés dans la version standard. Cependant, pour toutes les tailles de réducteurs remplis d'huile en usine, il est possible de demander la fourniture avec plus de types d'huile, sélectionnables selon ce qui est défini dans le tableau suivant. L'option n'est pas disponible pour les réducteurs C70, C80, C90 et C100 dans les positions de montage V6 et V3.

LUBRIFICATION	Type	Désignation	Producteur
LU	Polyalphaoléfine (PAO)	OMALA S4 GX 150	
LY	Polyalphaoléfine (PAO)	OMALA S4 GX 220	
LV	Polyalphaoléfine (PAO)	OMALA S4 GX 320	
LW	Polyalphaoléfine (PAO)	OMALA S4 GX 460	
LH	Polyglycol (PAG)	OMALA S4 WE 150	
LS	Polyglycol (PAG)	OMALA S4 WE 220	
LO*	Polyglycol (PAG)	OMALA S4 WE 320	
LK	Polyglycol (PAG)	OMALA S4 WE 460	
LN ^[1]	Base minérale EP	OMALA S2 G 150	
LZ ^[1]	Base minérale EP	OMALA S2 G 220	
LI ^[1]	Base minérale EP	OMALA S2 G 320	
LJ ^[1]	Base minérale EP	OMALA S2 G 460	
LA	Utilisation alimentaire	KLUBERSYNTH UH1 6-150	
LB	Utilisation alimentaire	KLUBERSYNTH UH1 6-220	
LC	Utilisation alimentaire	KLUBERSYNTH UH1 6-320	
LD	Utilisation alimentaire	KLUBERSYNTH UH1 6-460	

* Sauf indication contraire, les réducteurs C05, C12, C22, C32, C36 et C41 livrés avec une charge de lubrifiant utilisent de l'huile OMALA S4 WE 320.

[1] L'utilisation d'huile minérale est autorisée dans les motoréducteurs avec facteur de service $f_s \geq 1,30$.

SO

Les réducteurs C05, C12, C22, C32, C36, C41 habituellement fournis avec lubrifiant par la société BONFIGLIOLI RIDUTTORI, sont demandés sans lubrifiant.

DL

L'arbre lent est équipé d'une double bague d'étanchéité.

DV

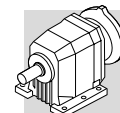
2 bagues d'étanchéité sur l'arbre rapide. (Disponible seulement sur motoréducteurs compacts).

VV

Bague d'étanchéité en élastomère fluoré sur l'arbre rapide.

PV

Toutes les bagues d'étanchéité en élastomère fluoré.



RB

Les réducteurs des types C12, C22, C32, C36, C41, C51 et C61, habituellement fournis avec un jeu angulaire standard, sont, dans ce cas, fournis avec un jeu angulaire réduit.

Les valeurs correspondantes au jeu angulaire sont reportées dans le tableau suivant.

(B 13)

		standard		RB	
C 05	i =	5.5 ; 9.3 ; 15.6 ; 27.1	6.7 ; 7.4 ; 11.2 ; 12.5 ; 18.9 ; 21.0 ; 32.8 ; 44.7	—	
	φ [°]	34	29		
C 12	i =	2.8 ; 6.2	7.6 ; 66.2	2.8 ; 6.2	7.6 ; 66.2
	φ [°]	55	29	—	13
C 22	i =	2.7 ; 6.1	7.1 ; 261.0	2.7 ; 6.1	7.1 ; 261.0
	φ [°]	47	25	—	12
C 32	i =	2.9 ; 6.3	7.2 ; 274.7	2.9 ; 6.3	7.2 ; 274.7
	φ [°]	39	21	—	11
C 36	i =	2.7 ; 5.8	6.8 ; 19.0 ; 22.1 ; 848.5	2.7 ; 5.8	6.8 ; 848.5
	φ [°]	37	20 ; 17	—	10
C 41 2	i =	2.7 ; 6.0	6.4 ; 44.8	2.7 ; 6.0	6.4 ; 44.8
	φ [°]	34	17	—	9
C 41 3/4	i =	—	28.5 ; 855.5	—	28.5 ; 855.5
	φ [°]	—	15	—	9
C 51 2	i =	2.6 ; 5.6	7.0 ; 57.0	2.6 ; 5.6	7.0 ; 57.0
	φ [°]	32	15	—	8
C 51 3/4	i =	—	21.8 ; 884.9	—	21.8 ; 884.9
	φ [°]	—	13	—	8
C 61 2	i =	2.8 ; 6.0	6.7 ; 38.0	2.8 ; 6.0	6.7 ; 38.0
	φ [°]	27	13	12	7
C 61 3/4	i =	—	26.8 ; 796.1	—	26.8 ; 796.1
	φ [°]	—	11	—	7
C 70	i =	4.6 ; 34.7	41.3 ; 1476	—	
	φ [°]	18	20		
C 80	i =	5.6 ; 39.1	43.5 ; 1481	—	
	φ [°]	16	18		
C 90	i =	5.2 ; 35.1	39.4 ; 1240	—	
	φ [°]	16	18		
C 100	i =	4.9 ; 29.6	34.3 ; 1081	—	
	φ [°]	14	16		

Pour le délai de livraison contacter le réseau de vente Bonfiglioli

IHB

Pour les applications où le rapport Couple nominal M_{n2} - Couple demandé M_{r2} du réducteur :

$$\frac{M_{n2}}{M_{r2}} \leq 1.5$$

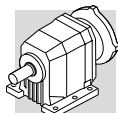
certaines réducteurs peuvent être demandées avec des roulements à capacité de charge accrue en spécifiant l'option **IHB** dans la commande. L'option IHB est disponible pour tous les réducteurs livrés avec adaptateur moteur IEC : P160 - P180 - P200.

Il est conseillé de contacter le Service Technique Bonfiglioli pour vérifier l'application.

BP

Les réducteurs, généralement fournis avec un reniflard ouvert, sont fournis avec un reniflard à soupape. L'étalonnage de la soupape peut varier de 0,10 à 0,15 bar selon le type de reniflard. La soupape s'ouvre à intervalles réguliers et permet l'évacuation de la pression interne empêchant les corps étrangers de pénétrer. Pour la disponibilité des options, voir le chapitre «Positions de montage et fiches de service» du manuel d'installation, d'utilisation et d'entretien (disponible sur: www.bonfiglioli.com).

Si nécessaire, contactez le service technique de Bonfiglioli.



STOCKAGE LONGUE DUREE

En présence de l'option Stockage longue durée, le produit configuré est fourni sans l'huile de lubrification standard mais avec un liquide de protection anticorrosion pour garantir l'intégrité et la pleine fonctionnalité du réducteur dans les cas où l'unité ne sera pas installée immédiatement mais doit être stockée pendant une longue période (installation au-delà de 6 mois à compter de la livraison). Les conditions de garantie sont valables 12 mois à compter de la mise en service (avec mise en service dans les 24 mois à compter de la livraison) ou 24 mois à compter de la livraison sans mise en service. Après 2 ans de stock, l'unité avec option Stockage longue durée doit être vérifiée par le centre d'assistance Bonfiglioli. En cas de produit mal conservé, une offre de Bonfiglioli sera émise pour une restauration complète. Une fois l'activité de récupération terminée avec succès, les conditions de garantie redémarrent à partir des 12 mois de mise en service (avec une mise en service dans les 24 mois à compter de la date de restauration) ou 24 mois à compter de la date de restauration.

Applicabilité de l'option Stockage longue durée :

Taille du réducteur	Applicabilité de l'option Stockage longue durée
C12 ... C41	Uniquement lorsque les options de lubrification ne sont pas actives (l'option SO est sélectionnée)
C51 ... C100	Uniquement lorsque les options de lubrification ne sont pas actives (LO, LH, LS, LK, LA, LB, LC, LD)

L'option Stockage longue durée peut être demandée en 2 versions :

- **SLM Stockage longue durée_Huile minérale** : option avec huile de protection anti-corrosive compatible avec tous les lubrifiants à base d'huile minérale répertoriés dans le manuel Bonfiglioli "Installation, fonctionnement et entretien".
- **SLP Stockage longue durée_Huile Polyglycole** : option ayant une huile de protection anticorrosion compatible avec tous les lubrifiants à base d'huile polyglycol répertoriés dans le manuel Bonfiglioli "Installation, fonctionnement et maintenance".

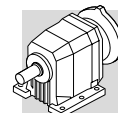
Remarque : une seule version peut être sélectionnée. SLM et SLP ne peuvent pas coexister.

Lors de la configuration d'un réducteur ou d'un motoréducteur avec l'option Stockage longue durée, il est nécessaire de connaître le type d'huile de lubrification qui sera utilisée par le client pendant la période de fonctionnement (huile minérale ou polyglycol).

Avant de mettre en service un produit Bonfiglioli avec cette option, assurez-vous que l'activité de remplissage d'huile de lubrification s'effectue à travers le bouchon de remplissage spécifique déterminé par la position de montage indiquée sur la plaque.

En ce qui concerne les réducteurs à lubrification à vie (voir tableau ci-dessous), la quantité d'huile de lubrification à rajouter n'est pas indiquée dans le manuel Bonfiglioli "installation, utilisation et entretien" correspondant. Dans ce cas, si l'option Stockage longue durée est active, il est donc nécessaire de contacter le centre d'assistance Bonfiglioli pour recevoir cette information.

Taille du réducteur	Quantité de lubrifiant
C12 ... C41	 BONFIGLIOLI TECHNICAL SERVICE
C51 ... C100	 



PROTECTION DE SURFACE

Lorsque qu'aucune classe de protection n'est requise, les surfaces (ferreuses) des réducteurs fournissent une protection minimale de classe C2 (UNI EN ISO 12944-2). Afin d'améliorer la résistance à la corrosion atmosphérique, les réducteurs peuvent être fournis avec une protection de surface **C3** et **C4**, obtenue par recouvrement complet.

(B 14)

PROTECTION DE SURFACE	Environnements typiques	Température maximum de surface	Classe de corrosivité en accord avec UNI EN ISO 12944-2
C3	Environnement urbains et industriels avec jusqu'à 100% d'humidité relative (pollution de l'air moyenne)	120°C	C3
C4	Zones industrielles, zones côtières, usines chimiques, avec jusqu'à 100% d'humidité relative (pollution de l'air élevée)	120°C	C4

Les réducteurs avec une protection optionnelle en classes **C3** ou **C4** sont disponibles dans plusieurs teintes. Si aucune teinte spécifique n'est requise (voir l'option "PEINTURE"), les réducteurs seront réalisés en RAL 7042.

Les réducteurs peuvent également être fournis avec une protection de surface pour une corrosivité en classe **C5** en accord avec UNI EN ISO 12944-2. Contacter notre Service Technique pour plus de détails.

PEINTURE

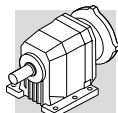
Les réducteurs avec une protection optionnelle en classe C3 ou C4 sont disponibles dans les teintes indiquées dans la table suivante.

(B 15)

PEINTURE	Couleur	RAL numéro
RAL7042*	Gris traffic A	7042
RAL5010	Bleu gentiane	5010
RAL9005	Noir foncé	9005
RAL9006	Aluminium blanc	9006
RAL9010	Blanc pur	9010
RAL7035	Gris clair	7035
RAL7001	Gris Argenté	7001
RAL5015	Bleu ciel	5015
RAL7037	Gris poussiéreux	7037
RAL5024	Bleu pastel	5024

* Les réducteurs sont fournis dans cette teinte standard si rien n'est spécifié.

NOTE – Les options "PEINTURE" peuvent seulement être spécifiées en accord avec les options "PROTECTION DE SURFACE".



PREUVES DOCUMENTAIRES

AC - Certificat de conformité

Document dont la délivrance atteste de la conformité du produit à la commande et de la construction de celui-ci conformément aux procédures standard de traitement et de contrôle prévues par le système de Qualité Bonfiglioli Riduttori.

CC - Certificat d'inspection

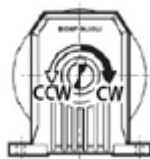
La spécification implique la réalisation de vérifications de conformité à la commande, des contrôles visuels généraux et des vérifications instrumentales des dimensions d'accouplement. En outre, des contrôles généraux de fonctionnement à vide et des vérifications de la fonctionnalité des joints d'étanchéité sont réalisés en modalité statique et en fonctionnement. La vérification s'applique à un échantillon statistique du lot d'expédition.

21.2 Options moteurs

AL, AR

Le dispositif anti-retour est disponible en option pour les motoréducteurs équipés de moteurs M, ME et MX. Lors de la commande du motoréducteur, le sens de rotation libre doit être spécifié au moyen de l'option AR ou AL. Le tableau suivant (B17) permet de sélectionner l'option AR ou AL en fonction du sens de rotation libre souhaité sur l'arbre lent du réducteur (sens horaire ou antihoraire).

(B 16)



Option à sélectionner en fonction du sens de rotation libre requis sur l'arbre lent du réducteur
valable pour toutes les tailles. Le tableau se réfère au réducteur en position de montage B3.
(CW : sens horaire, CCW : sens antihoraire)

CW			CCW		
2x	3x	4x	2x	3x	4x
AR	AL	AR	AL	AR	AL

Pour de plus amples informations sur les options, consulter la section moteurs électriques.

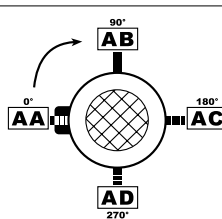
22 POSITIONS DE MONTAGE ET ORIENTATION BOITE A BORNES

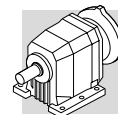
Les orientations des boîtes à bornes des moteurs sont définies en regardant le moteur du côté ventilateur. L'orientation standard est indiquée en noir (W).

Position angulaire du levier déblocage frein.

Dans les moteurs freins, ce levier (si requis) aura l'orientation standard de 90° par rapport à la boîte à bornes (position AB) ; spécifier avec options relatives si l'orientation désirée est différente.

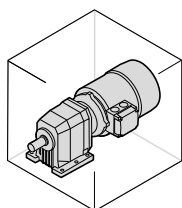
(B 17)



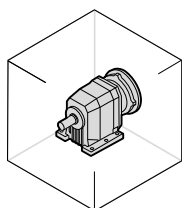


C ... P

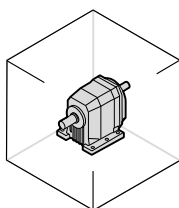
B3



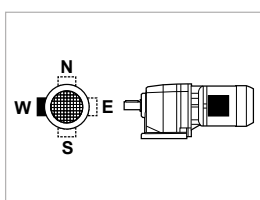
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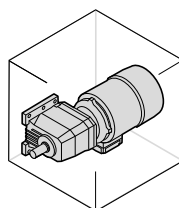
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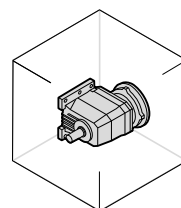
_HS



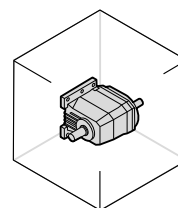
B6



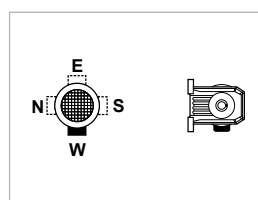
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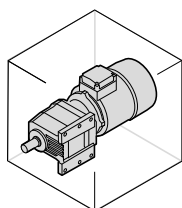
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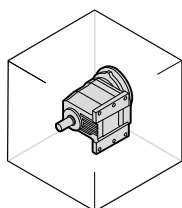
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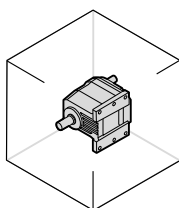
B7



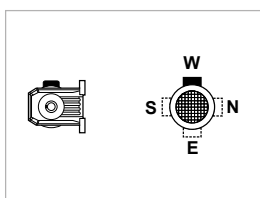
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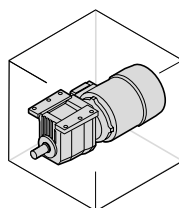
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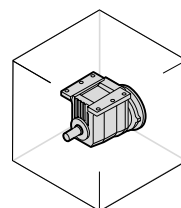
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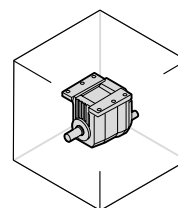
B8



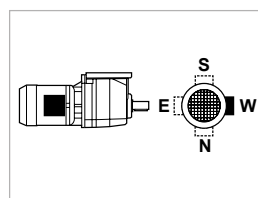
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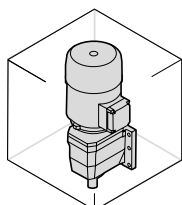
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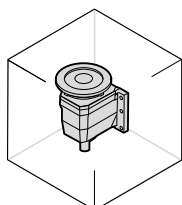
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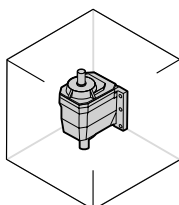
V5



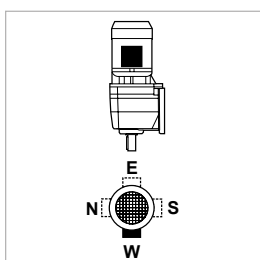
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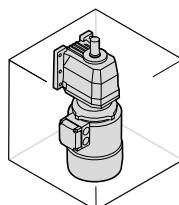
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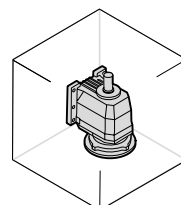
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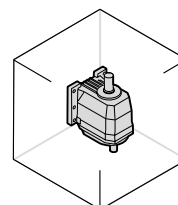
V6



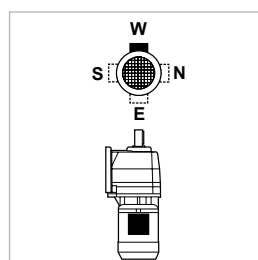
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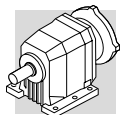
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W = Default

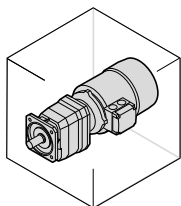


C ... F

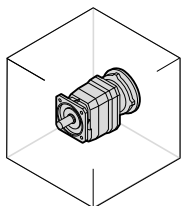
C ... U

C ... UF

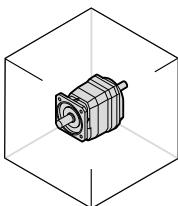
B5



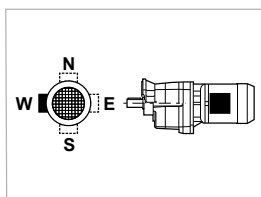
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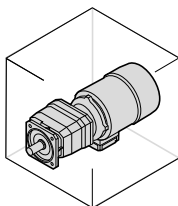
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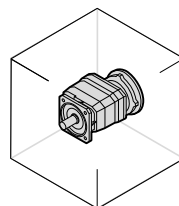
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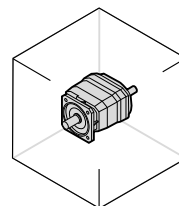
B51



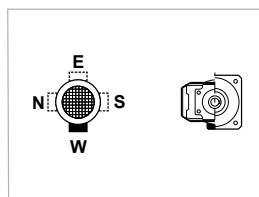
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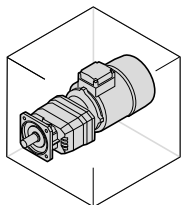
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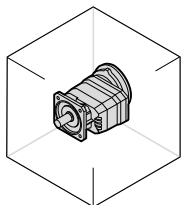
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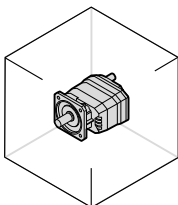
B53



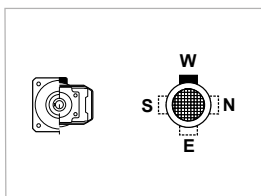
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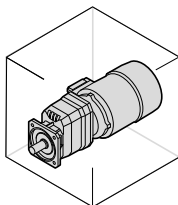
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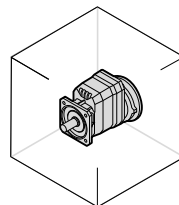
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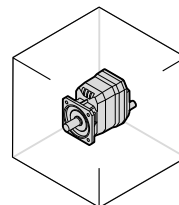
B52



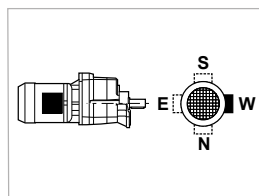
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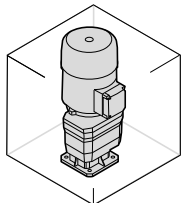
_P(IEC) _SK / _SC



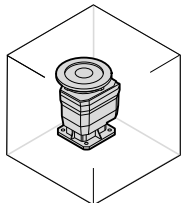
_HS



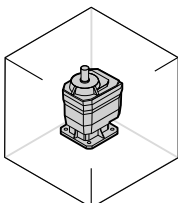
V1



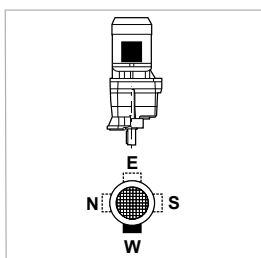
_S



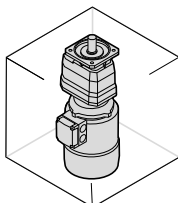
_P(IEC) _SK / _SC



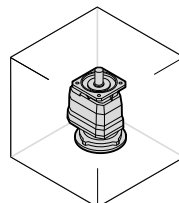
_HS



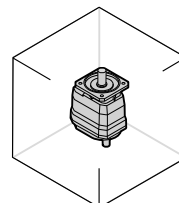
V3



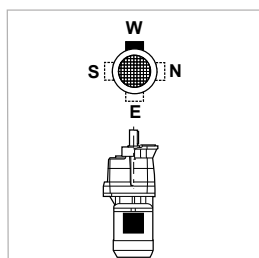
_S



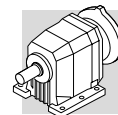
_P(IEC) _SK / _SC



_HS



W = Default



23 CHARGES RADIALES

Les organes de transmission calés sur les arbres d'entrée et/ou de sortie du réducteur génèrent des forces dont la résultante agit sur l'arbre dans le sens radial.

Les valeurs de ces charges doivent être compatibles avec la capacité d'endurance du système arbre-roulements du réducteur. Plus particulièrement, la valeur absolue de la charge appliquée (R_{c1} pour l'arbre d'entrée, R_{c2} pour l'arbre de sortie) doit être inférieure à la valeur nominale (R_{n1} pour l'arbre d'entrée, R_{n2} pour l'arbre de sortie) indiquée dans les tableaux des données techniques.

Dans les formules qui suivent, l'indice (1) se réfère à des valeurs relatives à l'arbre rapide, l'indice (2) concerne l'arbre lent.

La charge générée par une transmission extérieure peut être calculée, avec une bonne approximation, au moyen de la formule suivante:

$$R_{c1} [N] = \frac{2000 \cdot M_1 [Nm] \cdot K_r}{d [mm]} \quad ; \quad R_{c2} [N] = \frac{2000 \cdot M_2 [Nm] \cdot K_r}{d [mm]} \quad (15)$$

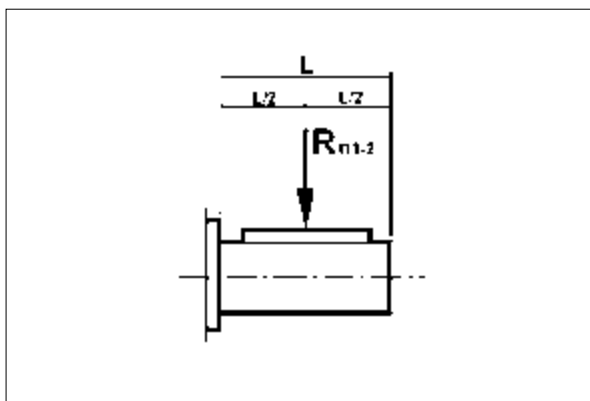
(B 18)

M_1 [Nm]	Couple appliqué à l'arbre rapide
M_2 [Nm]	Couple délivré par l'arbre lent
d [mm]	Diamètre primitif de l'organe monté sur l'arbre
$K_r = 1$	Transmission à chaîne

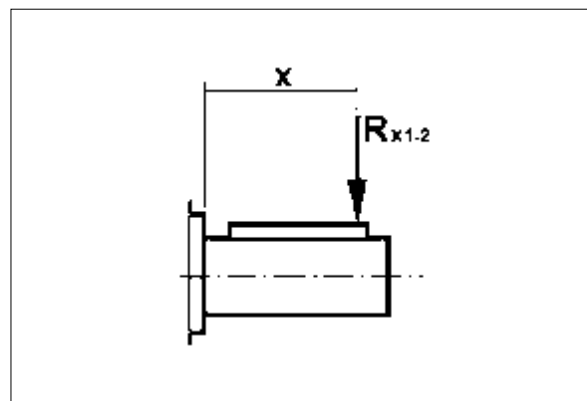
$K_r = 1,25$	Transmission à engrenage
$K_r = 1,5$	Transmission à courroie trapézoïdale
$K_r = 2,0$	Transmission à courroie plate

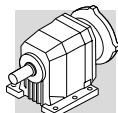
En fonction du point d'application de la charge sur l'arbre, la vérification de la compatibilité sera différente, plus particulièrement :

(B 19)



(B 20)





a) Application au milieu, tab. (B19)

La charge précédemment calculée doit être comparée avec la valeur nominale correspondante indiquée dans le catalogue, on doit vérifier :

$$R_{c1} \leq R_{n1} \quad [\text{arbre rapide}]$$

ou

$$R_{c2} \leq R_{n2} \quad [\text{arbre lent}]$$

b) Application déplacée du milieu, tab. (B20)

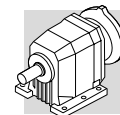
L'application de la charge à une distance "x" de la butée de l'arbre implique un nouveau calcul de la valeur admissible à cette distance.

La nouvelle valeur est indiquée par les symboles R_{x1} (entrée) et R_{x2} (sortie) ou peut être calculée d'après les valeurs du catalogue, respectivement R_{n1} et R_{n2} , en élaborant le facteur :

$$\frac{a}{b+x} \quad (16)$$

(B 21)

	Constantes du réducteur					
	Arbre lent			Arbre rapide		
	a	b	c	a	b	c
C 05 2	38	18	250	—	—	—
C 12 2	46	26	450	21	1	300
C 22 2	53	28	550	40	20	350
C 22 3	53	28	550	21	1	300
C 32 2	60.5	30.5	750	41.5	21.5	350
C 32 3	60.5	30.5	750	21	1	300
C 36 2 - C 36 3	69.5	34.5	800	51.5	26.5	450
C 36 4	69.5	34.5	800	21	1	300
C 41 2 - C 41 3	69.5	34.5	850	51.5	26.5	450
C 41 4	69.5	34.5	850	40	20	350
C 51 2 - C 51 3	76.5	36.5	900	51.5	26.5	450
C 51 4	76.5	36.5	900	41.5	21.5	350
C 61 2 - C 61 3	95.5	45.5	1000	57.5	27.5	450
C 61 4	95.5	45.5	1000	51.5	26.5	450
C 70 2 - C 70 3	114	54	1200	86	31	1000
C 70 4	114	54	1200	49.5	24.5	450
C 80 2 - C 80 3	131	61	1500	86	31	1000
C 80 4	131	61	1500	49.5	24.5	450
C 90 2 - C 90 3	161	76	2000	116	46	1400
C 90 4	161	76	2000	49.5	24.5	450
C 100 2 - C 100 3	163.5	58.5	2500	116	46	1400
C 100 4	163.5	58.5	2500	49.5	24.5	450



La procédure de vérification comporte les pas successifs indiqués ici.

ARBRE RAPIDE

1. Calcul de :

$$R_{x1} = R_{n1} \cdot \frac{a}{b+x} \quad (17)$$

N.B. A condition que :

$$\frac{L}{2} \leq x \leq c \quad (18)$$

Ensuite, vérifier que :

$$R_{c1} \leq R_{x1} \quad (19)$$

ARBRE LENT

1. Calcul de :

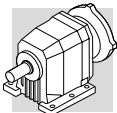
$$R_{x2} = R_{n2} \cdot \frac{a}{b+x} \quad (20)$$

N.B. A condition que :

$$\frac{L}{2} \leq x \leq c \quad (21)$$

Ensuite, vérifier que :

$$R_{c2} \leq R_{x2} \quad (22)$$



24 CHARGES AXIALES, A_{n1} , A_{n2}

Les valeurs de charge axiale admissibles sur les arbres rapides [A_{n1}] et lent [A_{n2}] peuvent être calculées, en se référant à la valeur de charge radiale correspondante [R_{n1}] et [R_{n2}] au moyen des formules suivantes :

$$A_{n1} = R_{n1} \cdot 0.2$$

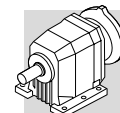
$$A_{n2} = R_{n2} \cdot 0.2$$

(23)

Les valeurs de charge axiale admissible ainsi calculées se réfèrent au cas de forces axiales agissant en même temps que les charges radiales nominales.

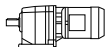
Dans le cas où la valeur de la charge radiale agissant sur l'arbre est nulle, l'on peut considérer la charge axiale admissible [A_n] égale à 50% de la valeur de la charge radiale admissible [R_n] sur le même arbre.

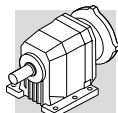
En présence de charges axiales excédant la valeur admissible, ou de forces axiales fortement supérieures aux charges radiales, il est conseillé de contacter le Service Technique Bonfiglioli Riduttori pour une vérification.



25 DONNEES TECHNIQUES MOTOREDUCTEURS

0.12 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				 IEC 		
					IE2	IE3		IE2	IE3	
1.5	681	0.9	855.5	7000	C414_855.5 S05 ME05A4	C414_855.5 S05 MX05A4	171	C414_855.5 P63 BE63A4	C414_855.5 P63 BX63A4	172
1.6	643	1.6	808.0	10000				C514_808.0 P63 BE63A4	C514_808.0 P63 BX63A4	176
1.7	621	1.0	780.4	7000	C414_780.4 S05 ME05A4	C414_780.4 S05 MX05A4	171	C414_780.4 P63 BE63A4	C414_780.4 P63 BX63A4	172
1.8	586	1.0	735.9	7000	C414_735.9 S05 ME05A4	C414_735.9 S05 MX05A4	171	C414_735.9 P63 BE63A4	C414_735.9 P63 BX63A4	172
2.0	534	1.1	671.3	7000	C414_671.3 S05 ME05A4	C414_671.3 S05 MX05A4	171	C414_671.3 P63 BE63A4	C414_671.3 P63 BX63A4	172
2.0	509	0.9	665.9	6500	C364_665.9 S05 ME05A4	C364_665.9 S05 MX05A4	167	C364_665.9 P63 BE63A4	C364_665.9 P63 BX63A4	168
2.2	474	1.3	595.8	7000	C414_595.8 S05 ME05A4	C414_595.8 S05 MX05A4	171	C414_595.8 P63 BE63A4	C414_595.8 P63 BX63A4	172
2.3	440	1.0	574.7	6500	C364_574.7 S05 ME05A4	C364_574.7 S05 MX05A4	167	C364_574.7 P63 BE63A4	C364_574.7 P63 BX63A4	168
2.4	433	1.4	543.5	7000	C414_543.5 S05 ME05A4	C414_543.5 S05 MX05A4	171	C414_543.5 P63 BE63A4	C414_543.5 P63 BX63A4	172
2.6	396	1.1	517.2	6500	C364_517.2 S05 ME05A4	C364_517.2 S05 MX05A4	167	C364_517.2 P63 BE63A4	C364_517.2 P63 BX63A4	168
2.7	393	1.5	493.5	7000	C414_493.5 S05 ME05A4	C414_493.5 S05 MX05A4	171	C414_493.5 P63 BE63A4	C414_493.5 P63 BX63A4	172
2.9	351	1.3	458.4	6500	C364_458.4 S05 ME05A4	C364_458.4 S05 MX05A4	167	C364_458.4 P63 BE63A4	C364_458.4 P63 BX63A4	168
2.9	358	1.7	450.2	7000	C414_450.2 S05 ME05A4	C414_450.2 S05 MX05A4	171	C414_450.2 P63 BE63A4	C414_450.2 P63 BX63A4	172
3.1	333	1.8	418.5	7000	C414_418.5 S05 ME05A4	C414_418.5 S05 MX05A4	171	C414_418.5 P63 BE63A4	C414_418.5 P63 BX63A4	172
3.2	321	1.4	420.2	6500	C364_420.2 S05 ME05A4	C364_420.2 S05 MX05A4	167	C364_420.2 P63 BE63A4	C364_420.2 P63 BX63A4	168
3.4	304	2.0	381.8	7000	C414_381.8 S05 ME05A4	C414_381.8 S05 MX05A4	171	C414_381.8 P63 BE63A4	C414_381.8 P63 BX63A4	172
3.6	289	1.6	377.9	6500	C364_377.9 S05 ME05A4	C364_377.9 S05 MX05A4	167	C364_377.9 P63 BE63A4	C364_377.9 P63 BX63A4	168
3.9	265	2.3	333.4	7000	C414_333.4 S05 ME05A4	C414_333.4 S05 MX05A4	171	C414_333.4 P63 BE63A4	C414_333.4 P63 BX63A4	172
4.0	261	1.7	341.7	6500	C364_341.7 S05 ME05A4	C364_341.7 S05 MX05A4	167	C364_341.7 P63 BE63A4	C364_341.7 P63 BX63A4	168
4.2	244	1.8	318.9	6500	C364_318.9 S05 ME05A4	C364_318.9 S05 MX05A4	167	C364_318.9 P63 BE63A4	C364_318.9 P63 BX63A4	168
4.3	242	2.5	304.2	7000	C414_304.2 S05 ME05A4	C414_304.2 S05 MX05A4	171	C414_304.2 P63 BE63A4	C414_304.2 P63 BX63A4	172
4.6	223	2.0	290.9	6500	C364_290.9 S05 ME05A4	C364_290.9 S05 MX05A4	167	C364_290.9 P63 BE63A4	C364_290.9 P63 BX63A4	168
4.9	217	1.2	274.7	5500	C323_274.7 S05 ME05A4	C323_274.7 S05 MX05A4	163	C323_274.7 P63 BE63A4	C323_274.7 P63 BX63A4	164
5.0	209	2.9	263.0	7000	C414_263.0 S05 ME05A4	C414_263.0 S05 MX05A4	171	C414_263.0 P63 BE63A4	C414_263.0 P63 BX63A4	172
5.3	195	2.3	255.0	6500	C364_255.0 S05 ME05A4	C364_255.0 S05 MX05A4	167	C364_255.0 P63 BE63A4	C364_255.0 P63 BX63A4	168
5.5	193	1.3	244.2	5500	C323_244.2 S05 ME05A4	C323_244.2 S05 MX05A4	163	C323_244.2 P63 BE63A4	C323_244.2 P63 BX63A4	164
5.8	177	2.5	230.9	6500	C364_230.9 S05 ME05A4	C364_230.9 S05 MX05A4	167	C364_230.9 P63 BE63A4	C364_230.9 P63 BX63A4	168
6.0	178	1.0	225.8	5000	C223_225.8 S05 ME05A4	C223_225.8 S05 MX05A4	159	C223_225.8 P63 BE63A4	C223_225.8 P63 BX63A4	160
6.3	170	1.8	215.6	5500	C323_215.6 S05 ME05A4	C323_215.6 S05 MX05A4	163	C323_215.6 P63 BE63A4	C323_215.6 P63 BX63A4	164
6.5	163	2.8	206.4	6500	C363_206.4 S05 ME05A4	C363_206.4 S05 MX05A4	167	C363_206.4 P63 BE63A4	C363_206.4 P63 BX63A4	168
6.7	159	1.2	200.7	5000	C223_200.7 S05 ME05A4	C223_200.7 S05 MX05A4	159	C223_200.7 P63 BE63A4	C223_200.7 P63 BX63A4	160
7.3	147	2.0	186.0	5500	C323_186.0 S05 ME05A4	C323_186.0 S05 MX05A4	163	C323_186.0 P63 BE63A4	C323_186.0 P63 BX63A4	164
7.4	145	3.1	183.5	6500	C363_183.5 S05 ME05A4	C363_183.5 S05 MX05A4	167	C363_183.5 P63 BE63A4	C363_183.5 P63 BX63A4	168
7.6	141	1.4	178.5	5000	C223_178.5 S05 ME05A4	C223_178.5 S05 MX05A4	159	C223_178.5 P63 BE63A4	C223_178.5 P63 BX63A4	160
8.1	132	2.3	167.4	5500	C323_167.4 S05 ME05A4	C323_167.4 S05 MX05A4	163	C323_167.4 P63 BE63A4	C323_167.4 P63 BX63A4	164
8.9	120	1.7	151.7	5000	C223_151.7 S05 ME05A4	C223_151.7 S05 MX05A4	159	C223_151.7 P63 BE63A4	C223_151.7 P63 BX63A4	160
9.1	117	2.6	148.4	5500	C323_148.4 S05 ME05A4	C323_148.4 S05 MX05A4	163	C323_148.4 P63 BE63A4	C323_148.4 P63 BX63A4	164
9.9	108	1.9	136.5	5000	C223_136.5 S05 ME05A4	C223_136.5 S05 MX05A4	159	C223_136.5 P63 BE63A4	C223_136.5 P63 BX63A4	160
9.9	108	2.8	136.0	5500	C323_136.0 S05 ME05A4	C323_136.0 S05 MX05A4	163	C323_136.0 P63 BE63A4	C323_136.0 P63 BX63A4	164
11.0	97	3.1	122.4	5500	C323_122.4 S05 ME05A4	C323_122.4 S05 MX05A4	163	C323_122.4 P63 BE63A4	C323_122.4 P63 BX63A4	164
11.0	97	2.1	122.2	5000	C223_122.2 S05 ME05A4	C223_122.2 S05 MX05A4	159	C223_122.2 P63 BE63A4	C223_122.2 P63 BX63A4	160
12.1	89	2.3	112.0	5000	C223_112.0 S05 ME05A4	C223_112.0 S05 MX05A4	159	C223_112.0 P63 BE63A4	C223_112.0 P63 BX63A4	160
13.5	79	2.5	100.2	5000	C223_100.2 S05 ME05A4	C223_100.2 S05 MX05A4	159	C223_100.2 P63 BE63A4	C223_100.2 P63 BX63A4	160
15.3	70	2.9	88.5	5000	C223_88.5 S05 ME05A4	C223_88.5 S05 MX05A4	159	C223_88.5 P63 BE63A4	C223_88.5 P63 BX63A4	160
16.3	65	3.1	82.6	5000	C223_82.6 S05 ME05A4	C223_82.6 S05 MX05A4	159	C223_82.6 P63 BE63A4	C223_82.6 P63 BX63A4	160
20.4	53	1.7	66.2	2000	C122_66.2 S05 ME05A4	C122_66.2 S05 MX05A4	155	C122_66.2 P63 BE63A4	C122_66.2 P63 BX63A4	156
21.3	51	2.5	63.3	5000	C222_63.3 S05 ME05A4	C222_63.3 S05 MX05A4	159	C222_63.3 P63 BE63A4	C222_63.3 P63 BX63A4	160
24.5	45	2.0	55.2	2000	C122_55.2 S05 ME05A4	C122_55.2 S05 MX05A4	155	C122_55.2 P63 BE63A4	C122_55.2 P63 BX63A4	156

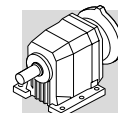


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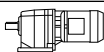
n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3		IE2	IE3	
24.7	44	3.5	54.7	5000	C222_54.7 S05 ME05A4	C222_54.7 S05 MX05A4	159	C222_54.7 P63 BE63A4	C222_54.7 P63 BX63A4	160
28.4	38	2.3	47.6	2000	C122_47.6 S05 ME05A4	C122_47.6 S05 MX05A4	155	C122_47.6 P63 BE63A4	C122_47.6 P63 BX63A4	156
29.3	37	1.2	44.7	1010	C052_44.7 S05 ME05A4	C052_44.7 S05 MX05A4	154	C122_42.3 P63 BE63A4	C122_42.3 P63 BX63A4	156
32.0	34	2.6	42.3	2000	C122_42.3 S05 ME05A4	C122_42.3 S05 MX05A4	155			
33.0	34	1.3	40.3	990	C052_40.3 S05 ME05A4	C052_40.3 S05 MX05A4	154			
36.0	30	1.5	36.4	980	C052_36.4 S05 ME05A4	C052_36.4 S05 MX05A4	154			
36.0	30	3.0	37.0	2000	C122_37.0 S05 ME05A4	C122_37.0 S05 MX05A4	155	C122_37.0 P63 BE63A4	C122_37.0 P63 BX63A4	156
40.0	27	1.6	32.8	960	C052_32.8 S05 ME05A4	C052_32.8 S05 MX05A4	154	C122_32.8 P63 BE63A4	C122_32.8 P63 BX63A4	156
41.0	26	3.4	32.8	2000	C122_32.8 S05 ME05A4	C122_32.8 S05 MX05A4	155			
48.0	23	2.0	27.1	930	C052_27.1 S05 ME05A4	C052_27.1 S05 MX05A4	154			
62.0	18	2.6	21.0	890	C052_21.0 S05 ME05A4	C052_21.0 S05 MX05A4	154			
69.0	16	2.5	18.9	860	C052_18.9 S05 ME05A4	C052_18.9 S05 MX05A4	154			
84.0	13	3.1	15.6	820	C052_15.6 S05 ME05A4	C052_15.6 S05 MX05A4	154			
105.0	10	3.8	12.5	780	C052_12.5 S05 ME05A4	C052_12.5 S05 MX05A4	154			
117.0	9	4.3	11.2	760	C052_11.2 S05 ME05A4	C052_11.2 S05 MX05A4	154			
141.0	8	3.9	9.3	720	C052_9.3 S05 ME05A4	C052_9.3 S05 MX05A4	154			
177.0	6	4.8	7.4	680	C052_7.4 S05 ME05A4	C052_7.4 S05 MX05A4	154			
196.0	6	5.4	6.7	660	C052_6.7 S05 ME05A4	C052_6.7 S05 MX05A4	154			

0.12 kW

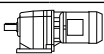
n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE3		IE3	
1.5	681	0.9	855.5	7000	C414_855.5 SX05 MXN05MA4	171	C414_855.5 P63 BXN63MA4	172
1.6	643	1.6	808.0	10000			C514_808.0 P63 BXN63MA4	176
1.7	621	1.0	780.4	7000	C414_780.4 SX05 MXN05MA4	171	C414_780.4 P63 BXN63MA4	172
1.8	586	1.0	735.9	7000	C414_735.9 SX05 MXN05MA4	171	C414_735.9 P63 BXN63MA4	172
2.0	534	1.1	671.3	7000	C414_671.3 SX05 MXN05MA4	171	C414_671.3 P63 BXN63MA4	172
2.0	509	0.9	665.9	6500	C364_665.9 SX05 MXN05MA4	167	C364_665.9 P63 BXN63MA4	168
2.2	474	1.3	595.8	7000	C414_595.8 SX05 MXN05MA4	171	C414_595.8 P63 BXN63MA4	172
2.3	440	1.0	574.7	6500	C364_574.7 SX05 MXN05MA4	167	C364_574.7 P63 BXN63MA4	168
2.4	433	1.4	543.5	7000	C414_543.5 SX05 MXN05MA4	171	C414_543.5 P63 BXN63MA4	172
2.6	396	1.1	517.2	6500	C364_517.2 SX05 MXN05MA4	167	C364_517.2 P63 BXN63MA4	168
2.7	393	1.5	493.5	7000	C414_493.5 SX05 MXN05MA4	171	C414_493.5 P63 BXN63MA4	172
2.9	351	1.3	458.4	6500	C364_458.4 SX05 MXN05MA4	167	C364_458.4 P63 BXN63MA4	168
2.9	358	1.7	450.2	7000	C414_450.2 SX05 MXN05MA4	171	C414_450.2 P63 BXN63MA4	172
3.1	333	1.8	418.5	7000	C414_418.5 SX05 MXN05MA4	171	C414_418.5 P63 BXN63MA4	172
3.2	321	1.4	420.2	6500	C364_420.2 SX05 MXN05MA4	167	C364_420.2 P63 BXN63MA4	168
3.4	304	2.0	381.8	7000	C414_381.8 SX05 MXN05MA4	171	C414_381.8 P63 BXN63MA4	172
3.6	289	1.6	377.9	6500	C364_377.9 SX05 MXN05MA4	167	C364_377.9 P63 BXN63MA4	168
3.9	265	2.3	333.4	7000	C414_333.4 SX05 MXN05MA4	171	C414_333.4 P63 BXN63MA4	172
4.0	261	1.7	341.7	6500	C364_341.7 SX05 MXN05MA4	167	C364_341.7 P63 BXN63MA4	168
4.2	244	1.8	318.9	6500	C364_318.9 SX05 MXN05MA4	167	C364_318.9 P63 BXN63MA4	168
4.3	242	2.5	304.2	7000	C414_304.2 SX05 MXN05MA4	171	C414_304.2 P63 BXN63MA4	172

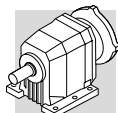


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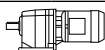
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IE3	 IE3	
4.6	223	2.0	290.9	6500	C364_290.9 SX05 MXN05MA4	167	C364_290.9 P63 BXN63MA4	168
4.9	217	1.2	274.7	5500	C323_274.7 SX05 MXN05MA4	163	C323_274.7 P63 BXN63MA4	164
5.0	209	2.9	263.0	7000	C414_263.0 SX05 MXN05MA4	171	C414_263.0 P63 BXN63MA4	172
5.3	195	2.3	255.0	6500	C364_255.0 SX05 MXN05MA4	167	C364_255.0 P63 BXN63MA4	168
5.5	193	1.3	244.2	5500	C323_244.2 SX05 MXN05MA4	163	C323_244.2 P63 BXN63MA4	164
5.8	177	2.5	230.9	6500	C364_230.9 SX05 MXN05MA4	167	C364_230.9 P63 BXN63MA4	168
6.0	178	1.0	225.8	5000	C223_225.8 SX05 MXN05MA4	159	C223_225.8 P63 BXN63MA4	160
6.3	170	1.8	215.6	5500	C323_215.6 SX05 MXN05MA4	163	C323_215.6 P63 BXN63MA4	164
6.5	163	2.8	206.4	6500			C363_206.4 P63 BXN63MA4	168
6.7	159	1.2	200.7	5000	C223_200.7 SX05 MXN05MA4	159	C223_200.7 P63 BXN63MA4	160
7.3	147	2.0	186.0	5500	C323_186.0 SX05 MXN05MA4	163	C323_186.0 P63 BXN63MA4	164
7.4	145	3.1	183.5	6500			C363_183.5 P63 BXN63MA4	168
7.6	141	1.4	178.5	5000	C223_178.5 SX05 MXN05MA4	159	C223_178.5 P63 BXN63MA4	160
8.1	132	2.3	167.4	5500	C323_167.4 SX05 MXN05MA4	163	C323_167.4 P63 BXN63MA4	164
8.9	120	1.7	151.7	5000	C223_151.7 SX05 MXN05MA4	159	C223_151.7 P63 BXN63MA4	160
9.1	117	2.6	148.4	5500	C323_148.4 SX05 MXN05MA4	163	C323_148.4 P63 BXN63MA4	164
9.9	108	1.9	136.5	5000	C223_136.5 SX05 MXN05MA4	159	C223_136.5 P63 BXN63MA4	160
9.9	108	2.8	136.0	5500	C323_136.0 SX05 MXN05MA4	163	C323_136.0 P63 BXN63MA4	164
11.0	97	3.1	122.4	5500	C323_122.4 SX05 MXN05MA4	163	C323_122.4 P63 BXN63MA4	164
11.0	97	2.1	122.2	5000	C223_122.2 SX05 MXN05MA4	159	C223_122.2 P63 BXN63MA4	160
12.1	89	2.3	112.0	5000	C223_112.0 SX05 MXN05MA4	159	C223_112.0 P63 BXN63MA4	160
13.5	79	2.5	100.2	5000	C223_100.2 SX05 MXN05MA4	159	C223_100.2 P63 BXN63MA4	160
15.3	70	2.9	88.5	5000	C223_88.5 SX05 MXN05MA4	159	C223_88.5 P63 BXN63MA4	160
16.3	65	3.1	82.6	5000	C223_82.6 SX05 MXN05MA4	159	C223_82.6 P63 BXN63MA4	160
20.4	53	1.7	66.2	2000	C122_66.2 SX05 MXN05MA4	155	C122_66.2 P63 BXN63MA4	156
21.3	51	2.5	63.3	5000	C222_63.3 SX05 MXN05MA4	159	C222_63.3 P63 BXN63MA4	160
24.5	45	2.0	55.2	2000	C122_55.2 SX05 MXN05MA4	155	C122_55.2 P63 BXN63MA4	156
24.7	44	3.5	54.7	5000	C222_54.7 SX05 MXN05MA4	159	C222_54.7 P63 BXN63MA4	160
28.4	38	2.3	47.6	2000	C122_47.6 SX05 MXN05MA4	155	C122_47.6 P63 BXN63MA4	156
32.0	34	2.6	42.3	2000	C122_42.3 SX05 MXN05MA4	155	C122_42.3 P63 BXN63MA4	156
36.0	30	3.0	37.0	2000	C122_37.0 SX05 MXN05MA4	155	C122_37.0 P63 BXN63MA4	156
41.0	26	3.4	32.8	2000	C122_32.8 SX05 MXN05MA4	155	C122_32.8 P63 BXN63MA4	156

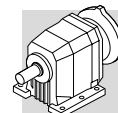
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE2	 IE3		 IE3	
1.5	1049	1.0	884.9	10000				C514_884.9 P63 BE63B4	176
1.6	958	1.0	808.0	10000				C514_808.0 P63 BE63B4	176
1.8	861	1.9	726.3	16000				C614_726.3 P63 BE63B4	180
1.8	851	1.2	717.7	10000				C514_717.7 P63 BE63B4	176
2.0	796	0.8	671.3	7000	C414_671.3 S05 ME05B4	C414_671.3 S05 MX05B4	171	C414_671.3 P63 BE63B4	172

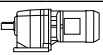


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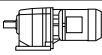
n ₂ min-1	M ₂ Nm	S	i	R _{n2} N					
					IE2	IE3	IE2	IE3	
2.0	777	1.3	655.4	10000			C514_655.4 P63 BE63B4	C514_655.4 P63 BX63B4	176
2.2	706	0.8	595.8	7000	C414_595.8 S05 ME05B4	C414_595.8 S05 MX05B4	C414_595.8 P63 BE63B4	C414_595.8 P63 BX63B4	172
2.4	644	0.9	543.5	7000	C414_543.5 S05 ME05B4	C414_543.5 S05 MX05B4	C414_543.5 P63 BE63B4	C414_543.5 P63 BX63B4	172
2.7	585	1.0	493.5	7000	C414_493.5 S05 ME05B4	C414_493.5 S05 MX05B4	C414_493.5 P63 BE63B4	C414_493.5 P63 BX63B4	172
2.9	534	1.1	450.2	7000	C414_450.2 S05 ME05B4	C414_450.2 S05 MX05B4	C414_450.2 P63 BE63B4	C414_450.2 P63 BX63B4	172
2.9	536	0.8	458.4	6500	C364_458.4 S05 ME05B4	C364_458.4 S05 MX05B4	C364_458.4 P63 BE63B4	C364_458.4 P63 BX63B4	168
3.1	492	0.9	420.2	6500	C364_420.2 S05 ME05B4	C364_420.2 S05 MX05B4	C364_420.2 P63 BE63B4	C364_420.2 P63 BX63B4	168
3.2	496	1.2	418.5	7000	C414_418.5 S05 ME05B4	C414_418.5 S05 MX05B4	C414_418.5 P63 BE63B4	C414_418.5 P63 BX63B4	172
3.5	452	1.3	381.8	7000	C414_381.8 S05 ME05B4	C414_381.8 S05 MX05B4	C414_381.8 P63 BE63B4	C414_381.8 P63 BX63B4	172
3.5	442	1.0	377.9	6500	C364_377.9 S05 ME05B4	C364_377.9 S05 MX05B4	C364_377.9 P63 BE63B4	C364_377.9 P63 BX63B4	168
3.9	400	1.1	341.7	6500	C364_341.7 S05 ME05B4	C364_341.7 S05 MX05B4	C364_341.7 P63 BE63B4	C364_341.7 P63 BX63B4	168
4.0	395	1.5	333.4	7000	C414_333.4 S05 ME05B4	C414_333.4 S05 MX05B4	C414_333.4 P63 BE63B4	C414_333.4 P63 BX63B4	172
4.1	373	1.2	318.9	6500	C364_318.9 S05 ME05B4	C364_318.9 S05 MX05B4	C364_318.9 P63 BE63B4	C364_318.9 P63 BX63B4	168
4.3	360	1.7	304.2	7000	C414_304.2 S05 ME05B4	C414_304.2 S05 MX05B4	C414_304.2 P63 BE63B4	C414_304.2 P63 BX63B4	172
4.5	340	1.3	290.9	6500	C364_290.9 S05 ME05B4	C364_290.9 S05 MX05B4	C364_290.9 P63 BE63B4	C364_290.9 P63 BX63B4	168
5.0	312	1.9	263.0	7000	C414_263.0 S05 ME05B4	C414_263.0 S05 MX05B4	C414_263.0 P63 BE63B4	C414_263.0 P63 BX63B4	172
5.2	298	1.5	255.0	6500	C364_255.0 S05 ME05B4	C364_255.0 S05 MX05B4	C364_255.0 P63 BE63B4	C364_255.0 P63 BX63B4	168
5.4	295	0.9	244.2	5500	C323_244.2 S05 ME05B4	C323_244.2 S05 MX05B4	C323_244.2 P63 BE63B4	C323_244.2 P63 BX63B4	164
5.7	270	1.7	230.9	6500	C364_230.9 S05 ME05B4	C364_230.9 S05 MX05B4	C364_230.9 P63 BE63B4	C364_230.9 P63 BX63B4	168
6.1	261	1.2	215.6	5500	C323_215.6 S05 ME05B4	C323_215.6 S05 MX05B4	C323_215.6 P63 BE63B4	C323_215.6 P63 BX63B4	164
6.4	250	1.8	206.4	6500	C363_206.4 S05 ME05B4	C363_206.4 S05 MX05B4	C363_206.4 P63 BE63B4	C363_206.4 P63 BX63B4	168
7.1	225	1.3	186.0	5500	C323_186.0 S05 ME05B4	C323_186.0 S05 MX05B4	C323_186.0 P63 BE63B4	C323_186.0 P63 BX63B4	164
7.2	222	2.0	183.5	6500	C363_183.5 S05 ME05B4	C363_183.5 S05 MX05B4	C363_183.5 P63 BE63B4	C363_183.5 P63 BX63B4	168
7.4	216	0.9	178.5	5000	C223_178.5 S05 ME05B4	C223_178.5 S05 MX05B4	C223_178.5 P63 BE63B4	C223_178.5 P63 BX63B4	160
7.9	202	1.5	167.4	5500	C323_167.4 S05 ME05B4	C323_167.4 S05 MX05B4	C323_167.4 P63 BE63B4	C323_167.4 P63 BX63B4	164
8.1	196	2.3	162.0	6500	C363_162.0 S05 ME05B4	C363_162.0 S05 MX05B4	C363_162.0 P63 BE63B4	C363_162.0 P63 BX63B4	168
8.7	183	1.1	151.7	5000	C223_151.7 S05 ME05B4	C223_151.7 S05 MX05B4	C223_151.7 P63 BE63B4	C223_151.7 P63 BX63B4	160
8.9	179	1.7	148.4	5500	C323_148.4 S05 ME05B4	C323_148.4 S05 MX05B4	C323_148.4 P63 BE63B4	C323_148.4 P63 BX63B4	164
9.4	169	2.7	139.8	6500	C363_139.8 S05 ME05B4	C363_139.8 S05 MX05B4	C363_139.8 P63 BE63B4	C363_139.8 P63 BX63B4	168
9.7	165	1.2	136.5	5000	C223_136.5 S05 ME05B4	C223_136.5 S05 MX05B4	C223_136.5 P63 BE63B4	C223_136.5 P63 BX63B4	160
9.7	164	1.8	136.0	5500	C323_136.0 S05 ME05B4	C323_136.0 S05 MX05B4	C323_136.0 P63 BE63B4	C323_136.0 P63 BX63B4	164
10.5	152	3.0	125.8	6500	C363_125.8 S05 ME05B4	C363_125.8 S05 MX05B4	C363_125.8 P63 BE63B4	C363_125.8 P63 BX63B4	168
10.8	148	2.0	122.4	5500	C323_122.4 S05 ME05B4	C323_122.4 S05 MX05B4	C323_122.4 P63 BE63B4	C323_122.4 P63 BX63B4	164
10.8	148	1.4	122.2	5000	C223_122.2 S05 ME05B4	C223_122.2 S05 MX05B4	C223_122.2 P63 BE63B4	C223_122.2 P63 BX63B4	160
11.8	135	1.5	112.0	5000	C223_112.0 S05 ME05B4	C223_112.0 S05 MX05B4	C223_112.0 P63 BE63B4	C223_112.0 P63 BX63B4	160
11.8	135	3.3	111.5	6500	C363_111.5 S05 ME05B4	C363_111.5 S05 MX05B4	C363_111.5 P63 BE63B4	C363_111.5 P63 BX63B4	168
11.9	134	2.2	110.6	5500	C323_110.6 S05 ME05B4	C323_110.6 S05 MX05B4	C323_110.6 P63 BE63B4	C323_110.6 P63 BX63B4	164
12.8	125	2.4	103.3	5500	C323_103.3 S05 ME05B4	C323_103.3 S05 MX05B4	C323_103.3 P63 BE63B4	C323_103.3 P63 BX63B4	164
12.9	124	3.6	102.2	6500	C363_102.2 S05 ME05B4	C363_102.2 S05 MX05B4	C363_102.2 P63 BE63B4	C363_102.2 P63 BX63B4	168
13.2	121	1.7	100.2	5000	C223_100.2 S05 ME05B4	C223_100.2 S05 MX05B4	C223_100.2 P63 BE63B4	C223_100.2 P63 BX63B4	160
14.0	114	2.6	94.2	5500	C323_94.2 S05 ME05B4	C323_94.2 S05 MX05B4	C323_94.2 P63 BE63B4	C323_94.2 P63 BX63B4	164
14.9	107	1.9	88.5	5000	C223_88.5 S05 ME05B4	C223_88.5 S05 MX05B4	C223_88.5 P63 BE63B4	C223_88.5 P63 BX63B4	160
16.0	100	2.0	82.6	5000	C223_82.6 S05 ME05B4	C223_82.6 S05 MX05B4	C223_82.6 P63 BE63B4	C223_82.6 P63 BX63B4	160
16.0	100	3.0	82.6	5500	C323_82.6 S05 ME05B4	C323_82.6 S05 MX05B4	C323_82.6 P63 BE63B4	C323_82.6 P63 BX63B4	164
17.6	90	2.2	74.8	5000	C223_74.8 S05 ME05B4	C223_74.8 S05 MX05B4	C223_74.8 P63 BE63B4	C223_74.8 P63 BX63B4	160
17.7	90	3.2	74.7	5500	C323_74.7 S05 ME05B4	C323_74.7 S05 MX05B4	C323_74.7 P63 BE63B4	C323_74.7 P63 BX63B4	164
19.8	83	2.6	66.8	5500	C322_66.8 S05 ME05B4	C322_66.8 S05 MX05B4	C322_66.8 P63 BE63B4	C322_66.8 P63 BX63B4	164
20.0	82	1.1	66.2	2000	C122_66.2 S05 ME05B4	C122_66.2 S05 MX05B4	C122_66.2 P63 BE63B4	C122_66.2 P63 BX63B4	156
20.2	79	2.5	65.3	5000	C223_65.3 S05 ME05B4	C223_65.3 S05 MX05B4	C223_65.3 P63 BE63B4	C223_65.3 P63 BX63B4	160
20.9	78	1.7	63.3	5000	C222_63.3 S05 ME05B4	C222_63.3 S05 MX05B4	C222_63.3 P63 BE63B4	C222_63.3 P63 BX63B4	160
22.0	73	2.6	60.0	5000	C223_60.0 S05 ME05B4	C223_60.0 S05 MX05B4	C223_60.0 P63 BE63B4	C223_60.0 P63 BX63B4	160
22.2	73	2.9	59.4	5500	C322_59.4 S05 ME05B4	C322_59.4 S05 MX05B4	C322_59.4 P63 BE63B4	C322_59.4 P63 BX63B4	164
23.9	68	1.3	55.2	2000	C122_55.2 S05 ME05B4	C122_55.2 S05 MX05B4	C122_55.2 P63 BE63B4	C122_55.2 P63 BX63B4	156
24.1	68	2.3	54.7	5000	C222_54.7 S05 ME05B4	C222_54.7 S05 MX05B4	C222_54.7 P63 BE63B4	C222_54.7 P63 BX63B4	160
27.1	60	2.6	48.6	5000	C222_48.6 S05 ME05B4	C222_48.6 S05 MX05B4	C222_48.6 P63 BE63B4	C222_48.6 P63 BX63B4	160
27.7	59	1.5	47.6	2000	C122_47.6 S05 ME05B4	C122_47.6 S05 MX05B4	C122_47.6 P63 BE63B4	C122_47.6 P63 BX63B4	156
31.0	53	3.6	43.3	5000	C222_43.3 S05 ME05B4	C222_43.3 S05 MX05B4	C222_43.3 P63 BE63B4	C222_43.3 P63 BX63B4	160

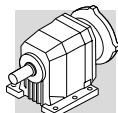


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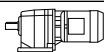
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N						
					IE2	IE3		IE2	IE3	
31.0	52	1.7	42.3	2000	C122_42.3 S05 ME05B4	C122_42.3 S05 MX05B4	155	C122_42.3 P63 BE63B4	C122_42.3 P63 BX63B4	156
33.0	50	0.9	40.3	850	C052_40.3 S05 ME05B4	C052_40.3 S05 MX05B4	154			
36.0	45	1.0	36.4	850	C052_36.4 S05 ME05B4	C052_36.4 S05 MX05B4	154			
36.0	46	2.0	37.0	2000	C122_37.0 S05 ME05B4	C122_37.0 S05 MX05B4	155	C122_37.0 P63 BE63B4	C122_37.0 P63 BX63B4	156
40.0	40	2.2	32.8	2000	C122_32.8 S05 ME05B4	C122_32.8 S05 MX05B4	155	C122_32.8 P63 BE63B4	C122_32.8 P63 BX63B4	156
40.0	41	1.1	32.8	840	C052_32.8 S05 ME05B4	C052_32.8 S05 MX05B4	154			
45.0	36	2.5	29.5	2000	C122_29.5 S05 ME05B4	C122_29.5 S05 MX05B4	155	C122_29.5 P63 BE63B4	C122_29.5 P63 BX63B4	156
49.0	34	1.3	27.1	820	C052_27.1 S05 ME05B4	C052_27.1 S05 MX05B4	154			
52.0	31	2.8	25.4	2000	C122_25.4 S05 ME05B4	C122_25.4 S05 MX05B4	155	C122_25.4 P63 BE63B4	C122_25.4 P63 BX63B4	156
57.0	29	3.0	23.2	2000	C122_23.2 S05 ME05B4	C122_23.2 S05 MX05B4	155	C122_23.2 P63 BE63B4	C122_23.2 P63 BX63B4	156
63.0	26	1.7	21.0	810	C052_21.0 S05 ME05B4	C052_21.0 S05 MX05B4	154			
64.0	25	3.2	20.6	2000	C122_20.6 S05 ME05B4	C122_20.6 S05 MX05B4	155	C122_20.6 P63 BE63B4	C122_20.6 P63 BX63B4	156
70.0	23	1.7	18.9	790	C052_18.9 S05 ME05B4	C052_18.9 S05 MX05B4	154			
72.0	23	3.4	18.4	2000	C122_18.4 S05 ME05B4	C122_18.4 S05 MX05B4	155	C122_18.4 P63 BE63B4	C122_18.4 P63 BX63B4	156
77.0	21	3.6	17.2	2000	C122_17.2 S05 ME05B4	C122_17.2 S05 MX05B4	155	C122_17.2 P63 BE63B4	C122_17.2 P63 BX63B4	156
85.0	19	2.1	15.6	760	C052_15.6 S05 ME05B4	C052_15.6 S05 MX05B4	154			
106.0	15	2.6	12.5	740	C052_12.5 S05 ME05B4	C052_12.5 S05 MX05B4	154			
118.0	14	2.9	11.2	720	C052_11.2 S05 ME05B4	C052_11.2 S05 MX05B4	154			
142.0	11	2.6	9.3	690	C052_9.3 S05 ME05B4	C052_9.3 S05 MX05B4	154			
178.0	9	3.3	7.4	650	C052_7.4 S05 ME05B4	C052_7.4 S05 MX05B4	154			
197.0	8	3.6	6.7	640	C052_6.7 S05 ME05B4	C052_6.7 S05 MX05B4	154			
240.0	7	4.4	5.5	600	C052_5.5 S05 ME05B4	C052_5.5 S05 MX05B4	154			

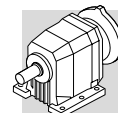
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N						
					IE3			IE3		
1.5	1049	1.0	884.9	10000				C514_884.9 P63 BXN63MB4		176
1.6	958	1.0	808.0	10000				C514_808.0 P63 BXN63MB4		176
1.8	861	1.9	726.3	16000				C614_726.3 P63 BXN63MB4		180
1.8	851	1.2	717.7	10000				C514_717.7 P63 BXN63MB4		176
2.0	796	0.8	671.3	7000	C414_671.3 SX05 MXN05MB4	171	C414_671.3 P63 BXN63MB4		172	
2.0	777	1.3	655.4	10000				C514_655.4 P63 BXN63MB4		176
2.2	706	0.8	595.8	7000	C414_595.8 SX05 MXN05MB4	171	C414_595.8 P63 BXN63MB4		172	
2.4	644	0.9	543.5	7000	C414_543.5 SX05 MXN05MB4	171	C414_543.5 P63 BXN63MB4		172	
2.7	585	1.0	493.5	7000	C414_493.5 SX05 MXN05MB4	171	C414_493.5 P63 BXN63MB4		172	
2.9	534	1.1	450.2	7000	C414_450.2 SX05 MXN05MB4	171	C414_450.2 P63 BXN63MB4		172	
2.9	536	0.8	458.4	6500	C364_458.4 SX05 MXN05MB4	167	C364_458.4 P63 BXN63MB4		168	
3.1	492	0.9	420.2	6500	C364_420.2 SX05 MXN05MB4	167	C364_420.2 P63 BXN63MB4		168	
3.2	496	1.2	418.5	7000	C414_418.5 SX05 MXN05MB4	171	C414_418.5 P63 BXN63MB4		172	
3.5	452	1.3	381.8	7000	C414_381.8 SX05 MXN05MB4	171	C414_381.8 P63 BXN63MB4		172	
3.5	442	1.0	377.9	6500	C364_377.9 SX05 MXN05MB4	167	C364_377.9 P63 BXN63MB4		168	
3.9	400	1.1	341.7	6500	C364_341.7 SX05 MXN05MB4	167	C364_341.7 P63 BXN63MB4		168	
4.0	395	1.5	333.4	7000	C414_333.4 SX05 MXN05MB4	171	C414_333.4 P63 BXN63MB4		172	
4.1	373	1.2	318.9	6500	C364_318.9 SX05 MXN05MB4	167	C364_318.9 P63 BXN63MB4		168	
4.3	360	1.7	304.2	7000	C414_304.2 SX05 MXN05MB4	171	C414_304.2 P63 BXN63MB4		172	
4.5	340	1.3	290.9	6500	C364_290.9 SX05 MXN05MB4	167	C364_290.9 P63 BXN63MB4		168	
5.0	312	1.9	263.0	7000	C414_263.0 SX05 MXN05MB4	171	C414_263.0 P63 BXN63MB4		172	
5.2	298	1.5	255.0	6500	C364_255.0 SX05 MXN05MB4	167	C364_255.0 P63 BXN63MB4		168	
5.4	295	0.9	244.2	5500	C323_244.2 SX05 MXN05MB4	163	C323_244.2 P63 BXN63MB4		164	
5.7	270	1.7	230.9	6500	C364_230.9 SX05 MXN05MB4	167	C364_230.9 P63 BXN63MB4		168	

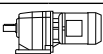


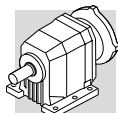
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IE3	 IE3	
6.1	261	1.2	215.6	5500	C323_215.6 SX05 MXN05MB4	163	C323_215.6 P63 BXN63MB4	164
6.4	250	1.8	206.4	6500	C323_186.0 SX05 MXN05MB4	163	C363_206.4 P63 BXN63MB4	168
7.1	225	1.3	186.0	5500			C323_186.0 P63 BXN63MB4	164
7.2	222	2.0	183.5	6500			C363_183.5 P63 BXN63MB4	168
7.4	216	0.9	178.5	5000			C223_178.5 P63 BXN63MB4	160
7.9	202	1.5	167.4	5500	C323_167.4 SX05 MXN05MB4	163	C323_167.4 P63 BXN63MB4	164
8.1	196	2.3	162.0	6500	C223_151.7 SX05 MXN05MB4	159	C363_162.0 P63 BXN63MB4	168
8.7	183	1.1	151.7	5000			C223_151.7 P63 BXN63MB4	160
8.9	179	1.7	148.4	5500			C323_148.4 P63 BXN63MB4	164
9.4	169	2.7	139.8	6500			C363_139.8 P63 BXN63MB4	168
9.7	165	1.2	136.5	5000	C223_136.5 SX05 MXN05MB4	159	C223_136.5 P63 BXN63MB4	160
9.7	164	1.8	136.0	5500	C323_136.0 SX05 MXN05MB4	163	C323_136.0 P63 BXN63MB4	164
10.5	152	3.0	125.8	6500			C363_125.8 P63 BXN63MB4	168
10.8	148	2.0	122.4	5500			C323_122.4 P63 BXN63MB4	164
10.8	148	1.4	122.2	5000			C223_122.2 P63 BXN63MB4	160
11.8	135	1.5	112.0	5000	C223_112.0 SX05 MXN05MB4	159	C223_112.0 P63 BXN63MB4	160
11.8	135	3.3	111.5	6500	C323_110.6 SX05 MXN05MB4	163	C363_111.5 P63 BXN63MB4	168
11.9	134	2.2	110.6	5500			C323_110.6 P63 BXN63MB4	164
12.8	125	2.4	103.3	5500			C323_103.3 P63 BXN63MB4	164
12.9	124	3.6	102.2	6500			C363_102.2 P63 BXN63MB4	168
13.2	121	1.7	100.2	5000	C223_100.2 SX05 MXN05MB4	159	C223_100.2 P63 BXN63MB4	160
14.0	114	2.6	94.2	5500	C323_94.2 SX05 MXN05MB4	163	C323_94.2 P63 BXN63MB4	164
14.9	107	1.9	88.5	5000	C223_88.5 SX05 MXN05MB4	159	C223_88.5 P63 BXN63MB4	160
16.0	100	2.0	82.6	5000	C223_82.6 SX05 MXN05MB4	159	C223_82.6 P63 BXN63MB4	160
16.0	100	3.0	82.6	5500	C323_82.6 SX05 MXN05MB4	163	C323_82.6 P63 BXN63MB4	164
17.6	90	2.2	74.8	5000	C223_74.8 SX05 MXN05MB4	159	C223_74.8 P63 BXN63MB4	160
17.7	90	3.2	74.7	5500	C323_74.7 SX05 MXN05MB4	163	C323_74.7 P63 BXN63MB4	164
19.8	83	2.6	66.8	5500			C322_66.8 P63 BXN63MB4	164
20.0	82	1.1	66.2	2000			C122_66.2 P63 BXN63MB4	156
20.2	79	2.5	65.3	5000			C223_65.3 P63 BXN63MB4	160
20.9	78	1.7	63.3	5000	C222_63.3 SX05 MXN05MB4	159	C222_63.3 P63 BXN63MB4	160
22.0	73	2.6	60.0	5000	C223_60.0 SX05 MXN05MB4	159	C223_60.0 P63 BXN63MB4	160
23.9	68	1.3	55.2	2000	C122_55.2 SX05 MXN05MB4	155	C122_55.2 P63 BXN63MB4	156
24.1	68	2.3	54.7	5000	C222_54.7 SX05 MXN05MB4	159	C222_54.7 P63 BXN63MB4	160
27.1	60	2.6	48.6	5000	C222_48.6 SX05 MXN05MB4	159	C222_48.6 P63 BXN63MB4	160
27.7	59	1.5	47.6	2000	C122_47.6 SX05 MXN05MB4	155	C122_47.6 P63 BXN63MB4	156
31.0	53	3.6	43.3	5000	C222_43.3 SX05 MXN05MB4	159	C222_43.3 P63 BXN63MB4	160
31.0	52	1.7	42.3	2000	C122_42.3 SX05 MXN05MB4	155	C122_42.3 P63 BXN63MB4	156
36.0	46	2.0	37.0	2000	C122_37.0 SX05 MXN05MB4	155	C122_37.0 P63 BXN63MB4	156
40.0	40	2.2	32.8	2000	C122_32.8 SX05 MXN05MB4	155	C122_32.8 P63 BXN63MB4	156
45.0	36	2.5	29.5	2000	C122_29.5 SX05 MXN05MB4	155	C122_29.5 P63 BXN63MB4	156
52.0	31	2.8	25.4	2000	C122_25.4 SX05 MXN05MB4	155	C122_25.4 P63 BXN63MB4	156
57.0	29	3.0	23.2	2000	C122_23.2 SX05 MXN05MB4	155	C122_23.2 P63 BXN63MB4	156
64.0	25	3.2	20.6	2000	C122_20.6 SX05 MXN05MB4	155	C122_20.6 P63 BXN63MB4	156
72.0	23	3.4	18.4	2000	C122_18.4 SX05 MXN05MB4	155	C122_18.4 P63 BXN63MB4	156
77.0	21	3.6	17.2	2000	C122_17.2 SX05 MXN05MB4	155	C122_17.2 P63 BXN63MB4	156



0.25 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N						
					IE2	IE3	IE2	IE3		
1.6	1330	0.8	808.0	10000			C514_808.0 P71 BE71A4	C514_808.0 P71 BX71A4	176	
1.6	1330	0.8	808.0	10000				C514_808.0 P63 BX63C4	176	
1.9	1134	0.9	717.7	10000			C514_717.7 P71 BE71A4	C514_717.7 P71 BX71A4	176	
2.0	1101	1.5	668.8	16000			C614_668.8 P71 BE71A4	C614_668.8 P71 BX71A4	180	
2.0	1101	1.5	668.8	16000				C614_668.8 P63 BX63C4	180	
2.5	869	1.2	549.7	10000			C514_549.7 P71 BE71A4	C514_549.7 P71 BX71A4	176	
2.9	741	0.8	450.2	7000	C414_450.2 S1 ME1SA4	C414_450.2 S1 MX1SA4	171	C414_450.2 P71 BE71A4	C414_450.2 P71 BX71A4	171
3.2	689	0.9	418.5	7000	C414_418.5 S1 ME1SA4	C414_418.5 S1 MX1SA4	171	C414_418.5 P71 BE71A4	C414_418.5 P71 BX71A4	172
3.2	684	1.5	415.7	10000			C514_415.7 P71 BE71A4	C514_415.7 P71 BX71A4	176	
3.5	628	1.0	381.8	7000	C414_381.8 S1 ME1SA4	C414_381.8 S1 MX1SA4	171	C414_381.8 P71 BE71A4	C414_381.8 P71 BX71A4	172
3.5	625	1.6	379.6	10000			C514_379.6 P71 BE71A4	C514_379.6 P71 BX71A4	176	
3.8	567	0.8	344.3	6500	C364_344.3 S1 ME1SA4	C364_344.3 S1 MX1SA4	167	C364_344.3 P71 BE71A4	C364_344.3 P71 BX71A4	168
4.0	549	1.1	333.4	7000	C414_333.4 S1 ME1SA4	C414_333.4 S1 MX1SA4	171	C414_333.4 P71 BE71A4	C414_333.4 P71 BX71A4	172
4.0	537	1.9	326.1	10000			C514_326.1 P71 BE71A4	C514_326.1 P71 BX71A4	176	
4.2	511	0.9	318.9	6500	C364_318.9 S1 ME1SA4	C364_318.9 S1 MX1SA4	167	C364_318.9 P71 BE71A4	C364_318.9 P71 BX71A4	168
4.3	501	1.2	304.2	7000	C414_304.2 S1 ME1SA4	C414_304.2 S1 MX1SA4	171	C414_304.2 P71 BE71A4	C414_304.2 P71 BX71A4	172
4.4	490	2.0	297.8	10000			C514_297.8 P71 BE71A4	C514_297.8 P71 BX71A4	176	
4.6	466	1.0	290.9	6500	C364_290.9 S1 ME1SA4	C364_290.9 S1 MX1SA4	167	C364_290.9 P71 BE71A4	C364_290.9 P71 BX71A4	168
5.0	434	2.3	263.8	10000			C514_263.8 P71 BE71A4	C514_263.8 P71 BX71A4	176	
5.0	433	1.4	263.0	7000	C414_263.0 S1 ME1SA4	C414_263.0 S1 MX1SA4	171	C414_263.0 P71 BE71A4	C414_263.0 P71 BX71A4	172
5.3	409	1.1	255.0	6500	C364_255.0 S1 ME1SA4	C364_255.0 S1 MX1SA4	167	C364_255.0 P71 BE71A4	C364_255.0 P71 BX71A4	168
5.5	395	1.5	239.9	7000	C414_239.9 S1 ME1SA4	C414_239.9 S1 MX1SA4	171	C414_239.9 P71 BE71A4	C414_239.9 P71 BX71A4	172
5.8	370	1.2	230.9	6500	C364_230.9 S1 ME1SA4	C364_230.9 S1 MX1SA4	167	C364_230.9 P71 BE71A4	C364_230.9 P71 BX71A4	168
6.3	350	2.9	216.7	10000			C513_216.7 P71 BE71A4	C513_216.7 P71 BX71A4	176	
6.5	342	1.3	206.4	6500	C363_206.4 S1 ME1SA4	C363_206.4 S1 MX1SA4	167	C363_206.4 P71 BE71A4	C363_206.4 P71 BX71A4	168
7.2	308	1.9	190.8	7000			C413_190.8 P71 BE71A4	C413_190.8 P71 BX71A4	172	
7.2	308	1.0	186.0	5500	C323_186.0 S1 ME1SA4	C323_186.0 S1 MX1SA4	163	C323_186.0 P71 BE71A4	C323_186.0 P71 BX71A4	164
7.3	304	1.5	183.5	6500	C363_183.5 S1 ME1SA4	C363_183.5 S1 MX1SA4	167	C363_183.5 P71 BE71A4	C363_183.5 P71 BX71A4	168
8.0	277	1.1	167.4	5500	C323_167.4 S1 ME1SA4	C323_167.4 S1 MX1SA4	163	C323_167.4 P71 BE71A4	C323_167.4 P71 BX71A4	164
8.3	268	1.7	162.0	6500	C363_162.0 S1 ME1SA4	C363_162.0 S1 MX1SA4	167	C363_162.0 P71 BE71A4	C363_162.0 P71 BX71A4	168
8.4	265	2.3	164.1	7000			C413_164.1 P71 BE71A4	C413_164.1 P71 BX71A4	172	
9.0	246	1.2	148.4	5500	C323_148.4 S1 ME1SA4	C323_148.4 S1 MX1SA4	163	C323_148.4 P71 BE71A4	C323_148.4 P71 BX71A4	164
9.6	231	1.9	139.8	6500	C363_139.8 S1 ME1SA4	C363_139.8 S1 MX1SA4	167	C363_139.8 P71 BE71A4	C363_139.8 P71 BX71A4	168
9.8	226	0.9	136.5	5000	C223_136.5 S1 ME1SA4	C223_136.5 S1 MX1SA4	159	C223_136.5 P71 BE71A4	C223_136.5 P71 BX71A4	160
9.9	225	1.3	136.0	5500	C323_136.0 S1 ME1SA4	C323_136.0 S1 MX1SA4	163	C323_136.0 P71 BE71A4	C323_136.0 P71 BX71A4	164
10.3	215	2.8	132.9	7000			C413_132.9 P71 BE71A4	C413_132.9 P71 BX71A4	172	
10.7	208	2.2	125.8	6500	C363_125.8 S1 ME1SA4	C363_125.8 S1 MX1SA4	167	C363_125.8 P71 BE71A4	C363_125.8 P71 BX71A4	168
11.0	203	1.5	122.4	5500	C323_122.4 S1 ME1SA4	C323_122.4 S1 MX1SA4	163	C323_122.4 P71 BE71A4	C323_122.4 P71 BX71A4	164
11.0	202	1.0	122.2	5000	C223_122.2 S1 ME1SA4	C223_122.2 S1 MX1SA4	159	C223_122.2 P71 BE71A4	C223_122.2 P71 BX71A4	160
12.0	185	1.1	112.0	5000	C223_112.0 S1 ME1SA4	C223_112.0 S1 MX1SA4	159	C223_112.0 P71 BE71A4	C223_112.0 P71 BX71A4	160
12.0	185	2.4	111.5	6500	C363_111.5 S1 ME1SA4	C363_111.5 S1 MX1SA4	167	C363_111.5 P71 BE71A4	C363_111.5 P71 BX71A4	168
12.1	183	1.6	110.6	5500	C323_110.6 S1 ME1SA4	C323_110.6 S1 MX1SA4	163	C323_110.6 P71 BE71A4	C323_110.6 P71 BX71A4	164
13.0	171	1.8	103.3	5500	C323_103.3 S1 ME1SA4	C323_103.3 S1 MX1SA4	163	C323_103.3 P71 BE71A4	C323_103.3 P71 BX71A4	164
13.1	169	2.7	102.2	6500	C363_102.2 S1 ME1SA4	C363_102.2 S1 MX1SA4	167	C363_102.2 P71 BE71A4	C363_102.2 P71 BX71A4	168
13.4	166	1.2	100.2	5000	C223_100.2 S1 ME1SA4	C223_100.2 S1 MX1SA4	159	C223_100.2 P71 BE71A4	C223_100.2 P71 BX71A4	160
14.2	156	1.9	94.2	5500	C323_94.2 S1 ME1SA4	C323_94.2 S1 MX1SA4	163	C323_94.2 P71 BE71A4	C323_94.2 P71 BX71A4	164
14.6	152	3.0	91.9	6500	C363_91.9 S1 ME1SA4	C363_91.9 S1 MX1SA4	167	C363_91.9 P71 BE71A4	C363_91.9 P71 BX71A4	168
15.1	147	1.4	88.5	5000	C223_88.5 S1 ME1SA4	C223_88.5 S1 MX1SA4	159	C223_88.5 P71 BE71A4	C223_88.5 P71 BX71A4	160
16.2	137	1.5	82.6	5000	C223_82.6 S1 ME1SA4	C223_82.6 S1 MX1SA4	159	C223_82.6 P71 BE71A4	C223_82.6 P71 BX71A4	160
16.2	137	2.2	82.6	5500	C323_82.6 S1 ME1SA4	C323_82.6 S1 MX1SA4	163	C323_82.6 P71 BE71A4	C323_82.6 P71 BX71A4	164
17.9	124	1.6	74.8	5000	C223_74.8 S1 ME1SA4	C223_74.8 S1 MX1SA4	159	C223_74.8 P71 BE71A4	C223_74.8 P71 BX71A4	160
17.9	124	2.3	74.7	5500	C323_74.7 S1 ME1SA4	C323_74.7 S1 MX1SA4	163	C323_74.7 P71 BE71A4	C323_74.7 P71 BX71A4	164
20.1	113	1.9	66.8	5500	C322_66.8 S1 ME1SA4	C322_66.8 S1 MX1SA4	163	C322_66.8 P71 BE71A4	C322_66.8 P71 BX71A4	164
20.3	112	0.8	66.2	2000	C122_66.2 S1 ME1SA4	C122_66.2 S1 MX1SA4	155	C122_66.2 P71 BE71A4	C122_66.2 P71 BX71A4	156
20.5	108	1.8	65.3	5000	C223_65.3 S1 ME1SA4	C223_65.3 S1 MX1SA4	159	C223_65.3 P71 BE71A4	C223_65.3 P71 BX71A4	160
21.2	107	1.2	63.3	5000			C222_63.3 P71 BE71A4	C222_63.3 P71 BX71A4	160	
22.3	99	1.9	60.0	5000	C223_60.0 S1 ME1SA4	C223_60.0 S1 MX1SA4	159	C223_60.0 P71 BE71A4	C223_60.0 P71 BX71A4	160

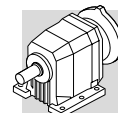


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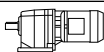
n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3		IE2	IE3	
22.6	100	2.1	59.4	5500	C322_59.4 S1 ME1SA4	C322_59.4 S1 MX1SA4	163	C322_59.4 P71 BE71A4	C322_59.4 P71 BX71A4	164
24.3	93	1.0	55.2	2000	C122_55.2 S1 ME1SA4	C122_55.2 S1 MX1SA4	155	C122_55.2 P71 BE71A4	C122_55.2 P71 BX71A4	156
24.5	93	1.7	54.7	5000				C222_54.7 P71 BE71A4	C222_54.7 P71 BX71A4	160
25.6	89	3.4	52.4	5500	C322_52.4 S1 ME1SA4	C322_52.4 S1 MX1SA4	163	C322_52.4 P71 BE71A4	C322_52.4 P71 BX71A4	164
27.5	82	1.9	48.6	5000				C222_48.6 P71 BE71A4	C222_48.6 P71 BX71A4	160
28.1	80	1.1	47.6	2000	C122_47.6 S1 ME1SA4	C122_47.6 S1 MX1SA4	155	C122_47.6 P71 BE71A4	C122_47.6 P71 BX71A4	156
31.0	73	2.6	43.3	4750	C222_43.3 S1 ME1SA4	C222_43.3 S1 MX1SA4	159	C222_43.3 P71 BE71A4	C222_43.3 P71 BX71A4	160
32.0	72	1.3	42.3	2000	C122_42.3 S1 ME1SA4	C122_42.3 S1 MX1SA4	155	C122_42.3 P71 BE71A4	C122_42.3 P71 BX71A4	156
36.0	63	1.4	37.0	2000	C122_37.0 S1 ME1SA4	C122_37.0 S1 MX1SA4	155	C122_37.0 P71 BE71A4	C122_37.0 P71 BX71A4	156
36.0	62	3.2	36.8	4540	C222_36.8 S1 ME1SA4	C222_36.8 S1 MX1SA4	159	C222_36.8 P71 BE71A4	C222_36.8 P71 BX71A4	160
40.0	56	3.6	33.1	4500	C222_33.1 S1 ME1SA4	C222_33.1 S1 MX1SA4	159	C222_33.1 P71 BE71A4	C222_33.1 P71 BX71A4	160
41.0	55	1.6	32.8	2000	C122_32.8 S1 ME1SA4	C122_32.8 S1 MX1SA4	155	C122_32.8 P71 BE71A4	C122_32.8 P71 BX71A4	156
45.0	50	1.8	29.5	2000	C122_29.5 S1 ME1SA4	C122_29.5 S1 MX1SA4	155	C122_29.5 P71 BE71A4	C122_29.5 P71 BX71A4	156
49.0	47	1.0	27.1	700	C052_27.1 S1 ME1SA4	C052_27.1 S1 MX1SA4	154			
53.0	43	2.1	25.4	2000	C122_25.4 S1 ME1SA4	C122_25.4 S1 MX1SA4	155	C122_25.4 P71 BE71A4	C122_25.4 P71 BX71A4	156
58.0	39	2.2	23.2	2000	C122_23.2 S1 ME1SA4	C122_23.2 S1 MX1SA4	155	C122_23.2 P71 BE71A4	C122_23.2 P71 BX71A4	156
63.0	36	1.2	21.0	720	C052_21.0 S1 ME1SA4	C052_21.0 S1 MX1SA4	154			
65.0	35	2.4	20.6	2000	C122_20.6 S1 ME1SA4	C122_20.6 S1 MX1SA4	155	C122_20.6 P71 BE71A4	C122_20.6 P71 BX71A4	156
70.0	33	1.2	18.9	710	C052_18.9 S1 ME1SA4	C052_18.9 S1 MX1SA4	154			
73.0	31	2.5	18.4	2000	C122_18.4 S1 ME1SA4	C122_18.4 S1 MX1SA4	155	C122_18.4 P71 BE71A4	C122_18.4 P71 BX71A4	156
78.0	29	2.6	17.2	2000	C122_17.2 S1 ME1SA4	C122_17.2 S1 MX1SA4	155	C122_17.2 P71 BE71A4	C122_17.2 P71 BX71A4	156
85.0	27	1.5	15.6	700	C052_15.6 S1 ME1SA4	C052_15.6 S1 MX1SA4	154			
87.0	26	2.8	15.4	2000	C122_15.4 S1 ME1SA4	C122_15.4 S1 MX1SA4	155	C122_15.4 P71 BE71A4	C122_15.4 P71 BX71A4	156
100.0	23	3.1	13.4	2000	C122_13.4 S1 ME1SA4	C122_13.4 S1 MX1SA4	155	C122_13.4 P71 BE71A4	C122_13.4 P71 BX71A4	156
106.0	22	1.9	12.5	690	C052_12.5 S1 ME1SA4	C052_12.5 S1 MX1SA4	154			
113.0	20	3.3	11.9	2000	C122_11.9 S1 ME1SA4	C122_11.9 S1 MX1SA4	155	C122_11.9 P71 BE71A4	C122_11.9 P71 BX71A4	156
118.0	19	2.1	11.2	670	C052_11.2 S1 ME1SA4	C052_11.2 S1 MX1SA4	154			
133.0	17	3.7	10.1	1980	C122_10.1 S1 ME1SA4	C122_10.1 S1 MX1SA4	155	C122_10.1 P71 BE71A4	C122_10.1 P71 BX71A4	156
142.0	16	1.9	9.3	650	C052_9.3 S1 ME1SA4	C052_9.3 S1 MX1SA4	154			
178.0	13	2.4	7.4	620	C052_7.4 S1 ME1SA4	C052_7.4 S1 MX1SA4	154			
197.0	12	2.6	6.7	610	C052_6.7 S1 ME1SA4	C052_6.7 S1 MX1SA4	154			
240.0	9	3.2	5.5	580	C052_5.5 S05 M05C4	C052_5.5 S1 ME1SA4	154			

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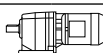
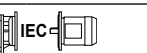
n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE3		IE3	
1.9	1134	0.9	717.7	10000			C514_717.7 P71 BXN71MA4	176
2.5	869	1.2	549.7	10000			C514_549.7 P71 BXN71MA4	176
2.9	741	0.8	450.2	7000	C414_450.2 SX10 MXN10MA4	171	C414_450.2 P71 BXN71MA4	172
3.2	689	0.9	418.5	7000	C414_418.5 SX10 MXN10MA4	171	C414_418.5 P71 BXN71MA4	172
3.2	684	1.5	415.7	10000			C514_415.7 P71 BXN71MA4	176
3.5	628	1.0	381.8	7000	C414_381.8 SX10 MXN10MA4	171	C414_381.8 P71 BXN71MA4	172
3.5	625	1.6	379.6	10000			C514_379.6 P71 BXN71MA4	176
3.8	567	0.8	344.3	6500	C364_344.3 SX10 MXN10MA4	167	C364_344.3 P71 BXN71MA4	168
4.0	549	1.1	333.4	7000	C414_333.4 SX10 MXN10MA4	171	C414_333.4 P71 BXN71MA4	172
4.0	537	1.9	326.1	10000			C514_326.1 P71 BXN71MA4	176
4.2	511	0.9	318.9	6500	C364_318.9 SX10 MXN10MA4	167	C364_318.9 P71 BXN71MA4	168
4.3	501	1.2	304.2	7000	C414_304.2 SX10 MXN10MA4	171	C414_304.2 P71 BXN71MA4	172
4.4	490	2.0	297.8	10000			C514_297.8 P71 BXN71MA4	176
4.6	466	1.0	290.9	6500	C364_290.9 SX10 MXN10MA4	167	C364_290.9 P71 BXN71MA4	168
5.0	434	2.3	263.8	10000			C514_263.8 P71 BXN71MA4	176
5.0	433	1.4	263.0	7000	C414_263.0 SX10 MXN10MA4	171	C414_263.0 P71 BXN71MA4	172
5.3	409	1.1	255.0	6500	C364_255.0 SX10 MXN10MA4	167	C364_255.0 P71 BXN71MA4	168
5.5	395	1.5	239.9	7000	C414_239.9 SX10 MXN10MA4	171	C414_239.9 P71 BXN71MA4	172

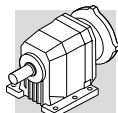


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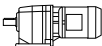
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IE3	 IE3	
5.8	370	1.2	230.9	6500	C364_230.9 SX10 MXN10MA4	167	C364_230.9 P71 BXN71MA4	168
6.3	350	2.9	216.7	10000			C513_216.7 P71 BXN71MA4	176
6.5	342	1.3	206.4	6500	C363_206.4 SX10 MXN10MA4	167	C363_206.4 P71 BXN71MA4	168
7.2	308	1.9	190.8	7000			C413_190.8 P71 BXN71MA4	172
7.2	308	1.0	186.0	5500	C323_186.0 SX10 MXN10MA4	163	C323_186.0 P71 BXN71MA4	164
7.3	304	1.5	183.5	6500	C363_183.5 SX10 MXN10MA4	167	C363_183.5 P71 BXN71MA4	168
8.0	277	1.1	167.4	5500	C323_167.4 SX10 MXN10MA4	163	C323_167.4 P71 BXN71MA4	164
8.3	268	1.7	162.0	6500	C363_162.0 SX10 MXN10MA4	167	C363_162.0 P71 BXN71MA4	168
8.4	265	2.3	164.1	7000			C413_164.1 P71 BXN71MA4	172
9.0	246	1.2	148.4	5500	C323_148.4 SX10 MXN10MA4	163	C323_148.4 P71 BXN71MA4	164
9.6	231	1.9	139.8	6500	C363_139.8 SX10 MXN10MA4	167	C363_139.8 P71 BXN71MA4	168
9.8	226	0.9	136.5	5000	C223_136.5 SX10 MXN10MA4	159	C223_136.5 P71 BXN71MA4	160
9.9	225	1.3	136.0	5500	C323_136.0 SX10 MXN10MA4	163	C323_136.0 P71 BXN71MA4	164
10.3	215	2.8	132.9	7000			C413_132.9 P71 BXN71MA4	172
10.7	208	2.2	125.8	6500	C363_125.8 SX10 MXN10MA4	167	C363_125.8 P71 BXN71MA4	168
11.0	203	1.5	122.4	5500	C323_122.4 SX10 MXN10MA4	163	C323_122.4 P71 BXN71MA4	164
11.0	202	1.0	122.2	5000	C223_122.2 SX10 MXN10MA4	159	C223_122.2 P71 BXN71MA4	160
12.0	185	1.1	112.0	5000	C223_112.0 SX10 MXN10MA4	159	C223_112.0 P71 BXN71MA4	160
12.0	185	2.4	111.5	6500	C363_111.5 SX10 MXN10MA4	167	C363_111.5 P71 BXN71MA4	168
12.1	183	1.6	110.6	5500	C323_110.6 SX10 MXN10MA4	163	C323_110.6 P71 BXN71MA4	164
13.0	171	1.8	103.3	5500	C323_103.3 SX10 MXN10MA4	163	C323_103.3 P71 BXN71MA4	164
13.1	169	2.7	102.2	6500	C363_102.2 SX10 MXN10MA4	167	C363_102.2 P71 BXN71MA4	168
13.4	166	1.2	100.2	5000	C223_100.2 SX10 MXN10MA4	159	C223_100.2 P71 BXN71MA4	160
14.2	156	1.9	94.2	5500	C323_94.2 SX10 MXN10MA4	163	C323_94.2 P71 BXN71MA4	164
14.6	152	3.0	91.9	6500	C363_91.9 SX10 MXN10MA4	167	C363_91.9 P71 BXN71MA4	168
15.1	147	1.4	88.5	5000	C223_88.5 SX10 MXN10MA4	159	C223_88.5 P71 BXN71MA4	160
16.2	137	1.5	82.6	5000	C223_82.6 SX10 MXN10MA4	159	C223_82.6 P71 BXN71MA4	160
16.2	137	2.2	82.6	5500	C323_82.6 SX10 MXN10MA4	163	C323_82.6 P71 BXN71MA4	164
17.9	124	1.6	74.8	5000	C223_74.8 SX10 MXN10MA4	159	C223_74.8 P71 BXN71MA4	160
17.9	124	2.3	74.7	5500	C323_74.7 SX10 MXN10MA4	163	C323_74.7 P71 BXN71MA4	164
20.1	113	1.9	66.8	5500	C322_66.8 SX10 MXN10MA4	163	C322_66.8 P71 BXN71MA4	164
20.3	112	0.8	66.2	2000	C122_66.2 SX10 MXN10MA4	155	C122_66.2 P71 BXN71MA4	156
20.5	108	1.8	65.3	5000	C223_65.3 SX10 MXN10MA4	159	C223_65.3 P71 BXN71MA4	160
21.2	107	1.2	63.3	5000			C222_63.3 P71 BXN71MA4	160
22.3	99	1.9	60.0	5000	C223_60.0 SX10 MXN10MA4	159	C223_60.0 P71 BXN71MA4	160
22.6	100	2.1	59.4	5500	C322_59.4 SX10 MXN10MA4	163	C322_59.4 P71 BXN71MA4	164
24.3	93	1.0	55.2	2000	C122_55.2 SX10 MXN10MA4	155	C122_55.2 P71 BXN71MA4	156
24.5	93	1.7	54.7	5000			C222_54.7 P71 BXN71MA4	160
25.6	89	3.4	52.4	5500	C322_52.4 SX10 MXN10MA4	163	C322_52.4 P71 BXN71MA4	164

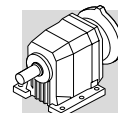
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N						
					IE2	IE3		IE2	IE3	
0.9	3476	1.2	1481	35000				C804_1481 P71 BE71B4	C804_1481 P71 BX71B4	187
1.2	2741	1.5	1168	35000				C804_1168 P71 BE71B4	C804_1168 P71 BX71B4	187
1.4	2220	1.8	945.7	35000				C804_945.7 P71 BE71B4	C804_945.7 P71 BX71B4	187
1.5	2165	1.1	922.6	25000				C704_922.6 P71 BE71B4	C704_922.6 P71 BX71B4	184
1.7	1869	0.9	796.1	16000	C614_796.1 S1 ME1SB4	C614_796.1 S1 MX1SB4	179	C614_796.1 P71 BE71B4	C614_796.1 P71 BX71B4	180
2.0	1570	1.0	668.8	16000	C614_668.8 S1 ME1SB4	C614_668.8 S1 MX1SB4	179	C614_668.8 P71 BE71B4	C614_668.8 P71 BX71B4	180
2.1	1543	1.5	657.3	25000				C704_657.3 P71 BE71B4	C704_657.3 P71 BX71B4	184
2.4	1341	1.2	571.2	16000	C614_571.2 S1 ME1SB4	C614_571.2 S1 MX1SB4	179	C614_571.2 P71 BE71B4	C614_571.2 P71 BX71B4	180
2.5	1302	1.8	554.7	25000				C704_554.7 P71 BE71B4	C704_554.7 P71 BX71B4	184
2.5	1290	0.8	549.7	10000	C514_549.7 S1 ME1SB4	C514_549.7 S1 MX1SB4	175	C514_549.7 P71 BE71B4	C514_549.7 P71 BX71B4	176
2.6	1223	1.3	521.1	16000	C614_521.1 S1 ME1SB4	C614_521.1 S1 MX1SB4	179	C614_521.1 P71 BE71B4	C614_521.1 P71 BX71B4	180



0.37 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
					IE2	IE3	IE2	IE3
3.3	989	1.6	421.5	16000	C614_421.5 S1 ME1SB4	C614_421.5 S1 MX1SB4	179	C614_421.5 P71 BE71B4
3.3	976	1.0	415.7	10000	C514_415.7 S1 ME1SB4	C514_415.7 S1 MX1SB4	175	C514_415.7 P71 BE71B4
3.3	961	2.4	409.4	25000			C704_409.4 P71 BE71B4	C704_409.4 P71 BX71B4
3.6	891	1.1	379.6	10000	C514_379.6 S1 ME1SB4	C514_379.6 S1 MX1SB4	175	C514_379.6 P71 BE71B4
3.7	869	1.8	370.1	16000	C614_370.1 S1 ME1SB4	C614_370.1 S1 MX1SB4	179	C614_370.1 P71 BE71B4
4.1	793	2.0	337.7	16000	C614_337.7 S1 ME1SB4	C614_337.7 S1 MX1SB4	179	C614_337.7 P71 BE71B4
4.1	783	0.8	333.4	7000	C414_333.4 S1 ME1SB4	C414_333.4 S1 MX1SB4	171	C414_333.4 P71 BE71B4
4.2	765	1.3	326.1	10000	C514_326.1 S1 ME1SB4	C514_326.1 S1 MX1SB4	175	C514_326.1 P71 BE71B4
4.6	699	1.4	297.8	10000	C514_297.8 S1 ME1SB4	C514_297.8 S1 MX1SB4	175	C514_297.8 P71 BE71B4
5.2	619	1.6	263.8	10000	C514_263.8 S1 ME1SB4	C514_263.8 S1 MX1SB4	175	C514_263.8 P71 BE71B4
5.2	617	1.0	263.0	7000	C414_263.0 S1 ME1SB4	C414_263.0 S1 MX1SB4	171	C414_263.0 P71 BE71B4
5.9	540	0.8	230.9	6300	C364_230.9 S1 ME1SB4	C364_230.9 S1 MX1SB4	167	C364_230.9 P71 BE71B4
6.3	520	1.9	216.7	10000	C513_216.7 S1 ME1SB4	C513_216.7 S1 MX1SB4	175	C513_216.7 P71 BE71B4
6.6	502	1.2	209.1	7000	C413_209.1 S1 ME1SB4	C413_209.1 S1 MX1SB4	171	C413_209.1 P71 BE71B4
6.6	499	0.9	206.4	6500			C363_206.4 P71 BE71B4	C363_206.4 P71 BX71B4
6.9	475	2.1	197.9	10000	C513_197.9 S1 ME1SB4	C513_197.9 S1 MX1SB4	175	C513_197.9 P71 BE71B4
7.2	458	1.3	190.8	7000	C413_190.8 S1 ME1SB4	C413_190.8 S1 MX1SB4	171	C413_190.8 P71 BE71B4
7.5	444	1.0	183.5	6500			C363_183.5 P71 BE71B4	C363_183.5 P71 BX71B4
7.6	431	1.4	179.9	7000	C413_179.9 S1 ME1SB4	C413_179.9 S1 MX1SB4	171	C413_179.9 P71 BE71B4
7.8	422	2.4	175.8	10000	C513_175.8 S1 ME1SB4	C513_175.8 S1 MX1SB4	175	C513_175.8 P71 BE71B4
8.3	394	1.5	164.1	7000	C413_164.1 S1 ME1SB4	C413_164.1 S1 MX1SB4	171	C413_164.1 P71 BE71B4
8.5	385	2.6	160.5	10000	C513_160.5 S1 ME1SB4	C513_160.5 S1 MX1SB4	175	C513_160.5 P71 BE71B4
8.5	392	1.1	162.0	6500	C363_162.0 S1 ME1SB4	C363_162.0 S1 MX1SB4	167	C363_162.0 P71 BE71B4
9.4	349	1.7	145.6	7000	C413_145.6 S1 ME1SB4	C413_145.6 S1 MX1SB4	171	C413_145.6 P71 BE71B4
9.8	338	1.3	139.8	6500	C363_139.8 S1 ME1SB4	C363_139.8 S1 MX1SB4	167	C363_139.8 P71 BE71B4
10.1	329	0.9	136.0	5500	C323_136.0 S1 ME1SB4	C323_136.0 S1 MX1SB4	163	C323_136.0 P71 BE71B4
10.3	319	1.9	132.9	7000	C413_132.9 S1 ME1SB4	C413_132.9 S1 MX1SB4	171	C413_132.9 P71 BE71B4
10.9	304	1.5	125.8	6500	C363_125.8 S1 ME1SB4	C363_125.8 S1 MX1SB4	167	C363_125.8 P71 BE71B4
11.2	296	1.0	122.4	5500	C323_122.4 S1 ME1SB4	C323_122.4 S1 MX1SB4	163	C323_122.4 P71 BE71B4
11.4	289	2.1	120.6	7000	C413_120.6 S1 ME1SB4	C413_120.6 S1 MX1SB4	171	C413_120.6 P71 BE71B4
12.3	270	1.7	111.5	6500	C363_111.5 S1 ME1SB4	C363_111.5 S1 MX1SB4	167	C363_111.5 P71 BE71B4
12.4	264	2.3	110.1	7000	C413_110.1 S1 ME1SB4	C413_110.1 S1 MX1SB4	171	C413_110.1 P71 BE71B4
12.4	267	1.1	110.6	5500	C323_110.6 S1 ME1SB4	C323_110.6 S1 MX1SB4	163	C323_110.6 P71 BE71B4
13.3	250	1.2	103.3	5500	C323_103.3 S1 ME1SB4	C323_103.3 S1 MX1SB4	163	C323_103.3 P71 BE71B4
13.4	245	2.4	102.3	7000	C413_102.3 S1 ME1SB4	C413_102.3 S1 MX1SB4	171	C413_102.3 P71 BE71B4
13.4	247	1.8	102.2	6500	C363_102.2 S1 ME1SB4	C363_102.2 S1 MX1SB4	167	C363_102.2 P71 BE71B4
14.5	228	1.3	94.2	5500	C323_94.2 S1 ME1SB4	C323_94.2 S1 MX1SB4	163	C323_94.2 P71 BE71B4
14.7	224	2.7	93.3	7000	C413_93.3 S1 ME1SB4	C413_93.3 S1 MX1SB4	171	C413_93.3 P71 BE71B4
14.9	222	2.0	91.9	6500	C363_91.9 S1 ME1SB4	C363_91.9 S1 MX1SB4	167	C363_91.9 P71 BE71B4
15.5	214	0.9	88.5	4850	C223_88.5 S1 ME1SB4	C223_88.5 S1 MX1SB4	159	C223_88.5 P71 BE71B4
16.5	201	2.2	83.1	6500	C363_83.1 S1 ME1SB4	C363_83.1 S1 MX1SB4	167	C363_83.1 P71 BE71B4
16.6	200	1.0	82.6	5000	C223_82.6 S1 ME1SB4	C223_82.6 S1 MX1SB4	159	C223_82.6 P71 BE71B4
16.6	200	1.5	82.6	5500	C323_82.6 S1 ME1SB4	C323_82.6 S1 MX1SB4	163	C323_82.6 P71 BE71B4
16.8	196	3.1	81.5	7000	C413_81.5 S1 ME1SB4	C413_81.5 S1 MX1SB4	171	C413_81.5 P71 BE71B4
17.7	188	2.4	77.6	6500	C363_77.6 S1 ME1SB4	C363_77.6 S1 MX1SB4	167	C363_77.6 P71 BE71B4
18.3	181	1.1	74.8	5000	C223_74.8 S1 ME1SB4	C223_74.8 S1 MX1SB4	159	C223_74.8 P71 BE71B4
18.3	181	1.6	74.7	5500	C323_74.7 S1 ME1SB4	C323_74.7 S1 MX1SB4	163	C323_74.7 P71 BE71B4
18.4	178	3.4	74.4	7000	C413_74.4 S1 ME1SB4	C413_74.4 S1 MX1SB4	171	C413_74.4 P71 BE71B4
19.4	171	2.6	70.8	6500	C363_70.8 S1 ME1SB4	C363_70.8 S1 MX1SB4	167	C363_70.8 P71 BE71B4
20.5	165	1.3	66.8	5500			C322_66.8 P71 BE71B4	C322_66.8 P71 BX71B4
21.0	158	1.3	65.3	5000	C223_65.3 S1 ME1SB4	C223_65.3 S1 MX1SB4	159	C223_65.3 P71 BE71B4
21.7	156	0.8	63.3	4850			C222_63.3 P71 BE71B4	C222_63.3 P71 BX71B4
22.1	150	3.0	62.0	6500	C363_62.0 S1 ME1SB4	C363_62.0 S1 MX1SB4	167	C363_62.0 P71 BE71B4
22.8	145	1.3	60.0	5000	C223_60.0 S1 ME1SB4	C223_60.0 S1 MX1SB4	159	C223_60.0 P71 BE71B4
23.1	147	1.5	59.4	5500	C322_59.4 S1 ME1SB4	C322_59.4 S1 MX1SB4	163	C322_59.4 P71 BE71B4
25.0	135	1.1	54.7	5000			C222_54.7 P71 BE71B4	C222_54.7 P71 BX71B4
26.1	130	2.3	52.4	5500	C322_52.4 S1 ME1SB4	C322_52.4 S1 MX1SB4	163	C322_52.4 P71 BE71B4

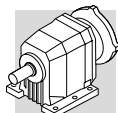


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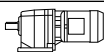
n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3		IE2	IE3	
28.2	120	1.3	48.6	4850				C222_48.6 P71 BE71B4	C222_48.6 P71 BX71B4	160
30.0	112	2.7	45.3	5500	C322_45.3 S1 ME1SB4	C322_45.3 S1 MX1SB4	163	C322_45.3 P71 BE71B4	C322_45.3 P71 BX71B4	164
32.0	107	1.8	43.3	4530	C222_43.3 S1 ME1SB4	C222_43.3 S1 MX1SB4	159	C222_43.3 P71 BE71B4	C222_43.3 P71 BX71B4	160
34.0	101	3.0	40.7	5500	C322_40.7 S1 ME1SB4	C322_40.7 S1 MX1SB4	163	C322_40.7 P71 BE71B4	C322_40.7 P71 BX71B4	164
37.0	91	1.0	37.0	2000	C122_37.0 S1 ME1SB4	C122_37.0 S1 MX1SB4	155	C122_37.0 P71 BE71B4	C122_37.0 P71 BX71B4	156
37.0	91	2.2	36.8	4360	C222_36.8 S1 ME1SB4	C222_36.8 S1 MX1SB4	159	C222_36.8 P71 BE71B4	C222_36.8 P71 BX71B4	160
38.0	89	3.4	36.1	5500	C322_36.1 S1 ME1SB4	C322_36.1 S1 MX1SB4	163	C322_36.1 P71 BE71B4	C322_36.1 P71 BX71B4	164
41.0	82	2.4	33.1	4240	C222_33.1 S1 ME1SB4	C222_33.1 S1 MX1SB4	159	C222_33.1 P71 BE71B4	C222_33.1 P71 BX71B4	160
42.0	81	1.1	32.8	2000	C122_32.8 S1 ME1SB4	C122_32.8 S1 MX1SB4	155	C122_32.8 P71 BE71B4	C122_32.8 P71 BX71B4	156
46.0	73	2.7	29.6	4130	C222_29.6 S1 ME1SB4	C222_29.6 S1 MX1SB4	159	C222_29.6 P71 BE71B4	C222_29.6 P71 BX71B4	160
46.0	73	1.2	29.5	2000	C122_29.5 S1 ME1SB4	C122_29.5 S1 MX1SB4	155	C122_29.5 P71 BE71B4	C122_29.5 P71 BX71B4	156
50.0	67	3.0	27.2	4100	C222_27.2 S1 ME1SB4	C222_27.2 S1 MX1SB4	159	C222_27.2 P71 BE71B4	C222_27.2 P71 BX71B4	160
54.0	63	1.4	25.4	2000	C122_25.4 S1 ME1SB4	C122_25.4 S1 MX1SB4	155	C122_25.4 P71 BE71B4	C122_25.4 P71 BX71B4	156
56.0	60	3.3	24.3	3920	C222_24.3 S1 ME1SB4	C222_24.3 S1 MX1SB4	159	C222_24.3 P71 BE71B4	C222_24.3 P71 BX71B4	160
59.0	57	1.5	23.2	2000	C122_23.2 S1 ME1SB4	C122_23.2 S1 MX1SB4	155	C122_23.2 P71 BE71B4	C122_23.2 P71 BX71B4	156
66.0	51	1.6	20.6	2000	C122_20.6 S1 ME1SB4	C122_20.6 S1 MX1SB4	155	C122_20.6 P71 BE71B4	C122_20.6 P71 BX71B4	156
74.0	45	1.7	18.4	2000	C122_18.4 S1 ME1SB4	C122_18.4 S1 MX1SB4	155	C122_18.4 P71 BE71B4	C122_18.4 P71 BX71B4	156
80.0	42	1.8	17.2	2000	C122_17.2 S1 ME1SB4	C122_17.2 S1 MX1SB4	155	C122_17.2 P71 BE71B4	C122_17.2 P71 BX71B4	156
88.0	39	1.0	15.6	580	C052_15.6 S1 ME1SB4	C052_15.6 S1 MX1SB4	154			
89.0	38	1.9	15.4	2000	C122_15.4 S1 ME1SB4	C122_15.4 S1 MX1SB4	155	C122_15.4 P71 BE71B4	C122_15.4 P71 BX71B4	156
102.0	33	2.1	13.4	2000	C122_13.4 S1 ME1SB4	C122_13.4 S1 MX1SB4	155	C122_13.4 P71 BE71B4	C122_13.4 P71 BX71B4	156
110.0	31	1.3	12.5	600	C052_12.5 S1 ME1SB4	C052_12.5 S1 MX1SB4	154			
115.0	29	2.3	11.9	2000	C122_11.9 S1 ME1SB4	C122_11.9 S1 MX1SB4	155	C122_11.9 P71 BE71B4	C122_11.9 P71 BX71B4	156
122.0	28	1.4	11.2	590	C052_11.2 S1 ME1SB4	C052_11.2 S1 MX1SB4	154			
136.0	25	2.5	10.1	1930	C122_10.1 S1 ME1SB4	C122_10.1 S1 MX1SB4	155	C122_10.1 P71 BE71B4	C122_10.1 P71 BX71B4	156
147.0	23	1.3	9.3	580	C052_9.3 S1 ME1SB4	C052_9.3 S1 MX1SB4	154			
155.0	22	2.7	8.8	1850	C122_8.8 S1 ME1SB4	C122_8.8 S1 MX1SB4	155	C122_8.8 P71 BE71B4	C122_8.8 P71 BX71B4	156
180.0	19	3.0	7.6	1780	C122_7.6 S1 ME1SB4	C122_7.6 S1 MX1SB4	155	C122_7.6 P71 BE71B4	C122_7.6 P71 BX71B4	156
185.0	18	1.6	7.4	570	C052_7.4 S1 ME1SB4	C052_7.4 S1 MX1SB4	154			
204.0	17	1.8	6.7	560	C052_6.7 S1 ME1SB4	C052_6.7 S1 MX1SB4	154			
220.0	15	3.4	6.2	1650	C122_6.2 S1 ME1SB4	C122_6.2 S1 MX1SB4	155	C122_6.2 P71 BE71B4	C122_6.2 P71 BX71B4	156
249.0	14	2.2	5.5	540	C052_5.5 S1 ME1SB4	C052_5.5 S1 MX1SB4	154			

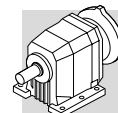
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n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE3		IE3	
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1.2	2741	1.5	1168	35000			C804_1168 P71 BXN71MB4	187
1.4	2220	1.8	945.7	35000			C804_945.7 P71 BXN71MB4	187
1.5	2165	1.1	922.6	25000			C704_922.6 P71 BXN71MB4	184
1.7	1869	0.9	796.1	16000			C614_796.1 P71 BXN71MB4	180
2.0	1570	1.0	668.8	16000			C614_668.8 P71 BXN71MB4	180
2.1	1543	1.5	657.3	25000			C704_657.3 P71 BXN71MB4	184
2.4	1341	1.2	571.2	16000			C614_571.2 P71 BXN71MB4	180
2.5	1302	1.8	554.7	25000			C704_554.7 P71 BXN71MB4	184
2.5	1290	0.8	549.7	10000	C514_549.7 SX10 MXN10MB4	175	C514_549.7 P71 BXN71MB4	176
2.6	1223	1.3	521.1	16000			C614_521.1 P71 BXN71MB4	180
3.3	989	1.6	421.5	16000			C614_421.5 P71 BXN71MB4	180
3.3	976	1.0	415.7	10000	C514_415.7 SX10 MXN10MB4	175	C514_415.7 P71 BXN71MB4	176
3.3	961	2.4	409.4	25000			C704_409.4 P71 BXN71MB4	184
3.6	891	1.1	379.6	10000	C514_379.6 SX10 MXN10MB4	175	C514_379.6 P71 BXN71MB4	176
3.7	869	1.8	370.1	16000			C614_370.1 P71 BXN71MB4	180
4.1	793	2.0	337.7	16000			C614_337.7 P71 BXN71MB4	180
4.1	783	0.8	333.4	7000	C414_333.4 SX10 MXN10MB4	171	C414_333.4 P71 BXN71MB4	172

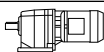


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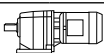
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3		 IEC IE3	
4.2	765	1.3	326.1	10000	C514_326.1 SX10 MXN10MB4	175	C514_326.1 P71 BXN71MB4	176
4.6	699	1.4	297.8	10000	C514_297.8 SX10 MXN10MB4	175	C514_297.8 P71 BXN71MB4	176
5.2	619	1.6	263.8	10000	C514_263.8 SX10 MXN10MB4	175	C514_263.8 P71 BXN71MB4	176
5.2	617	1.0	263.0	7000	C414_263.0 SX10 MXN10MB4	171	C414_263.0 P71 BXN71MB4	172
5.9	540	0.8	230.9	6300	C364_230.9 SX10 MXN10MB4	167	C364_230.9 P71 BXN71MB4	168
6.3	520	1.9	216.7	10000			C513_216.7 P71 BXN71MB4	176
6.6	502	1.2	209.1	7000			C413_209.1 P71 BXN71MB4	172
6.6	499	0.9	206.4	6500			C363_206.4 P71 BXN71MB4	168
6.9	475	2.1	197.9	10000			C513_197.9 P71 BXN71MB4	176
7.2	458	1.3	190.8	7000			C413_190.8 P71 BXN71MB4	172
7.5	444	1.0	183.5	6500			C363_183.5 P71 BXN71MB4	168
7.6	431	1.4	179.9	7000			C413_179.9 P71 BXN71MB4	172
7.8	422	2.4	175.8	10000			C513_175.8 P71 BXN71MB4	176
8.3	394	1.5	164.1	7000			C413_164.1 P71 BXN71MB4	172
8.5	385	2.6	160.5	10000			C513_160.5 P71 BXN71MB4	176
8.5	392	1.1	162.0	6500	C363_162.0 SX10 MXN10MB4	167	C363_162.0 P71 BXN71MB4	168
9.4	349	1.7	145.6	7000			C413_145.6 P71 BXN71MB4	172
9.8	338	1.3	139.8	6500	C363_139.8 SX10 MXN10MB4	167	C363_139.8 P71 BXN71MB4	168
10.1	329	0.9	136.0	5500	C323_136.0 SX10 MXN10MB4	163	C323_136.0 P71 BXN71MB4	164
10.3	319	1.9	132.9	7000			C413_132.9 P71 BXN71MB4	172
10.9	304	1.5	125.8	6500	C363_125.8 SX10 MXN10MB4	167	C363_125.8 P71 BXN71MB4	168
11.2	296	1.0	122.4	5500	C323_122.4 SX10 MXN10MB4	163	C323_122.4 P71 BXN71MB4	164
11.4	289	2.1	120.6	7000			C413_120.6 P71 BXN71MB4	172
12.3	270	1.7	111.5	6500	C363_111.5 SX10 MXN10MB4	167	C363_111.5 P71 BXN71MB4	168
12.4	264	2.3	110.1	7000			C413_110.1 P71 BXN71MB4	172
12.4	267	1.1	110.6	5500	C323_110.6 SX10 MXN10MB4	163	C323_110.6 P71 BXN71MB4	164
13.3	250	1.2	103.3	5500	C323_103.3 SX10 MXN10MB4	163	C323_103.3 P71 BXN71MB4	164
13.4	245	2.4	102.3	7000			C413_102.3 P71 BXN71MB4	172
13.4	247	1.8	102.2	6500	C363_102.2 SX10 MXN10MB4	167	C363_102.2 P71 BXN71MB4	168
14.5	228	1.3	94.2	5500	C323_94.2 SX10 MXN10MB4	163	C323_94.2 P71 BXN71MB4	164
14.7	224	2.7	93.3	7000			C413_93.3 P71 BXN71MB4	172
14.9	222	2.0	91.9	6500	C363_91.9 SX10 MXN10MB4	167	C363_91.9 P71 BXN71MB4	168
15.5	214	0.9	88.5	4850	C223_88.5 SX10 MXN10MB4	159	C223_88.5 P71 BXN71MB4	160
16.5	201	2.2	83.1	6500	C363_83.1 SX10 MXN10MB4	167	C363_83.1 P71 BXN71MB4	168
16.6	200	1.0	82.6	5000	C223_82.6 SX10 MXN10MB4	159	C223_82.6 P71 BXN71MB4	160
16.6	200	1.5	82.6	5500	C323_82.6 SX10 MXN10MB4	163	C323_82.6 P71 BXN71MB4	164
16.8	196	3.1	81.5	7000			C413_81.5 P71 BXN71MB4	172
17.7	188	2.4	77.6	6500	C363_77.6 SX10 MXN10MB4	167	C363_77.6 P71 BXN71MB4	168
18.3	181	1.1	74.8	5000	C223_74.8 SX10 MXN10MB4	159	C223_74.8 P71 BXN71MB4	160
18.3	181	1.6	74.7	5500	C323_74.7 SX10 MXN10MB4	163	C323_74.7 P71 BXN71MB4	164
18.4	178	3.4	74.4	7000			C413_74.4 P71 BXN71MB4	172
19.4	171	2.6	70.8	6500	C363_70.8 SX10 MXN10MB4	167	C363_70.8 P71 BXN71MB4	168
20.5	165	1.3	66.8	5500			C322_66.8 P71 BXN71MB4	164
21.0	158	1.3	65.3	5000	C223_65.3 SX10 MXN10MB4	159	C223_65.3 P71 BXN71MB4	160
21.7	156	0.8	63.3	4850			C222_63.3 P71 BXN71MB4	160
22.1	150	3.0	62.0	6500	C363_62.0 SX10 MXN10MB4	167	C363_62.0 P71 BXN71MB4	168
22.8	145	1.3	60.0	5000	C223_60.0 SX10 MXN10MB4	159	C223_60.0 P71 BXN71MB4	160
23.1	147	1.5	59.4	5500	C322_59.4 SX10 MXN10MB4	163	C322_59.4 P71 BXN71MB4	164
25.0	135	1.1	54.7	5000			C222_54.7 P71 BXN71MB4	160
26.1	130	2.3	52.4	5500	C322_52.4 SX10 MXN10MB4	163	C322_52.4 P71 BXN71MB4	164
28.2	120	1.3	48.6	4850			C222_48.6 P71 BXN71MB4	160
30.0	112	2.7	45.3	5500	C322_45.3 SX10 MXN10MB4	163	C322_45.3 P71 BXN71MB4	164
32.0	107	1.8	43.3	4530	C222_43.3 SX10 MXN10MB4	159	C222_43.3 P71 BXN71MB4	160
34.0	101	3.0	40.7	5500	C322_40.7 SX10 MXN10MB4	163	C322_40.7 P71 BXN71MB4	164
37.0	91	1.0	37.0	2000	C122_37.0 SX10 MXN10MB4	155	C122_37.0 P71 BXN71MB4	156
37.0	91	2.2	36.8	4360	C222_36.8 SX10 MXN10MB4	159	C222_36.8 P71 BXN71MB4	160
38.0	89	3.4	36.1	5500	C322_36.1 SX10 MXN10MB4	163	C322_36.1 P71 BXN71MB4	164

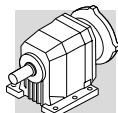


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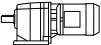
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IE3	 IE3	
41.0	82	2.4	33.1	4240	C222_33.1 SX10 MXN10MB4	159	C222_33.1 P71 BXN71MB4	160
42.0	81	1.1	32.8	2000	C122_32.8 SX10 MXN10MB4	155	C122_32.8 P71 BXN71MB4	156
46.0	73	2.7	29.6	4130	C222_29.6 SX10 MXN10MB4	159	C222_29.6 P71 BXN71MB4	160
46.0	73	1.2	29.5	2000	C122_29.5 SX10 MXN10MB4	155	C122_29.5 P71 BXN71MB4	156
50.0	67	3.0	27.2	4100	C222_27.2 SX10 MXN10MB4	159	C222_27.2 P71 BXN71MB4	160
54.0	63	1.4	25.4	2000	C122_25.4 SX10 MXN10MB4	155	C122_25.4 P71 BXN71MB4	156
56.0	60	3.3	24.3	3920	C222_24.3 SX10 MXN10MB4	159	C222_24.3 P71 BXN71MB4	160
59.0	57	1.5	23.2	2000	C122_23.2 SX10 MXN10MB4	155	C122_23.2 P71 BXN71MB4	156
66.0	51	1.6	20.6	2000	C122_20.6 SX10 MXN10MB4	155	C122_20.6 P71 BXN71MB4	156
74.0	45	1.7	18.4	2000	C122_18.4 SX10 MXN10MB4	155	C122_18.4 P71 BXN71MB4	156
80.0	42	1.8	17.2	2000	C122_17.2 SX10 MXN10MB4	155	C122_17.2 P71 BXN71MB4	156
89.0	38	1.9	15.4	2000	C122_15.4 SX10 MXN10MB4	155	C122_15.4 P71 BXN71MB4	156
102.0	33	2.1	13.4	2000	C122_13.4 SX10 MXN10MB4	155	C122_13.4 P71 BXN71MB4	156
115.0	29	2.3	11.9	2000	C122_11.9 SX10 MXN10MB4	155	C122_11.9 P71 BXN71MB4	156
136.0	25	2.5	10.1	1930	C122_10.1 SX10 MXN10MB4	155	C122_10.1 P71 BXN71MB4	156
155.0	22	2.7	8.8	1850	C122_8.8 SX10 MXN10MB4	155	C122_8.8 P71 BXN71MB4	156
180.0	19	3.0	7.6	1780	C122_7.6 SX10 MXN10MB4	155	C122_7.6 P71 BXN71MB4	156
220.0	15	3.4	6.2	1650	C122_6.2 SX10 MXN10MB4	155	C122_6.2 P71 BXN71MB4	156

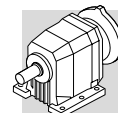
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE2	 IE3	 IE2	 IE3	
1.1	4381	0.9	1274	35000	C804_1274 S2 ME2SA4	C804_1274 S2 MX2SA4	186	C804_1274 P80 BE80A4	187
1.1	4295	1.7	1240	60000	C904_1240 S2 ME2SA4	C904_1240 S2 MX2SA4	189	C904_1240 P80 BE80A4	190
1.3	3549	1.1	1032	35000	C804_1032 S2 ME2SA4	C804_1032 S2 MX2SA4	186	C804_1032 P80 BE80A4	187
1.4	3484	2.1	1006	60000	C904_1006 S2 ME2SA4	C904_1006 S2 MX2SA4	189	C904_1006 P80 BE80A4	190
1.6	2939	1.4	854.6	35000	C804_854.6 S2 ME2SA4	C804_854.6 S2 MX2SA4	186	C804_854.6 P80 BE80A4	187
1.6	2923	2.5	844.0	65000	C904_844.0 S2 ME2SA4	C904_844.0 S2 MX2SA4	189	C904_844.0 P80 BE80A4	190
1.9	2531	0.9	736.0	25000	C704_736.0 S2 ME2SA4	C704_736.0 S2 MX2SA4	183	C704_736.0 P80 BE80A4	184
1.9	2492	1.6	724.7	35000	C804_724.7 S2 ME2SA4	C804_724.7 S2 MX2SA4	186	C804_724.7 P80 BE80A4	187
2.1	2284	1.8	664.3	35000	C804_664.3 S2 ME2SA4	C804_664.3 S2 MX2SA4	186	C804_664.3 P80 BE80A4	187
2.1	2260	1.0	657.3	25000	C704_657.3 S2 ME2SA4	C704_657.3 S2 MX2SA4	183	C704_657.3 P80 BE80A4	184
2.4	1978	0.8	571.2	16000	C614_571.2 S2 ME2SA4	C614_571.2 S2 MX2SA4	179	C614_571.2 P80 BE80A4	180
2.5	1907	1.2	554.7	25000	C704_554.7 S2 ME2SA4	C704_554.7 S2 MX2SA4	183	C704_554.7 P80 BE80A4	184
2.6	1820	2.2	529.3	35000	C804_529.3 S2 ME2SA4	C804_529.3 S2 MX2SA4	186	C804_529.3 P80 BE80A4	187
3.0	1600	1.0	462.0	16000	C614_462.0 S2 ME2SA4	C614_462.0 S2 MX2SA4	179	C614_462.0 P80 BE80A4	180
3.1	1566	2.6	455.4	35000	C804_455.4 S2 ME2SA4	C804_455.4 S2 MX2SA4	186	C804_455.4 P80 BE80A4	187
3.1	1525	1.5	443.5	25000	C704_443.5 S2 ME2SA4	C704_443.5 S2 MX2SA4	183	C704_443.5 P80 BE80A4	184
3.3	1460	1.1	421.5	16000	C614_421.5 S2 ME2SA4	C614_421.5 S2 MX2SA4	179	C614_421.5 P80 BE80A4	180
3.6	1315	0.8	379.6	10000	C514_379.6 S2 ME2SA4	C514_379.6 S2 MX2SA4	175	C514_379.6 P80 BE80A4	176
3.7	1282	1.2	370.1	16000	C614_370.1 S2 ME2SA4	C614_370.1 S2 MX2SA4	179	C614_370.1 P80 BE80A4	180
3.8	1254	3.2	364.7	35000	C804_364.7 S2 ME2SA4	C804_364.7 S2 MX2SA4	186	C804_364.7 P80 BE80A4	187
4.0	1184	1.9	344.3	25000	C704_344.3 S2 ME2SA4	C704_344.3 S2 MX2SA4	183	C704_344.3 P80 BE80A4	184
4.1	1170	1.4	337.7	16000	C614_337.7 S2 ME2SA4	C614_337.7 S2 MX2SA4	179	C614_337.7 P80 BE80A4	180
4.2	1130	0.9	326.1	10000	C514_326.1 S2 ME2SA4	C514_326.1 S2 MX2SA4	175	C514_326.1 P80 BE80A4	176
4.6	1031	1.0	297.8	10000	C514_297.8 S2 ME2SA4	C514_297.8 S2 MX2SA4	175	C514_297.8 P80 BE80A4	176
5.0	953	1.7	275.3	16000	C614_275.3 S2 ME2SA4	C614_275.3 S2 MX2SA4	179	C614_275.3 P80 BE80A4	180
5.1	936	2.5	272.2	25000	C704_272.2 S2 ME2SA4	C704_272.2 S2 MX2SA4	183	C704_272.2 P80 BE80A4	184
5.2	914	1.1	263.8	10000	C514_263.8 S2 ME2SA4	C514_263.8 S2 MX2SA4	175	C514_263.8 P80 BE80A4	176
5.7	834	1.2	240.9	10000	C514_240.9 S2 ME2SA4	C514_240.9 S2 MX2SA4	175	C514_240.9 P80 BE80A4	176
5.8	847	2.7	239.3	25000	C703_239.3 S2 ME2SA4	C703_239.3 S2 MX2SA4	175	C703_239.3 P80 BE80A4	184
5.8	825	1.9	238.3	16000	C614_238.3 S2 ME2SA4	C614_238.3 S2 MX2SA4	179	C614_238.3 P80 BE80A4	180
6.2	782	2.9	220.9	25000				C703_220.9 P80 BE80A4	184

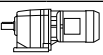


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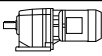
n ₂ min-1	M ₂ Nm	S	i	R _{n2} N						
					IE2	IE3		IE2	IE3	
6.3	753	2.1	217.4	16000	C614_217.4 S2 ME2SA4	C614_217.4 S2 MX2SA4	179	C614_217.4 P80 BE80A4	C614_217.4 P80 BX80A4	180
6.4	767	1.3	216.7	10000	C513_216.7 S2 ME2SA4	C513_216.7 S2 MX2SA4	175	C513_216.7 P80 BE80A4	C513_216.7 P80 BX80A4	176
7.0	700	1.4	197.9	10000	C513_197.9 S2 ME2SA4	C513_197.9 S2 MX2SA4	175	C513_197.9 P80 BE80A4	C513_197.9 P80 BX80A4	176
7.0	693	2.3	195.8	16000				C613_195.8 P80 BE80A4	C613_195.8 P80 BX80A4	180
7.1	687	3.3	194.1	25000				C703_194.1 P80 BE80A4	C703_194.1 P80 BX80A4	184
7.7	637	0.9	179.9	7000	C413_179.9 S2 ME2SA4	C413_179.9 S2 MX2SA4	171	C413_179.9 P80 BE80A4	C413_179.9 P80 BX80A4	172
7.7	632	2.5	178.6	16000				C613_178.6 P80 BE80A4	C613_178.6 P80 BX80A4	180
7.9	622	1.6	175.8	10000	C513_175.8 S2 ME2SA4	C513_175.8 S2 MX2SA4	175	C513_175.8 P80 BE80A4	C513_175.8 P80 BX80A4	176
8.4	582	2.7	164.5	16000				C613_164.5 P80 BE80A4	C613_164.5 P80 BX80A4	180
8.4	581	1.0	164.1	7000	C413_164.1 S2 ME2SA4	C413_164.1 S2 MX2SA4	171	C413_164.1 P80 BE80A4	C413_164.1 P80 BX80A4	172
8.6	568	1.8	160.5	10000	C513_160.5 S2 ME2SA4	C513_160.5 S2 MX2SA4	175	C513_160.5 P80 BE80A4	C513_160.5 P80 BX80A4	176
9.2	531	3.0	150.0	16000				C613_150.0 P80 BE80A4	C613_150.0 P80 BX80A4	180
9.4	522	1.9	147.4	10000	C513_147.4 S2 ME2SA4	C513_147.4 S2 MX2SA4	175	C513_147.4 P80 BE80A4	C513_147.4 P80 BX80A4	176
9.5	516	1.2	145.6	7000	C413_145.6 S2 ME2SA4	C413_145.6 S2 MX2SA4	171	C413_145.6 P80 BE80A4	C413_145.6 P80 BX80A4	172
9.8	497	3.2	140.5	16000				C613_140.5 P80 BE80A4	C613_140.5 P80 BX80A4	180
9.9	494	0.9	139.8	6500	C363_139.8 S2 ME2SA4	C363_139.8 S2 MX2SA4	167	C363_139.8 P80 BE80A4	C363_139.8 P80 BX80A4	168
10.3	477	2.1	134.6	10000	C513_134.6 S2 ME2SA4	C513_134.6 S2 MX2SA4	175	C513_134.6 P80 BE80A4	C513_134.6 P80 BX80A4	176
10.4	470	1.3	132.9	7000	C413_132.9 S2 ME2SA4	C413_132.9 S2 MX2SA4	171	C413_132.9 P80 BE80A4	C413_132.9 P80 BX80A4	172
11.0	445	1.0	125.8	6500	C363_125.8 S2 ME2SA4	C363_125.8 S2 MX2SA4	167	C363_125.8 P80 BE80A4	C363_125.8 P80 BX80A4	168
11.1	440	2.3	124.4	10000	C513_124.4 S2 ME2SA4	C513_124.4 S2 MX2SA4	175	C513_124.4 P80 BE80A4	C513_124.4 P80 BX80A4	176
11.4	427	1.4	120.6	7000	C413_120.6 S2 ME2SA4	C413_120.6 S2 MX2SA4	171	C413_120.6 P80 BE80A4	C413_120.6 P80 BX80A4	172
12.1	402	2.5	113.6	10000	C513_113.6 S2 ME2SA4	C513_113.6 S2 MX2SA4	175	C513_113.6 P80 BE80A4	C513_113.6 P80 BX80A4	176
12.4	394	1.1	111.5	6500	C363_111.5 S2 ME2SA4	C363_111.5 S2 MX2SA4	167	C363_111.5 P80 BE80A4	C363_111.5 P80 BX80A4	168
12.5	390	1.5	110.1	7000	C413_110.1 S2 ME2SA4	C413_110.1 S2 MX2SA4	171	C413_110.1 P80 BE80A4	C413_110.1 P80 BX80A4	172
13.5	362	1.7	102.3	7000	C413_102.3 S2 ME2SA4	C413_102.3 S2 MX2SA4	171	C413_102.3 P80 BE80A4	C413_102.3 P80 BX80A4	172
13.5	361	1.2	102.2	6500	C363_102.2 S2 ME2SA4	C363_102.2 S2 MX2SA4	167	C363_102.2 P80 BE80A4	C363_102.2 P80 BX80A4	168
13.6	360	2.8	101.8	10000	C513_101.8 S2 ME2SA4	C513_101.8 S2 MX2SA4	175	C513_101.8 P80 BE80A4	C513_101.8 P80 BX80A4	176
14.7	333	0.9	94.2	5500	C323_94.2 S2 ME2SA4	C323_94.2 S2 MX2SA4	163	C323_94.2 P80 BE80A4	C323_94.2 P80 BX80A4	164
14.8	330	1.8	93.3	7000	C413_93.3 S2 ME2SA4	C413_93.3 S2 MX2SA4	171	C413_93.3 P80 BE80A4	C413_93.3 P80 BX80A4	172
14.8	329	3.0	93.0	10000	C513_93.0 S2 ME2SA4	C513_93.0 S2 MX2SA4	175	C513_93.0 P80 BE80A4	C513_93.0 P80 BX80A4	176
15.0	325	1.4	91.9	6500	C363_91.9 S2 ME2SA4	C363_91.9 S2 MX2SA4	167	C363_91.9 P80 BE80A4	C363_91.9 P80 BX80A4	168
16.6	294	1.5	83.1	6500	C363_83.1 S2 ME2SA4	C363_83.1 S2 MX2SA4	167	C363_83.1 P80 BE80A4	C363_83.1 P80 BX80A4	168
16.7	292	1.0	82.6	5500	C323_82.6 S2 ME2SA4	C323_82.6 S2 MX2SA4	163	C323_82.6 P80 BE80A4	C323_82.6 P80 BX80A4	164
16.9	289	2.1	81.5	7000	C413_81.5 S2 ME2SA4	C413_81.5 S2 MX2SA4	171	C413_81.5 P80 BE80A4	C413_81.5 P80 BX80A4	172
17.8	274	1.6	77.6	6500	C363_77.6 S2 ME2SA4	C363_77.6 S2 MX2SA4	167	C363_77.6 P80 BE80A4	C363_77.6 P80 BX80A4	168
18.5	264	1.1	74.7	5500	C323_74.7 S2 ME2SA4	C323_74.7 S2 MX2SA4	163	C323_74.7 P80 BE80A4	C323_74.7 P80 BX80A4	164
18.6	263	2.3	74.4	7000	C413_74.4 S2 ME2SA4	C413_74.4 S2 MX2SA4	171	C413_74.4 P80 BE80A4	C413_74.4 P80 BX80A4	172
19.5	250	1.8	70.8	6500	C363_70.8 S2 ME2SA4	C363_70.8 S2 MX2SA4	167	C363_70.8 P80 BE80A4	C363_70.8 P80 BX80A4	168
20.7	241	0.9	66.8	5500				C322_66.8 P80 BE80A4	C322_66.8 P80 BX80A4	164
21.5	228	2.6	64.3	7000	C413_64.3 S2 ME2SA4	C413_64.3 S2 MX2SA4	171	C413_64.3 P80 BE80A4	C413_64.3 P80 BX80A4	172
22.2	219	2.1	62.0	6500	C363_62.0 S2 ME2SA4	C363_62.0 S2 MX2SA4	167	C363_62.0 P80 BE80A4	C363_62.0 P80 BX80A4	168
23.0	212	0.9	60.0	4280	C223_60.0 S2 ME2SA4	C223_60.0 S2 MX2SA4	159	C223_60.0 P80 BE80A4	C223_60.0 P80 BX80A4	160
23.2	214	1.0	59.4	5500	C322_59.4 S2 ME2SA4	C322_59.4 S2 MX2SA4	163	C322_59.4 P80 BE80A4	C322_59.4 P80 BX80A4	164
23.5	208	2.9	58.7	7000	C413_58.7 S2 ME2SA4	C413_58.7 S2 MX2SA4	171	C413_58.7 P80 BE80A4	C413_58.7 P80 BX80A4	172
24.6	198	2.3	56.2	6500	C363_56.2 S2 ME2SA4	C363_56.2 S2 MX2SA4	167	C363_56.2 P80 BE80A4	C363_56.2 P80 BX80A4	168
26.3	189	1.6	52.4	5500	C322_52.4 S2 ME2SA4	C322_52.4 S2 MX2SA4	163	C322_52.4 P80 BE80A4	C322_52.4 P80 BX80A4	164
26.8	182	3.3	51.5	7000	C413_51.5 S2 ME2SA4	C413_51.5 S2 MX2SA4	171	C413_51.5 P80 BE80A4	C413_51.5 P80 BX80A4	172
28.7	170	2.6	48.2	6500	C363_48.2 S2 ME2SA4	C363_48.2 S2 MX2SA4	167	C363_48.2 P80 BE80A4	C363_48.2 P80 BX80A4	168
30.0	163	1.8	45.3	5500	C322_45.3 S2 ME2SA4	C322_45.3 S2 MX2SA4	163	C322_45.3 P80 BE80A4	C322_45.3 P80 BX80A4	164
31.0	162	3.1	44.8	7000	C412_44.8 S2 ME2SA4	C412_44.8 S2 MX2SA4	171	C412_44.8 P80 BE80A4	C412_44.8 P80 BX80A4	172
32.0	154	2.9	43.5	6500	C363_43.5 S2 ME2SA4	C363_43.5 S2 MX2SA4	167	C363_43.5 P80 BE80A4	C363_43.5 P80 BX80A4	168
32.0	156	1.2	43.3	4190	C222_43.3 S2 ME2SA4	C222_43.3 S2 MX2SA4	159	C222_43.3 P80 BE80A4	C222_43.3 P80 BX80A4	160
34.0	147	2.0	40.7	5500	C322_40.7 S2 ME2SA4	C322_40.7 S2 MX2SA4	163	C322_40.7 P80 BE80A4	C322_40.7 P80 BX80A4	164
36.0	135	3.3	38.1	6500	C363_38.1 S2 ME2SA4	C363_38.1 S2 MX2SA4	167	C363_38.1 P80 BE80A4	C363_38.1 P80 BX80A4	168
38.0	133	1.5	36.8	4070	C222_36.8 S2 ME2SA4	C222_36.8 S2 MX2SA4	159	C222_36.8 P80 BE80A4	C222_36.8 P80 BX80A4	160
38.0	130	2.3	36.1	5500	C322_36.1 S2 ME2SA4	C322_36.1 S2 MX2SA4	163	C322_36.1 P80 BE80A4	C322_36.1 P80 BX80A4	164
42.0	119	1.7	33.1	3970	C222_33.1 S2 ME2SA4	C222_33.1 S2 MX2SA4	159	C222_33.1 P80 BE80A4	C222_33.1 P80 BX80A4	160

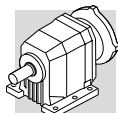


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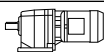
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N						
					IE2	IE3		IE2	IE3	
42.0	119	2.5	33.1	5500	C322_33.1 S2 ME2SA4	C322_33.1 S2 MX2SA4	163	C322_33.1 P80 BE80A4	C322_33.1 P80 BX80A4	164
46.0	107	2.8	29.8	5500	C322_29.8 S2 ME2SA4	C322_29.8 S2 MX2SA4	163	C322_29.8 P80 BE80A4	C322_29.8 P80 BX80A4	164
47.0	107	1.9	29.6	3890	C222_29.6 S2 ME2SA4	C222_29.6 S2 MX2SA4	159	C222_29.6 P80 BE80A4	C222_29.6 P80 BX80A4	160
47.0	106	0.8	29.5	1820	C122_29.5 S2 ME2SA4	C122_29.5 S2 MX2SA4	155	C122_29.5 P80 BE80A4	C122_29.5 P80 BX80A4	156
51.0	98	2.0	27.2	3860	C222_27.2 S2 ME2SA4	C222_27.2 S2 MX2SA4	159	C222_27.2 P80 BE80A4	C222_27.2 P80 BX80A4	160
51.0	97	3.1	26.9	5500	C322_26.9 S2 ME2SA4	C322_26.9 S2 MX2SA4	163	C322_26.9 P80 BE80A4	C322_26.9 P80 BX80A4	164
54.0	92	1.0	25.4	2000	C122_25.4 S2 ME2SA4	C122_25.4 S2 MX2SA4	155	C122_25.4 P80 BE80A4	C122_25.4 P80 BX80A4	156
55.0	91	3.3	25.1	5500	C322_25.1 S2 ME2SA4	C322_25.1 S2 MX2SA4	163	C322_25.1 P80 BE80A4	C322_25.1 P80 BX80A4	164
57.0	88	2.3	24.3	3720	C222_24.3 S2 ME2SA4	C222_24.3 S2 MX2SA4	159	C222_24.3 P80 BE80A4	C222_24.3 P80 BX80A4	160
59.0	84	1.0	23.2	2000	C122_23.2 S2 ME2SA4	C122_23.2 S2 MX2SA4	155	C122_23.2 P80 BE80A4	C122_23.2 P80 BX80A4	156
64.0	77	2.5	21.5	3700	C222_21.5 S2 ME2SA4	C222_21.5 S2 MX2SA4	159	C222_21.5 P80 BE80A4	C222_21.5 P80 BX80A4	160
67.0	74	1.1	20.6	2000	C122_20.6 S2 ME2SA4	C122_20.6 S2 MX2SA4	155	C122_20.6 P80 BE80A4	C122_20.6 P80 BX80A4	156
69.0	72	2.6	20.0	3560	C222_20.0 S2 ME2SA4	C222_20.0 S2 MX2SA4	159	C222_20.0 P80 BE80A4	C222_20.0 P80 BX80A4	160
75.0	66	1.2	18.4	2000	C122_18.4 S2 ME2SA4	C122_18.4 S2 MX2SA4	155	C122_18.4 P80 BE80A4	C122_18.4 P80 BX80A4	156
76.0	65	2.8	18.1	3500	C222_18.1 S2 ME2SA4	C222_18.1 S2 MX2SA4	159	C222_18.1 P80 BE80A4	C222_18.1 P80 BX80A4	160
80.0	62	1.2	17.2	2000	C122_17.2 S2 ME2SA4	C122_17.2 S2 MX2SA4	155	C122_17.2 P80 BE80A4	C122_17.2 P80 BX80A4	156
87.0	57	3.1	15.8	3350	C222_15.8 S2 ME2SA4	C222_15.8 S2 MX2SA4	159	C222_15.8 P80 BE80A4	C222_15.8 P80 BX80A4	160
89.0	56	1.3	15.4	2000	C122_15.4 S2 ME2SA4	C122_15.4 S2 MX2SA4	155	C122_15.4 P80 BE80A4	C122_15.4 P80 BX80A4	156
95.0	53	3.2	14.5	3300	C222_14.5 S2 ME2SA4	C222_14.5 S2 MX2SA4	159	C222_14.5 P80 BE80A4	C222_14.5 P80 BX80A4	160
103.0	48	1.4	13.4	1990	C122_13.4 S2 ME2SA4	C122_13.4 S2 MX2SA4	155	C122_13.4 P80 BE80A4	C122_13.4 P80 BX80A4	156
116.0	43	1.6	11.9	1920	C122_11.9 S2 ME2SA4	C122_11.9 S2 MX2SA4	155	C122_11.9 P80 BE80A4	C122_11.9 P80 BX80A4	156
123.0	40	1.0	11.2	480	C052_11.2 S2 ME2SA4	C052_11.2 S2 MX2SA4	154			
137.0	36	1.7	10.1	1850	C122_10.1 S2 ME2SA4	C122_10.1 S2 MX2SA4	155	C122_10.1 P80 BE80A4	C122_10.1 P80 BX80A4	156
156.0	32	1.9	8.8	1780	C122_8.8 S2 ME2SA4	C122_8.8 S2 MX2SA4	155	C122_8.8 P80 BE80A4	C122_8.8 P80 BX80A4	156
181.0	28	2.0	7.6	1720	C122_7.6 S2 ME2SA4	C122_7.6 S2 MX2SA4	155	C122_7.6 P80 BE80A4	C122_7.6 P80 BX80A4	156
186.0	27	1.1	7.4	460	C052_7.4 S2 ME2SA4	C052_7.4 S2 ME2SA4	154			
206.0	24	1.2	6.7	450	C052_6.7 S2 ME2SA4	C052_6.7 S2 ME2SA4	154			
221.0	22	2.4	6.2	1590	C122_6.2 S2 ME2SA4	C122_6.2 S2 ME2SA4	155	C122_6.2 P80 BE80A4	C122_6.2 P80 BE80A4	156
246.0	20	2.5	5.6	1540	C122_5.6 S2 ME2SA4	C122_5.6 S2 ME2SA4	155	C122_5.6 P80 BE80A4	C122_5.6 P80 BE80A4	156
251.0	20	1.5	5.5	430	C052_5.5 S2 ME2SA4	C052_5.5 S2 ME2SA4	154			
283.0	18	2.7	4.9	1490	C122_4.9 S2 ME2SA4	C122_4.9 S2 ME2SA4	155	C122_4.9 P80 BE80A4	C122_4.9 P80 BE80A4	156
320.0	16	2.9	4.3	1420	C122_4.3 S2 ME2SA4	C122_4.3 S2 ME2SA4	155	C122_4.3 P80 BE80A4	C122_4.3 P80 BE80A4	156
378.0	13	3.2	3.7	1370	C122_3.7 S2 ME2SA4	C122_3.7 S2 ME2SA4	155	C122_3.7 P80 BE80A4	C122_3.7 P80 BE80A4	156

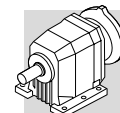
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N						
					IE3			IE3		
1.1	4381	0.9	1274	35000				C804_1274 P80 BXN80MA4		187
1.1	4295	1.7	1240	60000				C904_1240 P80 BXN80MA4		190
1.3	3549	1.1	1032	35000				C804_1032 P80 BXN80MA4		187
1.4	3484	2.1	1006	60000				C904_1006 P80 BXN80MA4		190
1.6	2939	1.4	854.6	35000				C804_854.6 P80 BXN80MA4		187
1.6	2923	2.5	844.0	65000				C904_844.0 P80 BXN80MA4		190
1.9	2531	0.9	736.0	25000				C704_736.0 P80 BXN80MA4		184
1.9	2492	1.6	724.7	35000				C804_724.7 P80 BXN80MA4		187
2.1	2284	1.8	664.3	35000				C804_664.3 P80 BXN80MA4		187
2.1	2260	1.0	657.3	25000				C704_657.3 P80 BXN80MA4		184
2.4	1978	0.8	571.2	16000				C614_571.2 P80 BXN80MA4		180
2.5	1907	1.2	554.7	25000				C704_554.7 P80 BXN80MA4		184
2.6	1820	2.2	529.3	35000				C804_529.3 P80 BXN80MA4		187
3.0	1600	1.0	462.0	16000				C614_462.0 P80 BXN80MA4		180
3.1	1566	2.6	455.4	35000				C804_455.4 P80 BXN80MA4		187

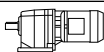


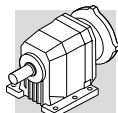
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IE3	 IE3	
3.1	1525	1.5	443.5	25000			C704_443.5 P80 BXN80MA4	184
3.3	1460	1.1	421.5	16000			C614_421.5 P80 BXN80MA4	180
3.6	1315	0.8	379.6	10000			C514_379.6 P80 BXN80MA4	176
3.7	1282	1.2	370.1	16000			C614_370.1 P80 BXN80MA4	180
3.8	1254	3.2	364.7	35000			C804_364.7 P80 BXN80MA4	187
4.0	1184	1.9	344.3	25000			C704_344.3 P80 BXN80MA4	184
4.1	1170	1.4	337.7	16000			C614_337.7 P80 BXN80MA4	180
4.2	1130	0.9	326.1	10000			C514_326.1 P80 BXN80MA4	176
4.6	1031	1.0	297.8	10000			C514_297.8 P80 BXN80MA4	176
5.0	953	1.7	275.3	16000			C614_275.3 P80 BXN80MA4	180
5.1	936	2.5	272.2	25000			C704_272.2 P80 BXN80MA4	184
5.2	914	1.1	263.8	10000			C514_263.8 P80 BXN80MA4	176
5.7	834	1.2	240.9	10000			C514_240.9 P80 BXN80MA4	176
5.8	847	2.7	239.3	25000			C703_239.3 P80 BXN80MA4	184
5.8	825	1.9	238.3	16000			C614_238.3 P80 BXN80MA4	180
6.2	782	2.9	220.9	25000			C703_220.9 P80 BXN80MA4	184
6.3	753	2.1	217.4	16000			C614_217.4 P80 BXN80MA4	180
6.4	767	1.3	216.7	10000			C513_216.7 P80 BXN80MA4	176
7.0	700	1.4	197.9	10000			C513_197.9 P80 BXN80MA4	176
7.0	693	2.3	195.8	16000			C613_195.8 P80 BXN80MA4	180
7.1	687	3.3	194.1	25000			C703_194.1 P80 BXN80MA4	184
7.7	637	0.9	179.9	7000			C413_179.9 P80 BXN80MA4	172
7.7	632	2.5	178.6	16000			C613_178.6 P80 BXN80MA4	180
7.9	622	1.6	175.8	10000			C513_175.8 P80 BXN80MA4	176
8.4	582	2.7	164.5	16000			C613_164.5 P80 BXN80MA4	180
8.4	581	1.0	164.1	7000			C413_164.1 P80 BXN80MA4	172
8.6	568	1.8	160.5	10000			C513_160.5 P80 BXN80MA4	176
9.2	531	3.0	150.0	16000			C613_150.0 P80 BXN80MA4	180
9.4	522	1.9	147.4	10000			C513_147.4 P80 BXN80MA4	176
9.5	516	1.2	145.6	7000			C413_145.6 P80 BXN80MA4	172
9.8	497	3.2	140.5	16000			C613_140.5 P80 BXN80MA4	180
9.9	494	0.9	139.8	6500			C363_139.8 P80 BXN80MA4	168
10.3	477	2.1	134.6	10000			C513_134.6 P80 BXN80MA4	176
10.4	470	1.3	132.9	7000			C413_132.9 P80 BXN80MA4	172
11.0	445	1.0	125.8	6500			C363_125.8 P80 BXN80MA4	168
11.1	440	2.3	124.4	10000			C513_124.4 P80 BXN80MA4	176
11.4	427	1.4	120.6	7000			C413_120.6 P80 BXN80MA4	172
12.1	402	2.5	113.6	10000			C513_113.6 P80 BXN80MA4	176
12.4	394	1.1	111.5	6500			C363_111.5 P80 BXN80MA4	168
12.5	390	1.5	110.1	7000			C413_110.1 P80 BXN80MA4	172
13.5	362	1.7	102.3	7000			C413_102.3 P80 BXN80MA4	172
13.5	361	1.2	102.2	6500			C363_102.2 P80 BXN80MA4	168
13.6	360	2.8	101.8	10000			C513_101.8 P80 BXN80MA4	176
14.7	333	0.9	94.2	5500	C323_94.2 SX20 MXN20MA4	163	C323_94.2 P80 BXN80MA4	164
14.8	330	1.8	93.3	7000			C413_93.3 P80 BXN80MA4	172
14.8	329	3.0	93.0	10000			C513_93.0 P80 BXN80MA4	176
15.0	325	1.4	91.9	6500			C363_91.9 P80 BXN80MA4	168
16.6	294	1.5	83.1	6500			C363_83.1 P80 BXN80MA4	168
16.7	292	1.0	82.6	5500	C323_82.6 SX20 MXN20MA4	163	C323_82.6 P80 BXN80MA4	164
16.9	289	2.1	81.5	7000			C413_81.5 P80 BXN80MA4	172
17.8	274	1.6	77.6	6500			C363_77.6 P80 BXN80MA4	168
18.5	264	1.1	74.7	5500	C323_74.7 SX20 MXN20MA4	163	C323_74.7 P80 BXN80MA4	164

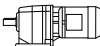


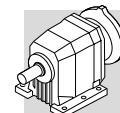
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IE3	 IE3	
18.6	263	2.3	74.4	7000			C413_74.4 P80 BXN80MA4	172
19.5	250	1.8	70.8	6500			C363_70.8 P80 BXN80MA4	168
20.7	241	0.9	66.8	5500			C322_66.8 P80 BXN80MA4	164
21.5	228	2.6	64.3	7000			C413_64.3 P80 BXN80MA4	172
22.2	219	2.1	62.0	6500			C363_62.0 P80 BXN80MA4	168
23.0	212	0.9	60.0	4280	C223_60.0 SX20 MXN20MA4	159	C223_60.0 P80 BXN80MA4	160
23.2	214	1.0	59.4	5500			C322_59.4 P80 BXN80MA4	164
23.5	208	2.9	58.7	7000			C413_58.7 P80 BXN80MA4	172
24.6	198	2.3	56.2	6500			C363_56.2 P80 BXN80MA4	168
26.3	189	1.6	52.4	5500			C322_52.4 P80 BXN80MA4	164
26.8	182	3.3	51.5	7000			C413_51.5 P80 BXN80MA4	172
28.7	170	2.6	48.2	6500			C363_48.2 P80 BXN80MA4	168
30.0	163	1.8	45.3	5500			C322_45.3 P80 BXN80MA4	164
31.0	162	3.1	44.8	7000			C412_44.8 P80 BXN80MA4	172
32.0	154	2.9	43.5	6500			C363_43.5 P80 BXN80MA4	168
32.0	156	1.2	43.3	4190	C222_43.3 SX20 MXN20MA4	159	C222_43.3 P80 BXN80MA4	160
34.0	147	2.0	40.7	5500			C322_40.7 P80 BXN80MA4	164
36.0	135	3.3	38.1	6500			C363_38.1 P80 BXN80MA4	168
38.0	133	1.5	36.8	4070	C222_36.8 SX20 MXN20MA4	159	C222_36.8 P80 BXN80MA4	160
38.0	130	2.3	36.1	5500			C322_36.1 P80 BXN80MA4	164
42.0	119	1.7	33.1	3970	C222_33.1 SX20 MXN20MA4	159	C222_33.1 P80 BXN80MA4	160
42.0	119	2.5	33.1	5500			C322_33.1 P80 BXN80MA4	164
46.0	107	2.8	29.8	5500			C322_29.8 P80 BXN80MA4	164
47.0	107	1.9	29.6	3890	C222_29.6 SX20 MXN20MA4	159	C222_29.6 P80 BXN80MA4	160
47.0	106	0.8	29.5	1820	C122_29.5 SX20 MXN20MA4	155	C122_29.5 P80 BXN80MA4	156
51.0	98	2.0	27.2	3860	C222_27.2 SX20 MXN20MA4	159	C222_27.2 P80 BXN80MA4	160
51.0	97	3.1	26.9	5500			C322_26.9 P80 BXN80MA4	164
54.0	92	1.0	25.4	2000	C122_25.4 SX20 MXN20MA4	155	C122_25.4 P80 BXN80MA4	156
55.0	91	3.3	25.1	5500			C322_25.1 P80 BXN80MA4	164
57.0	88	2.3	24.3	3720	C222_24.3 SX20 MXN20MA4	159	C222_24.3 P80 BXN80MA4	160
59.0	84	1.0	23.2	2000	C122_23.2 SX20 MXN20MA4	155	C122_23.2 P80 BXN80MA4	156
64.0	77	2.5	21.5	3700	C222_21.5 SX20 MXN20MA4	159	C222_21.5 P80 BXN80MA4	160
67.0	74	1.1	20.6	2000	C122_20.6 SX20 MXN20MA4	155	C122_20.6 P80 BXN80MA4	156
69.0	72	2.6	20.0	3560	C222_20.0 SX20 MXN20MA4	159	C222_20.0 P80 BXN80MA4	160
75.0	66	1.2	18.4	2000	C122_18.4 SX20 MXN20MA4	155	C122_18.4 P80 BXN80MA4	156
76.0	65	2.8	18.1	3500	C222_18.1 SX20 MXN20MA4	159	C222_18.1 P80 BXN80MA4	160
80.0	62	1.2	17.2	2000	C122_17.2 SX20 MXN20MA4	155	C122_17.2 P80 BXN80MA4	156
87.0	57	3.1	15.8	3350	C222_15.8 SX20 MXN20MA4	159	C222_15.8 P80 BXN80MA4	160
89.0	56	1.3	15.4	2000	C122_15.4 SX20 MXN20MA4	155	C122_15.4 P80 BXN80MA4	156
95.0	53	3.2	14.5	3300	C222_14.5 SX20 MXN20MA4	159	C222_14.5 P80 BXN80MA4	160
103.0	48	1.4	13.4	1990	C122_13.4 SX20 MXN20MA4	155	C122_13.4 P80 BXN80MA4	156
116.0	43	1.6	11.9	1920	C122_11.9 SX20 MXN20MA4	155	C122_11.9 P80 BXN80MA4	156
137.0	36	1.7	10.1	1850	C122_10.1 SX20 MXN20MA4	155	C122_10.1 P80 BXN80MA4	156
156.0	32	1.9	8.8	1780	C122_8.8 SX20 MXN20MA4	155	C122_8.8 P80 BXN80MA4	156
181.0	28	2.0	7.6	1720	C122_7.6 SX20 MXN20MA4	155	C122_7.6 P80 BXN80MA4	156
221.0	22	2.4	6.2	1590	C122_6.2 SX20 MXN20MA4	155	C122_6.2 P80 BXN80MA4	156
246.0	20	2.5	5.6	1540	C122_5.6 SX20 MXN20MA4	155	C122_5.6 P80 BXN80MA4	156
283.0	18	2.7	4.9	1490	C122_4.9 SX20 MXN20MA4	155	C122_4.9 P80 BXN80MA4	156
320.0	16	2.9	4.3	1420	C122_4.3 SX20 MXN20MA4	155	C122_4.3 P80 BXN80MA4	156
378.0	13	3.2	3.7	1370	C122_3.7 SX20 MXN20MA4	155	C122_3.7 P80 BXN80MA4	156

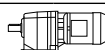


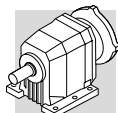
0.75 kW

n ₂	M ₂	S	i	R _{n2}						
min ⁻¹	Nm			N	IE2	IE3		IE2	IE3	
0.86	7413	1.6	1081	85000	C1004_1081 S3 ME3SA6		192	C1004_1081 P90 BE90S6		193
0.93	6973	1.0	1006	60000	C904_1006 S3 ME3SA6		189	C904_1006 P90 BE90S6		190
1.2	5582	1.3	1240	60000	C904_1240 S2 ME2SB4	C904_1240 S2 MX2SB4	189	C904_1240 P80 BE80B4	C904_1240 P80 BX80B4	190
1.3	5117	1.4	1137	60000	C904_1137 S2 ME2SB4	C904_1137 S2 MX2SB4	189	C904_1137 P80 BE80B4	C904_1137 P80 BX80B4	190
1.3	4865	2.5	1081	85000	C1004_1081 S2 ME2SB4	C1004_1081 S2 MX2SB4	192	C1004_1081 P80 BE80B4	C1004_1081 P80 BX80B4	193
1.4	4528	1.6	1006	60000	C904_1006 S2 ME2SB4	C904_1006 S2 MX2SB4	189	C904_1006 P80 BE80B4	C904_1006 P80 BX80B4	190
1.4	4517	2.7	1004	85000	C1004_1004 S2 ME2SB4	C1004_1004 S2 MX2SB4	192	C1004_1004 P80 BE80B4	C1004_1004 P80 BX80B4	193
1.5	4256	0.9	945.7	35000	C804_945.7 S2 ME2SB4	C804_945.7 S2 MX2SB4	186	C804_945.7 P80 BE80B4	C804_945.7 P80 BX80B4	187
1.6	4150	1.7	922.3	60000	C904_922.3 S2 ME2SB4	C904_922.3 S2 MX2SB4	189	C904_922.3 P80 BE80B4	C904_922.3 P80 BX80B4	190
1.6	4087	2.9	908.2	85000	C1004_908.2 S2 ME2SB4	C1004_908.2 S2 MX2SB4	192	C1004_908.2 P80 BE80B4	C1004_908.2 P80 BX80B4	193
1.7	3846	1.0	854.6	35000	C804_854.6 S2 ME2SB4	C804_854.6 S2 MX2SB4	186	C804_854.6 P80 BE80B4	C804_854.6 P80 BX80B4	187
1.7	3798	1.9	844.0	6000	C904_844.0 S2 ME2SB4	C904_844.0 S2 MX2SB4	189	C904_844.0 P80 BE80B4	C904_844.0 P80 BX80B4	190
1.8	3525	1.1	783.4	35000	C804_783.4 S2 ME2SB4	C804_783.4 S2 MX2SB4	186	C804_783.4 P80 BE80B4	C804_783.4 P80 BX80B4	187
1.8	3481	2.1	773.6	60000	C904_773.6 S2 ME2SB4	C904_773.6 S2 MX2SB4	189	C904_773.6 P80 BE80B4	C904_773.6 P80 BX80B4	190
2.0	3261	1.2	724.7	35000	C804_724.7 S2 ME2SB4	C804_724.7 S2 MX2SB4	186	C804_724.7 P80 BE80B4	C804_724.7 P80 BX80B4	187
2.0	3205	2.2	712.2	60000	C904_712.2 S2 ME2SB4	C904_712.2 S2 MX2SB4	189	C904_712.2 P80 BE80B4	C904_712.2 P80 BX80B4	190
2.2	2989	1.3	664.3	35000	C804_664.3 S2 ME2SB4	C804_664.3 S2 MX2SB4	186	C804_664.3 P80 BE80B4	C804_664.3 P80 BX80B4	187
2.2	2938	2.5	652.8	60000	C904_652.8 S2 ME2SB4	C904_652.8 S2 MX2SB4	189	C904_652.8 P80 BE80B4	C904_652.8 P80 BX80B4	190
2.5	2623	2.7	582.8	60000	C904_582.8 S2 ME2SB4	C904_582.8 S2 MX2SB4	189	C904_582.8 P80 BE80B4	C904_582.8 P80 BX80B4	190
2.5	2598	1.5	577.4	35000	C804_577.4 S2 ME2SB4	C804_577.4 S2 MX2SB4	186	C804_577.4 P80 BE80B4	C804_577.4 P80 BX80B4	187
2.6	2496	0.9	554.7	25000	C704_554.7 S2 ME2SB4	C704_554.7 S2 MX2SB4	183	C704_554.7 P80 BE80B4	C704_554.7 P80 BX80B4	184
2.7	2404	3.0	534.2	60000	C904_534.2 S2 ME2SB4	C904_534.2 S2 MX2SB4	189	C904_534.2 P80 BE80B4	C904_534.2 P80 BX80B4	190
2.7	2382	1.7	529.3	35000	C804_529.3 S2 ME2SB4	C804_529.3 S2 MX2SB4	186	C804_529.3 P80 BE80B4	C804_529.3 P80 BX80B4	187
2.8	2304	1.0	512.0	25000	C704_512.0 S2 ME2SB4	C704_512.0 S2 MX2SB4	183	C704_512.0 P80 BE80B4	C704_512.0 P80 BX80B4	184
3.1	2049	2.0	455.4	35000	C804_455.4 S2 ME2SB4	C804_455.4 S2 MX2SB4	186	C804_455.4 P80 BE80B4	C804_455.4 P80 BX80B4	187
3.2	1996	1.2	443.5	25000	C704_443.5 S2 ME2SB4	C704_443.5 S2 MX2SB4	183	C704_443.5 P80 BE80B4	C704_443.5 P80 BX80B4	184
3.4	1897	0.8	421.5	16000	C614_421.5 S2 ME2SB4	C614_421.5 S2 MX2SB4	179	C614_421.5 P80 BE80B4	C614_421.5 P80 BX80B4	180
3.4	1879	2.1	417.5	35000	C804_417.5 S2 ME2SB4	C804_417.5 S2 MX2SB4	186	C804_417.5 P80 BE80B4	C804_417.5 P80 BX80B4	187
3.5	1842	1.2	409.4	25000	C704_409.4 S2 ME2SB4	C704_409.4 S2 MX2SB4	183	C704_409.4 P80 BE80B4	C704_409.4 P80 BX80B4	184
3.9	1666	1.0	370.1	16000	C614_370.1 S2 ME2SB4	C614_370.1 S2 MX2SB4	179	C614_370.1 P80 BE80B4	C614_370.1 P80 BX80B4	180
3.9	1696	1.4	239.3	25000	C703_239.3 S3 ME3SA6		183	C703_239.3 P90 BE90S6		184
3.9	1641	2.4	364.7	35000	C804_364.7 S2 ME2SB4	C804_364.7 S2 MX2SB4	186	C804_364.7 P80 BE80B4	C804_364.7 P80 BX80B4	187
4.2	1550	1.5	344.3	25000	C704_344.3 S2 ME2SB4	C704_344.3 S2 MX2SB4	183	C704_344.3 P80 BE80B4	C704_344.3 P80 BX80B4	184
4.2	1520	1.1	337.7	16000	C614_337.7 S2 ME2SB4	C614_337.7 S2 MX2SB4	179	C614_337.7 P80 BE80B4	C614_337.7 P80 BX80B4	180
4.3	1504	2.7	334.3	35000	C804_334.3 S2 ME2SB4	C804_334.3 S2 MX2SB4	186	C804_334.3 P80 BE80B4	C804_334.3 P80 BX80B4	187
4.3	1529	2.6	215.8	35000	C803_215.8 S3 ME3SA6		186	C803_215.8 P90 BE90S6		187
4.5	1430	1.6	317.9	25000	C704_317.9 S2 ME2SB4	C704_317.9 S2 MX2SB4	183	C704_317.9 P80 BE80B4	C704_317.9 P80 BX80B4	184
4.7	1358	1.2	301.7	16000	C614_301.7 S2 ME2SB4	C614_301.7 S2 MX2SB4	179	C614_301.7 P80 BE80B4	C614_301.7 P80 BX80B4	180
4.8	1387	1.2	195.8	16000	C613_195.8 S3 ME3SA6		179	C613_195.8 P90 BE90S6		180
5.2	1239	1.3	275.3	16000	C614_275.3 S2 ME2SB4	C614_275.3 S2 MX2SB4	179	C614_275.3 P80 BE80B4	C614_275.3 P80 BX80B4	180
5.2	1265	1.3	178.6	16000	C613_178.6 S3 ME3SA6		179	C613_178.6 P90 BE90S6		180
5.3	1225	1.9	272.2	25000	C704_272.2 S2 ME2SB4	C704_272.2 S2 MX2SB4	183	C704_272.2 P80 BE80B4	C704_272.2 P80 BX80B4	184
5.4	1187	0.8	263.8	10000	C514_263.8 S2 ME2SB4	C514_263.8 S2 MX2SB4	175	C514_263.8 P80 BE80B4	C514_263.8 P80 BX80B4	176
5.7	1165	1.4	164.5	16000	C613_164.5 S3 ME3SA6		179	C613_164.5 P90 BE90S6		180
5.7	1131	2.0	251.3	25000	C704_251.3 S2 ME2SB4	C704_251.3 S2 MX2SB4	183	C704_251.3 P80 BE80B4	C704_251.3 P80 BX80B4	184
5.9	1084	0.9	240.9	10000	C514_240.9 S2 ME2SB4	C514_240.9 S2 MX2SB4	175	C514_240.9 P80 BE80B4	C514_240.9 P80 BX80B4	176
6.0	1113	2.1	239.3	25000	C703_239.3 S2 ME2SB4	C703_239.3 S2 MX2SB4	183	C703_239.3 P80 BE80B4	C703_239.3 P80 BX80B4	184
6.0	1072	1.5	238.3	16000	C614_238.3 S2 ME2SB4	C614_238.3 S2 MX2SB4	179	C614_238.3 P80 BE80B4	C614_238.3 P80 BX80B4	180
6.5	1027	2.2	220.9	25000	C703_220.9 S2 ME2SB4	C703_220.9 S2 MX2SB4	183	C703_220.9 P80 BE80B4	C703_220.9 P80 BX80B4	184
6.6	978	1.6	217.4	16000	C614_217.4 S2 ME2SB4	C614_217.4 S2 MX2SB4	179	C614_217.4 P80 BE80B4	C614_217.4 P80 BX80B4	180
6.6	1008	1.0	216.7	10000	C513_216.7 S2 ME2SB4	C513_216.7 S2 MX2SB4	175	C513_216.7 P80 BE80B4	C513_216.7 P80 BX80B4	176
7.2	920	1.1	197.9	10000	C513_197.9 S2 ME2SB4	C513_197.9 S2 MX2SB4	175	C513_197.9 P80 BE80B4	C513_197.9 P80 BX80B4	176
7.3	881	1.8	195.8	16000	C613_195.8 S2 ME2SB4	C613_195.8 S2 MX2SB4	179	C613_195.8 P80 BE80B4	C613_195.8 P80 BX80B4	180
7.4	903	2.5	194.1	25000	C703_194.1 S2 ME2SB4	C703_194.1 S2 MX2SB4	183	C703_194.1 P80 BE80B4	C703_194.1 P80 BX80B4	184
8.0	833	2.8	179.2	25000	C703_179.2 S2 ME2SB4	C703_179.2 S2 MX2SB4	183	C703_179.2 P80 BE80B4	C703_179.2 P80 BX80B4	184
8.0	804	2.0	178.6	16000	C613_178.6 S2 ME2SB4	C613_178.6 S2 MX2SB4	179	C613_178.6 P80 BE80B4	C613_178.6 P80 BX80B4	180
8.1	817	1.2	175.8	10000	C513_175.8 S2 ME2SB4	C513_175.8 S2 MX2SB4	175	C513_175.8 P80 BE80B4	C513_175.8 P80 BX80B4	176
8.7	740	2.2	164.5	16000	C613_164.5 S2 ME2SB4	C613_164.5 S2 MX2SB4	179	C613_164.5 P80 BE80B4	C613_164.5 P80 BX80B4	180
8.8	757	3.0	162.8	25000	C703_162.8 S2 ME2SB4	C703_162.8 S2 MX2SB4	183	C703_162.8 P80 BE80B4	C703_162.8 P80 BX80B4	184
8.9	746	1.3	160.5	10000	C513_160.5 S2 ME2SB4	C513_160.5 S2 MX2SB4	175	C513_160.5 P80 BE80B4	C513_160.5 P80 BX80B4	176
9.5	675	2.4	150.0	16000	C613_150.0 S2 ME2SB4	C613_150.0 S2 MX2SB4	179	C613_150.0 P80 BE80B4	C613_150.0 P80 BX80B4	180
9.7	686	1.5	147.4	10000	C513_147.4 S2 ME2SB4	C513_147.4 S2 MX2SB4	175	C513_147.4 P80 BE80B4	C513_147.4 P80 BX80B4	176
10.2	632	2.5	140.5	16000	C613_140.5 S2 ME2SB4	C613_140.5 S2 MX2SB4	179	C613_140.5 P80 BE80B4	C613_140.5 P80 BX80B4	180
10.6	626	1.6	134.6	10000	C513_134.6 S2 ME2SB4	C513_134.6 S2 MX2SB4	175	C513_134.6 P80 BE80B4	C513_134.6 P80 BX80B4	176
10.8	618	1.0	132.9	7000	C413_132.9 S2 ME2SB4	C413_132.9 S2 MX2SB4	171	C413_132.9 P80 BE80B4	C413_132.9 P80 BX80B4	172
11.2	577	2.8	128.1	16000	C613_128.1 S2 ME2SB4	C613_128.1 S2 MX2SB4	179	C613_128.1 P80 BE80B4	C613_128.1 P80 BX80B4	180
11.5	579	1.7	124.4	10000	C513_124.4 S2 ME2SB4	C513_124.4 S2 MX2SB4	175	C513_124.4 P80 BE80B4	C513_124.4 P80 BX80B4	176
11.9	561	1.1	120.6	7000	C413_120.6 S2 ME2SB4	C413_120.6 S2 MX2SB4	171	C413_120.6 P80 BE80B4	C413_120.6 P80 BX80B4	172
12.6	511	3.1	113.6	16000	C613_113.6 S2 ME2SB4	C613_113.6 S2 MX2SB4	179	C613_113.6 P80 BE80B4	C613_113.6 P80 BX80B4	180



0.75 kW

n ₂	M ₂	S	i	R _{n2}						
min ⁻¹	Nm			N	IE2	IE3		IE2	IE3	
12.6	528	1.9	113.6	10000	C513_113.6 S2 ME2SB4	C513_113.6 S2 MX2SB4	175	C513_113.6 P80 BE80B4	C513_113.6 P80 BX80B4	176
13.0	512	1.2	110.1	7000	C413_110.1 S2 ME2SB4	C413_110.1 S2 MX2SB4	171	C413_110.1 P80 BE80B4	C413_110.1 P80 BX80B4	172
13.8	466	3.4	103.6	16000	C613_103.6 S2 ME2SB4	C613_103.6 S2 MX2SB4	179	C613_103.6 P80 BE80B4	C613_103.6 P80 BX80B4	180
14.0	476	1.3	102.3	7000	C413_102.3 S2 ME2SB4	C413_102.3 S2 MX2SB4	171	C413_102.3 P80 BE80B4	C413_102.3 P80 BX80B4	172
14.0	475	0.9	102.2	6500	C363_102.2 S2 ME2SB4	C363_102.2 S2 MX2SB4	167	C363_102.2 P80 BE80B4	C363_102.2 P80 BX80B4	168
14.0	473	2.1	101.8	10000	C513_101.8 S2 ME2SB4	C513_101.8 S2 MX2SB4	175	C513_101.8 P80 BE80B4	C513_101.8 P80 BX80B4	176
15.3	434	1.4	93.3	7000	C413_93.3 S2 ME2SB4	C413_93.3 S2 MX2SB4	171	C413_93.3 P80 BE80B4	C413_93.3 P80 BX80B4	172
15.4	432	2.3	93.0	10000	C513_93.0 S2 ME2SB4	C513_93.0 S2 MX2SB4	175	C513_93.0 P80 BE80B4	C513_93.0 P80 BX80B4	176
15.6	427	1.1	91.9	6500	C363_91.9 S2 ME2SB4	C363_91.9 S2 MX2SB4	167	C363_91.9 P80 BE80B4	C363_91.9 P80 BX80B4	168
17.2	387	1.2	83.1	6500	C363_83.1 S2 ME2SB4	C363_83.1 S2 MX2SB4	167	C363_83.1 P80 BE80B4	C363_83.1 P80 BX80B4	168
17.5	379	1.6	81.5	7000	C413_81.5 S2 ME2SB4	C413_81.5 S2 MX2SB4	171	C413_81.5 P80 BE80B4	C413_81.5 P80 BX80B4	172
17.9	371	2.7	79.9	10000	C513_79.9 S2 ME2SB4	C513_79.9 S2 MX2SB4	175	C513_79.9 P80 BE80B4	C513_79.9 P80 BX80B4	176
18.4	361	1.2	77.6	6500	C363_77.6 S2 ME2SB4	C363_77.6 S2 MX2SB4	167	C363_77.6 P80 BE80B4	C363_77.6 P80 BX80B4	168
19.2	346	1.7	74.4	7000	C413_74.4 S2 ME2SB4	C413_74.4 S2 MX2SB4	171	C413_74.4 P80 BE80B4	C413_74.4 P80 BX80B4	172
19.6	339	2.9	72.9	10000	C513_72.9 S2 ME2SB4	C513_72.9 S2 MX2SB4	175	C513_72.9 P80 BE80B4	C513_72.9 P80 BX80B4	176
20.2	329	1.4	70.8	6500	C363_70.8 S2 ME2SB4	C363_70.8 S2 MX2SB4	167	C363_70.8 P80 BE80B4	C363_70.8 P80 BX80B4	168
22.1	300	3.3	64.6	10000	C513_64.6 S2 ME2SB4	C513_64.6 S2 MX2SB4	175	C513_64.6 P80 BE80B4	C513_64.6 P80 BX80B4	176
22.2	299	2.0	64.3	7000	C413_64.3 S2 ME2SB4	C413_64.3 S2 MX2SB4	171	C413_64.3 P80 BE80B4	C413_64.3 P80 BX80B4	172
23.0	295	1.0	40.7	5500	C322_40.7 S3 ME3SA6		163	C322_40.7 P90 BE90S6		164
23.1	288	1.6	62.0	6500	C363_62.0 S2 ME2SB4	C363_62.0 S2 MX2SB4	167	C363_62.0 P80 BE80B4	C363_62.0 P80 BX80B4	168
24.4	273	2.2	58.7	7000	C413_58.7 S2 ME2SB4	C413_58.7 S2 MX2SB4	171	C413_58.7 P80 BE80B4	C413_58.7 P80 BX80B4	172
25.1	271	2.9	57.0	10000	C512_57.0 S2 ME2SB4	C512_57.0 S2 MX2SB4	175	C512_57.0 P80 BE80B4	C512_57.0 P80 BX80B4	176
25.5	261	1.7	56.2	6500	C363_56.2 S2 ME2SB4	C363_56.2 S2 MX2SB4	167	C363_56.2 P80 BE80B4	C363_56.2 P80 BX80B4	168
27.3	249	1.2	52.4	5500	C322_52.4 S2 ME2SB4	C322_52.4 S2 MX2SB4	163	C322_52.4 P80 BE80B4	C322_52.4 P80 BX80B4	164
27.8	239	2.5	51.5	7000	C413_51.5 S2 ME2SB4	C413_51.5 S2 MX2SB4	171	C413_51.5 P80 BE80B4	C413_51.5 P80 BX80B4	172
27.8	244	2.9	51.4	10000	C512_51.4 S2 ME2SB4	C512_51.4 S2 MX2SB4	175	C512_51.4 P80 BE80B4	C512_51.4 P80 BX80B4	176
29.7	224	2.0	48.2	6500	C363_48.2 S2 ME2SB4	C363_48.2 S2 MX2SB4	167	C363_48.2 P80 BE80B4	C363_48.2 P80 BX80B4	168
29.9	227	3.5	47.8	10000	C512_47.8 S2 ME2SB4	C512_47.8 S2 MX2SB4	175	C512_47.8 P80 BE80B4	C512_47.8 P80 BX80B4	176
30	218	2.7	47.0	7000	C413_47.0 S2 ME2SB4	C413_47.0 S2 MX2SB4	171	C413_47.0 P80 BE80B4	C413_47.0 P80 BX80B4	172
32	215	1.4	45.3	5500	C322_45.3 S2 ME2SB4	C322_45.3 S2 MX2SB4	163	C322_45.3 P80 BE80B4	C322_45.3 P80 BX80B4	164
32	213	2.4	44.8	7000	C412_44.8 S2 ME2SB4	C412_44.8 S2 MX2SB4	171	C412_44.8 P80 BE80B4	C412_44.8 P80 BX80B4	172
33	202	2.2	43.5	6500	C363_43.5 S2 ME2SB4	C363_43.5 S2 MX2SB4	167	C363_43.5 P80 BE80B4	C363_43.5 P80 BX80B4	168
33	206	0.9	43.3	3810	C222_43.3 S2 ME2SB4	C222_43.3 S2 MX2SB4	159	C222_43.3 P80 BE80B4	C222_43.3 P80 BX80B4	160
35	193	1.6	40.7	5500	C322_40.7 S2 ME2SB4	C322_40.7 S2 MX2SB4	163	C322_40.7 P80 BE80B4	C322_40.7 P80 BX80B4	164
38	177	2.5	38.1	6500	C363_38.1 S2 ME2SB4	C363_38.1 S2 MX2SB4	167	C363_38.1 P80 BE80B4	C363_38.1 P80 BX80B4	168
39	176	2.8	37.1	7000	C412_37.1 S2 ME2SB4	C412_37.1 S2 MX2SB4	171	C412_37.1 P80 BE80B4	C412_37.1 P80 BX80B4	172
39	175	1.1	36.8	3750	C222_36.8 S2 ME2SB4	C222_36.8 S2 MX2SB4	159	C222_36.8 P80 BE80B4	C222_36.8 P80 BX80B4	160
40	171	1.7	36.1	5500	C322_36.1 S2 ME2SB4	C322_36.1 S2 MX2SB4	163	C322_36.1 P80 BE80B4	C322_36.1 P80 BX80B4	164
41	161	2.8	34.6	6500	C363_34.6 S2 ME2SB4	C363_34.6 S2 MX2SB4	167	C363_34.6 P80 BE80B4	C363_34.6 P80 BX80B4	168
43	159	3.2	33.4	7000	C412_33.4 S2 ME2SB4	C412_33.4 S2 MX2SB4	171	C412_33.4 P80 BE80B4	C412_33.4 P80 BX80B4	172
43	157	1.3	33.1	3680	C222_33.1 S2 ME2SB4	C222_33.1 S2 MX2SB4	159	C222_33.1 P80 BE80B4	C222_33.1 P80 BX80B4	160
43	157	1.9	33.1	5500	C322_33.1 S2 ME2SB4	C322_33.1 S2 MX2SB4	163	C322_33.1 P80 BE80B4	C322_33.1 P80 BX80B4	164
48	141	2.1	29.8	5500	C322_29.8 S2 ME2SB4	C322_29.8 S2 MX2SB4	163	C322_29.8 P80 BE80B4	C322_29.8 P80 BX80B4	164
48	141	1.4	29.6	3630	C222_29.6 S2 ME2SB4	C222_29.6 S2 MX2SB4	159	C222_29.6 P80 BE80B4	C222_29.6 P80 BX80B4	160
50	134	3.4	28.7	6490	C363_28.7 S2 ME2SB4	C363_28.7 S2 MX2SB4	167	C363_28.7 P80 BE80B4	C363_28.7 P80 BX80B4	168
53	129	1.6	27.2	3600	C222_27.2 S2 ME2SB4	C222_27.2 S2 MX2SB4	159	C222_27.2 P80 BE80B4	C222_27.2 P80 BX80B4	160
53	128	2.3	26.9	5500	C322_26.9 S2 ME2SB4	C322_26.9 S2 MX2SB4	163	C322_26.9 P80 BE80B4	C322_26.9 P80 BX80B4	164
57	119	2.5	25.1	5460	C322_25.1 S2 ME2SB4	C322_25.1 S2 MX2SB4	163	C322_25.1 P80 BE80B4	C322_25.1 P80 BX80B4	164
59	115	1.7	24.3	3510	C222_24.3 S2 ME2SB4	C222_24.3 S2 MX2SB4	159	C222_24.3 P80 BE80B4	C222_24.3 P80 BX80B4	160
62	109	2.7	22.9	5300	C322_22.9 S2 ME2SB4	C322_22.9 S2 MX2SB4	163	C322_22.9 P80 BE80B4	C322_22.9 P80 BX80B4	164
67	102	1.9	21.5	3480	C222_21.5 S2 ME2SB4	C222_21.5 S2 MX2SB4	159	C222_21.5 P80 BE80B4	C222_21.5 P80 BX80B4	160
71	95	3.1	20.1	5150	C322_20.1 S2 ME2SB4	C322_20.1 S2 MX2SB4	163	C322_20.1 P80 BE80B4	C322_20.1 P80 BX80B4	164
71	95	2.0	20.0	3380	C222_20.0 S2 ME2SB4	C222_20.0 S2 MX2SB4	159	C222_20.0 P80 BE80B4	C222_20.0 P80 BX80B4	160
79	86	2.1	18.1	3350	C222_18.1 S2 ME2SB4	C222_18.1 S2 MX2SB4	159	C222_18.1 P80 BE80B4	C222_18.1 P80 BX80B4	160
83	82	0.9	17.2	1750	C122_17.2 S2 ME2SB4	C122_17.2 S2 MX2SB4	155	C122_17.2 P80 BE80B4	C122_17.2 P80 BX80B4	156
90	75	2.3	15.8	3210	C222_15.8 S2 ME2SB4	C222_15.8 S2 MX2SB4	159	C222_15.8 P80 BE80B4	C222_15.8 P80 BX80B4	160
93	73	1.0	15.4	1920	C122_15.4 S2 ME2SB4	C122_15.4 S2 MX2SB4	155	C122_15.4 P80 BE80B4	C122_15.4 P80 BX80B4	156
98	69	2.4	14.5	3200	C222_14.5 S2 ME2SB4	C222_14.5 S2 MX2SB4	159	C222_14.5 P80 BE80B4	C222_14.5 P80 BX80B4	160
107	64	1.1	13.4	1870	C122_13.4 S2 ME2SB4	C122_13.4 S2 MX2SB4	155	C122_13.4 P80 BE80B4	C122_13.4 P80 BX80B4	156
115	59	2.7	12.4	3030	C222_12.4 S2 ME2SB4	C222_12.4 S2 MX2SB4	159	C222_12.4 P80 BE80B4	C222_12.4 P80 BX80B4	160
120	56	1.2	11.9	1780	C122_11.9 S2 ME2SB4	C122_11.9 S2 MX2SB4	155	C122_11.9 P80 BE80B4	C122_11.9 P80 BX80B4	156
129	53	2.9	11.1	2980	C222_11.1 S2 ME2SB4	C222_11.1 S2 MX2SB4	159	C222_11.1 P80 BE80B4	C222_11.1 P80 BX80B4	160
142	48	1.3	10.1	1760	C122_10.1 S2 ME2SB4	C122_10.1 S2 MX2SB4	155	C122_10.1 P80 BE80B4	C122_10.1 P80 BX80B4	156
148	46	3.2	9.6	2840	C222_9.6 S2 ME2SB4	C222_9.6 S2 MX2SB4	159	C222_9.6 P80 BE80B4	C222_9.6 P80 BX80B4	160
162	42	1.4	8.8	1700	C122_8.8 S2 ME2SB4	C122_8.8 S2 MX2SB4	155	C122_8.8 P80 BE80B4	C122_8.8 P80 BX80B4	156
165	41	3.4	8.7	2760	C222_8.7 S2 ME2SB4	C222_8.7 S2 MX2SB4	159	C222_8.7 P80 BE80B4	C222_8.7 P80 BX80B4	160
188	36	1.5	7.6	1650	C122_7.6 S2 ME2SB4	C122_7.6 S2 MX2SB4	155	C122_7.6 P80 BE80B4	C122_7.6 P80 BX80B4	156
229	30	1.8	6.2	1530	C122_6.2 S2 ME2SB4	C122_6.2 S2 MX2SB4	155	C122_6.2 P80 BE80B4	C122_6.2 P80 BX80B4	156
240	28	2.4	11.9	1520	C122_11.9 S2 ME2SA2		155	C122_11.9 P80 BE80A2		156

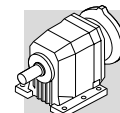


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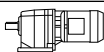
n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IE2	IE3
255	27	1.9	5.6	1470	C122_5.6 S2 ME2SB4	C122_5.6 S2 MX2SB4	C122_5.6 P80 BE80B4	C122_5.6 P80 BX80B4
283	24	2.6	10.1	1490	C122_10.1 S2 ME2SA2		C122_10.1 P80 BE80A2	
294	23	2.1	4.9	1440	C122_4.9 S2 ME2SB4	C122_4.9 S2 MX2SB4	C122_4.9 P80 BE80B4	C122_4.9 P80 BX80B4
323	21	2.8	8.8	1420	C122_8.8 S2 ME2SA2		C122_8.8 P80 BE80A2	
332	20	2.2	4.3	1370	C122_4.3 S2 ME2SB4	C122_4.3 S2 MX2SB4	C122_4.3 P80 BE80B4	C122_4.3 P80 BX80B4
374	18	3.1	7.6	1380	C122_7.6 S2 ME2SA2		C122_7.6 P80 BE80A2	
392	17	2.4	3.7	1330	C122_3.7 S2 ME2SB4	C122_3.7 S2 MX2SB4	C122_3.7 P80 BE80B4	C122_3.7 P80 BX80B4
446	15	2.6	3.2	1280	C122_3.2 S2 ME2SB4	C122_3.2 S2 MX2SB4	C122_3.2 P80 BE80B4	C122_3.2 P80 BX80B4
457	15	3.6	6.2	1280	C122_6.2 S2 ME2SA2		C122_6.2 P80 BE80A2	
509	13	3.8	5.6	1240	C122_5.6 S2 ME2SA2		C122_5.6 P80 BE80A2	
517	13	2.8	2.8	1230	C122_2.8 S2 ME2SB4	C122_2.8 S2 MX2SB4	C122_2.8 P80 BE80B4	C122_2.8 P80 BX80B4
585	12	4.1	4.9	1190	C122_4.9 S2 ME2SA2		C122_4.9 P80 BE80A2	
661	10	4.4	4.3	1050	C122_4.3 S2 ME2SA2		C122_4.3 P80 BE80A2	
781	9	4.8	3.7	1090	C122_3.7 S2 ME2SA2		C122_3.7 P80 BE80A2	
889	8	5.2	3.2	1050	C122_3.2 S2 ME2SA2		C122_3.2 P80 BE80A2	
1030	7	5.6	2.8	1010	C122_2.8 S2 ME2SA2		C122_2.8 P80 BE80A2	

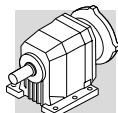
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n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE3	IE3
1.2	5582	1.3	1240	60000		C904_1240 P80 BXN80MB4
1.3	5117	1.4	1137	60000		C904_1137 P80 BXN80MB4
1.3	4865	2.5	1081	85000		C1004_1081 P80 BXN80MB4
1.4	4528	1.6	1006	60000		C904_1006 P80 BXN80MB4
1.4	4517	2.7	1004	85000		C1004_1004 P80 BXN80MB4
1.5	4256	0.9	945.7	35000		C804_945.7 P80 BXN80MB4
1.6	4150	1.7	922.3	60000		C904_922.3 P80 BXN80MB4
1.6	4087	2.9	908.2	85000		C1004_908.2 P80 BXN80MB4
1.7	3846	1.0	854.6	35000		C804_854.6 P80 BXN80MB4
1.7	3798	1.9	844.0	6000		C904_844.0 P80 BXN80MB4
1.8	3525	1.1	783.4	35000		C804_783.4 P80 BXN80MB4
1.8	3481	2.1	773.6	60000		C904_773.6 P80 BXN80MB4
2.0	3261	1.2	724.7	35000		C804_724.7 P80 BXN80MB4
2.0	3205	2.2	712.2	60000		C904_712.2 P80 BXN80MB4
2.2	2989	1.3	664.3	35000		C804_664.3 P80 BXN80MB4
2.2	2938	2.5	652.8	60000		C904_652.8 P80 BXN80MB4
2.5	2623	2.7	582.8	60000		C904_582.8 P80 BXN80MB4
2.5	2598	1.5	577.4	35000		C804_577.4 P80 BXN80MB4
2.6	2496	0.9	554.7	25000		C704_554.7 P80 BXN80MB4
2.7	2404	3.0	534.2	60000		C904_534.2 P80 BXN80MB4
2.7	2382	1.7	529.3	35000		C804_529.3 P80 BXN80MB4
2.8	2304	1.0	512.0	25000		C704_512.0 P80 BXN80MB4
3.1	2049	2.0	455.4	35000		C804_455.4 P80 BXN80MB4
3.2	1996	1.2	443.5	25000		C704_443.5 P80 BXN80MB4
3.4	1897	0.8	421.5	16000		C614_421.5 P80 BXN80MB4
3.4	1879	2.1	417.5	35000		C804_417.5 P80 BXN80MB4
3.5	1842	1.2	409.4	25000		C704_409.4 P80 BXN80MB4
3.9	1666	1.0	370.1	16000		C614_370.1 P80 BXN80MB4
3.9	1641	2.4	364.7	35000		C804_364.7 P80 BXN80MB4
4.2	1550	1.5	344.3	25000		C704_344.3 P80 BXN80MB4
4.2	1520	1.1	337.7	16000		C614_337.7 P80 BXN80MB4
4.3	1504	2.7	334.3	35000		C804_334.3 P80 BXN80MB4
4.5	1430	1.6	317.9	25000		C704_317.9 P80 BXN80MB4
4.7	1358	1.2	301.7	16000		C614_301.7 P80 BXN80MB4
5.2	1239	1.3	275.3	16000		C614_275.3 P80 BXN80MB4
5.3	1225	1.9	272.2	25000		C704_272.2 P80 BXN80MB4
5.4	1187	0.8	263.8	10000		C514_263.8 P80 BXN80MB4
5.7	1131	2.0	251.3	25000		C704_251.3 P80 BXN80MB4
5.9	1084	0.9	240.9	10000		C514_240.9 P80 BXN80MB4
6.0	1113	2.1	239.3	25000		C703_239.3 P80 BXN80MB4
6.0	1072	1.5	238.3	16000		C614_238.3 P80 BXN80MB4
6.5	1027	2.2	220.9	25000		C703_220.9 P80 BXN80MB4

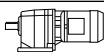


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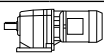
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IE3	 IE3	
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6.6	1008	1.0	216.7	10000			C513_216.7 P80 BXN80MB4	176
7.2	920	1.1	197.9	10000			C513_197.9 P80 BXN80MB4	176
7.3	881	1.8	195.8	16000			C613_195.8 P80 BXN80MB4	180
7.4	903	2.5	194.1	25000			C703_194.1 P80 BXN80MB4	184
8.0	833	2.8	179.2	25000			C703_179.2 P80 BXN80MB4	184
8.0	804	2.0	178.6	16000			C613_178.6 P80 BXN80MB4	180
8.1	817	1.2	175.8	10000			C513_175.8 P80 BXN80MB4	176
8.7	740	2.2	164.5	16000			C613_164.5 P80 BXN80MB4	180
8.8	757	3.0	162.8	25000			C703_162.8 P80 BXN80MB4	184
8.9	746	1.3	160.5	10000			C513_160.5 P80 BXN80MB4	176
9.5	675	2.4	150.0	16000			C613_150.0 P80 BXN80MB4	180
9.7	686	1.5	147.4	10000			C513_147.4 P80 BXN80MB4	176
10.2	632	2.5	140.5	16000			C613_140.5 P80 BXN80MB4	180
10.6	626	1.6	134.6	10000			C513_134.6 P80 BXN80MB4	176
10.8	618	1.0	132.9	7000			C413_132.9 P80 BXN80MB4	172
11.2	577	2.8	128.1	16000			C613_128.1 P80 BXN80MB4	180
11.5	579	1.7	124.4	10000			C513_124.4 P80 BXN80MB4	176
11.9	561	1.1	120.6	7000			C413_120.6 P80 BXN80MB4	172
12.6	511	3.1	113.6	16000			C613_113.6 P80 BXN80MB4	180
12.6	528	1.9	113.6	10000			C513_113.6 P80 BXN80MB4	176
13.0	512	1.2	110.1	7000			C413_110.1 P80 BXN80MB4	172
13.8	466	3.4	103.6	16000			C613_103.6 P80 BXN80MB4	180
14.0	476	1.3	102.3	7000			C413_102.3 P80 BXN80MB4	172
14.0	475	0.9	102.2	6500			C363_102.2 P80 BXN80MB4	168
14.0	473	2.1	101.8	10000			C513_101.8 P80 BXN80MB4	176
15.3	434	1.4	93.3	7000			C413_93.3 P80 BXN80MB4	172
15.4	432	2.3	93.0	10000			C513_93.0 P80 BXN80MB4	176
15.6	427	1.1	91.9	6500			C363_91.9 P80 BXN80MB4	168
17.2	387	1.2	83.1	6500			C363_83.1 P80 BXN80MB4	168
17.5	379	1.6	81.5	7000			C413_81.5 P80 BXN80MB4	172
17.9	371	2.7	79.9	10000			C513_79.9 P80 BXN80MB4	176
18.4	361	1.2	77.6	6500			C363_77.6 P80 BXN80MB4	168
19.2	346	1.7	74.4	7000			C413_74.4 P80 BXN80MB4	172
19.6	339	2.9	72.9	10000			C513_72.9 P80 BXN80MB4	176
20.2	329	1.4	70.8	6500			C363_70.8 P80 BXN80MB4	168
22.1	300	3.3	64.6	10000			C513_64.6 P80 BXN80MB4	176
22.2	299	2.0	64.3	7000			C413_64.3 P80 BXN80MB4	172
23.1	288	1.6	62.0	6500			C363_62.0 P80 BXN80MB4	168
24.4	273	2.2	58.7	7000			C413_58.7 P80 BXN80MB4	172
25.1	271	2.9	57.0	10000			C512_57.0 P80 BXN80MB4	176
25.5	261	1.7	56.2	6500			C363_56.2 P80 BXN80MB4	168
27.3	249	1.2	52.4	5500	C322_52.4 SX20 MXN20MB4	163	C322_52.4 P80 BXN80MB4	164
27.8	239	2.5	51.5	7000			C413_51.5 P80 BXN80MB4	172
27.8	244	2.9	51.4	10000			C512_51.4 P80 BXN80MB4	176
29.7	224	2.0	48.2	6500			C363_48.2 P80 BXN80MB4	168
29.9	227	3.5	47.8	10000			C512_47.8 P80 BXN80MB4	176
30	218	2.7	47.0	7000			C413_47.0 P80 BXN80MB4	172
32	215	1.4	45.3	5500			C322_45.3 P80 BXN80MB4	164
32	213	2.4	44.8	7000			C412_44.8 P80 BXN80MB4	172
33	202	2.2	43.5	6500			C363_43.5 P80 BXN80MB4	168
33	206	0.9	43.3	3810	C222_43.3 SX20 MXN20MB4	159	C222_43.3 P80 BXN80MB4	160
35	193	1.6	40.7	5500			C322_40.7 P80 BXN80MB4	164
38	177	2.5	38.1	6500			C363_38.1 P80 BXN80MB4	168
39	176	2.8	37.1	7000			C412_37.1 P80 BXN80MB4	172
39	175	1.1	36.8	3750	C222_36.8 SX20 MXN20MB4	159	C222_36.8 P80 BXN80MB4	160
40	171	1.7	36.1	5500			C322_36.1 P80 BXN80MB4	164
41	161	2.8	34.6	6500			C363_34.6 P80 BXN80MB4	168
43	159	3.2	33.4	7000			C412_33.4 P80 BXN80MB4	172
43	157	1.3	33.1	3680	C222_33.1 SX20 MXN20MB4	159	C222_33.1 P80 BXN80MB4	160
43	157	1.9	33.1	5500			C322_33.1 P80 BXN80MB4	164
48	141	2.1	29.8	5500			C322_29.8 P80 BXN80MB4	164
48	141	1.4	29.6	3630	C222_29.6 SX20 MXN20MB4	159	C222_29.6 P80 BXN80MB4	160
50	134	3.4	28.7	6490			C363_28.7 P80 BXN80MB4	168
53	129	1.6	27.2	3600	C222_27.2 SX20 MXN20MB4	159	C222_27.2 P80 BXN80MB4	160

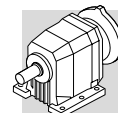


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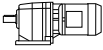
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IEC
53	128	2.3	26.9	5500		C322_26.9 P80 BXN80MB4 164
57	119	2.5	25.1	5460		C322_25.1 P80 BXN80MB4 164
59	115	1.7	24.3	3510	C222_24.3 SX20 MXN20MB4 159	C222_24.3 P80 BXN80MB4 160
62	109	2.7	22.9	5300		C322_22.9 P80 BXN80MB4 164
67	102	1.9	21.5	3480	C222_21.5 SX20 MXN20MB4 159	C222_21.5 P80 BXN80MB4 160
71	95	3.1	20.1	5150		C322_20.1 P80 BXN80MB4 164
71	95	2.0	20.0	3380	C222_20.0 SX20 MXN20MB4 159	C222_20.0 P80 BXN80MB4 160
79	86	2.1	18.1	3350	C222_18.1 SX20 MXN20MB4 159	C222_18.1 P80 BXN80MB4 160
83	82	0.9	17.2	1750	C122_17.2 SX20 MXN20MB4 155	C122_17.2 P80 BXN80MB4 156
90	75	2.3	15.8	3210	C222_15.8 SX20 MXN20MB4 159	C222_15.8 P80 BXN80MB4 160
93	73	1.0	15.4	1920	C122_15.4 SX20 MXN20MB4 155	C122_15.4 P80 BXN80MB4 156
98	69	2.4	14.5	3200	C222_14.5 SX20 MXN20MB4 159	C222_14.5 P80 BXN80MB4 160
107	64	1.1	13.4	1870	C122_13.4 SX20 MXN20MB4 155	C122_13.4 P80 BXN80MB4 156
115	59	2.7	12.4	3030	C222_12.4 SX20 MXN20MB4 159	C222_12.4 P80 BXN80MB4 160
120	56	1.2	11.9	1780	C122_11.9 SX20 MXN20MB4 155	C122_11.9 P80 BXN80MB4 156
129	53	2.9	11.1	2980	C222_11.1 SX20 MXN20MB4 159	C222_11.1 P80 BXN80MB4 160
142	48	1.3	10.1	1760	C122_10.1 SX20 MXN20MB4 155	C122_10.1 P80 BXN80MB4 156
148	46	3.2	9.6	2840	C222_9.6 SX20 MXN20MB4 159	C222_9.6 P80 BXN80MB4 160
162	42	1.4	8.8	1700	C122_8.8 SX20 MXN20MB4 155	C122_8.8 P80 BXN80MB4 156
165	41	3.4	8.7	2760	C222_8.7 SX20 MXN20MB4 159	C222_8.7 P80 BXN80MB4 160
188	36	1.5	7.6	1650	C122_7.6 SX20 MXN20MB4 155	C122_7.6 P80 BXN80MB4 156
229	30	1.8	6.2	1530	C122_6.2 SX20 MXN20MB4 155	C122_6.2 P80 BXN80MB4 156
255	27	1.9	5.6	1470	C122_5.6 SX20 MXN20MB4 155	C122_5.6 P80 BXN80MB4 156
294	23	2.1	4.9	1440	C122_4.9 SX20 MXN20MB4 155	C122_4.9 P80 BXN80MB4 156
332	20	2.2	4.3	1370	C122_4.3 SX20 MXN20MB4 155	C122_4.3 P80 BXN80MB4 156
392	17	2.4	3.7	1330	C122_3.7 SX20 MXN20MB4 155	C122_3.7 P80 BXN80MB4 156
446	15	2.6	3.2	1280	C122_3.2 SX20 MXN20MB4 155	C122_3.2 P80 BXN80MB4 156
517	13	2.8	2.8	1230	C122_2.8 SX20 MXN20MB4 155	C122_2.8 P80 BXN80MB4 156

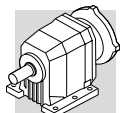
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE2	 IE3	 IEC
0.87	10815	1.1	1081	85000	C1004_1081 S3 ME3LA6		192 C1004_1081 P100 BE100M6 193
0.94	10043	1.2	1004	85000	C1004_908.2 S3 ME3LA6		192 C1004_908.2 P100 BE100M6 193
1.3	7573	1.0	1137	60000	C904_1137 S3 ME3SA4	C904_1137 S3 MX3SA4 189	C904_1137 P90 BE90S4 190
1.3	7200	1.7	1081	85000	C1004_1081 S3 ME3SA4	C1004_1081 S3 MX3SA4 192	C1004_1081 P90 BE90S4 193
1.4	6701	1.1	1006	60000	C904_1006 S3 ME3SA4	C904_1006 S3 MX3SA4 189	C904_1006 P90 BE90S4 190
1.4	6686	1.8	1004	85000	C1004_1004 S3 ME3SA4	C1004_1004 S3 MX3SA4 192	C1004_1004 P90 BE90S4 193
1.6	6143	1.2	922.3	60000	C904_922.3 S3 ME3SA4	C904_922.3 S3 MX3SA4 189	C904_922.3 P90 BE90S4 190
1.6	6049	2.0	908.2	85000	C1004_908.2 S3 ME3SA4	C1004_908.2 S3 MX3SA4 192	C1004_908.2 P90 BE90S4 193
1.7	5621	1.3	844.0	60000	C904_844.0 S3 ME3SA4	C904_844.0 S3 MX3SA4 189	C904_844.0 P90 BE90S4 190
1.7	5617	2.1	843.3	85000	C1004_843.3 S3 ME3SA4	C1004_843.3 S3 MX3SA4 192	C1004_843.3 P90 BE90S4 193
1.8	5166	2.3	775.7	85000	C1004_775.7 S3 ME3SA4	C1004_775.7 S3 MX3SA4 192	C1004_775.7 P90 BE90S4 193
1.8	5152	1.4	773.6	60000	C904_773.6 S3 ME3SA4	C904_773.6 S3 MX3SA4 189	C904_773.6 P90 BE90S4 190
2.0	4797	2.5	720.3	85000	C1004_720.3 S3 ME3SA4	C1004_720.3 S3 MX3SA4 192	C1004_720.3 P90 BE90S4 193
2.0	4743	1.5	712.2	60000	C904_712.2 S3 ME3SA4	C904_712.2 S3 MX3SA4 189	C904_712.2 P90 BE90S4 190
2.2	4424	0.9	664.3	35000	C804_664.3 S3 ME3SA4	C804_664.3 S3 MX3SA4 186	C804_664.3 P90 BE90S4 187
2.2	4348	1.7	652.8	60000	C904_652.8 S3 ME3SA4	C904_652.8 S3 MX3SA4 189	C904_652.8 P90 BE90S4 190
2.3	4179	2.9	627.4	85000	C1004_627.4 S3 ME3SA4	C1004_627.4 S3 MX3SA4 192	C1004_627.4 P90 BE90S4 193
2.5	3881	1.9	582.8	60000	C904_582.8 S3 ME3SA4	C904_582.8 S3 MX3SA4 189	C904_582.8 P90 BE90S4 190
2.5	3845	1.0	577.4	35000	C804_577.4 S3 ME3SA4	C804_577.4 S3 MX3SA4 186	C804_577.4 P90 BE90S4 187
2.7	3558	2.0	534.2	60000	C904_534.2 S3 ME3SA4	C904_534.2 S3 MX3SA4 189	C904_534.2 P90 BE90S4 190
2.7	3525	1.1	529.3	35000	C804_529.3 S3 ME3SA4	C804_529.3 S3 MX3SA4 186	C804_529.3 P90 BE90S4 187
3.1	3045	2.4	457.1	60000	C904_457.1 S3 ME3SA4	C904_457.1 S3 MX3SA4 189	C904_457.1 P90 BE90S4 190
3.1	3033	1.3	455.4	35000	C804_455.4 S3 ME3SA4	C804_455.4 S3 MX3SA4 186	C804_455.4 P90 BE90S4 187
3.4	2791	2.6	419.0	60000	C904_419.0 S3 ME3SA4	C904_419.0 S3 MX3SA4 189	C904_419.0 P90 BE90S4 190
3.4	2780	1.4	417.5	35000	C804_417.5 S3 ME3SA4	C804_417.5 S3 MX3SA4 186	C804_417.5 P90 BE90S4 187

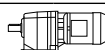


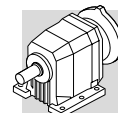
1.1 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N						
					IE2	IE3	IE2	IE3		
3.9	2463	2.9	369.8	60000	C904_369.8 S3 ME3SA4	C904_369.8 S3 MX3SA4	189	C904_369.8 P90 BE90S4	C904_369.8 P90 BX90S4	190
3.9	2429	1.6	364.7	35000	C804_364.7 S3 ME3SA4	C804_364.7 S3 MX3SA4	186	C804_364.7 P90 BE90S4	C804_364.7 P90 BX90S4	187
4.2	2293	1.0	344.3	25000	C704_344.3 S3 ME3SA4	C704_344.3 S3 MX3SA4	183	C704_344.3 P90 BE90S4	C704_344.3 P90 BX90S4	184
4.3	2226	1.8	334.3	35000	C804_334.3 S3 ME3SA4	C804_334.3 S3 MX3SA4	186	C804_334.3 P90 BE90S4	C804_334.3 P90 BX90S4	187
4.5	2117	1.1	317.9	25000	C704_317.9 S3 ME3SA4	C704_317.9 S3 MX3SA4	183	C704_317.9 P90 BE90S4	C704_317.9 P90 BX90S4	184
4.7	2010	0.8	301.7	16000	C614_301.7 S3 ME3SA4	C614_301.7 S3 MX3SA4	179	C614_301.7 P90 BE90S4	C614_301.7 P90 BX90S4	180
5.0	1903	2.1	285.7	35000	C804_285.7 S3 ME3SA4	C804_285.7 S3 MX3SA4	186	C804_285.7 P90 BE90S4	C804_285.7 P90 BX90S4	187
5.2	1833	0.9	275.3	16000	C614_275.3 S3 ME3SA4	C614_275.3 S3 MX3SA4	179	C614_275.3 P90 BE90S4	C614_275.3 P90 BX90S4	180
5.3	1813	1.3	272.2	25000	C704_272.2 S3 ME3SA4	C704_272.2 S3 MX3SA4	183	C704_272.2 P90 BE90S4	C704_272.2 P90 BX90S4	184
5.5	1744	2.3	261.9	35000	C804_261.9 S3 ME3SA4	C804_261.9 S3 MX3SA4	186	C804_261.9 P90 BE90S4	C804_261.9 P90 BX90S4	187
5.7	1674	1.4	251.3	25000	C704_251.3 S3 ME3SA4	C704_251.3 S3 MX3SA4	183	C704_251.3 P90 BE90S4	C704_251.3 P90 BX90S4	184
5.7	1700	0.9	164.5	16000	C613_164.5 S3 ME3LA6		179	C613_164.5 P100 BE100M6		180
6.0	1647	1.4	239.3	25000	C703_239.3 S3 ME3SA4	C703_239.3 S3 MX3SA4	183	C703_239.3 P90 BE90S4	C703_239.3 P90 BX90S4	184
6.0	1587	1.0	238.3	16000	C614_238.3 S3 ME3SA4	C614_238.3 S3 MX3SA4	179	C614_238.3 P90 BE90S4	C614_238.3 P90 BX90S4	180
6.3	1551	1.0	150.0	16000	C613_150.0 S3 ME3LA6		179	C613_150.0 P100 BE100M6		180
6.5	1520	1.5	220.9	25000	C703_220.9 S3 ME3SA4	C703_220.9 S3 MX3SA4	183	C703_220.9 P90 BE90S4	C703_220.9 P90 BX90S4	184
6.6	1448	1.1	217.4	16000	C614_217.4 S3 ME3SA4	C614_217.4 S3 MX3SA4	179	C614_217.4 P90 BE90S4	C614_217.4 P90 BX90S4	180
6.6	1485	2.7	215.8	35000	C803_215.8 S3 ME3SA4	C803_215.8 S3 MX3SA4	186	C803_215.8 P90 BE90S4	C803_215.8 P90 BX90S4	187
7.2	1362	2.8	197.9	35000	C803_197.9 S3 ME3SA4	C803_197.9 S3 MX3SA4	186	C803_197.9 P90 BE90S4	C803_197.9 P90 BX90S4	187
7.3	1304	1.2	195.8	16000	C613_195.8 S3 ME3SA4	C613_195.8 S3 MX3SA4	179	C613_195.8 P90 BE90S4	C613_195.8 P90 BX90S4	180
7.4	1336	1.7	194.1	25000	C703_194.1 S3 ME3SA4	C703_194.1 S3 MX3SA4	183	C703_194.1 P90 BE90S4	C703_194.1 P90 BX90S4	184
8.0	1233	1.9	179.2	25000	C703_179.2 S3 ME3SA4	C703_179.2 S3 MX3SA4	183	C703_179.2 P90 BE90S4	C703_179.2 P90 BX90S4	184
8.0	1189	1.3	178.6	16000	C613_178.6 S3 ME3SA4	C613_178.6 S3 MX3SA4	179	C613_178.6 P90 BE90S4	C613_178.6 P90 BX90S4	180
8.5	1163	3.4	169.0	35000	C803_169.0 S3 ME3SA4	C803_169.0 S3 MX3SA4	186	C803_169.0 P90 BE90S4	C803_169.0 P90 BX90S4	187
8.7	1095	1.5	164.5	16000	C613_164.5 S3 ME3SA4	C613_164.5 S3 MX3SA4	179	C613_164.5 P90 BE90S4	C613_164.5 P90 BX90S4	180
8.8	1121	2.1	162.8	25000	C703_162.8 S3 ME3SA4	C703_162.8 S3 MX3SA4	183	C703_162.8 P90 BE90S4	C703_162.8 P90 BX90S4	184
8.9	1105	0.9	160.5	10000	C513_160.5 S3 ME3SA4	C513_160.5 S3 MX3SA4	175	C513_160.5 P90 BE90S4	C513_160.5 P90 BX90S4	176
9.5	1034	2.2	150.3	25000	C703_150.3 S3 ME3SA4	C703_150.3 S3 MX3SA4	183	C703_150.3 P90 BE90S4	C703_150.3 P90 BX90S4	184
9.5	999	1.6	150.0	16000	C613_150.0 S3 ME3SA4	C613_150.0 S3 MX3SA4	179	C613_150.0 P90 BE90S4	C613_150.0 P90 BX90S4	180
9.7	1015	1.0	147.4	10000	C513_147.4 S3 ME3SA4	C513_147.4 S3 MX3SA4	175	C513_147.4 P90 BE90S4	C513_147.4 P90 BX90S4	176
10.2	935	1.7	140.5	16000	C613_140.5 S3 ME3SA4	C613_140.5 S3 MX3SA4	179	C613_140.5 P90 BE90S4	C613_140.5 P90 BX90S4	180
10.4	946	2.4	137.4	25000	C703_137.4 S3 ME3SA4	C703_137.4 S3 MX3SA4	183	C703_137.4 P90 BE90S4	C703_137.4 P90 BX90S4	184
10.6	926	1.1	134.6	10000	C513_134.6 S3 ME3SA4	C513_134.6 S3 MX3SA4	175	C513_134.6 P90 BE90S4	C513_134.6 P90 BX90S4	176
11.2	853	1.9	128.1	16000	C613_128.1 S3 ME3SA4	C613_128.1 S3 MX3SA4	179	C613_128.1 P90 BE90S4	C613_128.1 P90 BX90S4	180
11.3	873	2.6	126.8	25000	C703_126.8 S3 ME3SA4	C703_126.8 S3 MX3SA4	183	C703_126.8 P90 BE90S4	C703_126.8 P90 BX90S4	184
11.5	856	1.2	124.4	10000	C513_124.4 S3 ME3SA4	C513_124.4 S3 MX3SA4	175	C513_124.4 P90 BE90S4	C513_124.4 P90 BX90S4	176
12.6	757	2.1	113.6	16000	C613_113.6 S3 ME3SA4	C613_113.6 S3 MX3SA4	179	C613_113.6 P90 BE90S4	C613_113.6 P90 BX90S4	180
12.6	782	1.3	113.6	10000	C513_113.6 S3 ME3SA4	C513_113.6 S3 MX3SA4	175	C513_113.6 P90 BE90S4	C513_113.6 P90 BX90S4	176
12.7	774	3.0	112.4	25000	C703_112.4 S3 ME3SA4	C703_112.4 S3 MX3SA4	183	C703_112.4 P90 BE90S4	C703_112.4 P90 BX90S4	184
13.8	690	2.3	103.6	16000	C613_103.6 S3 ME3SA4	C613_103.6 S3 MX3SA4	179	C613_103.6 P90 BE90S4	C613_103.6 P90 BX90S4	180
14.0	701	1.4	101.8	10000	C513_101.8 S3 ME3SA4	C513_101.8 S3 MX3SA4	175	C513_101.8 P90 BE90S4	C513_101.8 P90 BX90S4	176
15.3	642	0.9	93.3	7000	C413_93.3 S3 ME3SA4	C413_93.3 S3 MX3SA4	171	C413_93.3 P90 BE90S4	C413_93.3 P90 BX90S4	172
15.4	640	1.6	93.0	10000	C513_93.0 S3 ME3SA4	C513_93.0 S3 MX3SA4	175	C513_93.0 P90 BE90S4	C513_93.0 P90 BX90S4	176
15.7	606	2.6	91.0	16000	C613_91.0 S3 ME3SA4	C613_91.0 S3 MX3SA4	179	C613_91.0 P90 BE90S4	C613_91.0 P90 BX90S4	180
17.2	553	2.9	83.0	16000	C613_83.0 S3 ME3SA4	C613_83.0 S3 MX3SA4	179	C613_83.0 P90 BE90S4	C613_83.0 P90 BX90S4	180
17.5	561	1.1	81.5	7000	C413_81.5 S3 ME3SA4	C413_81.5 S3 MX3SA4	171	C413_81.5 P90 BE90S4	C413_81.5 P90 BX90S4	172
17.9	550	1.8	79.9	10000	C513_79.9 S3 ME3SA4	C513_79.9 S3 MX3SA4	175	C513_79.9 P90 BE90S4	C513_79.9 P90 BX90S4	176
19.2	512	1.2	74.4	7000	C413_74.4 S3 ME3SA4	C413_74.4 S3 MX3SA4	171	C413_74.4 P90 BE90S4	C413_74.4 P90 BX90S4	172
19.3	494	3.2	74.2	16000	C613_74.2 S3 ME3SA4	C613_74.2 S3 MX3SA4	179	C613_74.2 P90 BE90S4	C613_74.2 P90 BX90S4	180
19.6	502	2.0	72.9	10000	C513_72.9 S3 ME3SA4	C513_72.9 S3 MX3SA4	175	C513_72.9 P90 BE90S4	C513_72.9 P90 BX90S4	176
20.2	487	0.9	70.8	6500	C363_70.8 S3 ME3SA4	C363_70.8 S3 MX3SA4	167	C363_70.8 P90 BE90S4	C363_70.8 P90 BX90S4	168
21.1	451	3.5	67.7	16000	C613_67.7 S3 ME3SA4	C613_67.7 S3 MX3SA4	179	C613_67.7 P90 BE90S4	C613_67.7 P90 BX90S4	180
22.1	445	2.2	64.6	10000	C513_64.6 S3 ME3SA4	C513_64.6 S3 MX3SA4	175	C513_64.6 P90 BE90S4	C513_64.6 P90 BX90S4	176
22.2	442	1.4	64.3	7000	C413_64.3 S3 ME3SA4	C413_64.3 S3 MX3SA4	171	C413_64.3 P90 BE90S4	C413_64.3 P90 BX90S4	172
23.1	427	1.1	62.0	6500	C363_62.0 S3 ME3SA4	C363_62.0 S3 MX3SA4	167	C363_62.0 P90 BE90S4	C363_62.0 P90 BX90S4	168
24.2	406	2.5	59.0	10000	C513_59.0 S3 ME3SA4	C513_59.0 S3 MX3SA4	175	C513_59.0 P90 BE90S4	C513_59.0 P90 BX90S4	176
24.4	404	1.5	58.7	7000	C413_58.7 S3 ME3SA4	C413_58.7 S3 MX3SA4	171	C413_58.7 P90 BE90S4	C413_58.7 P90 BX90S4	172
25.1	401	2.0	57.0	10000	C512_57.0 S3 ME3SA4	C512_57.0 S3 MX3SA4	175	C512_57.0 P90 BE90S4	C512_57.0 P90 BX90S4	176
25.5	387	1.2	56.2	6500	C363_56.2 S3 ME3SA4	C363_56.2 S3 MX3SA4	167	C363_56.2 P90 BE90S4	C363_56.2 P90 BX90S4	168
27.8	354	1.7	51.5	7000	C413_51.5 S3 ME3SA4	C413_51.5 S3 MX3SA4	171	C413_51.5 P90 BE90S4	C413_51.5 P90 BX90S4	172
27.8	361	1.9	51.4	10000	C512_51.4 S3 ME3SA4	C512_51.4 S3 MX3SA4	175	C512_51.4 P90 BE90S4	C512_51.4 P90 BX90S4	176
27.9	352	2.8	51.2	10000	C513_51.2 S3 ME3SA4	C513_51.2 S3 MX3SA4	175	C513_51.2 P90 BE90S4	C513_51.2 P90 BX90S4	176
29.7	331	1.4	48.2	6500	C363_48.2 S3 ME3SA4	C363_48.2 S3 MX3SA4	167	C363_48.2 P90 BE90S4	C363_48.2 P90 BX90S4	168
29.9	336	2.4	47.8	10000	C512_47.8 S3 ME3SA4	C512_47.8 S3 MX3SA4	175	C512_47.8 P90 BE90S4	C512_47.8 P90 BX90S4	176
30	323	1.9	47.0	7000	C413_47.0 S3 ME3SA4	C413_47.0 S3 MX3SA4	171	C413_47.0 P90 BE90S4	C413_47.0 P90 BX90S4	172



1.1 kW

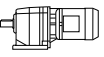
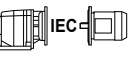
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
					IE2	IE3	IE2	IE3
31	322	3.1	46.7	10000	C513_46.7 S3 ME3SA4	C513_46.7 S3 MX3SA4	175 C513_46.7 P90 BE90S4	C513_46.7 P90 BX90S4
32	318	0.9	45.3	5500	C322_45.3 S3 ME3SA4	C322_45.3 S3 MX3SA4	163 C322_45.3 P90 BE90S4	C322_45.3 P90 BX90S4
32	315	1.6	44.8	7000	C412_44.8 S3 ME3SA4	C412_44.8 S3 MX3SA4	171 C412_44.8 P90 BE90S4	C412_44.8 P90 BX90S4
33	299	1.5	43.5	6500	C363_43.5 S3 ME3SA4	C363_43.5 S3 MX3SA4	167 C363_43.5 P90 BE90S4	C363_43.5 P90 BX90S4
33	303	2.5	43.1	10000	C512_43.1 S3 ME3SA4	C512_43.1 S3 MX3SA4	175 C512_43.1 P90 BE90S4	C512_43.1 P90 BX90S4
35	286	1.0	40.7	5500	C322_40.7 S3 ME3SA4	C322_40.7 S3 MX3SA4	163 C322_40.7 P90 BE90S4	C322_40.7 P90 BX90S4
35	284	2.8	40.4	10000	C512_40.4 S3 ME3SA4	C512_40.4 S3 MX3SA4	175 C512_40.4 P90 BE90S4	C512_40.4 P90 BX90S4
35	278	2.2	40.3	7000	C413_40.3 S3 ME3SA4	C413_40.3 S3 MX3SA4	171 C413_40.3 P90 BE90S4	C413_40.3 P90 BX90S4
38	262	1.7	38.1	6500	C363_38.1 S3 ME3SA4	C363_38.1 S3 MX3SA4	167 C363_38.1 P90 BE90S4	C363_38.1 P90 BX90S4
39	261	1.9	37.1	7000	C412_37.1 S3 ME3SA4	C412_37.1 S3 MX3SA4	171 C412_37.1 P90 BE90S4	C412_37.1 P90 BX90S4
39	256	3.1	36.4	10000	C512_36.4 S3 ME3SA4	C512_36.4 S3 MX3SA4	175 C512_36.4 P90 BE90S4	C512_36.4 P90 BX90S4
40	254	1.2	36.1	5500	C322_36.1 S3 ME3SA4	C322_36.1 S3 MX3SA4	163 C322_36.1 P90 BE90S4	C322_36.1 P90 BX90S4
41	238	1.9	34.6	6300	C363_34.6 S3 ME3SA4	C363_34.6 S3 MX3SA4	167 C363_34.6 P90 BE90S4	C363_34.6 P90 BX90S4
43	235	2.1	33.4	7000	C412_33.4 S3 ME3SA4	C412_33.4 S3 MX3SA4	171 C412_33.4 P90 BE90S4	C412_33.4 P90 BX90S4
43	233	1.3	33.1	5420	C322_33.1 S3 ME3SA4	C322_33.1 S3 MX3SA4	163 C322_33.1 P90 BE90S4	C322_33.1 P90 BX90S4
45	221	2.3	31.4	7000	C412_31.4 S3 ME3SA4	C412_31.4 S3 MX3SA4	171 C412_31.4 P90 BE90S4	C412_31.4 P90 BX90S4
48	209	1.4	29.8	5360	C322_29.8 S3 ME3SA4	C322_29.8 S3 MX3SA4	163 C322_29.8 P90 BE90S4	C322_29.8 P90 BX90S4
48	208	1.0	29.6	3190	C222_29.6 S3 ME3SA4	C222_29.6 S3 MX3SA4	159 C222_29.6 P90 BE90S4	C222_29.6 P90 BX90S4
50	198	2.3	28.7	6190	C363_28.7 S3 ME3SA4	C363_28.7 S3 MX3SA4	167 C363_28.7 P90 BE90S4	C363_28.7 P90 BX90S4
51	199	2.5	28.3	7000	C412_28.3 S3 ME3SA4	C412_28.3 S3 MX3SA4	171 C412_28.3 P90 BE90S4	C412_28.3 P90 BX90S4
53	191	1.0	27.2	3160	C222_27.2 S3 ME3SA4	C222_27.2 S3 MX3SA4	159 C222_27.2 P90 BE90S4	C222_27.2 P90 BX90S4
53	189	1.6	26.9	5220	C322_26.9 S3 ME3SA4	C322_26.9 S3 MX3SA4	163 C322_26.9 P90 BE90S4	C322_26.9 P90 BX90S4
55	180	2.4	26.2	5930	C363_26.2 S3 ME3SA4	C363_26.2 S3 MX3SA4	167 C363_26.2 P90 BE90S4	C363_26.2 P90 BX90S4
57	177	1.7	25.1	5180	C322_25.1 S3 ME3SA4	C322_25.1 S3 MX3SA4	163 C322_25.1 P90 BE90S4	C322_25.1 P90 BX90S4
57	176	2.8	25.0	6950	C412_25.0 S3 ME3SA4	C412_25.0 S3 MX3SA4	171 C412_25.0 P90 BE90S4	C412_25.0 P90 BX90S4
59	171	1.2	24.3	3150	C222_24.3 S3 ME3SA4	C222_24.3 S3 MX3SA4	159 C222_24.3 P90 BE90S4	C222_24.3 P90 BX90S4
62	161	1.8	22.9	5050	C322_22.9 S3 ME3SA4	C322_22.9 S3 MX3SA4	163 C322_22.9 P90 BE90S4	C322_22.9 P90 BX90S4
63	159	3.2	22.6	6810	C412_22.6 S3 ME3SA4	C412_22.6 S3 MX3SA4	171 C412_22.6 P90 BE90S4	C412_22.6 P90 BX90S4
65	152	2.8	22.1	5680	C363_22.1 S3 ME3SA4	C363_22.1 S3 MX3SA4	167 C363_22.1 P90 BE90S4	C363_22.1 P90 BX90S4
67	151	1.3	21.5	3120	C222_21.5 S3 ME3SA4	C222_21.5 S3 MX3SA4	159 C222_21.5 P90 BE90S4	C222_21.5 P90 BX90S4
71	141	2.1	20.1	4920	C322_20.1 S3 ME3SA4	C322_20.1 S3 MX3SA4	163 C322_20.1 P90 BE90S4	C322_20.1 P90 BX90S4
71	141	1.3	20.0	3080	C222_20.0 S3 ME3SA4	C222_20.0 S3 MX3SA4	159 C222_20.0 P90 BE90S4	C222_20.0 P90 BX90S4
75	134	2.8	19.0	5580	C362_19.0 S3 ME3SA4	C362_19.0 S3 MX3SA4	167 C362_19.0 P90 BE90S4	C362_19.0 P90 BX90S4
79	128	2.2	18.2	4760	C322_18.2 S3 ME3SA4	C322_18.2 S3 MX3SA4	163 C322_18.2 P90 BE90S4	C322_18.2 P90 BX90S4
79	127	1.4	18.1	3020	C222_18.1 S3 ME3SA4	C222_18.1 S3 MX3SA4	159 C222_18.1 P90 BE90S4	C222_18.1 P90 BX90S4
83	121	3.1	17.2	5300	C362_17.2 S3 ME3SA4	C362_17.2 S3 MX3SA4	167 C362_17.2 P90 BE90S4	C362_17.2 P90 BX90S4
90	111	1.6	15.8	2970	C222_15.8 S3 ME3SA4	C222_15.8 S3 MX3SA4	159 C222_15.8 P90 BE90S4	C222_15.8 P90 BX90S4
92	110	2.5	15.6	4630	C322_15.6 S3 ME3SA4	C322_15.6 S3 MX3SA4	163 C322_15.6 P90 BE90S4	C322_15.6 P90 BX90S4
98	102	1.6	14.5	2940	C222_14.5 S3 ME3SA4	C222_14.5 S3 MX3SA4	159 C222_14.5 P90 BE90S4	C222_14.5 P90 BX90S4
102	99	2.5	14.1	4480	C322_14.1 S3 ME3SA4	C322_14.1 S3 MX3SA4	163 C322_14.1 P90 BE90S4	C322_14.1 P90 BX90S4
115	87	1.8	12.4	2840	C222_12.4 S3 ME3SA4	C222_12.4 S3 MX3SA4	159 C222_12.4 P90 BE90S4	C222_12.4 P90 BX90S4
116	87	2.8	12.3	4350	C322_12.3 S3 ME3SA4	C322_12.3 S3 MX3SA4	163 C322_12.3 P90 BE90S4	C322_12.3 P90 BX90S4
128	79	2.9	11.2	4200	C322_11.2 S3 ME3SA4	C322_11.2 S3 MX3SA4	163 C322_11.2 P90 BE90S4	C322_11.2 P90 BX90S4
129	78	2.0	11.1	2800	C222_11.1 S3 ME3SA4	C222_11.1 S3 MX3SA4	159 C222_11.1 P90 BE90S4	C222_11.1 P90 BX90S4
142	71	0.9	10.1	1400	C122_10.1 S3 ME3SA4	C122_10.1 S3 MX3SA4	155 C122_10.1 P90 BE90S4	C122_10.1 P90 BX90S4
148	68	2.1	9.6	2700	C222_9.6 S3 ME3SA4	C222_9.6 S3 MX3SA4	159 C222_9.6 P90 BE90S4	C222_9.6 P90 BX90S4
154	65	3.4	9.3	4030	C322_6.3 S3 ME3SA4	C322_6.3 S3 MX3SA4	163 C322_6.3 P90 BE90S4	C322_6.3 P90 BX90S4
162	62	1.0	8.8	1560	C122_8.8 S3 ME3SA4	C122_8.8 S3 MX3SA4	155 C122_8.8 P90 BE90S4	C122_8.8 P90 BX90S4
165	61	2.3	8.7	2630	C222_8.7 S3 ME3SA4	C222_8.7 S3 MX3SA4	159 C222_8.7 P90 BE90S4	C222_8.7 P90 BX90S4
188	54	1.0	7.6	1550	C122_7.6 S3 ME3SA4	C122_7.6 S3 MX3SA4	155 C122_7.6 P90 BE90S4	C122_7.6 P90 BX90S4
202	50	2.6	7.1	2510	C222_7.1 S3 ME3SA4	C222_7.1 S3 MX3SA4	159 C222_7.1 P90 BE90S4	C222_7.1 P90 BX90S4
229	44	1.2	6.2	1220	C122_6.2 S3 ME3SA4	C122_6.2 S3 MX3SA4	155 C122_6.2 P90 BE90S4	C122_6.2 P90 BX90S4
235	43	2.5	6.1	2380	C222_6.1 S3 ME3SA4	C222_6.1 S3 MX3SA4	159 C222_6.1 P90 BE90S4	C222_6.1 P90 BX90S4
238	42	1.6	11.9	1420	C122_11.9 S2 ME2SB2		155 C122_11.9 P80 BE80B2	
255	39	3.9	11.1	2980	C222_11.1 S2 ME2SB2		159 C222_11.1 P80 BE80B2	
255	39	1.3	5.6	1270	C122_5.6 S3 ME3SA4	C122_5.6 S3 MX3SA4	155 C122_5.6 P90 BE90S4	C122_5.6 P90 BX90S4
256	39	2.6	5.6	2350	C222_5.6 S3 ME3SA4	C222_5.6 S3 MX3SA4	159 C222_5.6 P90 BE90S4	C222_5.6 P90 BX90S4
259	39	1.1	3.7	1320	C122_3.7 S3 ME3LA6		155 C122_3.7 P100 BE100M6	
281	35	1.8	10.1	1420	C122_10.1 S2 ME2SB2		155 C122_10.1 P80 BE80B2	
294	34	1.4	4.9	1370	C122_4.9 S3 ME3SA4	C122_4.9 S3 MX3SA4	155 C122_4.9 P90 BE90S4	C122_4.9 P90 BX90S4
300	34	3.0	4.8	2240	C222_4.8 S3 ME3SA4	C222_4.8 S3 MX3SA4	159 C222_4.8 P90 BE90S4	C222_4.8 P90 BX90S4
320	31	1.9	8.8	1370	C122_8.8 S2 ME2SB2		155 C122_8.8 P80 BE80B2	
332	30	1.5	4.3	1320	C122_4.3 S3 ME3SA4	C122_4.3 S3 MX3SA4	155 C122_4.3 P90 BE90S4	C122_4.3 P90 BX90S4
336	30	3.1	4.3	2200	C222_4.3 S3 ME3SA4	C222_4.3 S3 MX3SA4	159 C222_4.3 P90 BE90S4	C222_4.3 P90 BX90S4
341	29	1.3	2.8	1320	C122_2.8 S3 M3SA6		155 C122_2.8 P90 BN90L6	

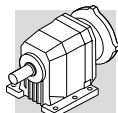


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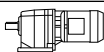
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
					IE2	IE3	IE2	IE3
347	29	2.8	2.7	2160	C222_2.7 S3 M3SA6	C222_3.7 S3 MX3SA4	159 C222_2.7 P90 BN90L6	160
371	27	2.1	7.6	1330	C122_7.6 S2 ME2SB2		155 C122_7.6 P80 BE80B2	156
386	26	3.5	3.7	2090	C222_3.7 S3 ME3SA4		159 C222_3.7 P90 BE90S4	160
392	26	1.6	3.7	1280	C122_3.7 S3 ME3SA4		155 C122_3.7 P90 BE90S4	156
446	23	1.8	3.2	1230	C122_3.2 S3 ME3SA4	C122_3.2 S3 MX3SA4	155 C122_3.2 P90 BE90S4	156
454	22	2.4	6.2	1230	C122_6.2 S2 ME2SB2	C122_2.8 S3 MX3SA4	155 C122_6.2 P80 BE80B2	156
505	20	2.6	5.6	1190	C122_5.6 S2 ME2SB2		155 C122_5.6 P80 BE80B2	156
517	19	1.9	2.8	1190	C122_2.8 S3 ME3SA4		155 C122_2.8 P90 BE90S4	156
581	17	2.8	4.9	1150	C122_4.9 S2 ME2SB2		155 C122_4.9 P80 BE80B2	156
656	15	3.0	4.3	1110	C122_4.3 S2 ME2SB2		155 C122_4.3 P80 BE80B2	156
775	13	3.3	3.7	1070	C122_3.7 S2 ME2SB2		155 C122_3.7 P80 BE80B2	156
882	11	3.5	3.2	1020	C122_3.2 S2 ME2SB2		155 C122_3.2 P80 BE80B2	156
1023	10	3.8	2.8	980	C122_2.8 S2 ME2SB2		155 C122_2.8 P80 BE80B2	156

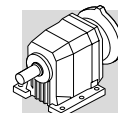
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IE3	 IE3	
1.3	7573	1.0	1137	60000		C904_1137 P90 BXN90S4		190
1.3	7200	1.7	1081	85000		C1004_1081 P90 BXN90S4		193
1.4	6701	1.1	1006	60000		C904_1006 P90 BXN90S4		190
1.4	6686	1.8	1004	85000		C1004_1004 P90 BXN90S4		193
1.6	6143	1.2	922.3	60000		C904_922.3 P90 BXN90S4		190
1.6	6049	2.0	908.2	85000		C1004_908.2 P90 BXN90S4		193
1.7	5621	1.3	844.0	60000		C904_844.0 P90 BXN90S4		190
1.7	5617	2.1	843.3	85000		C1004_843.3 P90 BXN90S4		193
1.8	5166	2.3	775.7	85000		C1004_775.7 P90 BXN90S4		193
1.8	5152	1.4	773.6	60000		C904_773.6 P90 BXN90S4		190
2.0	4797	2.5	720.3	85000		C1004_720.3 P90 BXN90S4		193
2.0	4743	1.5	712.2	60000		C904_712.2 P90 BXN90S4		190
2.2	4424	0.9	664.3	35000		C804_664.3 P90 BXN90S4		187
2.2	4348	1.7	652.8	60000		C904_652.8 P90 BXN90S4		190
2.3	4179	2.9	627.4	85000		C1004_627.4 P90 BXN90S4		193
2.5	3881	1.9	582.8	60000		C904_582.8 P90 BXN90S4		190
2.5	3845	1.0	577.4	35000		C804_577.4 P90 BXN90S4		187
2.7	3558	2.0	534.2	60000		C904_534.2 P90 BXN90S4		190
2.7	3525	1.1	529.3	35000		C804_529.3 P90 BXN90S4		187
3.1	3045	2.4	457.1	60000		C904_457.1 P90 BXN90S4		190
3.1	3033	1.3	455.4	35000		C804_455.4 P90 BXN90S4		187
3.4	2791	2.6	419.0	60000		C904_419.0 P90 BXN90S4		190
3.4	2780	1.4	417.5	35000		C804_417.5 P90 BXN90S4		187
3.9	2463	2.9	369.8	60000		C904_369.8 P90 BXN90S4		190
3.9	2429	1.6	364.7	35000		C804_364.7 P90 BXN90S4		187
4.2	2293	1.0	344.3	25000		C704_344.3 P90 BXN90S4		184
4.3	2226	1.8	334.3	35000		C804_334.3 P90 BXN90S4		187
4.5	2117	1.1	317.9	25000		C704_317.9 P90 BXN90S4		184
4.7	2010	0.8	301.7	16000		C614_301.7 P90 BXN90S4		180
5.0	1903	2.1	285.7	35000		C804_285.7 P90 BXN90S4		187
5.2	1833	0.9	275.3	16000		C614_275.3 P90 BXN90S4		180
5.3	1813	1.3	272.2	25000		C704_272.2 P90 BXN90S4		184
5.5	1744	2.3	261.9	35000		C804_261.9 P90 BXN90S4		187
5.7	1674	1.4	251.3	25000		C704_251.3 P90 BXN90S4		184
6.0	1647	1.4	239.3	25000		C703_239.3 P90 BXN90S4		184
6.0	1587	1.0	238.3	16000		C614_238.3 P90 BXN90S4		180
6.5	1520	1.5	220.9	25000		C703_220.9 P90 BXN90S4		184

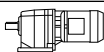


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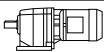
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IE3
6.6	1448	1.1	217.4	16000		C614_217.4 P90 BXN90S4 180
6.6	1485	2.7	215.8	35000		C803_215.8 P90 BXN90S4 187
7.2	1362	2.8	197.9	35000		C803_197.9 P90 BXN90S4 187
7.3	1304	1.2	195.8	16000		C613_195.8 P90 BXN90S4 180
7.4	1336	1.7	194.1	25000		C703_194.1 P90 BXN90S4 184
8.0	1233	1.9	179.2	25000		C703_179.2 P90 BXN90S4 184
8.0	1189	1.3	178.6	16000		C613_178.6 P90 BXN90S4 180
8.5	1163	3.4	169.0	35000		C803_169.0 P90 BXN90S4 187
8.7	1095	1.5	164.5	16000		C613_164.5 P90 BXN90S4 180
8.8	1121	2.1	162.8	25000		C703_162.8 P90 BXN90S4 184
8.9	1105	0.9	160.5	10000		C513_160.5 P90 BXN90S4 176
9.5	1034	2.2	150.3	25000		C703_150.3 P90 BXN90S4 184
9.5	999	1.6	150.0	16000		C613_150.0 P90 BXN90S4 180
9.7	1015	1.0	147.4	10000		C513_147.4 P90 BXN90S4 176
10.2	935	1.7	140.5	16000		C613_140.5 P90 BXN90S4 180
10.4	946	2.4	137.4	25000		C703_137.4 P90 BXN90S4 184
10.6	926	1.1	134.6	10000		C513_134.6 P90 BXN90S4 176
11.2	853	1.9	128.1	16000		C613_128.1 P90 BXN90S4 180
11.3	873	2.6	126.8	25000		C703_126.8 P90 BXN90S4 184
11.5	856	1.2	124.4	10000		C513_124.4 P90 BXN90S4 176
12.6	757	2.1	113.6	16000		C613_113.6 P90 BXN90S4 180
12.6	782	1.3	113.6	10000		C513_113.6 P90 BXN90S4 176
12.7	774	3.0	112.4	25000		C703_112.4 P90 BXN90S4 184
13.8	690	2.3	103.6	16000		C613_103.6 P90 BXN90S4 180
14.0	701	1.4	101.8	10000		C513_101.8 P90 BXN90S4 176
15.3	642	0.9	93.3	7000		C413_93.3 P90 BXN90S4 172
15.4	640	1.6	93.0	10000		C513_93.0 P90 BXN90S4 176
15.7	606	2.6	91.0	16000		C613_91.0 P90 BXN90S4 180
17.2	553	2.9	83.0	16000		C613_83.0 P90 BXN90S4 180
17.5	561	1.1	81.5	7000		C413_81.5 P90 BXN90S4 172
17.9	550	1.8	79.9	10000		C513_79.9 P90 BXN90S4 176
19.2	512	1.2	74.4	7000		C413_74.4 P90 BXN90S4 172
19.3	494	3.2	74.2	16000		C613_74.2 P90 BXN90S4 180
19.6	502	2.0	72.9	10000		C513_72.9 P90 BXN90S4 176
20.2	487	0.9	70.8	6500		C363_70.8 P90 BXN90S4 168
21.1	451	3.5	67.7	16000		C613_67.7 P90 BXN90S4 180
22.1	445	2.2	64.6	10000		C513_64.6 P90 BXN90S4 176
22.2	442	1.4	64.3	7000		C413_64.3 P90 BXN90S4 172
23.1	427	1.1	62.0	6500		C363_62.0 P90 BXN90S4 168
24.2	406	2.5	59.0	10000		C513_59.0 P90 BXN90S4 176
24.4	404	1.5	58.7	7000		C413_58.7 P90 BXN90S4 172
25.1	401	2.0	57.0	10000		C512_57.0 P90 BXN90S4 176
25.5	387	1.2	56.2	6500		C363_56.2 P90 BXN90S4 168
27.8	354	1.7	51.5	7000		C413_51.5 P90 BXN90S4 172
27.8	361	1.9	51.4	10000		C512_51.4 P90 BXN90S4 176
27.9	352	2.8	51.2	10000		C513_51.2 P90 BXN90S4 176
29.7	331	1.4	48.2	6500		C363_48.2 P90 BXN90S4 168
29.9	336	2.4	47.8	10000		C512_47.8 P90 BXN90S4 176
30	323	1.9	47.0	7000		C413_47.0 P90 BXN90S4 172
31	322	3.1	46.7	10000		C513_46.7 P90 BXN90S4 176
32	318	0.9	45.3	5500		C322_45.3 P90 BXN90S4 164
32	315	1.6	44.8	7000		C412_44.8 P90 BXN90S4 172
33	299	1.5	43.5	6500		C363_43.5 P90 BXN90S4 168
33	303	2.5	43.1	10000		C512_43.1 P90 BXN90S4 176
35	286	1.0	40.7	5500		C322_40.7 P90 BXN90S4 164
35	284	2.8	40.4	10000		C512_40.4 P90 BXN90S4 176
35	278	2.2	40.3	7000		C413_40.3 P90 BXN90S4 172
38	262	1.7	38.1	6500		C363_38.1 P90 BXN90S4 168
39	261	1.9	37.1	7000		C412_37.1 P90 BXN90S4 172
39	256	3.1	36.4	10000		C512_36.4 P90 BXN90S4 176
40	254	1.2	36.1	5500		C322_36.1 P90 BXN90S4 164
41	238	1.9	34.6	6300		C363_34.6 P90 BXN90S4 168
43	235	2.1	33.4	7000		C412_33.4 P90 BXN90S4 172
43	233	1.3	33.1	5420		C322_33.1 P90 BXN90S4 164
45	221	2.3	31.4	7000		C412_31.4 P90 BXN90S4 172

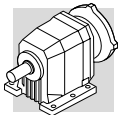


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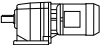
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48	209	1.4	29.8	5360		C322_29.8 P90 BXN90S4 164
48	208	1.0	29.6	3190		C222_29.6 P90 BXN90S4 160
50	198	2.3	28.7	6190		C363_28.7 P90 BXN90S4 168
51	199	2.5	28.3	7000		C412_28.3 P90 BXN90S4 172
53	191	1.0	27.2	3160		C222_27.2 P90 BXN90S4 160
53	189	1.6	26.9	5220		C322_26.9 P90 BXN90S4 164
55	180	2.4	26.2	5930		C363_26.2 P90 BXN90S4 168
57	177	1.7	25.1	5180		C322_25.1 P90 BXN90S4 164
57	176	2.8	25.0	6950		C412_25.0 P90 BXN90S4 172
59	171	1.2	24.3	3150		C222_24.3 P90 BXN90S4 160
62	161	1.8	22.9	5050		C322_22.9 P90 BXN90S4 164
63	159	3.2	22.6	6810		C412_22.6 P90 BXN90S4 172
65	152	2.8	22.1	5680		C363_22.1 P90 BXN90S4 168
67	151	1.3	21.5	3120		C222_21.5 P90 BXN90S4 160
71	141	2.1	20.1	4920		C322_20.1 P90 BXN90S4 164
71	141	1.3	20.0	3080		C222_20.0 P90 BXN90S4 160
75	134	2.8	19.0	5580		C362_19.0 P90 BXN90S4 168
79	128	2.2	18.2	4760		C322_18.2 P90 BXN90S4 164
79	127	1.4	18.1	3020		C222_18.1 P90 BXN90S4 160
83	121	3.1	17.2	5300		C362_17.2 P90 BXN90S4 168
90	111	1.6	15.8	2970		C222_15.8 P90 BXN90S4 160
92	110	2.5	15.6	4630		C322_15.6 P90 BXN90S4 164
98	102	1.6	14.5	2940		C222_14.5 P90 BXN90S4 160
102	99	2.5	14.1	4480		C322_14.1 P90 BXN90S4 164
115	87	1.8	12.4	2840		C222_12.4 P90 BXN90S4 160
116	87	2.8	12.3	4350		C322_12.3 P90 BXN90S4 164
128	79	2.9	11.2	4200		C322_11.2 P90 BXN90S4 164
129	78	2.0	11.1	2800		C222_11.1 P90 BXN90S4 160
142	71	0.9	10.1	1400		C122_10.1 P90 BXN90S4 156
148	68	2.1	9.6	2700		C222_9.6 P90 BXN90S4 160
154	65	3.4	9.3	4030		C322_6.3 P90 BXN90S4 164
162	62	1.0	8.8	1560		C122_8.8 P90 BXN90S4 156
165	61	2.3	8.7	2630		C222_8.7 P90 BXN90S4 160
188	54	1.0	7.6	1550		C122_7.6 P90 BXN90S4 156
202	50	2.6	7.1	2510		C222_7.1 P90 BXN90S4 160
229	44	1.2	6.2	1220		C122_6.2 P90 BXN90S4 156
235	43	2.5	6.1	2380		C222_6.1 P90 BXN90S4 160
255	39	1.3	5.6	1270		C122_5.6 P90 BXN90S4 156
256	39	2.6	5.6	2350		C222_5.6 P90 BXN90S4 160
294	34	1.4	4.9	1370		C122_4.9 P90 BXN90S4 156
300	34	3.0	4.8	2240		C222_4.8 P90 BXN90S4 160
332	30	1.5	4.3	1320		C122_4.3 P90 BXN90S4 156
336	30	3.1	4.3	2200		C222_4.3 P90 BXN90S4 160
386	26	3.5	3.7	2090		C222_3.7 P90 BXN90S4 160
392	26	1.6	3.7	1280		C122_3.7 P90 BXN90S4 156
446	23	1.8	3.2	1230		C122_3.2 P90 BXN90S4 156
517	19	1.9	2.8	1190		C122_2.8 P90 BXN90S4 156

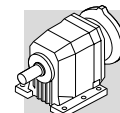
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE2	 IE3	 IE2	 IE3
1.0	12390	1.0	908.2	85000	C1004_908.2 S3 ME3LB6	192	C1004_908.2 P100 BE100LA6	193
1.3	9730	1.2	1081	85000	C1004_1081 S3 ME3SB4	192	C1004_1081 P90 BE90LA4	193
1.4	9035	1.3	1004	85000	C1004_1004 S3 ME3SB4	192	C1004_1004 P90 BE90LA4	193
1.6	8174	1.5	908.2	85000	C1004_908.2 S3 ME3SB4	192	C1004_908.2 P90 BE90LA4	193
1.7	7596	0.9	844.0	60000	C904_844.0 S3 ME3SB4	189	C904_844.0 P90 BE90LA4	190
1.7	7590	1.6	843.3	85000	C1004_843.3 S3 ME3SB4	192	C1004_843.3 P90 BE90LA4	193
1.8	6981	1.7	775.7	85000	C1004_775.7 S3 ME3SB4	192	C1004_775.7 P90 BE90LA4	193
1.8	6963	1.0	773.6	60000	C904_773.6 S3 ME3SB4	189	C904_773.6 P90 BE90LA4	190
2.0	6483	1.9	720.3	85000	C1004_720.3 S3 ME3SB4	192	C1004_720.3 P90 BE90LA4	193

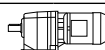


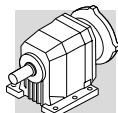
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				 IEC 		
					IE2	IE3		IE2	IE3	
2.0	6410	1.1	712.2	60000	C904_712.2 S3 ME3SB4	C904_712.2 S3 MX3SB4	189	C904_712.2 P90 BE90LA4	C904_712.2 P90 BX90LA4	190
2.2	5875	1.2	652.8	60000	C904_652.8 S3 ME3SB4	C904_652.8 S3 MX3SB4	189	C904_652.8 P90 BE90LA4	C904_652.8 P90 BX90LA4	190
2.3	5647	2.1	627.4	85000	C1004_627.4 S3 ME3SB4	C1004_627.4 S3 MX3SB4	192	C1004_627.4 P90 BE90LA4	C1004_627.4 P90 BX90LA4	193
2.5	5245	1.4	582.8	60000	C904_582.8 S3 ME3SB4	C904_582.8 S3 MX3SB4	189	C904_582.8 P90 BE90LA4	C904_582.8 P90 BX90LA4	190
2.5	5243	2.3	582.6	85000	C1004_582.6 S3 ME3SB4	C1004_582.6 S3 MX3SB4	192	C1004_582.6 P90 BE90LA4	C1004_582.6 P90 BX90LA4	193
2.7	4808	1.5	534.2	60000	C904_534.2 S3 ME3SB4	C904_534.2 S3 MX3SB4	189	C904_534.2 P90 BE90LA4	C904_534.2 P90 BX90LA4	190
2.8	4524	2.7	502.6	85000	C1004_502.6 S3 ME3SB4	C1004_502.6 S3 MX3SB4	192	C1004_502.6 P90 BE90LA4	C1004_502.6 P90 BX90LA4	193
3.1	4201	2.9	466.7	85000	C1004_466.7 S3 ME3SB4	C1004_466.7 S3 MX3SB4	192	C1004_466.7 P90 BE90LA4	C1004_466.7 P90 BX90LA4	193
3.1	4114	1.8	457.1	60000	C904_457.1 S3 ME3SB4	C904_457.1 S3 MX3SB4	189	C904_457.1 P90 BE90LA4	C904_457.1 P90 BX90LA4	190
3.1	4099	1.0	455.4	35000	C804_455.4 S3 ME3SB4	C804_455.4 S3 MX3SB4	186	C804_455.4 P90 BE90LA4	C804_455.4 P90 BX90LA4	187
3.4	3771	1.9	419.0	60000	C904_419.0 S3 ME3SB4	C904_419.0 S3 MX3SB4	189	C904_419.0 P90 BE90LA4	C904_419.0 P90 BX90LA4	190
3.4	3757	1.1	417.5	35000	C804_417.5 S3 ME3SB4	C804_417.5 S3 MX3SB4	186	C804_417.5 P90 BE90LA4	C804_417.5 P90 BX90LA4	187
3.9	3328	2.2	369.8	60000	C904_369.8 S3 ME3SB4	C904_369.8 S3 MX3SB4	189	C904_369.8 P90 BE90LA4	C904_369.8 P90 BX90LA4	190
3.9	3282	1.2	364.7	35000	C804_364.7 S3 ME3SB4	C804_364.7 S3 MX3SB4	186	C804_364.7 P90 BE90LA4	C804_364.7 P90 BX90LA4	187
4.2	3051	2.4	339.0	60000	C904_339.0 S3 ME3SB4	C904_339.0 S3 MX3SB4	189	C904_339.0 P90 BE90LA4	C904_339.0 P90 BX90LA4	190
4.3	3008	1.3	334.3	35000	C804_334.3 S3 ME3SB4	C804_334.3 S3 MX3SB4	186	C804_334.3 P90 BE90LA4	C804_334.3 P90 BX90LA4	187
4.9	2636	2.7	292.9	60000	C904_292.9 S3 ME3SB4	C904_292.9 S3 MX3SB4	189	C904_292.9 P90 BE90LA4	C904_292.9 P90 BX90LA4	190
5.0	2571	1.6	285.7	35000	C804_285.7 S3 ME3SB4	C804_285.7 S3 MX3SB4	186	C804_285.7 P90 BE90LA4	C804_285.7 P90 BX90LA4	187
5.3	2450	0.9	272.2	25000	C704_272.2 S3 ME3SB4	C704_272.2 S3 MX3SB4	183	C704_272.2 P90 BE90LA4	C704_272.2 P90 BX90LA4	184
5.3	2416	3.0	268.5	60000	C904_268.5 S3 ME3SB4	C904_268.5 S3 MX3SB4	189	C904_268.5 P90 BE90LA4	C904_268.5 P90 BX90LA4	190
5.5	2357	1.7	261.9	35000	C804_261.9 S3 ME3SB4	C804_261.9 S3 MX3SB4	186	C804_261.9 P90 BE90LA4	C804_261.9 P90 BX90LA4	187
5.7	2262	1.0	251.3	25000	C704_251.3 S3 ME3SB4	C704_251.3 S3 MX3SB4	183	C704_251.3 P90 BE90LA4	C704_251.3 P90 BX90LA4	184
6.0	2226	1.0	239.3	25000	C703_239.3 S3 ME3SB4	C703_239.3 S3 MX3SB4	183	C703_239.3 P90 BE90LA4	C703_239.3 P90 BX90LA4	184
6.5	2054	1.1	220.9	25000	C703_220.9 S3 ME3SB4	C703_220.9 S3 MX3SB4	183	C703_220.9 P90 BE90LA4	C703_220.9 P90 BX90LA4	184
6.6	1957	0.8	217.4	16000	C614_217.4 S3 ME3SB4	C614_217.4 S3 MX3SB4	179	C614_217.4 P90 BE90LA4	C614_217.4 P90 BX90LA4	180
6.6	2007	2.0	215.8	35000	C803_215.8 S3 ME3SB4	C803_215.8 S3 MX3SB4	186	C803_215.8 P90 BE90LA4	C803_215.8 P90 BX90LA4	187
7.2	1840	2.1	197.9	35000	C803_197.9 S3 ME3SB4	C803_197.9 S3 MX3SB4	186	C803_197.9 P90 BE90LA4	C803_197.9 P90 BX90LA4	187
7.3	1762	0.9	195.8	16000	C613_195.8 S3 ME3SB4	C613_195.8 S3 MX3SB4	179	C613_195.8 P90 BE90LA4	C613_195.8 P90 BX90LA4	180
7.4	1805	1.3	194.1	25000	C703_194.1 S3 ME3SB4	C703_194.1 S3 MX3SB4	183	C703_194.1 P90 BE90LA4	C703_194.1 P90 BX90LA4	184
7.8	1715	2.3	184.4	35000	C803_184.4 S3 ME3SB4	C803_184.4 S3 MX3SB4	186	C803_184.4 P90 BE90LA4	C803_184.4 P90 BX90LA4	187
8.0	1666	1.4	179.2	25000	C703_179.2 S3 ME3SB4	C703_179.2 S3 MX3SB4	183	C703_179.2 P90 BE90LA4	C703_179.2 P90 BX90LA4	184
8.0	1607	1.0	178.6	16000	C613_178.6 S3 ME3SB4	C613_178.6 S3 MX3SB4	179	C613_178.6 P90 BE90LA4	C613_178.6 P90 BX90LA4	180
8.5	1572	2.5	169.0	35000	C803_169.0 S3 ME3SB4	C803_169.0 S3 MX3SB4	186	C803_169.0 P90 BE90LA4	C803_169.0 P90 BX90LA4	187
8.7	1480	1.1	164.5	16000	C613_164.5 S3 ME3SB4	C613_164.5 S3 MX3SB4	179	C613_164.5 P90 BE90LA4	C613_164.5 P90 BX90LA4	180
8.8	1514	1.5	162.8	25000	C703_162.8 S3 ME3SB4	C703_162.8 S3 MX3SB4	183	C703_162.8 P90 BE90LA4	C703_162.8 P90 BX90LA4	184
9.5	1398	1.6	150.3	25000	C703_150.3 S3 ME3SB4	C703_150.3 S3 MX3SB4	183	C703_150.3 P90 BE90LA4	C703_150.3 P90 BX90LA4	184
9.5	1350	1.2	150.0	16000	C613_150.0 S3 ME3SB4	C613_150.0 S3 MX3SB4	179	C613_150.0 P90 BE90LA4	C613_150.0 P90 BX90LA4	180
9.6	1387	2.9	149.1	35000	C803_149.1 S3 ME3SB4	C803_149.1 S3 MX3SB4	186	C803_149.1 P90 BE90LA4	C803_149.1 P90 BX90LA4	187
10.2	1264	1.3	140.5	16000	C613_140.5 S3 ME3SB4	C613_140.5 S3 MX3SB4	179	C613_140.5 P90 BE90LA4	C613_140.5 P90 BX90LA4	180
10.4	1278	1.8	137.4	25000	C703_137.4 S3 ME3SB4	C703_137.4 S3 MX3SB4	183	C703_137.4 P90 BE90LA4	C703_137.4 P90 BX90LA4	184
10.5	1271	3.1	136.7	35000	C803_136.7 S3 ME3SB4	C803_136.7 S3 MX3SB4	186	C803_136.7 P90 BE90LA4	C803_136.7 P90 BX90LA4	187
11.2	1153	1.4	128.1	16000	C613_128.1 S3 ME3SB4	C613_128.1 S3 MX3SB4	179	C613_128.1 P90 BE90LA4	C613_128.1 P90 BX90LA4	180
11.3	1180	1.9	126.8	25000	C703_126.8 S3 ME3SB4	C703_126.8 S3 MX3SB4	183	C703_126.8 P90 BE90LA4	C703_126.8 P90 BX90LA4	184
12.6	1022	1.6	113.6	16000	C613_113.6 S3 ME3SB4	C613_113.6 S3 MX3SB4	179	C613_113.6 P90 BE90LA4	C613_113.6 P90 BX90LA4	180
12.6	1057	0.9	113.6	10000	C513_113.6 S3 ME3SB4	C513_113.6 S3 MX3SB4	175	C513_113.6 P90 BE90LA4	C513_113.6 P90 BX90LA4	176
12.7	1046	2.2	112.4	25000	C703_112.4 S3 ME3SB4	C703_112.4 S3 MX3SB4	183	C703_112.4 P90 BE90LA4	C703_112.4 P90 BX90LA4	184
13.8	965	2.4	103.8	25000	C703_103.8 S3 ME3SB4	C703_103.8 S3 MX3SB4	183	C703_103.8 P90 BE90LA4	C703_103.8 P90 BX90LA4	184
13.8	933	1.7	103.6	16000	C613_103.6 S3 ME3SB4	C613_103.6 S3 MX3SB4	179	C613_103.6 P90 BE90LA4	C613_103.6 P90 BX90LA4	180
14.0	947	1.1	101.8	10000	C513_101.8 S3 ME3SB4	C513_101.8 S3 MX3SB4	175	C513_101.8 P90 BE90LA4	C513_101.8 P90 BX90LA4	176
15.4	865	1.2	93.0	10000	C513_93.0 S3 ME3SB4	C513_93.0 S3 MX3SB4	175	C513_93.0 P90 BE90LA4	C513_93.0 P90 BX90LA4	176
15.7	819	2.0	91.0	16000	C613_91.0 S3 ME3SB4	C613_91.0 S3 MX3SB4	179	C613_91.0 P90 BE90LA4	C613_91.0 P90 BX90LA4	180
16.2	820	2.8	88.2	25000	C703_88.2 S3 ME3SB4	C703_88.2 S3 MX3SB4	183	C703_88.2 P90 BE90LA4	C703_88.2 P90 BX90LA4	184
16.6	821	1.0	57.0	10000	C512_57.0 S3 ME3LB6		175	C512_57.0 P100 BE100LA6		176
17.2	747	2.1	83.0	16000	C613_83.0 S3 ME3SB4	C613_83.0 S3 MX3SB4	179	C613_83.0 P90 BE90LA4	C613_83.0 P90 BX90LA4	180
17.6	757	3.0	81.4	25000	C703_81.4 S3 ME3SB4	C703_81.4 S3 MX3SB4	183	C703_81.4 P90 BE90LA4	C703_81.4 P90 BX90LA4	184
17.9	743	1.3	79.9	10000	C513_79.9 S3 ME3SB4	C513_79.9 S3 MX3SB4	175	C513_79.9 P90 BE90LA4	C513_79.9 P90 BX90LA4	176
18.4	740	0.9	51.4	10000	C512_51.4 S3 ME3LB6		175	C512_51.4 P100 BE100LA6		176
19.3	668	2.4	74.2	16000	C613_74.2 S3 ME3SB4	C613_74.2 S3 MX3SB4	179	C613_74.2 P90 BE90LA4	C613_74.2 P90 BX90LA4	180
19.6	678	1.5	72.9	10000	C513_72.9 S3 ME3SB4	C513_72.9 S3 MX3SB4	175	C513_72.9 P90 BE90LA4	C513_72.9 P90 BX90LA4	176
19.8	689	1.2	47.8	10000	C512_47.8 S3 ME3LB6		175	C512_47.8 P100 BE100LA6		176
20.0	663	3.5	71.3	25000	C703_71.3 S3 ME3SB4	C703_71.3 S3 MX3SB4	183	C703_71.3 P90 BE90LA4	C703_71.3 P90 BX90LA4	184
21.1	609	2.6	67.7	16000	C613_67.7 S3 ME3SB4	C613_67.7 S3 MX3SB4	179	C613_67.7 P90 BE90LA4	C613_67.7 P90 BX90LA4	180
21.9	621	1.2	43.1	10000	C512_43.1 S3 ME3LB6		175	C512_43.1 P100 BE100LA6		176
22.1	601	1.7	64.6	10000	C513_64.6 S3 ME3SB4	C513_64.6 S3 MX3SB4	175	C513_64.6 P90 BE90LA4	C513_64.6 P90 BX90LA4	176
22.2	598	1.0	64.3	7000	C413_64.3 S3 ME3SB4	C413_64.3 S3 MX3SB4	171	C413_64.3 P90 BE90LA4	C413_64.3 P90 BX90LA4	172

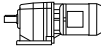


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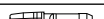
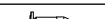
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
					IE2	IE3	IE2	IE3
24.2	549	1.8	59.0	10000	C513_59.0 S3 ME3SB4	C513_59.0 S3 MX3SB4	175 C513_59.0 P90 BE90LA4	C513_59.0 P90 BX90LA4
24.4	545	1.1	58.7	7000	C413_58.7 S3 ME3SB4	C413_58.7 S3 MX3SB4	171 C413_58.7 P90 BE90LA4	C413_58.7 P90 BX90LA4
24.4	527	3.0	58.6	16000	C613_58.6 S3 ME3SB4	C613_58.6 S3 MX3SB4	179 C613_58.6 P90 BE90LA4	C613_58.6 P90 BX90LA4
25.1	542	1.4	57.0	10000	C512_57.0 S3 ME3SB4	C512_57.0 S3 MX3SB4	175 C512_57.0 P90 BE90LA4	C512_57.0 P90 BX90LA4
26.7	481	3.3	53.5	16000	C613_53.5 S3 ME3SB4	C613_53.5 S3 MX3SB4	179 C613_53.5 P90 BE90LA4	C613_53.5 P90 BX90LA4
27.8	479	1.3	51.5	7000	C413_51.5 S3 ME3SB4	C413_51.5 S3 MX3SB4	171 C413_51.5 P90 BE90LA4	C413_51.5 P90 BX90LA4
27.8	488	1.4	51.4	10000	C512_51.4 S3 ME3SB4	C512_51.4 S3 MX3SB4	175 C512_51.4 P90 BE90LA4	C512_51.4 P90 BX90LA4
27.9	476	2.1	51.2	10000	C513_51.2 S3 ME3SB4	C513_51.2 S3 MX3SB4	175 C513_51.2 P90 BE90LA4	C513_51.2 P90 BX90LA4
29.7	448	1.0	48.2	6290	C363_48.2 S3 ME3SB4	C363_48.2 S3 MX3SB4	167 C363_48.2 P90 BE90LA4	C363_48.2 P90 BX90LA4
29.9	454	1.8	47.8	10000	C512_47.8 S3 ME3SB4	C512_47.8 S3 MX3SB4	175 C512_47.8 P90 BE90LA4	C512_47.8 P90 BX90LA4
30	437	1.4	47.0	7000	C413_47.0 S3 ME3SB4	C413_47.0 S3 MX3SB4	171 C413_47.0 P90 BE90LA4	C413_47.0 P90 BX90LA4
31	435	2.3	46.7	10000	C513_46.7 S3 ME3SB4	C513_46.7 S3 MX3SB4	175 C513_46.7 P90 BE90LA4	C513_46.7 P90 BX90LA4
32	425	1.2	44.8	7000	C412_44.8 S3 ME3SB4	C412_44.8 S3 MX3SB4	171 C412_44.8 P90 BE90LA4	C412_44.8 P90 BX90LA4
33	404	1.1	43.5	6110	C363_43.5 S3 ME3SB4	C363_43.5 S3 MX3SB4	167 C363_43.5 P90 BE90LA4	C363_43.5 P90 BX90LA4
33	410	1.9	43.1	10000	C512_43.1 S3 ME3SB4	C512_43.1 S3 MX3SB4	175 C512_43.1 P90 BE90LA4	C512_43.1 P90 BX90LA4
35	376	2.7	40.5	10000	C513_40.5 S3 ME3SB4	C513_40.5 S3 MX3SB4	175 C513_40.5 P90 BE90LA4	C513_40.5 P90 BX90LA4
35	383	2.1	40.4	10000	C512_40.4 S3 ME3SB4	C512_40.4 S3 MX3SB4	175 C512_40.4 P90 BE90LA4	C512_40.4 P90 BX90LA4
35	375	1.6	40.3	7000	C413_40.3 S3 ME3SB4	C413_40.3 S3 MX3SB4	171 C413_40.3 P90 BE90LA4	C413_40.3 P90 BX90LA4
38	354	1.3	38.1	6110	C363_38.1 S3 ME3SB4	C363_38.1 S3 MX3SB4	167 C363_38.1 P90 BE90LA4	C363_38.1 P90 BX90LA4
39	352	1.4	37.1	7000	C412_37.1 S3 ME3SB4	C412_37.1 S3 MX3SB4	171 C412_37.1 P90 BE90LA4	C412_37.1 P90 BX90LA4
39	344	2.9	37.0	10000	C513_37.0 S3 ME3SB4	C513_37.0 S3 MX3SB4	175 C513_37.0 P90 BE90LA4	C513_37.0 P90 BX90LA4
39	346	2.3	36.4	10000	C512_36.4 S3 ME3SB4	C512_36.4 S3 MX3SB4	175 C512_36.4 P90 BE90LA4	C512_36.4 P90 BX90LA4
40	343	0.9	36.1	5100	C322_36.1 S3 ME3SB4	C322_36.1 S3 MX3SB4	163 C322_36.1 P90 BE90LA4	C322_36.1 P90 BX90LA4
41	322	1.4	34.6	5950	C363_34.6 S3 ME3SB4	C363_34.6 S3 MX3SB4	167 C363_34.6 P90 BE90LA4	C363_34.6 P90 BX90LA4
43	317	1.6	33.4	7000	C412_33.4 S3 ME3SB4	C412_33.4 S3 MX3SB4	171 C412_33.4 P90 BE90LA4	C412_33.4 P90 BX90LA4
43	314	1.0	33.1	5050	C322_33.1 S3 ME3SB4	C322_33.1 S3 MX3SB4	163 C322_33.1 P90 BE90LA4	C322_33.1 P90 BX90LA4
43	314	2.5	33.0	10000	C512_33.0 S3 ME3SB4	C512_33.0 S3 MX3SB4	175 C512_33.0 P90 BE90LA4	C512_33.0 P90 BX90LA4
45	299	1.7	31.4	6990	C412_31.4 S3 ME3SB4	C412_31.4 S3 MX3SB4	171 C412_31.4 P90 BE90LA4	C412_31.4 P90 BX90LA4
48	283	2.8	29.8	10000	C512_29.8 S3 ME3SB4	C512_29.8 S3 MX3SB4	175 C512_29.8 P90 BE90LA4	C512_29.8 P90 BX90LA4
48	283	1.1	29.8	4970	C322_29.8 S3 ME3SB4	C322_29.8 S3 MX3SB4	163 C322_29.8 P90 BE90LA4	C322_29.8 P90 BX90LA4
50	267	1.7	28.7	5830	C363_28.7 S3 ME3SB4	C363_28.7 S3 MX3SB4	167 C363_28.7 P90 BE90LA4	C363_28.7 P90 BX90LA4
51	269	1.9	28.3	6830	C412_28.3 S3 ME3SB4	C412_28.3 S3 MX3SB4	171 C412_28.3 P90 BE90LA4	C412_28.3 P90 BX90LA4
53	256	1.2	26.9	4890	C322_26.9 S3 ME3SB4	C322_26.9 S3 MX3SB4	163 C322_26.9 P90 BE90LA4	C322_26.9 P90 BX90LA4
55	244	1.8	26.2	5710	C363_26.2 S3 ME3SB4	C363_26.2 S3 MX3SB4	167 C363_26.2 P90 BE90LA4	C363_26.2 P90 BX90LA4
55	246	3.2	25.9	10000	C512_25.9 S3 ME3SB4	C512_25.9 S3 MX3SB4	175 C512_25.9 P90 BE90LA4	C512_25.9 P90 BX90LA4
57	239	1.3	25.1	4840	C322_25.1 S3 ME3SB4	C322_25.1 S3 MX3SB4	163 C322_25.1 P90 BE90LA4	C322_25.1 P90 BX90LA4
57	238	2.1	25.0	6680	C412_25.0 S3 ME3SB4	C412_25.0 S3 MX3SB4	171 C412_25.0 P90 BE90LA4	C412_25.0 P90 BX90LA4
62	218	1.4	22.9	4750	C322_22.9 S3 ME3SB4	C322_22.9 S3 MX3SB4	163 C322_22.9 P90 BE90LA4	C322_22.9 P90 BX90LA4
63	214	2.3	22.6	6510	C412_22.6 S3 ME3SB4	C412_22.6 S3 MX3SB4	171 C412_22.6 P90 BE90LA4	C412_22.6 P90 BX90LA4
65	206	2.1	22.1	5530	C363_22.1 S3 ME3SB4	C363_22.1 S3 MX3SB4	167 C363_22.1 P90 BE90LA4	C363_22.1 P90 BX90LA4
67	204	1.0	21.5	2600	C222_21.5 S3 ME3SB4	C222_21.5 S3 MX3SB4	159 C222_21.5 P90 BE90LA4	C222_21.5 P90 BX90LA4
71	191	1.5	20.1	4650	C322_20.1 S3 ME3SB4	C322_20.1 S3 MX3SB4	163 C322_20.1 P90 BE90LA4	C322_20.1 P90 BX90LA4
71	190	1.0	20.0	2740	C222_20.0 S3 ME3SB4	C222_20.0 S3 MX3SB4	159 C222_20.0 P90 BE90LA4	C222_20.0 P90 BX90LA4
72	188	2.6	19.8	6330	C412_19.8 S3 ME3SB4	C412_19.8 S3 MX3SB4	171 C412_19.8 P90 BE90LA4	C412_19.8 P90 BX90LA4
75	181	2.1	19.0	5330	C362_19.0 S3 ME3SB4	C362_19.0 S3 MX3SB4	167 C362_19.0 P90 BE90LA4	C362_19.0 P90 BX90LA4
79	173	1.6	18.2	4520	C322_18.2 S3 ME3SB4	C322_18.2 S3 MX3SB4	163 C322_18.2 P90 BE90LA4	C322_18.2 P90 BX90LA4
79	172	1.1	18.1	2700	C222_18.1 S3 ME3SB4	C222_18.1 S3 MX3SB4	159 C222_18.1 P90 BE90LA4	C222_18.1 P90 BX90LA4
80	169	2.8	17.8	6160	C412_17.8 S3 ME3SB4	C412_17.8 S3 MX3SB4	171 C412_17.8 P90 BE90LA4	C412_17.8 P90 BX90LA4
83	163	2.3	17.2	5140	C362_17.2 S3 ME3SB4	C362_17.2 S3 MX3SB4	167 C362_17.2 P90 BE90LA4	C362_17.2 P90 BX90LA4
90	150	1.2	15.8	2700	C222_15.8 S3 ME3SB4	C222_15.8 S3 MX3SB4	159 C222_15.8 P90 BE90LA4	C222_15.8 P90 BX90LA4
90	150	3.0	15.8	6000	C412_15.8 S3 ME3SB4	C412_15.8 S3 MX3SB4	171 C412_15.8 P90 BE90LA4	C412_15.8 P90 BX90LA4
92	148	1.8	15.6	4410	C322_15.6 S3 ME3SB4	C322_15.6 S3 MX3SB4	163 C322_15.6 P90 BE90LA4	C322_15.6 P90 BX90LA4
97	140	2.7	14.8	5030	C362_14.8 S3 ME3SB4	C362_14.8 S3 MX3SB4	167 C362_14.8 P90 BE90LA4	C362_14.8 P90 BX90LA4
98	138	1.2	14.5	2700	C222_14.5 S3 ME3SB4	C222_14.5 S3 MX3SB4	159 C222_14.5 P90 BE90LA4	C222_14.5 P90 BX90LA4
100	135	3.3	14.2	5830	C412_14.2 S3 ME3SB4	C412_14.2 S3 MX3SB4	171 C412_14.2 P90 BE90LA4	C412_14.2 P90 BX90LA4
102	134	1.9	14.1	4280	C322_14.1 S3 ME3SB4	C322_14.1 S3 MX3SB4	163 C322_14.1 P90 BE90LA4	C322_14.1 P90 BX90LA4
107	127	3.0	13.3	4890	C362_13.3 S3 ME3SB4	C362_13.3 S3 MX3SB4	167 C362_13.3 P90 BE90LA4	C362_13.3 P90 BX90LA4
115	118	1.4	12.4	2630	C222_12.4 S3 ME3SB4	C222_12.4 S3 MX3SB4	159 C222_12.4 P90 BE90LA4	C222_12.4 P90 BX90LA4
116	117	2.1	12.3	4180	C322_12.3 S3 ME3SB4	C322_12.3 S3 MX3SB4	163 C322_12.3 P90 BE90LA4	C322_12.3 P90 BX90LA4
123	111	3.4	11.7	4740	C362_11.7 S3 ME3SB4	C362_11.7 S3 MX3SB4	167 C362_11.7 P90 BE90LA4	C362_11.7 P90 BX90LA4
128	106	2.2	11.2	4050	C322_11.2 S3 ME3SB4	C322_11.2 S3 MX3SB4	163 C322_11.2 P90 BE90LA4	C322_11.2 P90 BX90LA4
129	105	1.5	11.1	2600	C222_11.1 S3 ME3SB4	C222_11.1 S3 MX3SB4	159 C222_11.1 P90 BE90LA4	C222_11.1 P90 BX90LA4
148	92	1.6	9.6	2530	C222_9.6 S3 ME3SB4	C222_9.6 S3 MX3SB4	159 C222_9.6 P90 BE90LA4	C222_9.6 P90 BX90LA4
154	88	2.5	9.3	3900	C322_9.3 S3 ME3SB4	C322_9.3 S3 MX3SB4	163 C322_9.3 P90 BE90LA4	C322_9.3 P90 BX90LA4
165	82	1.7	8.7	2470	C222_8.7 S3 ME3SB4	C222_8.7 S3 MX3SB4	159 C222_8.7 P90 BE90LA4	C222_8.7 P90 BX90LA4

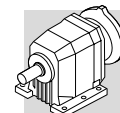


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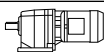
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N						
					IE2	IE3				
169	81	2.6	8.5	3790	C322_8.5 S3 ME3SB4	C322_8.5 S3 MX3SB4	163	C322_8.5 P90 BE90LA4	C322_8.5 P90 BX90LA4	164
180	75	2.3	15.8	2440	C222_15.8 S3 ME3SA2	C322_7.2 S3 MX3SB4	159	C222_15.8 P90 BE90SA2	C322_7.2 P90 BX90LA4	160
191	71	2.2	5.0	3610	C322_5.0 S3 ME3LB6		163	C322_5.0 P100 BE100LA6		164
200	68	2.9	7.2	3640	C322_7.2 S3 ME3SB4		163	C322_7.2 P90 BE90LA4		164
202	67	1.9	7.1	2380	C222_7.1 S3 ME3SB4		159	C222_7.1 P90 BE90LA4		160
204	67	3.0	4.6	4050	C362_4.6 S3 ME3LB6		167	C362_4.6 P100 BE100LA6		168
228	60	2.6	6.3	3450	C322_6.3 S3 ME3SB4	C322_6.3 S3 MX3SB4	163	C322_6.3 P90 BE90LA4	C322_6.3 P90 BX90LA4	164
229	59	0.9	6.2	600	C122_6.2 S3 ME3SB4	C122_6.2 S3 MX3SB4	155	C122_6.2 P90 BE90LA4	C122_6.2 P90 BX90LA4	156
235	58	1.8	6.1	2250	C222_6.1 S3 ME3SB4	C222_6.1 S3 MX3SB4	159	C222_6.1 P90 BE90LA4	C222_6.1 P90 BX90LA4	160
240	57	1.2	11.9	1250	C122_11.9 S3 ME3SA2	C322_5.7 S3 MX3SB4	155	C122_11.9 P90 BE90SA2	C322_5.7 P90 BX90LA4	156
253	54	2.9	5.7	3320	C322_5.7 S3 ME3SB4		163	C322_5.7 P90 BE90LA4		164
255	53	1.7	3.7	2210	C222_3.7 S3 ME3LB6		159	C222_3.7 P100 BE100LA6		C122_5.6 P90 BX90LA4
255	53	1.0	5.6	720	C122_5.6 S3 ME3SB4	155	C122_5.6 P90 BE90LA4	156		
256	53	1.9	5.6	2200	C222_5.6 S3 ME3SB4	159	C222_5.6 P90 BE90LA4	160		
284	48	1.3	10.1	1340	C122_10.1 S3 ME3SA2	C322_5.0 S3 MX3SB4	155	C122_10.1 P90 BE90SA2	C322_5.0 P90 BX90LA4	156
289	47	3.3	5.0	3240	C322_5.0 S3 ME3SB4		163	C322_5.0 P90 BE90LA4		164
294	46	1.0	4.9	840	C122_4.9 S3 ME3SB4		155	C122_4.9 P90 BE90LA4		156
300	45	2.2	4.8	2140	C222_4.8 S3 ME3SB4	C222_4.8 S3 MX3SB4	159	C222_4.8 P90 BE90LA4	C222_4.8 P90 BX90LA4	160
323	42	1.4	8.8	1300	C122_8.8 S3 ME3SA2	C122_4.3 S3 MX3SB4	155	C122_8.8 P90 BE90SA2	C122_4.3 P90 BX90LA4	156
330	41	3.3	8.7	2130	C222_8.7 S3 ME3SA2		159	C222_8.7 P90 BE90SA2		160
332	41	1.1	4.3	930	C122_4.3 S3 ME3SB4		155	C122_4.3 P90 BE90LA4		156
336	40	2.3	4.3	2100	C222_4.3 S3 ME3SB4		159	C222_4.3 P90 BE90LA4		160
341	40	0.9	2.8	1000	C122_2.8 S3 ME3LB6		155	C122_2.8 P100 BE100LA6		156
347	39	2.0	2.7	2060	C222_2.7 S3 ME3LB6	C222_3.7 S3 MX3SB4	159	C222_2.7 P100 BE100LA6	C222_3.7 P90 BX90LA4	160
375	36	1.5	7.6	1270	C122_7.6 S3 ME3SA2		155	C122_7.6 P90 BE90SA2		156
386	35	2.6	3.7	2020	C222_3.7 S3 ME3SB4		159	C222_3.7 P90 BE90LA4		160
392	35	1.2	3.7	1100	C122_3.7 S3 ME3SB4		155	C122_3.7 P90 BE90LA4		156
403	34	3.9	7.1	2030	C222_7.1 S3 ME3SA2		159	C222_7.1 P90 BE90SA2		160
430	32	2.7	3.3	2000	C222_3.3 S3 ME3SB4	C222_3.3 S3 MX3SB4	159	C222_3.3 P90 BE90LA4	C222_3.3 P90 BX90LA4	160
446	30	1.3	3.2	1120	C122_3.2 S3 ME3SB4	C122_3.2 S3 MX3SB4	155	C122_3.2 P90 BE90LA4	C122_3.2 P90 BX90LA4	156
458	30	1.8	6.2	1180	C122_6.2 S3 ME3SA2	C122_2.7 S3 MX3SB4	155	C122_6.2 P90 BE90SA2	C122_2.7 P90 BX90LA4	156
469	29	3.6	6.1	1920	C222_6.1 S3 ME3SA2		159	C222_6.1 P90 BE90SA2		160
510	27	1.9	5.6	1140	C122_5.6 S3 ME3SA2		155	C122_5.6 P90 BE90SA2		156
511	27	3.8	5.6	1860	C222_5.6 S3 ME3SA2		159	C222_5.6 P90 BE90SA2		160
517	26	1.4	2.8	1140	C122_2.8 S3 ME3SB4		155	C122_2.8 P90 BE90LA4		156
525	26	3.1	2.7	1870	C222_2.7 S3 ME3SB4	159	C222_2.7 P90 BE90LA4	160		
586	23	2.1	4.9	1110	C122_4.9 S3 ME3SA2		155	C122_4.9 P90 BE90SA2		156
599	23	4.4	4.8	1810	C222_4.8 S3 ME3SA2		159	C222_4.8 P90 BE90SA2		160
662	21	2.2	4.3	1070	C122_4.3 S3 ME3SA2		155	C122_4.3 P90 BE90SA2		156
782	17	2.4	3.7	1030	C122_3.7 S3 ME3SA2		155	C122_3.7 P90 BE90SA2		156
890	15	2.6	3.2	990	C122_3.2 S3 ME3SA2		155	C122_3.2 P90 BE90SA2		156
1032	13	2.8	2.8	960	C122_2.8 S3 ME3SA2		155	C122_2.8 P90 BE90SA2		156

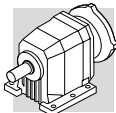
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IEC IE3	
1.3	9730	1.2	1081	85000		C1004_1081 P90 BXN90L4	193
1.4	9035	1.3	1004	85000		C1004_1004 P90 BXN90L4	193
1.6	8174	1.5	908.2	85000		C1004_908.2 P90 BXN90L4	193
1.7	7596	0.9	844.0	60000		C904_844.0 P90 BXN90L4	190
1.7	7590	1.6	843.3	85000		C1004_843.3 P90 BXN90L4	193

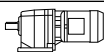


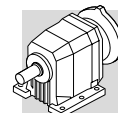
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IE3	 IE3	
1.8	6981	1.7	775.7	85000			C1004_775.7 P90 BXN90L4	193
1.8	6963	1.0	773.6	60000			C904_773.6 P90 BXN90L4	190
2.0	6483	1.9	720.3	85000			C1004_720.3 P90 BXN90L4	193
2.0	6410	1.1	712.2	60000			C904_712.2 P90 BXN90L4	190
2.2	5875	1.2	652.8	60000			C904_652.8 P90 BXN90L4	190
2.3	5647	2.1	627.4	85000			C1004_627.4 P90 BXN90L4	193
2.5	5245	1.4	582.8	60000			C904_582.8 P90 BXN90L4	190
2.5	5243	2.3	582.6	85000			C1004_582.6 P90 BXN90L4	193
2.7	4808	1.5	534.2	60000			C904_534.2 P90 BXN90L4	190
2.8	4524	2.7	502.6	85000			C1004_502.6 P90 BXN90L4	193
3.1	4201	2.9	466.7	85000			C1004_466.7 P90 BXN90L4	193
3.1	4114	1.8	457.1	60000			C904_457.1 P90 BXN90L4	190
3.1	4099	1.0	455.4	35000			C804_455.4 P90 BXN90L4	187
3.4	3771	1.9	419.0	60000			C904_419.0 P90 BXN90L4	190
3.4	3757	1.1	417.5	35000			C804_417.5 P90 BXN90L4	187
3.9	3328	2.2	369.8	60000			C904_369.8 P90 BXN90L4	190
3.9	3282	1.2	364.7	35000			C804_364.7 P90 BXN90L4	187
4.2	3051	2.4	339.0	60000			C904_339.0 P90 BXN90L4	190
4.3	3008	1.3	334.3	35000			C804_334.3 P90 BXN90L4	187
4.9	2636	2.7	292.9	60000			C904_292.9 P90 BXN90L4	190
5.0	2571	1.6	285.7	35000			C804_285.7 P90 BXN90L4	187
5.3	2450	0.9	272.2	25000			C704_272.2 P90 BXN90L4	184
5.3	2416	3.0	268.5	60000			C904_268.5 P90 BXN90L4	190
5.5	2357	1.7	261.9	35000			C804_261.9 P90 BXN90L4	187
5.7	2262	1.0	251.3	25000			C704_251.3 P90 BXN90L4	184
6.0	2226	1.0	239.3	25000			C703_239.3 P90 BXN90L4	184
6.5	2054	1.1	220.9	25000			C703_220.9 P90 BXN90L4	184
6.6	1957	0.8	217.4	16000			C614_217.4 P90 BXN90L4	180
6.6	2007	2.0	215.8	35000			C803_215.8 P90 BXN90L4	187
7.2	1840	2.1	197.9	35000			C803_197.9 P90 BXN90L4	187
7.3	1762	0.9	195.8	16000			C613_195.8 P90 BXN90L4	180
7.4	1805	1.3	194.1	25000			C703_194.1 P90 BXN90L4	184
7.8	1715	2.3	184.4	35000			C803_184.4 P90 BXN90L4	187
8.0	1666	1.4	179.2	25000			C703_179.2 P90 BXN90L4	184
8.0	1607	1.0	178.6	16000			C613_178.6 P90 BXN90L4	180
8.5	1572	2.5	169.0	35000			C803_169.0 P90 BXN90L4	187
8.7	1480	1.1	164.5	16000			C613_164.5 P90 BXN90L4	180
8.8	1514	1.5	162.8	25000			C703_162.8 P90 BXN90L4	184
9.5	1398	1.6	150.3	25000			C703_150.3 P90 BXN90L4	184
9.5	1350	1.2	150.0	16000			C613_150.0 P90 BXN90L4	180
9.6	1387	2.9	149.1	35000			C803_149.1 P90 BXN90L4	187
10.2	1264	1.3	140.5	16000			C613_140.5 P90 BXN90L4	180
10.4	1278	1.8	137.4	25000			C703_137.4 P90 BXN90L4	184
10.5	1271	3.1	136.7	35000			C803_136.7 P90 BXN90L4	187
11.2	1153	1.4	128.1	16000			C613_128.1 P90 BXN90L4	180
11.3	1180	1.9	126.8	25000			C703_126.8 P90 BXN90L4	184
12.6	1022	1.6	113.6	16000			C613_113.6 P90 BXN90L4	180
12.6	1057	0.9	113.6	10000			C513_113.6 P90 BXN90L4	176
12.7	1046	2.2	112.4	25000			C703_112.4 P90 BXN90L4	184
13.8	965	2.4	103.8	25000			C703_103.8 P90 BXN90L4	184
13.8	933	1.7	103.6	16000			C613_103.6 P90 BXN90L4	180
14.0	947	1.1	101.8	10000			C513_101.8 P90 BXN90L4	176
15.4	865	1.2	93.0	10000			C513_93.0 P90 BXN90L4	176
15.7	819	2.0	91.0	16000			C613_91.0 P90 BXN90L4	180
16.2	820	2.8	88.2	25000			C703_88.2 P90 BXN90L4	184
17.2	747	2.1	83.0	16000			C613_83.0 P90 BXN90L4	180
17.6	757	3.0	81.4	25000			C703_81.4 P90 BXN90L4	184

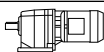


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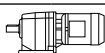
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IE3	 IE3	
17.9	743	1.3	79.9	10000			C513_79.9 P90 BXN90L4	176
19.3	668	2.4	74.2	16000			C613_74.2 P90 BXN90L4	180
19.6	678	1.5	72.9	10000			C513_72.9 P90 BXN90L4	176
20.0	663	3.5	71.3	25000			C703_71.3 P90 BXN90L4	184
21.1	609	2.6	67.7	16000			C613_67.7 P90 BXN90L4	180
22.1	601	1.7	64.6	10000			C513_64.6 P90 BXN90L4	176
22.2	598	1.0	64.3	7000			C413_64.3 P90 BXN90L4	172
24.2	549	1.8	59.0	10000			C513_59.0 P90 BXN90L4	176
24.4	545	1.1	58.7	7000			C413_58.7 P90 BXN90L4	172
24.4	527	3.0	58.6	16000			C613_58.6 P90 BXN90L4	180
25.1	542	1.4	57.0	10000			C512_57.0 P90 BXN90L4	176
26.7	481	3.3	53.5	16000			C613_53.5 P90 BXN90L4	180
27.8	479	1.3	51.5	7000			C413_51.5 P90 BXN90L4	172
27.8	488	1.4	51.4	10000			C512_51.4 P90 BXN90L4	176
27.9	476	2.1	51.2	10000			C513_51.2 P90 BXN90L4	176
29.7	448	1.0	48.2	6290			C363_48.2 P90 BXN90L4	168
29.9	454	1.8	47.8	10000			C512_47.8 P90 BXN90L4	176
30	437	1.4	47.0	7000			C413_47.0 P90 BXN90L4	172
31	435	2.3	46.7	10000			C513_46.7 P90 BXN90L4	176
32	425	1.2	44.8	7000			C412_44.8 P90 BXN90L4	172
33	404	1.1	43.5	6110			C363_43.5 P90 BXN90L4	168
33	410	1.9	43.1	10000			C512_43.1 P90 BXN90L4	176
35	376	2.7	40.5	10000			C513_40.5 P90 BXN90L4	176
35	383	2.1	40.4	10000			C512_40.4 P90 BXN90L4	176
35	375	1.6	40.3	7000			C413_40.3 P90 BXN90L4	172
38	354	1.3	38.1	6110			C363_38.1 P90 BXN90L4	168
39	352	1.4	37.1	7000			C412_37.1 P90 BXN90L4	172
39	344	2.9	37.0	10000			C513_37.0 P90 BXN90L4	176
39	346	2.3	36.4	10000			C512_36.4 P90 BXN90L4	176
40	343	0.9	36.1	5100			C322_36.1 P90 BXN90L4	164
41	322	1.4	34.6	5950			C363_34.6 P90 BXN90L4	168
43	317	1.6	33.4	7000			C412_33.4 P90 BXN90L4	172
43	314	1.0	33.1	5050			C322_33.1 P90 BXN90L4	164
43	314	2.5	33.0	10000			C512_33.0 P90 BXN90L4	176
45	299	1.7	31.4	6990			C412_31.4 P90 BXN90L4	172
48	283	2.8	29.8	10000			C512_29.8 P90 BXN90L4	176
48	283	1.1	29.8	4970			C322_29.8 P90 BXN90L4	164
50	267	1.7	28.7	5830			C363_28.7 P90 BXN90L4	168
51	269	1.9	28.3	6830			C412_28.3 P90 BXN90L4	172
53	256	1.2	26.9	4890			C322_26.9 P90 BXN90L4	164
55	244	1.8	26.2	5710			C363_26.2 P90 BXN90L4	168
55	246	3.2	25.9	10000			C512_25.9 P90 BXN90L4	176
57	239	1.3	25.1	4840			C322_25.1 P90 BXN90L4	164
57	238	2.1	25.0	6680			C412_25.0 P90 BXN90L4	172
62	218	1.4	22.9	4750			C322_22.9 P90 BXN90L4	164
63	214	2.3	22.6	6510			C412_22.6 P90 BXN90L4	172
65	206	2.1	22.1	5530			C363_22.1 P90 BXN90L4	168
67	204	1.0	21.5	2600			C222_21.5 P90 BXN90L4	160
71	191	1.5	20.1	4650			C322_20.1 P90 BXN90L4	164
71	190	1.0	20.0	2740			C222_20.0 P90 BXN90L4	160
72	188	2.6	19.8	6330			C412_19.8 P90 BXN90L4	172
75	181	2.1	19.0	5330			C362_19.0 P90 BXN90L4	168
79	173	1.6	18.2	4520			C322_18.2 P90 BXN90L4	164
79	172	1.1	18.1	2700			C222_18.1 P90 BXN90L4	160
80	169	2.8	17.8	6160			C412_17.8 P90 BXN90L4	172
83	163	2.3	17.2	5140			C362_17.2 P90 BXN90L4	168
90	150	1.2	15.8	2700			C222_15.8 P90 BXN90L4	160

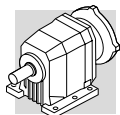


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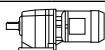
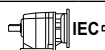
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IE3	 IE3	
90	150	3.0	15.8	6000			C412_15.8 P90 BXN90L4	172
92	148	1.8	15.6	4410			C322_15.6 P90 BXN90L4	164
97	140	2.7	14.8	5030			C362_14.8 P90 BXN90L4	168
98	138	1.2	14.5	2700			C222_14.5 P90 BXN90L4	160
100	135	3.3	14.2	5830			C412_14.2 P90 BXN90L4	172
102	134	1.9	14.1	4280			C322_14.1 P90 BXN90L4	164
107	127	3.0	13.3	4890			C362_13.3 P90 BXN90L4	168
115	118	1.4	12.4	2630			C222_12.4 P90 BXN90L4	160
116	117	2.1	12.3	4180			C322_12.3 P90 BXN90L4	164
123	111	3.4	11.7	4740			C362_11.7 P90 BXN90L4	168
128	106	2.2	11.2	4050			C322_11.2 P90 BXN90L4	164
129	105	1.5	11.1	2600			C222_11.1 P90 BXN90L4	160
148	92	1.6	9.6	2530			C222_9.6 P90 BXN90L4	160
154	88	2.5	9.3	3900			C322_9.3 P90 BXN90L4	164
165	82	1.7	8.7	2470			C222_8.7 P90 BXN90L4	160
169	81	2.6	8.5	3790			C322_8.5 P90 BXN90L4	164
200	68	2.9	7.2	3640			C322_7.2 P90 BXN90L4	164
202	67	1.9	7.1	2380			C222_7.1 P90 BXN90L4	160
228	60	2.6	6.3	3450			C322_6.3 P90 BXN90L4	164
229	59	0.9	6.2	600			C122_6.2 P90 BXN90L4	156
235	58	1.8	6.1	2250			C222_6.1 P90 BXN90L4	160
253	54	2.9	5.7	3320			C322_5.7 P90 BXN90L4	164
255	53	1.0	5.6	720			C122_5.6 P90 BXN90L4	156
256	53	1.9	5.6	2200			C222_5.6 P90 BXN90L4	160
289	47	3.3	5.0	3240			C322_5.0 P90 BXN90L4	164
294	46	1.0	4.9	840			C122_4.9 P90 BXN90L4	156
300	45	2.2	4.8	2140			C222_4.8 P90 BXN90L4	160
332	41	1.1	4.3	930			C122_4.3 P90 BXN90L4	156
336	40	2.3	4.3	2100			C222_4.3 P90 BXN90L4	160
386	35	2.6	3.7	2020			C222_3.7 P90 BXN90L4	160
392	35	1.2	3.7	1100			C122_3.7 P90 BXN90L4	156
430	32	2.7	3.3	2000			C222_3.3 P90 BXN90L4	160
446	30	1.3	3.2	1120			C122_3.2 P90 BXN90L4	156
517	26	1.4	2.8	1140			C122_2.8 P90 BXN90L4	156
525	26	3.1	2.7	1870			C222_2.7 P90 BXN90L4	160

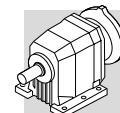
2.2 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
					IE2	IE3	IE2	IE3
1.4	13281	0.9	1004	85000	C1004_1004 S3 ME3LA4	C1004_1004 S3 MX3LA4	C1004_1004 P100 BE100LA4	C1004_1004 P100 BX100LA4
1.6	12016	1.0	908.2	85000	C1004_908.2 S3 ME3LA4	C1004_908.2 S3 MX3LA4	C1004_908.2 P100 BE100LA4	C1004_908.2 P100 BX100LA4
1.7	11157	1.1	843.3	85000	C1004_843.3 S3 ME3LA4	C1004_843.3 S3 MX3LA4	C1004_843.3 P100 BE100LA4	C1004_843.3 P100 BX100LA4
1.8	10263	1.2	775.7	85000	C1004_775.7 S3 ME3LA4	C1004_775.7 S3 MX3LA4	C1004_775.7 P100 BE100LA4	C1004_775.7 P100 BX100LA4
2.0	9530	1.3	720.3	85000	C1004_720.3 S3 ME3LA4	C1004_720.3 S3 MX3LA4	C1004_720.3 P100 BE100LA4	C1004_720.3 P100 BX100LA4
2.3	8301	1.4	627.4	85000	C1004_627.4 S3 ME3LA4	C1004_627.4 S3 MX3LA4	C1004_627.4 P100 BE100LA4	C1004_627.4 P100 BX100LA4
2.5	7710	0.9	582.8	60000	C904_582.8 S3 ME3LA4	C904_582.8 S3 MX3LA4	C904_582.8 P100 BE100LA4	C904_582.8 P100 BX100LA4
2.5	7708	1.6	582.6	85000	C1004_582.6 S3 ME3LA4	C1004_582.6 S3 MX3LA4	C1004_582.6 P100 BE100LA4	C1004_582.6 P100 BX100LA4
2.7	7068	1.0	534.2	60000	C904_534.2 S3 ME3LA4	C904_534.2 S3 MX3LA4	C904_534.2 P100 BE100LA4	C904_534.2 P100 BX100LA4
2.8	6650	1.8	502.6	85000	C1004_502.6 S3 ME3LA4	C1004_502.6 S3 MX3LA4	C1004_502.6 P100 BE100LA4	C1004_502.6 P100 BX100LA4
3.1	6175	1.9	466.7	85000	C1004_466.7 S3 ME3LA4	C1004_466.7 S3 MX3LA4	C1004_466.7 P100 BE100LA4	C1004_466.7 P100 BX100LA4
3.1	6048	1.2	457.1	60000	C904_457.1 S3 ME3LA4	C904_457.1 S3 MX3LA4	C904_457.1 P100 BE100LA4	C904_457.1 P100 BX100LA4
3.4	5544	1.3	419.0	60000	C904_419.0 S3 ME3LA4	C904_419.0 S3 MX3LA4	C904_419.0 P100 BE100LA4	C904_419.0 P100 BX100LA4

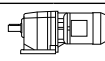


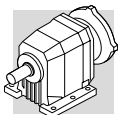
2.2 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				 IEC 		
					IE2	IE3		IE2	IE3	
3.5	5421	2.2	409.8	85000	C1004_409.8 S3 ME3LA4	C1004_409.8 S3 MX3LA4	192	C1004_409.8 P100 BE100LA4	C1004_409.8 P100 BX100LA4	193
3.8	5034	2.4	380.5	85000	C1004_380.5 S3 ME3LA4	C1004_380.5 S3 MX3LA4	192	C1004_380.5 P100 BE100LA4	C1004_380.5 P100 BX100LA4	193
3.9	4892	1.5	369.8	60000	C904_369.8 S3 ME3LA4	C904_369.8 S3 MX3LA4	189	C904_369.8 P100 BE100LA4	C904_369.8 P100 BX100LA4	190
4.2	4484	1.6	339.0	60000	C904_339.0 S3 ME3LA4	C904_339.0 S3 MX3LA4	189	C904_339.0 P100 BE100LA4	C904_339.0 P100 BX100LA4	190
4.3	4422	0.9	334.3	35000	C804_334.3 S3 ME3LA4	C804_334.3 S3 MX3LA4	186	C804_334.3 P100 BE100LA4	C804_334.3 P100 BX100LA4	187
4.4	4282	2.8	323.6	85000	C1004_323.6 S3 ME3LA4	C1004_323.6 S3 MX3LA4	192	C1004_323.6 P100 BE100LA4	C1004_323.6 P100 BX100LA4	193
4.9	3875	1.9	292.9	60000	C904_292.9 S3 ME3LA4	C904_292.9 S3 MX3LA4	189	C904_292.9 P100 BE100LA4	C904_292.9 P100 BX100LA4	190
5.0	3779	1.1	285.7	35000	C804_285.7 S3 ME3LA4	C804_285.7 S3 MX3LA4	186	C804_285.7 P100 BE100LA4	C804_285.7 P100 BX100LA4	187
5.3	3552	2.0	268.5	60000	C904_268.5 S3 ME3LA4	C904_268.5 S3 MX3LA4	189	C904_268.5 P100 BE100LA4	C904_268.5 P100 BX100LA4	190
5.5	3464	1.2	261.9	35000	C804_261.9 S3 ME3LA4	C804_261.9 S3 MX3LA4	186	C804_261.9 P100 BE100LA4	C804_261.9 P100 BX100LA4	187
6.2	3065	2.3	231.7	60000	C904_231.7 S3 ME3LA4	C904_231.7 S3 MX3LA4	189	C904_231.7 P100 BE100LA4	C904_231.7 P100 BX100LA4	190
6.6	2951	1.4	215.8	35000	C803_215.8 S3 ME3LA4	C803_215.8 S3 MX3LA4	186	C803_215.8 P100 BE100LA4	C803_215.8 P100 BX100LA4	187
6.7	2810	2.6	212.4	60000	C904_212.4 S3 ME3LA4	C904_212.4 S3 MX3LA4	189	C904_212.4 P100 BE100LA4	C904_212.4 P100 BX100LA4	190
7.2	2705	1.4	197.9	35000	C803_197.9 S3 ME3LA4	C803_197.9 S3 MX3LA4	186	C803_197.9 P100 BE100LA4	C803_197.9 P100 BX100LA4	187
7.8	2520	1.6	184.4	35000	C803_184.4 S3 ME3LA4	C803_184.4 S3 MX3LA4	186	C803_184.4 P100 BE100LA4	C803_184.4 P100 BX100LA4	187
8.0	2450	0.9	179.2	25000	C703_179.2 S3 ME3LA4	C703_179.2 S3 MX3LA4	183	C703_179.2 P100 BE100LA4	C703_179.2 P100 BX100LA4	184
8.5	2310	1.7	169.0	35000	C803_169.0 S3 ME3LA4	C803_169.0 S3 MX3LA4	186	C803_169.0 P100 BE100LA4	C803_169.0 P100 BX100LA4	187
8.8	2226	1.0	162.8	25000	C703_162.8 S3 ME3LA4	C703_162.8 S3 MX3LA4	183	C703_162.8 P100 BE100LA4	C703_162.8 P100 BX100LA4	184
9.5	2055	1.1	150.3	25000	C703_150.3 S3 ME3LA4	C703_150.3 S3 MX3LA4	183	C703_150.3 P100 BE100LA4	C703_150.3 P100 BX100LA4	184
9.6	2038	2.0	149.1	35000	C803_149.1 S3 ME3LA4	C803_149.1 S3 MX3LA4	186	C803_149.1 P100 BE100LA4	C803_149.1 P100 BX100LA4	187
10.4	1878	1.2	137.4	25000	C703_137.4 S3 ME3LA4	C703_137.4 S3 MX3LA4	183	C703_137.4 P100 BE100LA4	C703_137.4 P100 BX100LA4	184
10.5	1869	2.1	136.7	35000	C803_136.7 S3 ME3LA4	C803_136.7 S3 MX3LA4	186	C803_136.7 P100 BE100LA4	C803_136.7 P100 BX100LA4	187
11.2	1695	0.9	128.1	16000	C613_128.1 S3 ME3LA4	C613_128.1 S3 MX3LA4	179	C613_128.1 P100 BE100LA4	C613_128.1 P100 BX100LA4	180
11.3	1734	1.3	126.8	25000	C703_126.8 S3 ME3LA4	C703_126.8 S3 MX3LA4	183	C703_126.8 P100 BE100LA4	C703_126.8 P100 BX100LA4	184
12.0	1633	2.4	119.5	35000	C803_119.5 S3 ME3LA4	C803_119.5 S3 MX3LA4	186	C803_119.5 P100 BE100LA4	C803_119.5 P100 BX100LA4	187
12.6	1503	1.1	113.6	16000	C613_113.6 S3 ME3LA4	C613_113.6 S3 MX3LA4	179	C613_113.6 P100 BE100LA4	C613_113.6 P100 BX100LA4	180
12.7	1537	1.5	112.4	25000	C703_112.4 S3 ME3LA4	C703_112.4 S3 MX3LA4	183	C703_112.4 P100 BE100LA4	C703_112.4 P100 BX100LA4	184
13.1	1497	2.7	109.5	35000	C803_109.5 S3 ME3LA4	C803_109.5 S3 MX3LA4	186	C803_109.5 P100 BE100LA4	C803_109.5 P100 BX100LA4	187
13.8	1419	1.6	103.8	25000	C703_103.8 S3 ME3LA4	C703_103.8 S3 MX3LA4	183	C703_103.8 P100 BE100LA4	C703_103.8 P100 BX100LA4	184
13.8	1371	1.2	103.6	16000	C613_103.6 S3 ME3LA4	C613_103.6 S3 MX3LA4	179	C613_103.6 P100 BE100LA4	C613_103.6 P100 BX100LA4	180
14.7	1331	3.0	97.4	35000	C803_97.4 S3 ME3LA4	C803_97.4 S3 MX3LA4	186	C803_97.4 P100 BE100LA4	C803_97.4 P100 BX100LA4	187
15.7	1204	1.3	91.0	16000	C613_91.0 S3 ME3LA4	C613_91.0 S3 MX3LA4	179	C613_91.0 P100 BE100LA4	C613_91.0 P100 BX100LA4	180
16.0	1220	3.3	89.3	35000	C803_89.3 S3 ME3LA4	C803_89.3 S3 MX3LA4	186	C803_89.3 P100 BE100LA4	C803_89.3 P100 BX100LA4	187
16.2	1206	1.9	88.2	25000	C703_88.2 S3 ME3LA4	C703_88.2 S3 MX3LA4	183	C703_88.2 P100 BE100LA4	C703_88.2 P100 BX100LA4	184
17.2	1099	1.5	83.0	16000	C613_83.0 S3 ME3LA4	C613_83.0 S3 MX3LA4	179	C613_83.0 P100 BE100LA4	C613_83.0 P100 BX100LA4	180
17.6	1113	2.1	81.4	25000	C703_81.4 S3 ME3LA4	C703_81.4 S3 MX3LA4	183	C703_81.4 P100 BE100LA4	C703_81.4 P100 BX100LA4	184
17.9	1092	0.9	79.9	10000	C513_79.9 S3 ME3LA4	C513_79.9 S3 MX3LA4	175	C513_79.9 P100 BE100LA4	C513_79.9 P100 BX100LA4	176
19.3	982	1.6	74.2	16000	C613_74.2 S3 ME3LA4	C613_74.2 S3 MX3LA4	179	C613_74.2 P100 BE100LA4	C613_74.2 P100 BX100LA4	180
19.6	997	1.0	72.9	10000	C513_72.9 S3 ME3LA4	C513_72.9 S3 MX3LA4	175	C513_72.9 P100 BE100LA4	C513_72.9 P100 BX100LA4	176
20.0	975	2.4	71.3	25000	C703_71.3 S3 ME3LA4	C703_71.3 S3 MX3LA4	183	C703_71.3 P100 BE100LA4	C703_71.3 P100 BX100LA4	184
21.1	896	1.8	67.7	16000	C613_67.7 S3 ME3LA4	C613_67.7 S3 MX3LA4	179	C613_67.7 P100 BE100LA4	C613_67.7 P100 BX100LA4	180
21.7	900	2.6	65.9	25000	C703_65.9 S3 ME3LA4	C703_65.9 S3 MX3LA4	183	C703_65.9 P100 BE100LA4	C703_65.9 P100 BX100LA4	184
22.1	883	1.1	64.6	10000	C513_64.6 S3 ME3LA4	C513_64.6 S3 MX3LA4	175	C513_64.6 P100 BE100LA4	C513_64.6 P100 BX100LA4	176
24.2	806	1.2	59.0	10000	C513_59.0 S3 ME3LA4	C513_59.0 S3 MX3LA4	175	C513_59.0 P100 BE100LA4	C513_59.0 P100 BX100LA4	176
24.4	775	2.1	58.6	16000	C613_58.6 S3 ME3LA4	C613_58.6 S3 MX3LA4	179	C613_58.6 P100 BE100LA4	C613_58.6 P100 BX100LA4	180
25.1	796	1.0	57.0	10000	C512_57.0 S3 ME3LA4	C512_57.0 S3 MX3LA4	175	C512_57.0 P100 BE100LA4	C512_57.0 P100 BX100LA4	176
25.3	773	3.0	56.5	25000	C703_56.5 S3 ME3LA4	C703_56.5 S3 MX3LA4	183	C703_56.5 P100 BE100LA4	C703_56.5 P100 BX100LA4	184
26.7	707	2.3	53.5	16000	C613_53.5 S3 ME3LA4	C613_53.5 S3 MX3LA4	179	C613_53.5 P100 BE100LA4	C613_53.5 P100 BX100LA4	180
27.8	718	1.0	51.4	10000	C512_51.4 S3 ME3LA4	C512_51.4 S3 MX3LA4	175	C512_51.4 P100 BE100LA4	C512_51.4 P100 BX100LA4	176
27.9	700	1.4	51.2	10000	C513_51.2 S3 ME3LA4	C513_51.2 S3 MX3LA4	175	C513_51.2 P100 BE100LA4	C513_51.2 P100 BX100LA4	176
29.9	668	1.2	47.8	10000	C512_47.8 S3 ME3LA4	C512_47.8 S3 MX3LA4	175	C512_47.8 P100 BE100LA4	C512_47.8 P100 BX100LA4	176
30	630	2.5	47.6	16000	C613_47.6 S3 ME3LA4	C613_47.6 S3 MX3LA4	179	C613_47.6 P100 BE100LA4	C613_47.6 P100 BX100LA4	180
30	642	0.9	47.0	6440	C413_47.0 S3 ME3LA4	C413_47.0 S3 MX3LA4	171	C413_47.0 P100 BE100LA4	C413_47.0 P100 BX100LA4	172
31	639	1.6	46.7	10000	C513_46.7 S3 ME3LA4	C513_46.7 S3 MX3LA4	175	C513_46.7 P100 BE100LA4	C513_46.7 P100 BX100LA4	176
33	575	2.8	43.4	16000	C613_43.4 S3 ME3LA4	C613_43.4 S3 MX3LA4	179	C613_43.4 P100 BE100LA4	C613_43.4 P100 BX100LA4	180
33	602	1.3	43.1	10000	C512_43.1 S3 ME3LA4	C512_43.1 S3 MX3LA4	175	C512_43.1 P100 BE100LA4	C512_43.1 P100 BX100LA4	176
35	553	1.8	40.5	10000	C513_40.5 S3 ME3LA4	C513_40.5 S3 MX3LA4	175	C513_40.5 P100 BE100LA4	C513_40.5 P100 BX100LA4	176
35	564	1.4	40.4	10000	C512_40.4 S3 ME3LA4	C512_40.4 S3 MX3LA4	175	C512_40.4 P100 BE100LA4	C512_40.4 P100 BX100LA4	176
35	551	1.1	40.3	6460	C413_40.3 S3 ME3LA4	C413_40.3 S3 MX3LA4	171	C413_40.3 P100 BE100LA4	C413_40.3 P100 BX100LA4	172
38	531	2.5	38.0	16000	C612_38.0 S3 ME3LA4	C612_38.0 S3 MX3LA4	179	C612_38.0 P100 BE100LA4	C612_38.0 P100 BX100LA4	180
39	518	1.0	37.1	6370	C412_37.1 S3 ME3LA4	C412_37.1 S3 MX3LA4	171	C412_37.1 P100 BE100LA4	C412_37.1 P100 BX100LA4	172
39	505	2.0	37.0	10000	C513_37.0 S3 ME3LA4	C513_37.0 S3 MX3LA4	175	C513_37.0 P100 BE100LA4	C513_37.0 P100 BX100LA4	176
39	503	1.2	36.8	6390	C413_36.8 S3 ME3LA4	C413_36.8 S3 MX3LA4	171	C413_36.8 P100 BE100LA4	C413_36.8 P100 BX100LA4	172
39	508	1.6	36.4	10000	C512_36.4 S3 ME3LA4	C512_36.4 S3 MX3LA4	175	C512_36.4 P100 BE100LA4	C512_36.4 P100 BX100LA4	176
41	473	1.0	34.6	5350	C363_34.6 S3 ME3LA4	C363_34.6 S3 MX3LA4	167	C363_34.6 P100 BE100LA4	C363_34.6 P100 BX100LA4	168
42	478	2.6	34.2	16000	C612_34.2 S3 ME3LA4	C612_34.2 S3 MX3LA4	179	C612_34.2 P100 BE100LA4	C612_34.2 P100 BX100LA4	180
43	466	1.1	33.4	6290	C412_33.4 S3 ME3LA4	C412_33.4 S3 MX3LA4	171	C412_33.4 P100 BE100LA4	C412_33.4 P100 BX100LA4	172
43	461	1.7	33.0	10000	C512_33.0 S3 ME3LA4	C512_33.0 S3 MX3LA4	175	C512_33.0 P100 BE100LA4	C512_33.0 P100 BX100LA4	176

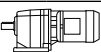


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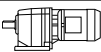
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min-1	Nm			N	IE2	IE3		IE2	IE3		
45	439	1.1	31.4	6290	C412_31.4 S3 ME3LA4	C412_31.4 S3 MX3LA4	171	C412_31.4 P100 BE100LA4	C412_31.4 P100 BX100LA4	172	
47	425	3.2	30.4	16000	C612_30.4 S3 ME3LA4	C612_30.4 S3 MX3LA4	179	C612_30.4 P100 BE100LA4	C612_30.4 P100 BX100LA4	180	
48	411	2.4	30.1	10000	C513_30.1 S3 ME3LA4	C513_30.1 S3 MX3LA4	175	C513_30.1 P100 BE100LA4	C513_30.1 P100 BX100LA4	176	
48	416	1.9	29.8	10000	C512_29.8 S3 ME3LA4	C512_29.8 S3 MX3LA4	175	C512_29.8 P100 BE100LA4	C512_29.8 P100 BX100LA4	176	
50	393	1.1	28.7	5220	C363_28.7 S3 ME3LA4	C363_28.7 S3 MX3LA4	167	C363_28.7 P100 BE100LA4	C363_28.7 P100 BX100LA4	168	
51	395	1.3	28.3	6190	C412_28.3 S3 ME3LA4	C412_28.3 S3 MX3LA4	171	C412_28.3 P100 BE100LA4	C412_28.3 P100 BX100LA4	172	
52	375	2.6	27.4	10000	C513_27.4 S3 ME3LA4	C513_27.4 S3 MX3LA4	175	C513_27.4 P100 BE100LA4	C513_27.4 P100 BX100LA4	176	
52	383	3.5	27.4	15900	C612_27.4 S3 ME3LA4	C612_27.4 S3 MX3LA4	179	C612_27.4 P100 BE100LA4	C612_27.4 P100 BX100LA4	180	
55	358	1.2	26.2	5140	C363_26.2 S3 ME3LA4	C363_26.2 S3 MX3LA4	167	C363_26.2 P100 BE100LA4	C363_26.2 P100 BX100LA4	168	
55	362	2.2	25.9	10000	C512_25.9 S3 ME3LA4	C512_25.9 S3 MX3LA4	175	C512_25.9 P100 BE100LA4	C512_25.9 P100 BX100LA4	176	
57	351	0.9	25.1	4270	C322_25.1 S3 ME3LA4	C322_25.1 S3 MX3LA4	163	C322_25.1 P100 BE100LA4	C322_25.1 P100 BX100LA4	164	
57	350	1.4	25.0	6120	C412_25.0 S3 ME3LA4	C412_25.0 S3 MX3LA4	171	C412_25.0 P100 BE100LA4	C412_25.0 P100 BX100LA4	172	
61	326	2.5	23.4	10000	C512_23.4 S3 ME3LA4	C512_23.4 S3 MX3LA4	175	C512_23.4 P100 BE100LA4	C512_23.4 P100 BX100LA4	176	
62	320	0.9	22.9	4240	C322_22.9 S3 ME3LA4	C322_22.9 S3 MX3LA4	163	C322_22.9 P100 BE100LA4	C322_22.9 P100 BX100LA4	164	
63	315	1.6	22.6	6000	C412_22.6 S3 ME3LA4	C412_22.6 S3 MX3LA4	171	C412_22.6 P100 BE100LA4	C412_22.6 P100 BX100LA4	172	
65	303	1.4	22.1	5060	C363_22.1 S3 ME3LA4	C363_22.1 S3 MX3LA4	167	C363_22.1 P100 BE100LA4	C363_22.1 P100 BX100LA4	168	
68	293	2.7	21.0	10000	C512_21.0 S3 ME3LA4	C512_21.0 S3 MX3LA4	175	C512_21.0 P100 BE100LA4	C512_21.0 P100 BX100LA4	176	
71	280	1.1	20.1	4200	C322_20.1 S3 ME3LA4	C322_20.1 S3 MX3LA4	163	C322_20.1 P100 BE100LA4	C322_20.1 P100 BX100LA4	164	
72	276	1.8	19.8	5890	C412_19.8 S3 ME3LA4	C412_19.8 S3 MX3LA4	171	C412_19.8 P100 BE100LA4	C412_19.8 P100 BX100LA4	172	
75	265	1.4	19.0	4920	C362_19.0 S3 ME3LA4	C362_19.0 S3 MX3LA4	167	C362_19.0 P100 BE100LA4	C362_19.0 P100 BX100LA4	168	
76	264	3.0	18.9	10000	C512_18.9 S3 ME3LA4	C512_18.9 S3 MX3LA4	175	C512_18.9 P100 BE100LA4	C512_18.9 P100 BX100LA4	176	
77	258	1.0	12.3	4100	C322_12.3 S4 ME4SA6		163	C322_12.3 P112 BE112M6		164	
79	254	1.1	18.2	4120	C322_18.2 S3 ME3LA4	C322_18.2 S3 MX3LA4	163	C322_18.2 P100 BE100LA4	C322_18.2 P100 BX100LA4	164	
80	248	1.9	17.8	5760	C412_17.8 S3 ME3LA4	C412_17.8 S3 MX3LA4	171	C412_17.8 P100 BE100LA4	C412_17.8 P100 BX100LA4	172	
83	240	1.6	17.2	4800	C362_17.2 S3 ME3LA4	C362_17.2 S3 MX3LA4	167	C362_17.2 P100 BE100LA4	C362_17.2 P100 BX100LA4	168	
85	234	1.0	11.2	4060	C322_11.2 S4 ME4SA6		163	C322_11.2 P112 BE112M6		164	
90	221	2.0	15.8	5650	C412_15.8 S3 ME3LA4	C412_15.8 S3 MX3LA4	171	C412_15.8 P100 BE100LA4	C412_15.8 P100 BX100LA4	172	
92	218	1.2	15.6	4060	C322_15.6 S3 ME3LA4	C322_15.6 S3 MX3LA4	163	C322_15.6 P100 BE100LA4	C322_15.6 P100 BX100LA4	164	
97	206	1.8	14.8	4710	C362_14.8 S3 ME3LA4	C362_14.8 S3 MX3LA4	167	C362_14.8 P100 BE100LA4	C362_14.8 P100 BX100LA4	168	
100	199	2.2	14.2	5510	C412_14.2 S3 ME3LA4	C412_14.2 S3 MX3LA4	171	C412_14.2 P100 BE100LA4	C412_14.2 P100 BX100LA4	172	
102	197	1.3	14.1	3980	C322_14.1 S3 ME3LA4	C322_14.1 S3 MX3LA4	163	C322_14.1 P100 BE100LA4	C322_14.1 P100 BX100LA4	164	
103	194	1.1	9.3	3960	C322_9.3 S4 ME4SA6		163	C322_9.3 P112 BE112M6		164	
107	186	2.0	13.3	4590	C362_13.3 S3 ME3LA4	C362_13.3 S3 MX3LA4	167	C362_13.3 P100 BE100LA4	C362_13.3 P100 BX100LA4	168	
113	177	1.2	8.5	3890	C322_8.5 S4 ME4SA6		163	C322_8.5 P112 BE112M6		164	
115	173	0.9	12.4	2270	C222_12.4 S3 ME3LA4	C222_12.4 S3 MX3LA4	159	C222_12.4 P100 BE100LA4	C222_12.4 P100 BX100LA4	160	
115	173	2.5	12.4	5360	C412_12.4 S3 ME3LA4	C412_12.4 S3 MX3LA4	171	C412_12.4 P100 BE100LA4	C412_12.4 P100 BX100LA4	172	
116	172	1.4	12.3	3900	C322_12.3 S3 ME3LA4	C322_12.3 S3 MX3LA4	163	C322_12.3 P100 BE100LA4	C322_12.3 P100 BX100LA4	164	
123	163	2.3	11.7	4490	C362_11.7 S3 ME3LA4	C362_11.7 S3 MX3LA4	167	C362_11.7 P100 BE100LA4	C362_11.7 P100 BX100LA4	168	
128	156	1.5	11.2	3800	C322_11.2 S3 ME3LA4	C322_11.2 S3 MX3LA4	163	C322_11.2 P100 BE100LA4	C322_11.2 P100 BX100LA4	164	
128	156	2.7	11.2	5220	C412_11.2 S3 ME3LA4	C412_11.2 S3 MX3LA4	171	C412_11.2 P100 BE100LA4	C412_11.2 P100 BX100LA4	172	
129	155	1.0	11.1	2250	C222_11.1 S3 ME3LA4	C222_11.1 S3 MX3LA4	159	C222_11.1 P100 BE100LA4	C222_11.1 P100 BX100LA4	160	
133	150	1.3	7.2	3810	C322_7.2 S4 ME4SA6		163	C322_7.2 P112 BE112M6		164	
135	148	2.6	10.6	4320	C362_10.6 S3 ME3LA4	C362_10.6 S3 MX3LA4	167	C362_10.6 P100 BE100LA4	C362_10.6 P100 BX100LA4	168	
148	135	1.1	9.6	2250	C222_9.6 S3 ME3LA4	C222_9.6 S3 MX3LA4	159	C222_9.6 P100 BE100LA4	C222_9.6 P100 BX100LA4	160	
149	134	2.9	9.6	5050	C412_9.6 S3 ME3LA4	C412_9.6 S3 MX3LA4	171	C412_9.6 P100 BE100LA4	C412_9.6 P100 BX100LA4	172	
152	131	1.2	6.3	3510	C322_6.3 S4 ME4SA6		163	C322_6.3 P112 BE112M6		164	
154	130	1.7	9.3	3690	C322_9.3 S3 ME3LA4	C322_9.3 S3 MX3LA4	163	C322_9.3 P100 BE100LA4	C322_9.3 P100 BX100LA4	164	
163	123	3.1	8.8	4210	C362_8.8 S3 ME3LA4	C362_8.8 S3 MX3LA4	167	C362_8.8 P100 BE100LA4	C362_8.8 P100 BX100LA4	168	
165	121	1.1	8.7	2220	C222_8.7 S3 ME3LA4	C222_8.7 S3 MX3LA4	159	C222_8.7 P100 BE100LA4	C222_8.7 P100 BX100LA4	160	
165	121	3.2	8.6	4850	C412_8.6 S3 ME3LA4	C412_8.6 S3 MX3LA4	171	C412_8.6 P100 BE100LA4	C412_8.6 P100 BX100LA4	172	
169	118	1.8	8.5	3600	C322_8.5 S3 ME3LA4	C322_8.5 S3 MX3LA4	163	C322_8.5 P100 BE100LA4	C322_8.5 P100 BX100LA4	164	
169	118	1.3	5.7	3450	C322_5.7 S4 ME4SA6		163	C322_5.7 P112 BE112M6		164	
193	103	1.5	5.0	3410	C322_5.0 S4 ME4SA6		163	C322_5.0 P112 BE112M6		164	
200	100	2.0	7.2	3480	C322_7.2 S3 ME3LA4	C322_7.2 S3 MX3LA4	163	C322_7.2 P100 BE100LA4	C322_7.2 P100 BX100LA4	164	
202	99	1.3	7.1	2180	C222_7.1 S3 ME3LA4	C222_7.1 S3 MX3LA4	159	C222_7.1 P100 BE100LA4	C222_7.1 P100 BX100LA4	160	
228	87	1.8	6.3	3250	C322_6.3 S3 ME3LA4	C322_6.3 S3 MX3LA4	163	C322_6.3 P100 BE100LA4	C322_6.3 P100 BX100LA4	164	
235	85	1.2	6.1	2040	C222_6.1 S3 ME3LA4	C222_6.1 S3 MX3LA4	159	C222_6.1 P100 BE100LA4	C222_6.1 P100 BX100LA4	160	
245	82	2.4	5.8	3710	C362_5.8 S3 ME3LA4	C362_5.8 S3 MX3LA4	167	C362_5.8 P100 BE100LA4	C362_5.8 P100 BX100LA4	168	
253	79	2.0	5.7	3180	C322_5.7 S3 ME3LA4	C322_5.7 S3 MX3LA4	163	C322_5.7 P100 BE100LA4	C322_5.7 P100 BX100LA4	164	
256	78	1.3	5.6	2050	C222_5.6 S3 ME3LA4	C222_5.6 S3 MX3LA4	159	C222_5.6 P100 BE100LA4	C222_5.6 P100 BX100LA4	160	
271	74	2.7	5.3	3550	C362_5.3 S3 ME3LA4	C362_5.3 S3 MX3LA4	167	C362_5.3 P100 BE100LA4	C362_5.3 P100 BX100LA4	168	
289	69	2.2	5.0	3100	C322_5.0 S3 ME3LA4	C322_5.0 S3 MX3LA4	163	C322_5.0 P100 BE100LA4	C322_5.0 P100 BX100LA4	164	
300	67	1.5	4.8	1970	C222_4.8 S3 ME3LA4	C222_4.8 S3 MX3LA4	159	C222_4.8 P100 BE100LA4	C222_4.8 P100 BX100LA4	160	
309	65	3.4	9.3	3130	C322_9.3 S3 ME3LA2		163	C322_9.3 P90 BE90L2		164	
309	65	3.1	4.6	3490	C362_4.6 S3 ME3LA4	C362_4.6 S3 MX3LA4	167	C362_4.6 P100 BE100LA4	C362_4.6 P100 BX100LA4	168	
318	63	2.4	4.5	3000	C322_4.5 S3 ME3LA4	C322_4.5 S3 MX3LA4	163	C322_4.5 P100 BE100LA4	C322_4.5 P100 BX100LA4	164	
332	60	2.3	8.7	2000	C222_8.7 S3 ME3LA2		159	C222_8.7 P90 BE90L2		160	
336	59	1.6	4.3	1970	C222_4.3 S3 ME3LA4	C222_4.3 S3 MX3LA4	159	C222_4.3 P100 BE100LA4	C222_4.3 P100 BX100LA4	160	

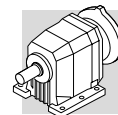


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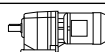
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					IE2	IE3	IE2	IE3
355	56	3.6	2.7	3380	C362_2.7 S4 ME4SA6		C362_2.7 P112 BE112M6	168
377	53	1.1	7.6	930	C122_7.6 S3 ME3LA2	C322_3.7 S3 MX3LA4 C222_3.7 S3 MX3LA4	C122_7.6 P90 BE90L2	156
383	52	2.9	3.7	2890	C322_3.7 S3 ME3LA4		C322_3.7 P100 BE100LA4	164
386	52	1.7	3.7	1890	C222_3.7 S3 ME3LA4		C222_3.7 P100 BE100LA4	160
401	50	4.0	7.2	2920	C322_7.2 S3 ME3LA2		C322_7.2 P90 BE90L2	164
405	49	2.6	7.1	1920	C222_7.1 S3 ME3LA2		C222_7.1 P90 BE90L2	160
419	48	2.9	3.4	2800	C322_3.4 S3 ME3LA4	C322_3.4 S3 MX3LA4 C222_3.3 S3 MX3LA4 C122_3.2 S3 MX3LA4	C322_3.4 P100 BE100LA4	164
430	46	1.8	3.3	1890	C222_3.3 S3 ME3LA4		C222_3.3 P100 BE100LA4	160
446	45	0.9	3.2	580	C122_3.2 S3 ME3LA4		C122_3.2 P100 BE100LA4	156
458	44	3.6	6.3	2760	C322_6.3 S3 ME3LA2		C322_6.3 P90 BE90L2	164
472	42	2.5	6.1	1820	C222_6.1 S3 ME3LA2		C222_6.1 P90 BE90L2	160
497	40	3.2	2.9	2700	C322_2.9 S3 ME3LA4	C322_2.9 S3 MX3LA4 C122_2.8 S3 MX3LA4 C222_2.7 S3 MX3LA4	C322_2.9 P100 BE100LA4	164
513	39	2.6	5.6	1770	C222_5.6 S3 ME3LA2		C222_5.6 P90 BE90L2	160
517	39	1.0	2.8	690	C122_2.8 S3 ME3LA4		C122_2.8 P100 BE100LA4	156
525	38	2.1	2.7	1770	C222_2.7 S3 ME3LA4		C222_2.7 P100 BE100LA4	160
602	33	3.0	4.8	1720	C222_4.8 S3 ME3LA2		C222_4.8 P90 BE90L2	160
674	30	3.2	4.3	1670	C222_4.3 S3 ME3LA2		C222_4.3 P90 BE90L2	160
774	26	3.5	3.7	1620	C222_3.7 S3 ME3LA2		C222_3.7 P90 BE90L2	160
786	25	1.7	3.7	970	C122_3.7 S3 ME3LA2		C122_3.7 P90 BE90L2	156
863	23	3.7	3.3	1550	C222_3.3 S3 ME3LA2		C222_3.3 P90 BE90L2	160
895	22	1.8	3.2	940	C122_3.2 S3 ME3LA2		C122_3.2 P90 BE90L2	156
1037	19	1.9	2.8	920	C122_2.8 S3 ME3LA2		C122_2.8 P90 BE90L2	156
1054	19	4.2	2.7	1490	C222_2.7 S3 ME3LA2		C222_2.7 P90 BE90L2	160

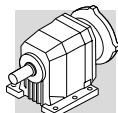
2.2 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N				
					IE3		IE3	
1.4	13281	0.9	1004	85000			C1004_1004 P100 BXN100LA4	193
1.6	12016	1.0	908.2	85000			C1004_908.2 P100 BXN100LA4	193
1.7	11157	1.1	843.3	85000			C1004_843.3 P100 BXN100LA4	193
1.8	10263	1.2	775.7	85000			C1004_775.7 P100 BXN100LA4	193
2.0	9530	1.3	720.3	85000			C1004_720.3 P100 BXN100LA4	193
2.3	8301	1.4	627.4	85000			C1004_627.4 P100 BXN100LA4	193
2.5	7710	0.9	582.8	60000			C904_582.8 P100 BXN100LA4	190
2.5	7708	1.6	582.6	85000			C1004_582.6 P100 BXN100LA4	193
2.7	7068	1.0	534.2	60000			C904_534.2 P100 BXN100LA4	190
2.8	6650	1.8	502.6	85000			C1004_502.6 P100 BXN100LA4	193
3.1	6175	1.9	466.7	85000			C1004_466.7 P100 BXN100LA4	193
3.1	6048	1.2	457.1	60000			C904_457.1 P100 BXN100LA4	190
3.4	5544	1.3	419.0	60000			C904_419.0 P100 BXN100LA4	190
3.5	5421	2.2	409.8	85000			C1004_409.8 P100 BXN100LA4	193
3.8	5034	2.4	380.5	85000			C1004_380.5 P100 BXN100LA4	193
3.9	4892	1.5	369.8	60000			C904_369.8 P100 BXN100LA4	190
4.2	4484	1.6	339.0	60000			C904_339.0 P100 BXN100LA4	190
4.3	4422	0.9	334.3	35000			C804_334.3 P100 BXN100LA4	187
4.4	4282	2.8	323.6	85000			C1004_323.6 P100 BXN100LA4	193
4.9	3875	1.9	292.9	60000			C904_292.9 P100 BXN100LA4	190
5.0	3779	1.1	285.7	35000			C804_285.7 P100 BXN100LA4	187
5.3	3552	2.0	268.5	60000			C904_268.5 P100 BXN100LA4	190
5.5	3464	1.2	261.9	35000			C804_261.9 P100 BXN100LA4	187
6.2	3065	2.3	231.7	60000			C904_231.7 P100 BXN100LA4	190
6.6	2951	1.4	215.8	35000			C803_215.8 P100 BXN100LA4	187
6.7	2810	2.6	212.4	60000			C904_212.4 P100 BXN100LA4	190
7.2	2705	1.4	197.9	35000			C803_197.9 P100 BXN100LA4	187
7.8	2520	1.6	184.4	35000			C803_184.4 P100 BXN100LA4	187
8.0	2450	0.9	179.2	25000			C703_179.2 P100 BXN100LA4	184
8.5	2310	1.7	169.0	35000			C803_169.0 P100 BXN100LA4	187
8.8	2226	1.0	162.8	25000			C703_162.8 P100 BXN100LA4	184
9.5	2055	1.1	150.3	25000			C703_150.3 P100 BXN100LA4	184
9.6	2038	2.0	149.1	35000			C803_149.1 P100 BXN100LA4	187

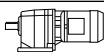


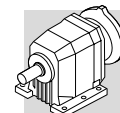
2.2 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IE3	
10.4	1878	1.2	137.4	25000		C703_137.4 P100 BXN100LA4	184
10.5	1869	2.1	136.7	35000		C803_136.7 P100 BXN100LA4	187
11.2	1695	0.9	128.1	16000		C613_128.1 P100 BXN100LA4	180
11.3	1734	1.3	126.8	25000		C703_126.8 P100 BXN100LA4	184
12.0	1633	2.4	119.5	35000		C803_119.5 P100 BXN100LA4	187
12.6	1503	1.1	113.6	16000		C613_113.6 P100 BXN100LA4	180
12.7	1537	1.5	112.4	25000		C703_112.4 P100 BXN100LA4	184
13.1	1497	2.7	109.5	35000		C803_109.5 P100 BXN100LA4	187
13.8	1419	1.6	103.8	25000		C703_103.8 P100 BXN100LA4	184
13.8	1371	1.2	103.6	16000		C613_103.6 P100 BXN100LA4	180
14.7	1331	3.0	97.4	35000		C803_97.4 P100 BXN100LA4	187
15.7	1204	1.3	91.0	16000		C613_91.0 P100 BXN100LA4	180
16.0	1220	3.3	89.3	35000		C803_89.3 P100 BXN100LA4	187
16.2	1206	1.9	88.2	25000		C703_88.2 P100 BXN100LA4	184
17.2	1099	1.5	83.0	16000		C613_83.0 P100 BXN100LA4	180
17.6	1113	2.1	81.4	25000		C703_81.4 P100 BXN100LA4	184
17.9	1092	0.9	79.9	10000		C513_79.9 P100 BXN100LA4	176
19.3	982	1.6	74.2	16000		C613_74.2 P100 BXN100LA4	180
19.6	997	1.0	72.9	10000		C513_72.9 P100 BXN100LA4	176
20.0	975	2.4	71.3	25000		C703_71.3 P100 BXN100LA4	184
21.1	896	1.8	67.7	16000		C613_67.7 P100 BXN100LA4	180
21.7	900	2.6	65.9	25000		C703_65.9 P100 BXN100LA4	184
22.1	883	1.1	64.6	10000		C513_64.6 P100 BXN100LA4	176
24.2	806	1.2	59.0	10000		C513_59.0 P100 BXN100LA4	176
24.4	775	2.1	58.6	16000		C613_58.6 P100 BXN100LA4	180
25.1	796	1.0	57.0	10000		C512_57.0 P100 BXN100LA4	176
25.3	773	3.0	56.5	25000		C703_56.5 P100 BXN100LA4	184
26.7	707	2.3	53.5	16000		C613_53.5 P100 BXN100LA4	180
27.8	718	1.0	51.4	10000		C512_51.4 P100 BXN100LA4	176
27.9	700	1.4	51.2	10000		C513_51.2 P100 BXN100LA4	176
29.9	668	1.2	47.8	10000		C512_47.8 P100 BXN100LA4	176
30	630	2.5	47.6	16000		C613_47.6 P100 BXN100LA4	180
30	642	0.9	47.0	6440		C413_47.0 P100 BXN100LA4	172
31	639	1.6	46.7	10000		C513_46.7 P100 BXN100LA4	176
33	575	2.8	43.4	16000		C613_43.4 P100 BXN100LA4	180
33	602	1.3	43.1	10000		C512_43.1 P100 BXN100LA4	176
35	553	1.8	40.5	10000		C513_40.5 P100 BXN100LA4	176
35	564	1.4	40.4	10000		C512_40.4 P100 BXN100LA4	176
35	551	1.1	40.3	6460		C413_40.3 P100 BXN100LA4	172
38	531	2.5	38.0	16000		C612_38.0 P100 BXN100LA4	180
39	518	1.0	37.1	6370		C412_37.1 P100 BXN100LA4	172
39	505	2.0	37.0	10000		C513_37.0 P100 BXN100LA4	176
39	503	1.2	36.8	6390		C413_36.8 P100 BXN100LA4	172
39	508	1.6	36.4	10000		C512_36.4 P100 BXN100LA4	176
41	473	1.0	34.6	5350		C363_34.6 P100 BXN100LA4	168
42	478	2.6	34.2	16000		C612_34.2 P100 BXN100LA4	180
43	466	1.1	33.4	6290		C412_33.4 P100 BXN100LA4	172
43	461	1.7	33.0	10000		C512_33.0 P100 BXN100LA4	176
45	439	1.1	31.4	6290		C412_31.4 P100 BXN100LA4	172
47	425	3.2	30.4	16000		C612_30.4 P100 BXN100LA4	180
48	411	2.4	30.1	10000		C513_30.1 P100 BXN100LA4	176
48	416	1.9	29.8	10000		C512_29.8 P100 BXN100LA4	176
50	393	1.1	28.7	5220		C363_28.7 P100 BXN100LA4	168
51	395	1.3	28.3	6190		C412_28.3 P100 BXN100LA4	172
52	375	2.6	27.4	10000		C513_27.4 P100 BXN100LA4	176
52	383	3.5	27.4	15900		C612_27.4 P100 BXN100LA4	180
55	358	1.2	26.2	5140		C363_26.2 P100 BXN100LA4	168
55	362	2.2	25.9	10000		C512_25.9 P100 BXN100LA4	176
57	351	0.9	25.1	4270		C322_25.1 P100 BXN100LA4	164
57	350	1.4	25.0	6120		C412_25.0 P100 BXN100LA4	172
61	326	2.5	23.4	10000		C512_23.4 P100 BXN100LA4	176
62	320	0.9	22.9	4240		C322_22.9 P100 BXN100LA4	164

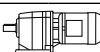


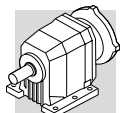
2.2 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IE3	 IE3	
63	315	1.6	22.6	6000			C412_22.6 P100 BXN100LA4	172
65	303	1.4	22.1	5060			C363_22.1 P100 BXN100LA4	168
68	293	2.7	21.0	10000			C512_21.0 P100 BXN100LA4	176
71	280	1.1	20.1	4200			C322_20.1 P100 BXN100LA4	164
72	276	1.8	19.8	5890			C412_19.8 P100 BXN100LA4	172
75	265	1.4	19.0	4920			C362_19.0 P100 BXN100LA4	168
76	264	3.0	18.9	10000			C512_18.9 P100 BXN100LA4	176
79	254	1.1	18.2	4120			C322_18.2 P100 BXN100LA4	164
80	248	1.9	17.8	5760			C412_17.8 P100 BXN100LA4	172
83	240	1.6	17.2	4800			C362_17.2 P100 BXN100LA4	168
90	221	2.0	15.8	5650			C412_15.8 P100 BXN100LA4	172
92	218	1.2	15.6	4060			C322_15.6 P100 BXN100LA4	164
97	206	1.8	14.8	4710			C362_14.8 P100 BXN100LA4	168
100	199	2.2	14.2	5510			C412_14.2 P100 BXN100LA4	172
102	197	1.3	14.1	3980			C322_14.1 P100 BXN100LA4	164
107	186	2.0	13.3	4590			C362_13.3 P100 BXN100LA4	168
115	173	0.9	12.4	2270			C222_12.4 P100 BXN100LA4	160
115	173	2.5	12.4	5360			C412_12.4 P100 BXN100LA4	172
116	172	1.4	12.3	3900			C322_12.3 P100 BXN100LA4	164
123	163	2.3	11.7	4490			C362_11.7 P100 BXN100LA4	168
128	156	1.5	11.2	3800			C322_11.2 P100 BXN100LA4	164
128	156	2.7	11.2	5220			C412_11.2 P100 BXN100LA4	172
129	155	1.0	11.1	2250			C222_11.1 P100 BXN100LA4	160
135	148	2.6	10.6	4320			C362_10.6 P100 BXN100LA4	168
148	135	1.1	9.6	2250			C222_9.6 P100 BXN100LA4	160
149	134	2.9	9.6	5050			C412_9.6 P100 BXN100LA4	172
154	130	1.7	9.3	3690			C322_9.3 P100 BXN100LA4	164
163	123	3.1	8.8	4210			C362_8.8 P100 BXN100LA4	168
165	121	1.1	8.7	2220			C222_8.7 P100 BXN100LA4	160
165	121	3.2	8.6	4850			C412_8.6 P100 BXN100LA4	172
169	118	1.8	8.5	3600			C322_8.5 P100 BXN100LA4	164
200	100	2.0	7.2	3480			C322_7.2 P100 BXN100LA4	164
202	99	1.3	7.1	2180			C222_7.1 P100 BXN100LA4	160
228	87	1.8	6.3	3250			C322_6.3 P100 BXN100LA4	164
235	85	1.2	6.1	2040			C222_6.1 P100 BXN100LA4	160
245	82	2.4	5.8	3710			C362_5.8 P100 BXN100LA4	168
253	79	2.0	5.7	3180			C322_5.7 P100 BXN100LA4	164
256	78	1.3	5.6	2050			C222_5.6 P100 BXN100LA4	160
271	74	2.7	5.3	3550			C362_5.3 P100 BXN100LA4	168
289	69	2.2	5.0	3100			C322_5.0 P100 BXN100LA4	164
300	67	1.5	4.8	1970			C222_4.8 P100 BXN100LA4	160
309	65	3.1	4.6	3490			C362_4.6 P100 BXN100LA4	168
318	63	2.4	4.5	3000			C322_4.5 P100 BXN100LA4	164
336	59	1.6	4.3	1970			C222_4.3 P100 BXN100LA4	160
383	52	2.9	3.7	2890			C322_3.7 P100 BXN100LA4	164
386	52	1.7	3.7	1890			C222_3.7 P100 BXN100LA4	160
419	48	2.9	3.4	2800			C322_3.4 P100 BXN100LA4	164
430	46	1.8	3.3	1890			C222_3.3 P100 BXN100LA4	160
446	45	0.9	3.2	580			C122_3.2 P100 BXN100LA4	156
497	40	3.2	2.9	2700			C322_2.9 P100 BXN100LA4	164
517	39	1.0	2.8	690			C122_2.8 P100 BXN100LA4	156
525	38	2.1	2.7	1770			C222_2.7 P100 BXN100LA4	160

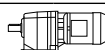


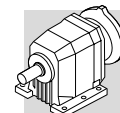
3 kW

n ₂	M ₂	S	i	R _{n2}						
min ⁻¹	Nm			N	IE2	IE3		IE2	IE3	
2.0	12965	0.9	720.3	85000	C1004_720.3 S3 ME3LB4	C1004_720.3 S3 MX3LB4	192	C1004_720.3 P100 BE100LB4	C1004_720.3 P100 BX100LB4	193
2.3	11293	1.1	627.4	85000	C1004_627.4 S3 ME3LB4	C1004_627.4 S3 MX3LB4	192	C1004_627.4 P100 BE100LB4	C1004_627.4 P100 BX100LB4	193
2.5	10487	1.1	582.6	85000	C1004_582.6 S3 ME3LB4	C1004_582.6 S3 MX3LB4	192	C1004_582.6 P100 BE100LB4	C1004_582.6 P100 BX100LB4	193
2.9	9047	1.3	502.6	85000	C1004_502.6 S3 ME3LB4	C1004_502.6 S3 MX3LB4	192	C1004_502.6 P100 BE100LB4	C1004_502.6 P100 BX100LB4	193
3.1	8401	1.4	466.7	85000	C1004_466.7 S3 ME3LB4	C1004_466.7 S3 MX3LB4	192	C1004_466.7 P100 BE100LB4	C1004_466.7 P100 BX100LB4	193
3.4	7543	1.0	419.0	60000	C904_419.0 S3 ME3LB4	C904_419.0 S3 MX3LB4	189	C904_419.0 P100 BE100LB4	C904_419.0 P100 BX100LB4	190
3.5	7376	1.6	409.8	85000	C1004_409.8 S3 ME3LB4	C1004_409.8 S3 MX3LB4	192	C1004_409.8 P100 BE100LB4	C1004_409.8 P100 BX100LB4	193
3.8	6849	1.8	380.5	85000	C1004_380.5 S3 ME3LB4	C1004_380.5 S3 MX3LB4	192	C1004_380.5 P100 BE100LB4	C1004_380.5 P100 BX100LB4	193
3.9	6656	1.1	369.8	60000	C904_369.8 S3 ME3LB4	C904_369.8 S3 MX3LB4	189	C904_369.8 P100 BE100LB4	C904_369.8 P100 BX100LB4	190
4.2	6101	1.2	339.0	60000	C904_339.0 S3 ME3LB4	C904_339.0 S3 MX3LB4	189	C904_339.0 P100 BE100LB4	C904_339.0 P100 BX100LB4	190
4.4	5825	2.1	323.6	85000	C1004_323.6 S3 ME3LB4	C1004_323.6 S3 MX3LB4	192	C1004_323.6 P100 BE100LB4	C1004_323.6 P100 BX100LB4	193
4.8	5409	2.2	300.5	85000	C1004_300.5 S3 ME3LB4	C1004_300.5 S3 MX3LB4	192	C1004_300.5 P100 BE100LB4	C1004_300.5 P100 BX100LB4	193
4.9	5272	1.4	292.9	60000	C904_292.9 S3 ME3LB4	C904_292.9 S3 MX3LB4	189	C904_292.9 P100 BE100LB4	C904_292.9 P100 BX100LB4	190
5.4	4833	1.5	268.5	60000	C904_268.5 S3 ME3LB4	C904_268.5 S3 MX3LB4	189	C904_268.5 P100 BE100LB4	C904_268.5 P100 BX100LB4	190
5.5	4734	2.5	263.0	85000	C1004_263.0 S3 ME3LB4	C1004_263.0 S3 MX3LB4	192	C1004_263.0 P100 BE100LB4	C1004_263.0 P100 BX100LB4	193
5.9	4396	2.7	244.2	85000	C1004_244.2 S3 ME3LB4	C1004_244.2 S3 MX3LB4	192	C1004_244.2 P100 BE100LB4	C1004_244.2 P100 BX100LB4	193
6.2	4170	1.7	231.7	60000	C904_231.7 S3 ME3LB4	C904_231.7 S3 MX3LB4	189	C904_231.7 P100 BE100LB4	C904_231.7 P100 BX100LB4	190
6.7	4015	1.0	215.8	35000	C803_215.8 S3 ME3LB4	C803_215.8 S3 MX3LB4	186	C803_215.8 P100 BE100LB4	C803_215.8 P100 BX100LB4	187
6.8	3823	1.9	212.4	60000	C904_212.4 S3 ME3LB4	C904_212.4 S3 MX3LB4	189	C904_212.4 P100 BE100LB4	C904_212.4 P100 BX100LB4	190
7.3	3680	1.0	197.9	35000	C803_197.9 S3 ME3LB4	C803_197.9 S3 MX3LB4	186	C803_197.9 P100 BE100LB4	C803_197.9 P100 BX100LB4	187
7.8	3429	1.2	184.4	35000	C803_184.4 S3 ME3LB4	C803_184.4 S3 MX3LB4	186	C803_184.4 P100 BE100LB4	C803_184.4 P100 BX100LB4	187
8.4	3201	2.2	172.1	60000	C903_172.1 S3 ME3LB4	C903_172.1 S3 MX3LB4	189	C903_172.1 P100 BE100LB4	C903_172.1 P100 BX100LB4	190
8.5	3143	1.3	169.0	35000	C803_169.0 S3 ME3LB4	C803_169.0 S3 MX3LB4	186	C803_169.0 P100 BE100LB4	C803_169.0 P100 BX100LB4	187
9.1	2934	2.4	157.8	60000	C903_157.8 S3 ME3LB4	C903_157.8 S3 MX3LB4	189	C903_157.8 P100 BE100LB4	C903_157.8 P100 BX100LB4	190
9.7	2773	1.4	149.1	35000	C803_149.1 S3 ME3LB4	C803_149.1 S3 MX3LB4	186	C803_149.1 P100 BE100LB4	C803_149.1 P100 BX100LB4	187
9.8	2722	2.6	146.3	60000	C903_146.3 S3 ME3LB4	C903_146.3 S3 MX3LB4	189	C903_146.3 P100 BE100LB4	C903_146.3 P100 BX100LB4	190
10.5	2542	1.6	136.7	35000	C803_136.7 S3 ME3LB4	C803_136.7 S3 MX3LB4	186	C803_136.7 P100 BE100LB4	C803_136.7 P100 BX100LB4	187
10.7	2495	2.8	134.1	60000	C903_134.1 S3 ME3LB4	C903_134.1 S3 MX3LB4	189	C903_134.1 P100 BE100LB4	C903_134.1 P100 BX100LB4	190
11.4	2359	1.0	126.8	25000	C703_126.8 S3 ME3LB4	C703_126.8 S3 MX3LB4	183	C703_126.8 P100 BE100LB4	C703_126.8 P100 BX100LB4	184
12.1	2222	1.8	119.5	35000	C803_119.5 S3 ME3LB4	C803_119.5 S3 MX3LB4	186	C803_119.5 P100 BE100LB4	C803_119.5 P100 BX100LB4	187
12.3	2171	3.3	116.7	60000	C903_116.7 S3 ME3LB4	C903_116.7 S3 MX3LB4	189	C903_116.7 P100 BE100LB4	C903_116.7 P100 BX100LB4	190
12.8	2091	1.1	112.4	25000	C703_112.4 S3 ME3LB4	C703_112.4 S3 MX3LB4	183	C703_112.4 P100 BE100LB4	C703_112.4 P100 BX100LB4	184
13.2	2037	2.0	109.5	35000	C803_109.5 S3 ME3LB4	C803_109.5 S3 MX3LB4	186	C803_109.5 P100 BE100LB4	C803_109.5 P100 BX100LB4	187
13.9	1931	1.2	103.8	25000	C703_103.8 S3 ME3LB4	C703_103.8 S3 MX3LB4	183	C703_103.8 P100 BE100LB4	C703_103.8 P100 BX100LB4	184
14.8	1811	2.2	97.4	35000	C803_97.4 S3 ME3LB4	C803_97.4 S3 MX3LB4	186	C803_97.4 P100 BE100LB4	C803_97.4 P100 BX100LB4	187
15.8	1638	1.0	91.0	16000	C613_91.0 S3 ME3LB4	C613_91.0 S3 MX3LB4	179	C613_91.0 P100 BE100LB4	C613_91.0 P100 BX100LB4	180
16.1	1660	2.4	89.3	35000	C803_89.3 S3 ME3LB4	C803_89.3 S3 MX3LB4	186	C803_89.3 P100 BE100LB4	C803_89.3 P100 BX100LB4	187
16.3	1640	1.4	88.2	25000	C703_88.2 S3 ME3LB4	C703_88.2 S3 MX3LB4	183	C703_88.2 P100 BE100LB4	C703_88.2 P100 BX100LB4	184
17.3	1495	1.1	83.0	16000	C613_83.0 S3 ME3LB4	C613_83.0 S3 MX3LB4	179	C613_83.0 P100 BE100LB4	C613_83.0 P100 BX100LB4	180
17.7	1514	1.5	81.4	25000	C703_81.4 S3 ME3LB4	C703_81.4 S3 MX3LB4	183	C703_81.4 P100 BE100LB4	C703_81.4 P100 BX100LB4	184
18.7	1431	2.8	76.9	35000	C803_76.9 S3 ME3LB4	C803_76.9 S3 MX3LB4	186	C803_76.9 P100 BE100LB4	C803_76.9 P100 BX100LB4	187
19.4	1336	1.2	74.2	16000	C613_74.2 S3 ME3LB4	C613_74.2 S3 MX3LB4	179	C613_74.2 P100 BE100LB4	C613_74.2 P100 BX100LB4	180
20.2	1327	1.7	71.3	25000	C703_71.3 S3 ME3LB4	C703_71.3 S3 MX3LB4	183	C703_71.3 P100 BE100LB4	C703_71.3 P100 BX100LB4	184
20.4	1311	3.1	70.5	35000	C803_70.5 S3 ME3LB4	C803_70.5 S3 MX3LB4	186	C803_70.5 P100 BE100LB4	C803_70.5 P100 BX100LB4	187
21.3	1218	1.3	67.7	16000	C613_67.7 S3 ME3LB4	C613_67.7 S3 MX3LB4	179	C613_67.7 P100 BE100LB4	C613_67.7 P100 BX100LB4	180
21.9	1225	1.9	65.9	25000	C703_65.9 S3 ME3LB4	C703_65.9 S3 MX3LB4	183	C703_65.9 P100 BE100LB4	C703_65.9 P100 BX100LB4	184
24.4	1097	0.9	59.0	10000	C513_59.0 S3 ME3LB4	C513_59.0 S3 MX3LB4	175	C513_59.0 P100 BE100LB4	C513_59.0 P100 BX100LB4	176
24.6	1055	1.5	58.6	16000	C613_58.6 S3 ME3LB4	C613_58.6 S3 MX3LB4	179	C613_58.6 P100 BE100LB4	C613_58.6 P100 BX100LB4	180
25.5	1051	2.2	56.5	25000	C703_56.5 S3 ME3LB4	C703_56.5 S3 MX3LB4	183	C703_56.5 P100 BE100LB4	C703_56.5 P100 BX100LB4	184
26.9	962	1.7	53.5	16000	C613_53.5 S3 ME3LB4	C613_53.5 S3 MX3LB4	179	C613_53.5 P100 BE100LB4	C613_53.5 P100 BX100LB4	180
27.6	970	2.4	52.2	25000	C703_52.2 S3 ME3LB4	C703_52.2 S3 MX3LB4	183	C703_52.2 P100 BE100LB4	C703_52.2 P100 BX100LB4	184
28.1	952	1.1	51.2	10000	C513_51.2 S3 ME3LB4	C513_51.2 S3 MX3LB4	175	C513_51.2 P100 BE100LB4	C513_51.2 P100 BX100LB4	176
30	857	1.9	47.6	16000	C613_47.6 S3 ME3LB4	C613_47.6 S3 MX3LB4	179	C613_47.6 P100 BE100LB4	C613_47.6 P100 BX100LB4	180
31	869	1.2	46.7	10000	C513_46.7 S3 ME3LB4	C513_46.7 S3 MX3LB4	175	C513_46.7 P100 BE100LB4	C513_46.7 P100 BX100LB4	176
32	831	2.8	44.7	25000	C703_44.7 S3 ME3LB4	C703_44.7 S3 MX3LB4	183	C703_44.7 P100 BE100LB4	C703_44.7 P100 BX100LB4	184
33	782	2.0	43.4	16000	C613_43.4 S3 ME3LB4	C613_43.4 S3 MX3LB4	179	C613_43.4 P100 BE100LB4	C613_43.4 P100 BX100LB4	180
33	819	0.9	43.1	10000	C512_43.1 S3 ME3LB4	C512_43.1 S3 MX3LB4	175	C512_43.1 P100 BE100LB4	C512_43.1 P100 BX100LB4	176

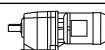


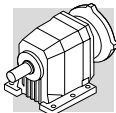
3 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N						
					IE2	IE3		IE2	IE3	
35	767	3.0	41.3	25000	C703_41.3 S3 ME3LB4	C703_41.3 S3 MX3LB4	183	C703_41.3 P100 BE100LB4	C703_41.3 P100 BX100LB4	184
36	753	1.3	40.5	10000	C513_40.5 S3 ME3LB4	C513_40.5 S3 MX3LB4	175	C513_40.5 P100 BE100LB4	C513_40.5 P100 BX100LB4	176
36	767	1.0	40.4	10000	C512_40.4 S3 ME3LB4	C512_40.4 S3 MX3LB4	175	C512_40.4 P100 BE100LB4	C512_40.4 P100 BX100LB4	176
38	722	1.9	38.0	16000	C612_38.0 S3 ME3LB4	C612_38.0 S3 MX3LB4	179	C612_38.0 P100 BE100LB4	C612_38.0 P100 BX100LB4	180
39	687	1.5	37.0	10000	C513_37.0 S3 ME3LB4	C513_37.0 S3 MX3LB4	175	C513_37.0 P100 BE100LB4	C513_37.0 P100 BX100LB4	176
40	691	1.1	36.4	10000	C512_36.4 S3 ME3LB4	C512_36.4 S3 MX3LB4	175	C512_36.4 P100 BE100LB4	C512_36.4 P100 BX100LB4	176
40	651	2.4	36.1	16000	C613_36.1 S3 ME3LB4	C613_36.1 S3 MX3LB4	179	C613_36.1 P100 BE100LB4	C613_36.1 P100 BX100LB4	180
42	650	1.9	34.2	16000	C612_34.2 S3 ME3LB4	C612_34.2 S3 MX3LB4	179	C612_34.2 P100 BE100LB4	C612_34.2 P100 BX100LB4	180
44	628	1.3	33.0	10000	C512_33.0 S3 ME3LB4	C512_33.0 S3 MX3LB4	175	C512_33.0 P100 BE100LB4	C512_33.0 P100 BX100LB4	176
44	594	2.6	33.0	16000	C613_33.0 S3 ME3LB4	C613_33.0 S3 MX3LB4	179	C613_33.0 P100 BE100LB4	C613_33.0 P100 BX100LB4	180
46	581	1.0	31.2	5550	C413_31.2 S3 ME3LB4	C413_31.2 S3 MX3LB4	171	C413_31.2 P100 BE100LB4	C413_31.2 P100 BX100LB4	172
47	578	2.3	30.4	15900	C612_30.4 S3 ME3LB4	C612_30.4 S3 MX3LB4	179	C612_30.4 P100 BE100LB4	C612_30.4 P100 BX100LB4	180
48	559	1.8	30.1	10000	C513_30.1 S3 ME3LB4	C513_30.1 S3 MX3LB4	175	C513_30.1 P100 BE100LB4	C513_30.1 P100 BX100LB4	176
48	566	1.4	29.8	10000	C512_29.8 S3 ME3LB4	C512_29.8 S3 MX3LB4	175	C512_29.8 P100 BE100LB4	C512_29.8 P100 BX100LB4	176
51	538	0.9	28.3	5460	C412_28.3 S3 ME3LB4	C412_28.3 S3 MX3LB4	171	C412_28.3 P100 BE100LB4	C412_28.3 P100 BX100LB4	172
52	511	1.9	27.4	10000	C513_27.4 S3 ME3LB4	C513_27.4 S3 MX3LB4	175	C513_27.4 P100 BE100LB4	C513_27.4 P100 BX100LB4	176
53	521	2.6	27.4	15400	C612_27.4 S3 ME3LB4	C612_27.4 S3 MX3LB4	179	C612_27.4 P100 BE100LB4	C612_27.4 P100 BX100LB4	180
55	487	0.9	26.2	4500	C363_26.2 S3 ME3LB4	C363_26.2 S3 MX3LB4	167	C363_26.2 P100 BE100LB4	C363_26.2 P100 BX100LB4	168
56	492	1.6	25.9	10000	C512_25.9 S3 ME3LB4	C512_25.9 S3 MX3LB4	175	C512_25.9 P100 BE100LB4	C512_25.9 P100 BX100LB4	176
57	476	1.1	25.0	5480	C412_25.0 S3 ME3LB4	C412_25.0 S3 MX3LB4	171	C412_25.0 P100 BE100LB4	C412_25.0 P100 BX100LB4	172
58	472	2.9	24.8	15100	C612_24.8 S3 ME3LB4	C612_24.8 S3 MX3LB4	179	C612_24.8 P100 BE100LB4	C612_24.8 P100 BX100LB4	180
62	444	1.8	23.4	10000	C512_23.4 S3 ME3LB4	C512_23.4 S3 MX3LB4	175	C512_23.4 P100 BE100LB4	C512_23.4 P100 BX100LB4	176
64	429	1.2	22.6	5420	C412_22.6 S3 ME3LB4	C412_22.6 S3 MX3LB4	171	C412_22.6 P100 BE100LB4	C412_22.6 P100 BX100LB4	172
64	425	3.2	22.4	14600	C612_22.4 S3 ME3LB4	C612_22.4 S3 MX3LB4	179	C612_22.4 P100 BE100LB4	C612_22.4 P100 BX100LB4	180
65	412	1.0	22.1	4530	C363_22.1 S3 ME3LB4	C363_22.1 S3 MX3LB4	167	C363_22.1 P100 BE100LB4	C363_22.1 P100 BX100LB4	168
69	398	2.0	21.0	10000	C512_21.0 S3 ME3LB4	C512_21.0 S3 MX3LB4	175	C512_21.0 P100 BE100LB4	C512_21.0 P100 BX100LB4	176
73	375	1.3	19.8	5390	C412_19.8 S3 ME3LB4	C412_19.8 S3 MX3LB4	171	C412_19.8 P100 BE100LB4	C412_19.8 P100 BX100LB4	172
76	361	1.1	19.0	4450	C362_19.0 S3 ME3LB4	C362_19.0 S3 MX3LB4	167	C362_19.0 P100 BE100LB4	C362_19.0 P100 BX100LB4	168
76	359	2.2	18.9	10000	C512_18.9 S3 ME3LB4	C512_18.9 S3 MX3LB4	175	C512_18.9 P100 BE100LB4	C512_18.9 P100 BX100LB4	176
81	338	1.4	17.8	5300	C412_17.8 S3 ME3LB4	C412_17.8 S3 MX3LB4	171	C412_17.8 P100 BE100LB4	C412_17.8 P100 BX100LB4	172
84	327	1.2	17.2	4400	C362_17.2 S3 ME3LB4	C362_17.2 S3 MX3LB4	167	C362_17.2 P100 BE100LB4	C362_17.2 P100 BX100LB4	168
87	315	2.5	16.6	9790	C512_16.6 S3 ME3LB4	C512_16.6 S3 MX3LB4	175	C512_16.6 P100 BE100LB4	C512_16.6 P100 BX100LB4	176
91	301	1.5	15.8	5240	C412_15.8 S3 ME3LB4	C412_15.8 S3 MX3LB4	171	C412_15.8 P100 BE100LB4	C412_15.8 P100 BX100LB4	172
92	296	0.9	15.6	3680	C322_15.6 S3 ME3LB4	C322_15.6 S3 MX3LB4	163	C322_15.6 P100 BE100LB4	C322_15.6 P100 BX100LB4	164
96	284	2.8	15.0	9540	C512_15.0 S3 ME3LB4	C512_15.0 S3 MX3LB4	175	C512_15.0 P100 BE100LB4	C512_15.0 P100 BX100LB4	176
98	280	1.4	14.8	4340	C362_14.8 S3 ME3LB4	C362_14.8 S3 MX3LB4	167	C362_14.8 P100 BE100LB4	C362_14.8 P100 BX100LB4	168
101	271	1.6	14.2	5140	C412_14.2 S3 ME3LB4	C412_14.2 S3 MX3LB4	171	C412_14.2 P100 BE100LB4	C412_14.2 P100 BX100LB4	172
102	267	0.9	14.1	3650	C322_14.1 S3 ME3LB4	C322_14.1 S3 MX3LB4	163	C322_14.1 P100 BE100LB4	C322_14.1 P100 BX100LB4	164
108	253	1.5	13.3	4260	C362_13.3 S3 ME3LB4	C362_13.3 S3 MX3LB4	167	C362_13.3 P100 BE100LB4	C362_13.3 P100 BX100LB4	168
110	249	3.0	13.1	9200	C512_13.1 S3 ME3LB4	C512_13.1 S3 MX3LB4	175	C512_13.1 P100 BE100LB4	C512_13.1 P100 BX100LB4	176
116	235	1.8	12.4	5040	C412_12.4 S3 ME3LB4	C412_12.4 S3 MX3LB4	171	C412_12.4 P100 BE100LB4	C412_12.4 P100 BX100LB4	172
117	234	1.0	12.3	3580	C322_12.3 S3 ME3LB4	C322_12.3 S3 MX3LB4	163	C322_12.3 P100 BE100LB4	C322_12.3 P100 BX100LB4	164
123	222	1.7	11.7	4200	C362_11.7 S3 ME3LB4	C362_11.7 S3 MX3LB4	167	C362_11.7 P100 BE100LB4	C362_11.7 P100 BX100LB4	168
129	213	1.1	11.2	3520	C322_11.2 S3 ME3LB4	C322_11.2 S3 MX3LB4	163	C322_11.2 P100 BE100LB4	C322_11.2 P100 BX100LB4	164
129	212	2.0	11.2	4930	C412_11.2 S3 ME3LB4	C412_11.2 S3 MX3LB4	171	C412_11.2 P100 BE100LB4	C412_11.2 P100 BX100LB4	172
136	201	1.9	10.6	4100	C362_10.6 S3 ME3LB4	C362_10.6 S3 MX3LB4	167	C362_10.6 P100 BE100LB4	C362_10.6 P100 BX100LB4	168
143	190	1.6	20.1	3480	C322_20.1 S3 ME3LB2		163	C322_20.1 P100 BE100L2		164
150	182	2.1	9.6	4800	C412_9.6 S3 ME3LB4	C412_9.6 S3 MX3LB4	171	C412_9.6 P100 BE100LB4	C412_9.6 P100 BX100LB4	172
155	177	1.2	9.3	3450	C322_9.3 S3 ME3LB4	C322_9.3 S3 MX3LB4	163	C322_9.3 P100 BE100LB4	C322_9.3 P100 BX100LB4	164
158	172	1.6	18.2	3410	C322_18.2 S3 ME3LB2		163	C322_18.2 P100 BE100L2		164
164	167	2.3	8.8	3990	C362_8.8 S3 ME3LB4	C362_8.8 S3 MX3LB4	167	C362_8.8 P100 BE100LB4	C362_8.8 P100 BX100LB4	168
167	164	2.3	8.6	4600	C412_8.6 S3 ME3LB4	C412_8.6 S3 MX3LB4	171	C412_8.6 P100 BE100LB4	C412_8.6 P100 BX100LB4	172
170	161	1.3	8.5	3400	C322_8.5 S3 ME3LB4	C322_8.5 S3 MX3LB4	163	C322_8.5 P100 BE100LB4	C322_8.5 P100 BX100LB4	164
179	153	2.4	8.0	3840	C362_8.0 S3 ME3LB4	C362_8.0 S3 MX3LB4	167	C362_8.0 P100 BE100LB4	C362_8.0 P100 BX100LB4	168
182	150	1.2	15.8	1940	C222_15.8 S3 ME3LB2		159	C222_15.8 P100 BE100L2		160
185	147	1.8	15.6	3340	C322_15.6 S3 ME3LB2		163	C322_15.6 P100 BE100L2		164
201	136	1.5	7.2	3300	C322_7.2 S3 ME3LB4	C322_7.2 S3 MX3LB4	163	C322_7.2 P100 BE100LB4	C322_7.2 P100 BX100LB4	164

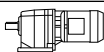


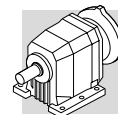
3 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N					
					IE2	IE3	IE2	IE3	
203	135	1.0	7.1	1940	C222_7.1 S3 ME3LB4	C222_7.1 S3 MX3LB4	159 C222_7.1 P100 BE100LB4	C222_7.1 P100 BX100LB4	160
204	134	2.6	7.1	4490	C412_7.1 S3 ME3LB4	C412_7.1 S3 MX3LB4	171 C412_7.1 P100 BE100LB4	C412_7.1 P100 BX100LB4	172
205	133	1.9	14.1	3250	C322_14.1 S3 ME3LB2		163 C322_14.1 P100 BE100L2		164
212	129	2.8	6.8	3780	C362_6.8 S3 ME3LB4	C362_6.8 S3 MX3LB4	167 C362_6.8 P100 BE100LB4	C362_6.8 P100 BX100LB4	168
226	121	2.9	6.4	4370	C412_6.4 S3 ME3LB4	C412_6.4 S3 MX3LB4	171 C412_6.4 P100 BE100LB4	C412_6.4 P100 BX100LB4	172
230	119	1.3	6.3	3100	C322_6.3 S3 ME3LB4	C322_6.3 S3 MX3LB4	163 C322_6.3 P100 BE100LB4	C322_6.3 P100 BX100LB4	164
234	116	2.1	12.3	3190	C322_12.3 S3 ME3LB2		163 C322_12.3 P100 BE100L2		164
237	116	0.9	6.1	1600	C222_6.1 S3 ME3LB4	C222_6.1 S3 MX3LB4	159 C222_6.1 P100 BE100LB4	C222_6.1 P100 BX100LB4	160
242	113	2.3	6.0	4090	C412_6.0 S3 ME3LB4	C412_6.0 S3 MX3LB4	171 C412_6.0 P100 BE100LB4	C412_6.0 P100 BX100LB4	172
246	111	1.8	5.8	3530	C362_5.8 S3 ME3LB4	C362_5.8 S3 MX3LB4	167 C362_5.8 P100 BE100LB4	C362_5.8 P100 BX100LB4	168
255	107	1.4	5.7	3040	C322_5.7 S3 ME3LB4	C322_5.7 S3 MX3LB4	163 C322_5.7 P100 BE100LB4	C322_5.7 P100 BX100LB4	164
257	106	2.2	11.2	3090	C322_11.2 S3 ME3LB2		163 C322_11.2 P100 BE100L2		164
258	106	1.0	5.6	1750	C222_5.6 S3 ME3LB4	C222_5.6 S3 MX3LB4	159 C222_5.6 P100 BE100LB4	C222_5.6 P100 BX100LB4	160
260	105	1.5	11.1	1850	C222_11.1 S3 ME3LB2		159 C222_11.1 P100 BE100L2		160
273	100	2.0	5.3	3380	C362_5.3 S3 ME3LB4	C362_5.3 S3 MX3LB4	167 C362_5.3 P100 BE100LB4	C362_5.3 P100 BX100LB4	168
291	94	1.6	5.0	2950	C322_5.0 S3 ME3LB4	C322_5.0 S3 MX3LB4	163 C322_5.0 P100 BE100LB4	C322_5.0 P100 BX100LB4	164
299	91	1.6	9.6	1880	C222_9.6 S3 ME3LB2		159 C222_9.6 P100 BE100L2		160
302	91	1.1	4.8	1780	C222_4.8 S3 ME3LB4	C222_4.8 S3 MX3LB4	159 C222_4.8 P100 BE100LB4	C222_4.8 P100 BX100LB4	160
309	89	2.9	4.7	3880	C412_4.7 S3 ME3LB4	C412_4.7 S3 MX3LB4	171 C412_4.7 P100 BE100LB4	C412_4.7 P100 BX100LB4	172
310	88	2.5	9.3	2990	C322_9.3 S3 ME3LB2		163 C322_9.3 P100 BE100L2		164
312	88	2.3	4.6	3270	C362_4.6 S3 ME3LB4	C362_4.6 S3 MX3LB4	167 C362_4.6 P100 BE100LB4	C362_4.6 P100 BX100LB4	168
320	85	1.8	4.5	2880	C322_4.5 S3 ME3LB4	C322_4.5 S3 MX3LB4	163 C322_4.5 P100 BE100LB4	C322_4.5 P100 BX100LB4	164
333	82	1.7	8.7	1840	C222_8.7 S3 ME3LB2		159 C222_8.7 P100 BE100L2		160
338	81	1.2	4.3	1800	C222_4.3 S3 ME3LB4	C222_4.3 S3 MX3LB4	159 C222_4.3 P100 BE100LB4	C222_4.3 P100 BX100LB4	160
339	80	2.6	8.5	2900	C322_8.5 S3 ME3LB2		163 C322_8.5 P100 BE100L2		164
343	80	2.5	4.2	3190	C362_4.2 S3 ME3LB4	C362_4.2 S3 MX3LB4	167 C362_4.2 P100 BE100LB4	C362_4.2 P100 BX100LB4	168
386	71	2.1	3.7	2780	C322_3.7 S3 ME3LB4	C322_3.7 S3 MX3LB4	163 C322_3.7 P100 BE100LB4	C322_3.7 P100 BX100LB4	164
388	70	1.3	3.7	1740	C222_3.7 S3 ME3LB4	C222_3.7 S3 MX3LB4	159 C222_3.7 P100 BE100LB4	C222_3.7 P100 BX100LB4	160
402	68	3.0	7.2	2810	C322_7.2 S3 ME3LB2		163 C322_7.2 P100 BE100L2		164
407	67	1.9	7.1	1800	C222_7.1 S3 ME3LB2		159 C222_7.1 P100 BE100L2		160
413	66	3.0	3.5	3130	C362_3.5 S3 ME3LB4	C362_3.5 S3 MX3LB4	167 C362_3.5 P100 BE100LB4	C362_3.5 P100 BX100LB4	168
422	65	2.1	3.4	2690	C322_3.4 S3 ME3LB4	C322_3.4 S3 MX3LB4	163 C322_3.4 P100 BE100LB4	C322_3.4 P100 BX100LB4	164
433	63	1.3	3.3	1740	C222_3.3 S3 ME3LB4	C222_3.3 S3 MX3LB4	159 C222_3.3 P100 BE100LB4	C222_3.3 P100 BX100LB4	160
460	59	2.6	6.3	2650	C322_6.3 S3 ME3LB2		163 C322_6.3 P100 BE100L2		164
473	58	1.8	6.1	1690	C222_6.1 S3 ME3LB2		159 C222_6.1 P100 BE100L2		160
500	55	2.4	2.9	2610	C322_2.9 S3 ME3LB4	C322_2.9 S3 MX3LB4	163 C322_2.9 P100 BE100LB4	C322_2.9 P100 BX100LB4	164
509	53	2.9	5.7	2570	C322_5.7 S3 ME3LB2		163 C322_5.7 P100 BE100L2		164
515	53	1.9	5.6	1650	C222_5.6 S3 ME3LB2		159 C222_5.6 P100 BE100L2		160
529	52	1.5	2.7	1660	C222_2.7 S3 ME3LB4	C222_2.7 S3 MX3LB4	159 C222_2.7 P100 BE100LB4	C222_2.7 P100 BX100LB4	160
582	47	3.3	5.0	2500	C322_5.0 S3 ME3LB2		163 C322_5.0 P100 BE100L2		164
604	45	2.2	4.8	1620	C222_4.8 S3 ME3LB2		159 C222_4.8 P100 BE100L2		160
640	43	3.6	4.5	2400	C322_4.5 S3 ME3LB2		163 C322_4.5 P100 BE100L2		164
676	40	2.3	4.3	1580	C222_4.3 S3 ME3LB2		159 C222_4.3 P100 BE100L2		160
771	35	4.2	3.7	2320	C322_3.7 S3 ME3LB2		163 C322_3.7 P100 BE100L2		164
777	35	2.6	3.7	1540	C222_3.7 S3 ME3LB2		159 C222_3.7 P100 BE100L2		160
789	35	1.2	3.7	560	C122_3.7 S3 ME3LB2		155 C122_3.7 P100 BE100L2		156
866	31	2.7	3.3	1480	C222_3.3 S3 ME3LB2		159 C222_3.3 P100 BE100L2		160
898	30	1.3	3.2	630	C122_3.2 S3 ME3LB2		155 C122_3.2 P100 BE100L2		156
1041	26	1.4	2.8	750	C122_2.8 S3 ME3LB2		155 C122_2.8 P100 BE100L2		156
1058	26	3.1	2.7	1430	C222_2.7 S3 ME3LB2		159 C222_2.7 P100 BE100L2		160

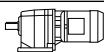


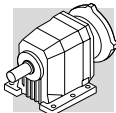
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IE3
2.0	12965	0.9	720.3	85000		C1004_720.3 P100 BXN100LB4 193
2.3	11293	1.1	627.4	85000		C1004_627.4 P100 BXN100LB4 193
2.5	10487	1.1	582.6	85000		C1004_582.6 P100 BXN100LB4 193
2.9	9047	1.3	502.6	85000		C1004_502.6 P100 BXN100LB4 193
3.1	8401	1.4	466.7	85000		C1004_466.7 P100 BXN100LB4 193
3.4	7543	1.0	419.0	60000		C904_419.0 P100 BXN100LB4 190
3.5	7376	1.6	409.8	85000		C1004_409.8 P100 BXN100LB4 193
3.8	6849	1.8	380.5	85000		C1004_380.5 P100 BXN100LB4 193
3.9	6656	1.1	369.8	60000		C904_369.8 P100 BXN100LB4 190
4.2	6101	1.2	339.0	60000		C904_339.0 P100 BXN100LB4 190
4.4	5825	2.1	323.6	85000		C1004_323.6 P100 BXN100LB4 193
4.8	5409	2.2	300.5	85000		C1004_300.5 P100 BXN100LB4 193
4.9	5272	1.4	292.9	60000		C904_292.9 P100 BXN100LB4 190
5.4	4833	1.5	268.5	60000		C904_268.5 P100 BXN100LB4 190
5.5	4734	2.5	263.0	85000		C1004_263.0 P100 BXN100LB4 193
5.9	4396	2.7	244.2	85000		C1004_244.2 P100 BXN100LB4 193
6.2	4170	1.7	231.7	60000		C904_231.7 P100 BXN100LB4 190
6.7	4015	1.0	215.8	35000		C803_215.8 P100 BXN100LB4 187
6.8	3823	1.9	212.4	60000		C904_212.4 P100 BXN100LB4 190
7.3	3680	1.0	197.9	35000		C803_197.9 P100 BXN100LB4 187
7.8	3429	1.2	184.4	35000		C803_184.4 P100 BXN100LB4 187
8.4	3201	2.2	172.1	60000		C903_172.1 P100 BXN100LB4 190
8.5	3143	1.3	169.0	35000		C803_169.0 P100 BXN100LB4 187
9.1	2934	2.4	157.8	60000		C903_157.8 P100 BXN100LB4 190
9.7	2773	1.4	149.1	35000		C803_149.1 P100 BXN100LB4 187
9.8	2722	2.6	146.3	60000		C903_146.3 P100 BXN100LB4 190
10.5	2542	1.6	136.7	35000		C803_136.7 P100 BXN100LB4 187
10.7	2495	2.8	134.1	60000		C903_134.1 P100 BXN100LB4 190
11.4	2359	1.0	126.8	25000		C703_126.8 P100 BXN100LB4 184
12.1	2222	1.8	119.5	35000		C803_119.5 P100 BXN100LB4 187
12.3	2171	3.3	116.7	60000		C903_116.7 P100 BXN100LB4 190
12.8	2091	1.1	112.4	25000		C703_112.4 P100 BXN100LB4 184
13.2	2037	2.0	109.5	35000		C803_109.5 P100 BXN100LB4 187
13.9	1931	1.2	103.8	25000		C703_103.8 P100 BXN100LB4 184
14.8	1811	2.2	97.4	35000		C803_97.4 P100 BXN100LB4 187
15.8	1638	1.0	91.0	16000		C613_91.0 P100 BXN100LB4 180
16.1	1660	2.4	89.3	35000		C803_89.3 P100 BXN100LB4 187
16.3	1640	1.4	88.2	25000		C703_88.2 P100 BXN100LB4 184
17.3	1495	1.1	83.0	16000		C613_83.0 P100 BXN100LB4 180
17.7	1514	1.5	81.4	25000		C703_81.4 P100 BXN100LB4 184
18.7	1431	2.8	76.9	35000		C803_76.9 P100 BXN100LB4 187
19.4	1336	1.2	74.2	16000		C613_74.2 P100 BXN100LB4 180
20.2	1327	1.7	71.3	25000		C703_71.3 P100 BXN100LB4 184
20.4	1311	3.1	70.5	35000		C803_70.5 P100 BXN100LB4 187
21.3	1218	1.3	67.7	16000		C613_67.7 P100 BXN100LB4 180
21.9	1225	1.9	65.9	25000		C703_65.9 P100 BXN100LB4 184
24.4	1097	0.9	59.0	10000		C513_59.0 P100 BXN100LB4 176
24.6	1055	1.5	58.6	16000		C613_58.6 P100 BXN100LB4 180
25.5	1051	2.2	56.5	25000		C703_56.5 P100 BXN100LB4 184
26.9	962	1.7	53.5	16000		C613_53.5 P100 BXN100LB4 180

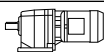


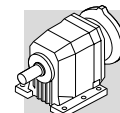
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IE3
27.6	970	2.4	52.2	25000		C703_52.2 P100 BXN100LB4 184
28.1	952	1.1	51.2	10000		C513_51.2 P100 BXN100LB4 176
30	857	1.9	47.6	16000		C613_47.6 P100 BXN100LB4 180
31	869	1.2	46.7	10000		C513_46.7 P100 BXN100LB4 176
32	831	2.8	44.7	25000		C703_44.7 P100 BXN100LB4 184
33	782	2.0	43.4	16000		C613_43.4 P100 BXN100LB4 180
33	819	0.9	43.1	10000		C512_43.1 P100 BXN100LB4 176
35	767	3.0	41.3	25000		C703_41.3 P100 BXN100LB4 184
36	753	1.3	40.5	10000		C513_40.5 P100 BXN100LB4 176
36	767	1.0	40.4	10000		C512_40.4 P100 BXN100LB4 176
38	722	1.9	38.0	16000		C612_38.0 P100 BXN100LB4 180
39	687	1.5	37.0	10000		C513_37.0 P100 BXN100LB4 176
40	691	1.1	36.4	10000		C512_36.4 P100 BXN100LB4 176
40	651	2.4	36.1	16000		C613_36.1 P100 BXN100LB4 180
42	650	1.9	34.2	16000		C612_34.2 P100 BXN100LB4 180
44	628	1.3	33.0	10000		C512_33.0 P100 BXN100LB4 176
44	594	2.6	33.0	16000		C613_33.0 P100 BXN100LB4 180
46	581	1.0	31.2	5550		C413_31.2 P100 BXN100LB4 172
47	578	2.3	30.4	15900		C612_30.4 P100 BXN100LB4 180
48	559	1.8	30.1	10000		C513_30.1 P100 BXN100LB4 176
48	566	1.4	29.8	10000		C512_29.8 P100 BXN100LB4 176
51	538	0.9	28.3	5460		C412_28.3 P100 BXN100LB4 172
52	511	1.9	27.4	10000		C513_27.4 P100 BXN100LB4 176
53	521	2.6	27.4	15400		C612_27.4 P100 BXN100LB4 180
55	487	0.9	26.2	4500		C363_26.2 P100 BXN100LB4 168
56	492	1.6	25.9	10000		C512_25.9 P100 BXN100LB4 176
57	476	1.1	25.0	5480		C412_25.0 P100 BXN100LB4 172
58	472	2.9	24.8	15100		C612_24.8 P100 BXN100LB4 180
62	444	1.8	23.4	10000		C512_23.4 P100 BXN100LB4 176
64	429	1.2	22.6	5420		C412_22.6 P100 BXN100LB4 172
64	425	3.2	22.4	14600		C612_22.4 P100 BXN100LB4 180
65	412	1.0	22.1	4530		C363_22.1 P100 BXN100LB4 168
69	398	2.0	21.0	10000		C512_21.0 P100 BXN100LB4 176
73	375	1.3	19.8	5390		C412_19.8 P100 BXN100LB4 172
76	361	1.1	19.0	4450		C362_19.0 P100 BXN100LB4 168
76	359	2.2	18.9	10000		C512_18.9 P100 BXN100LB4 176
81	338	1.4	17.8	5300		C412_17.8 P100 BXN100LB4 172
84	327	1.2	17.2	4400		C362_17.2 P100 BXN100LB4 168
87	315	2.5	16.6	9790		C512_16.6 P100 BXN100LB4 176
91	301	1.5	15.8	5240		C412_15.8 P100 BXN100LB4 172
92	296	0.9	15.6	3680		C322_15.6 P100 BXN100LB4 164
96	284	2.8	15.0	9540		C512_15.0 P100 BXN100LB4 176
98	280	1.4	14.8	4340		C362_14.8 P100 BXN100LB4 168
101	271	1.6	14.2	5140		C412_14.2 P100 BXN100LB4 172
102	267	0.9	14.1	3650		C322_14.1 P100 BXN100LB4 164
108	253	1.5	13.3	4260		C362_13.3 P100 BXN100LB4 168
110	249	3.0	13.1	9200		C512_13.1 P100 BXN100LB4 176
116	235	1.8	12.4	5040		C412_12.4 P100 BXN100LB4 172
117	234	1.0	12.3	3580		C322_12.3 P100 BXN100LB4 164
123	222	1.7	11.7	4200		C362_11.7 P100 BXN100LB4 168



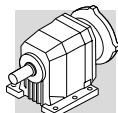
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n₂ min ⁻¹	M₂ Nm	S	i	R_{n2} N	 IE3	 IE3	 IE3	
129	213	1.1	11.2	3520			C322_11.2 P100 BXN100LB4	164
129	212	2.0	11.2	4930			C412_11.2 P100 BXN100LB4	172
136	201	1.9	10.6	4100			C362_10.6 P100 BXN100LB4	168
150	182	2.1	9.6	4800			C412_9.6 P100 BXN100LB4	
155	177	1.2	9.3	3450			C322_9.3 P100 BXN100LB4	
164	167	2.3	8.8	3990			C362_8.8 P100 BXN100LB4	
167	164	2.3	8.6	4600			C412_8.6 P100 BXN100LB4	
170	161	1.3	8.5	3400			C322_8.5 P100 BXN100LB4	
179	153	2.4	8.0	3840			C362_8.0 P100 BXN100LB4	
201	136	1.5	7.2	3300			C322_7.2 P100 BXN100LB4	
203	135	1.0	7.1	1940			C222_7.1 P100 BXN100LB4	160
204	134	2.6	7.1	4490			C412_7.1 P100 BXN100LB4	172
212	129	2.8	6.8	3780			C362_6.8 P100 BXN100LB4	168
226	121	2.9	6.4	4370			C412_6.4 P100 BXN100LB4	172
230	119	1.3	6.3	3100			C322_6.3 P100 BXN100LB4	164
237	116	0.9	6.1	1600			C222_6.1 P100 BXN100LB4	160
242	113	2.3	6.0	4090			C412_6.0 P100 BXN100LB4	172
246	111	1.8	5.8	3530			C362_5.8 P100 BXN100LB4	168
255	107	1.4	5.7	3040			C322_5.7 P100 BXN100LB4	164
258	106	1.0	5.6	1750			C222_5.6 P100 BXN100LB4	160
273	100	2.0	5.3	3380			C362_5.3 P100 BXN100LB4	168
291	94	1.6	5.0	2950			C322_5.0 P100 BXN100LB4	164
302	91	1.1	4.8	1780			C222_4.8 P100 BXN100LB4	160
309	89	2.9	4.7	3880			C412_4.7 P100 BXN100LB4	172
312	88	2.3	4.6	3270			C362_4.6 P100 BXN100LB4	168
320	85	1.8	4.5	2880			C322_4.5 P100 BXN100LB4	164
338	81	1.2	4.3	1800			C222_4.3 P100 BXN100LB4	160
343	80	2.5	4.2	3190			C362_4.2 P100 BXN100LB4	168
386	71	2.1	3.7	2780			C322_3.7 P100 BXN100LB4	164
388	70	1.3	3.7	1740			C222_3.7 P100 BXN100LB4	160
413	66	3.0	3.5	3130			C362_3.5 P100 BXN100LB4	168
422	65	2.1	3.4	2690			C322_3.4 P100 BXN100LB4	164
433	63	1.3	3.3	1740			C222_3.3 P100 BXN100LB4	160
500	55	2.4	2.9	2610			C322_2.9 P100 BXN100LB4	164
529	52	1.5	2.7	1660			C222_2.7 P100 BXN100LB4	160

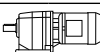


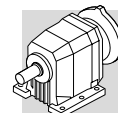
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n2	M2	S	i	Rn2						
min-1	Nm			N	IE2	IE3		IE2	IE3	
2.9	12214	1.0	502.6	85000	C1004_502.6 S4 ME4SA4	C1004_502.6 S4 MX4SA4	192	C1004_502.6 P112 BE112M4	C1004_502.6 P112 BX112M4	193
3.1	11342	1.1	466.7	85000	C1004_466.7 S4 ME4SA4	C1004_466.7 S4 MX4SA4	192	C1004_466.7 P112 BE112M4	C1004_466.7 P112 BX112M4	193
3.5	9957	1.2	409.8	85000	C1004_409.8 S4 ME4SA4	C1004_409.8 S4 MX4SA4	192	C1004_409.8 P112 BE112M4	C1004_409.8 P112 BX112M4	193
3.8	9246	1.3	380.5	85000	C1004_380.5 S4 ME4SA4	C1004_380.5 S4 MX4SA4	192	C1004_380.5 P112 BE112M4	C1004_380.5 P112 BX112M4	193
4.4	7864	1.5	323.6	85000	C1004_323.6 S4 ME4SA4	C1004_323.6 S4 MX4SA4	192	C1004_323.6 P112 BE112M4	C1004_323.6 P112 BX112M4	193
4.8	7302	1.6	300.5	85000	C1004_300.5 S4 ME4SA4	C1004_300.5 S4 MX4SA4	192	C1004_300.5 P112 BE112M4	C1004_300.5 P112 BX112M4	193
4.9	7118	1.0	292.9	60000	C904_292.9 S4 ME4SA4	C904_292.9 S4 MX4SA4	189	C904_292.9 P112 BE112M4	C904_292.9 P112 BX112M4	190
5.4	6524	1.1	268.5	60000	C904_268.5 S4 ME4SA4	C904_268.5 S4 MX4SA4	189	C904_268.5 P112 BE112M4	C904_268.5 P112 BX112M4	190
5.5	6391	1.9	263.0	85000	C1004_263.0 S4 ME4SA4	C1004_263.0 S4 MX4SA4	192	C1004_263.0 P112 BE112M4	C1004_263.0 P112 BX112M4	193
5.9	5934	2.0	244.2	85000	C1004_244.2 S4 ME4SA4	C1004_244.2 S4 MX4SA4	192	C1004_244.2 P112 BE112M4	C1004_244.2 P112 BX112M4	193
6.2	5630	1.3	231.7	60000	C904_231.7 S4 ME4SA4	C904_231.7 S4 MX4SA4	189	C904_231.7 P112 BE112M4	C904_231.7 P112 BX112M4	190
6.8	5161	1.4	212.4	60000	C904_212.4 S4 ME4SA4	C904_212.4 S4 MX4SA4	189	C904_212.4 P112 BE112M4	C904_212.4 P112 BX112M4	190
7.2	4851	2.5	199.6	85000	C1004_199.6 S4 ME4SA4	C1004_199.6 S4 MX4SA4	192	C1004_199.6 P112 BE112M4	C1004_199.6 P112 BX112M4	193
7.8	4504	2.7	185.4	85000	C1004_185.4 S4 ME4SA4	C1004_185.4 S4 MX4SA4	192	C1004_185.4 P112 BE112M4	C1004_185.4 P112 BX112M4	193
8.4	4322	1.7	172.1	60000	C903_172.1 S4 ME4SA4	C903_172.1 S4 MX4SA4	189	C903_172.1 P112 BE112M4	C903_172.1 P112 BX112M4	190
8.5	4243	0.9	169.0	35000	C803_169.0 S4 ME4SA4	C803_169.0 S4 MX4SA4	186	C803_169.0 P112 BE112M4	C803_169.0 P112 BX112M4	187
9.1	3961	1.8	157.8	60000	C903_157.8 S4 ME4SA4	C903_157.8 S4 MX4SA4	189	C903_157.8 P112 BE112M4	C903_157.8 P112 BX112M4	190
9.7	3744	1.1	149.1	35000	C803_149.1 S4 ME4SA4	C803_149.1 S4 MX4SA4	186	C803_149.1 P112 BE112M4	C803_149.1 P112 BX112M4	187
9.8	3674	2.0	146.3	60000	C903_146.3 S4 ME4SA4	C903_146.3 S4 MX4SA4	189	C903_146.3 P112 BE112M4	C903_146.3 P112 BX112M4	190
10.5	3432	1.2	136.7	35000	C803_136.7 S4 ME4SA4	C803_136.7 S4 MX4SA4	186	C803_136.7 P112 BE112M4	C803_136.7 P112 BX112M4	187
10.7	3368	2.1	134.1	60000	C903_134.1 S4 ME4SA4	C903_134.1 S4 MX4SA4	189	C903_134.1 P112 BE112M4	C903_134.1 P112 BX112M4	190
12.1	3000	1.3	119.5	35000	C803_119.5 S4 ME4SA4	C803_119.5 S4 MX4SA4	186	C803_119.5 P112 BE112M4	C803_119.5 P112 BX112M4	187
12.3	2931	2.5	116.7	60000	C903_116.7 S4 ME4SA4	C903_116.7 S4 MX4SA4	189	C903_116.7 P112 BE112M4	C903_116.7 P112 BX112M4	190
13.2	2750	1.5	109.5	35000	C803_109.5 S4 ME4SA4	C803_109.5 S4 MX4SA4	186	C803_109.5 P112 BE112M4	C803_109.5 P112 BX112M4	187
13.5	2687	2.6	107.0	60000	C903_107.0 S4 ME4SA4	C903_107.0 S4 MX4SA4	189	C903_107.0 P112 BE112M4	C903_107.0 P112 BX112M4	190
14.8	2445	1.6	97.4	35000	C803_97.4 S4 ME4SA4	C803_97.4 S4 MX4SA4	186	C803_97.4 P112 BE112M4	C803_97.4 P112 BX112M4	187
15.0	2417	3.0	96.2	60000	C903_96.2 S4 ME4SA4	C903_96.2 S4 MX4SA4	189	C903_96.2 P112 BE112M4	C903_96.2 P112 BX112M4	190
16.1	2242	1.8	89.3	35000	C803_89.3 S4 ME4SA4	C803_89.3 S4 MX4SA4	186	C803_89.3 P112 BE112M4	C803_89.3 P112 BX112M4	187
16.3	2215	1.0	88.2	25000	C703_88.2 S4 ME4SA4	C703_88.2 S4 MX4SA4	183	C703_88.2 P112 BE112M4	C703_88.2 P112 BX112M4	184
17.7	2044	1.1	81.4	25000	C703_81.4 S4 ME4SA4	C703_81.4 S4 MX4SA4	183	C703_81.4 P112 BE112M4	C703_81.4 P112 BX112M4	184
18.7	1931	2.1	76.9	35000	C803_76.9 S4 ME4SA4	C803_76.9 S4 MX4SA4	186	C803_76.9 P112 BE112M4	C803_76.9 P112 BX112M4	187
20.2	1791	1.3	71.3	25000	C703_71.3 S4 ME4SA4	C703_71.3 S4 MX4SA4	183	C703_71.3 P112 BE112M4	C703_71.3 P112 BX112M4	184
20.4	1770	2.3	70.5	35000	C803_70.5 S4 ME4SA4	C803_70.5 S4 MX4SA4	186	C803_70.5 P112 BE112M4	C803_70.5 P112 BX112M4	187
21.3	1645	1.0	67.7	16000	C613_67.7 S4 ME4SA4	C613_67.7 S4 MX4SA4	179	C613_67.7 P112 BE112M4	C613_67.7 P112 BX112M4	180
21.9	1654	1.4	65.9	25000	C703_65.9 S4 ME4SA4	C703_65.9 S4 MX4SA4	183	C703_65.9 P112 BE112M4	C703_65.9 P112 BX112M4	184
23.0	1570	2.5	62.5	35000	C803_62.5 S4 ME4SA4	C803_62.5 S4 MX4SA4	186	C803_62.5 P112 BE112M4	C803_62.5 P112 BX112M4	187
24.6	1424	1.1	58.6	16000	C613_58.6 S4 ME4SA4	C613_58.6 S4 MX4SA4	179	C613_58.6 P112 BE112M4	C613_58.6 P112 BX112M4	180
25.1	1439	2.8	57.3	35000	C803_57.3 S4 ME4SA4	C803_57.3 S4 MX4SA4	186	C803_57.3 P112 BE112M4	C803_57.3 P112 BX112M4	187
25.5	1419	1.6	56.5	25000	C703_56.5 S4 ME4SA4	C703_56.5 S4 MX4SA4	183	C703_56.5 P112 BE112M4	C703_56.5 P112 BX112M4	184
26.9	1299	1.2	53.5	16000	C613_53.5 S4 ME4SA4	C613_53.5 S4 MX4SA4	179	C613_53.5 P112 BE112M4	C613_53.5 P112 BX112M4	180
27.6	1310	1.8	52.2	25000	C703_52.2 S4 ME4SA4	C703_52.2 S4 MX4SA4	183	C703_52.2 P112 BE112M4	C703_52.2 P112 BX112M4	184
30	1157	1.4	47.6	16000	C613_47.6 S4 ME4SA4	C613_47.6 S4 MX4SA4	179	C613_47.6 P112 BE112M4	C613_47.6 P112 BX112M4	180
30	1191	3.2	47.4	35000	C803_47.4 S4 ME4SA4	C803_47.4 S4 MX4SA4	186	C803_47.4 P112 BE112M4	C803_47.4 P112 BX112M4	187
32	1122	2.0	44.7	25000	C703_44.7 S4 ME4SA4	C703_44.7 S4 MX4SA4	183	C703_44.7 P112 BE112M4	C703_44.7 P112 BX112M4	184
33	1092	3.5	43.5	35000	C803_43.5 S4 ME4SA4	C803_43.5 S4 MX4SA4	186	C803_43.5 P112 BE112M4	C803_43.5 P112 BX112M4	187
33	1056	1.5	43.4	16000	C613_43.4 S4 ME4SA4	C613_43.4 S4 MX4SA4	179	C613_43.4 P112 BE112M4	C613_43.4 P112 BX112M4	180
35	1036	2.2	41.3	25000	C703_41.3 S4 ME4SA4	C703_41.3 S4 MX4SA4	183	C703_41.3 P112 BE112M4	C703_41.3 P112 BX112M4	184
36	1016	1.0	40.5	10000	C513_40.5 S4 ME4SA4	C513_40.5 S4 MX4SA4	175	C513_40.5 P112 BE112M4	C513_40.5 P112 BX112M4	176
38	975	1.4	38.0	16000	C612_38.0 S4 ME4SA4	C612_38.0 S4 MX4SA4	179	C612_38.0 P112 BE112M4	C612_38.0 P112 BX112M4	180
39	928	1.1	37.0	10000	C513_37.0 S4 ME4SA4	C513_37.0 S4 MX4SA4	175	C513_37.0 P112 BE112M4	C513_37.0 P112 BX112M4	176
40	878	1.8	36.1	15700	C613_36.1 S4 ME4SA4	C613_36.1 S4 MX4SA4	179	C613_36.1 P112 BE112M4	C613_36.1 P112 BX112M4	180
41	891	2.4	34.7	23400	C702_34.7 S4 ME4SA4	C702_34.7 S4 MX4SA4	183	C702_34.7 P112 BE112M4	C702_34.7 P112 BX112M4	184
42	878	1.4	34.2	15700	C612_34.2 S4 ME4SA4	C612_34.2 S4 MX4SA4	179	C612_34.2 P112 BE112M4	C612_34.2 P112 BX112M4	180
44	847	0.9	33.0	10000	C512_33.0 S4 ME4SA4	C512_33.0 S4 MX4SA4	175	C512_33.0 P112 BE112M4	C512_33.0 P112 BX112M4	176
44	801	1.9	33.0	15500	C613_33.0 S4 ME4SA4	C613_33.0 S4 MX4SA4	179	C613_33.0 P112 BE112M4	C613_33.0 P112 BX112M4	180
47	781	1.7	30.4	15300	C612_30.4 S4 ME4SA4	C612_30.4 S4 MX4SA4	179	C612_30.4 P112 BE112M4	C612_30.4 P112 BX112M4	180
48	755	1.3	30.1	9880	C513_30.1 S4 ME4SA4	C513_30.1 S4 MX4SA4	175	C513_30.1 P112 BE112M4	C513_30.1 P112 BX112M4	176



4 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N						
					IE2	IE3	IE2	IE3		
48	764	1.0	29.8	10000	C512_29.8 S4 ME4SA4	C512_29.8 S4 MX4SA4	175	C512_29.8 P112 BE112M4	C512_29.8 P112 BX112M4	184
52	711	3.0	27.7	22300	C702_27.7 S4 ME4SA4	C702_27.7 S4 MX4SA4	183	C702_27.7 P112 BE112M4	C702_27.7 P112 BX112M4	176
52	689	1.4	27.4	9550	C513_27.4 S4 ME4SA4	C513_27.4 S4 MX4SA4	175	C513_27.4 P112 BE112M4	C513_27.4 P112 BX112M4	180
53	703	1.9	27.4	14900	C612_27.4 S4 ME4SA4	C612_27.4 S4 MX4SA4	179	C612_27.4 P112 BE112M4	C612_27.4 P112 BX112M4	180
54	651	2.2	26.8	14700	C613_26.8 S4 ME4SA4	C613_26.8 S4 MX4SA4	179	C613_26.8 P112 BE112M4	C613_26.8 P112 BX112M4	176
56	665	1.2	25.9	10000	C512_25.9 S4 ME4SA4	C512_25.9 S4 MX4SA4	175	C512_25.9 P112 BE112M4	C512_25.9 P112 BX112M4	180
58	637	2.1	24.8	14600	C612_24.8 S4 ME4SA4	C612_24.8 S4 MX4SA4	179	C612_24.8 P112 BE112M4	C612_24.8 P112 BX112M4	176
60	600	1.5	23.9	9250	C513_23.9 S4 ME4SA4	C513_23.9 S4 MX4SA4	175	C513_23.9 P112 BE112M4	C513_23.9 P112 BX112M4	176
62	599	1.3	23.4	10000	C512_23.4 S4 ME4SA4	C512_23.4 S4 MX4SA4	175	C512_23.4 P112 BE112M4	C512_23.4 P112 BX112M4	180
64	573	2.4	22.4	14200	C612_22.4 S4 ME4SA4	C612_22.4 S4 MX4SA4	179	C612_22.4 P112 BE112M4	C612_22.4 P112 BX112M4	176
69	538	1.5	21.0	9920	C512_21.0 S4 ME4SA4	C512_21.0 S4 MX4SA4	175	C512_21.0 P112 BE112M4	C512_21.0 P112 BX112M4	172
73	507	1.0	19.8	4760	C412_19.8 S4 ME4SA4	C412_19.8 S4 MX4SA4	171	C412_19.8 P112 BE112M4	C412_19.8 P112 BX112M4	180
73	503	2.7	19.6	13800	C612_19.6 S4 ME4SA4	C612_19.6 S4 MX4SA4	179	C612_19.6 P112 BE112M4	C612_19.6 P112 BX112M4	176
76	485	1.7	18.9	9730	C512_18.9 S4 ME4SA4	C512_18.9 S4 MX4SA4	175	C512_18.9 P112 BE112M4	C512_18.9 P112 BX112M4	172
81	456	1.1	17.8	4720	C412_17.8 S4 ME4SA4	C412_17.8 S4 MX4SA4	171	C412_17.8 P112 BE112M4	C412_17.8 P112 BX112M4	180
82	453	3.0	17.7	13400	C612_17.7 S4 ME4SA4	C612_17.7 S4 MX4SA4	179	C612_17.7 P112 BE112M4	C612_17.7 P112 BX112M4	176
87	426	1.9	16.6	9440	C512_16.6 S4 ME4SA4	C512_16.6 S4 MX4SA4	175	C512_16.6 P112 BE112M4	C512_16.6 P112 BX112M4	180
90	409	3.3	15.9	13100	C612_15.9 S4 ME4SA4	C612_15.9 S4 MX4SA4	179	C612_15.9 P112 BE112M4	C612_15.9 P112 BX112M4	172
91	406	1.1	15.8	4740	C412_15.8 S4 ME4SA4	C412_15.8 S4 MX4SA4	171	C412_15.8 P112 BE112M4	C412_15.8 P112 BX112M4	176
96	384	2.1	15.0	9230	C512_15.0 S4 ME4SA4	C512_15.0 S4 MX4SA4	175	C512_15.0 P112 BE112M4	C512_15.0 P112 BX112M4	168
98	378	1.0	14.8	3880	C362_14.8 S4 ME4SA4	C362_14.8 S4 MX4SA4	167	C362_14.8 P112 BE112M4	C362_14.8 P112 BX112M4	172
101	365	1.2	14.2	4690	C412_14.2 S4 ME4SA4	C412_14.2 S4 MX4SA4	171	C412_14.2 P112 BE112M4	C412_14.2 P112 BX112M4	168
108	342	1.1	13.3	3840	C362_13.3 S4 ME4SA4	C362_13.3 S4 MX4SA4	167	C362_13.3 P112 BE112M4	C362_13.3 P112 BX112M4	176
110	337	2.2	13.1	8930	C512_13.1 S4 ME4SA4	C512_13.1 S4 MX4SA4	175	C512_13.1 P112 BE112M4	C512_13.1 P112 BX112M4	172
116	318	1.3	12.4	4660	C412_12.4 S4 ME4SA4	C412_12.4 S4 MX4SA4	171	C412_12.4 P112 BE112M4	C412_12.4 P112 BX112M4	176
122	304	2.5	11.8	8720	C512_11.8 S4 ME4SA4	C512_11.8 S4 MX4SA4	175	C512_11.8 P112 BE112M4	C512_11.8 P112 BX112M4	168
123	299	1.3	11.7	3840	C362_11.7 S4 ME4SA4	C362_11.7 S4 MX4SA4	167	C362_11.7 P112 BE112M4	C362_11.7 P112 BX112M4	172
129	286	1.5	11.2	4580	C412_11.2 S4 ME4SA4	C412_11.2 S4 MX4SA4	171	C412_11.2 P112 BE112M4	C412_11.2 P112 BX112M4	168
136	272	1.4	10.6	3780	C362_10.6 S4 ME4SA4	C362_10.6 S4 MX4SA4	167	C362_10.6 P112 BE112M4	C362_10.6 P112 BX112M4	176
148	250	2.7	9.8	8290	C512_9.8 S4 ME4SA4	C512_9.8 S4 MX4SA4	175	C512_9.8 P112 BE112M4	C512_9.8 P112 BX112M4	172
150	246	1.6	9.6	4510	C412_9.6 S4 ME4SA4	C412_9.6 S4 MX4SA4	171	C412_9.6 P112 BE112M4	C412_9.6 P112 BX112M4	164
155	238	0.9	9.3	3150	C322_9.3 S4 ME4SA4	C322_9.3 S4 MX4SA4	163	C322_9.3 P112 BE112M4	C322_9.3 P112 BX112M4	168
164	226	1.7	8.8	3720	C362_8.8 S4 ME4SA4	C362_8.8 S4 MX4SA4	167	C362_8.8 P112 BE112M4	C362_8.8 P112 BX112M4	176
164	225	3.0	8.8	8070	C512_8.8 S4 ME4SA4	C512_8.8 S4 MX4SA4	175	C512_8.8 P112 BE112M4	C512_8.8 P112 BX112M4	172
167	222	1.7	8.6	4420	C412_8.6 S4 ME4SA4	C412_8.6 S4 MX4SA4	171	C412_8.6 P112 BE112M4	C412_8.6 P112 BX112M4	164
170	218	1.0	8.5	3110	C322_8.5 S4 ME4SA4	C322_8.5 S4 MX4SA4	163	C322_8.5 P112 BE112M4	C322_8.5 P112 BX112M4	168
179	206	1.8	8.0	3650	C362_8.0 S4 ME4SA4	C362_8.0 S4 MX4SA4	167	C362_8.0 P112 BE112M4	C362_8.0 P112 BX112M4	176
186	199	3.2	7.8	7800	C512_7.8 S4 ME4SA4	C512_7.8 S4 MX4SA4	175	C512_7.8 P112 BE112M4	C512_7.8 P112 BX112M4	164
186	195	1.4	15.6	3090	C322_15.6 S4 ME4SA2		163	C322_15.6 P112 BE112M2		164
201	184	1.1	7.2	3070	C322_7.2 S4 ME4SA4	C322_7.2 S4 MX4SA4	163	C322_7.2 P112 BE112M4	C322_7.2 P112 BX112M4	172
204	181	2.0	7.1	4280	C412_7.1 S4 ME4SA4	C412_7.1 S4 MX4SA4	171	C412_7.1 P112 BE112M4	C412_7.1 P112 BX112M4	164
206	176	1.4	14.1	3040	C322_14.1 S4 ME4SA2		163	C322_14.1 P112 BE112M2		176
206	179	3.5	7.0	7580	C512_7.0 S4 ME4SA4	C512_7.0 S4 MX4SA4	175	C512_7.0 P112 BE112M4	C512_7.0 P112 BX112M4	168
212	174	2.0	6.8	3580	C362_6.8 S4 ME4SA4	C362_6.8 S4 MX4SA4	167	C362_6.8 P112 BE112M4	C362_6.8 P112 BX112M4	172
226	163	2.1	6.4	4180	C412_6.4 S4 ME4SA4	C412_6.4 S4 MX4SA4	171	C412_6.4 P112 BE112M4	C412_6.4 P112 BX112M4	164
230	161	1.0	6.3	2840	C322_6.3 S4 ME4SA4	C322_6.3 S4 MX4SA4	163	C322_6.3 P112 BE112M4	C322_6.3 P112 BX112M4	164
235	154	1.6	12.3	2990	C322_12.3 S4 ME4SA2		163	C322_12.3 P112 BE112M2		172
242	153	1.7	6.0	3840	C412_6.0 S4 ME4SA4	C412_6.0 S4 MX4SA4	171	C412_6.0 P112 BE112M4	C412_6.0 P112 BX112M4	168
246	150	1.3	5.8	3310	C362_5.8 S4 ME4SA4	C362_5.8 S4 MX4SA4	167	C362_5.8 P112 BE112M4	C362_5.8 P112 BX112M4	164
255	145	1.1	5.7	2780	C322_5.7 S4 ME4SA4	C322_5.7 S4 MX4SA4	163	C322_5.7 P112 BE112M4	C322_5.7 P112 BX112M4	164
259	140	1.6	11.2	2900	C322_11.2 S4 ME4SA2		163	C322_11.2 P112 BE112M2		168
273	135	1.5	5.3	3200	C362_5.3 S4 ME4SA4	C362_5.3 S4 MX4SA4	167	C362_5.3 P112 BE112M4	C362_5.3 P112 BX112M4	164
291	127	1.2	5.0	2760	C322_5.0 S4 ME4SA4	C322_5.0 S4 MX4SA4	163	C322_5.0 P112 BE112M4	C322_5.0 P112 BX112M4	160
301	121	1.2	9.6	1680				C222_9.6 P112 BE112M2		172
309	120	2.2	4.7	3500	C412_4.7 S4 ME4SA4	C412_4.7 S4 MX4SA4	171	C412_4.7 P112 BE112M4	C412_4.7 P112 BX112M4	168
312	119	1.7	4.6	3180	C362_4.6 S4 ME4SA4	C362_4.6 S4 MX4SA4	167	C362_4.6 P112 BE112M4	C362_4.6 P112 BX112M4	164
312	116	1.9	9.3	2840	C322_9.3 S4 ME4SA2		163	C322_9.3 P112 BE112M2		164

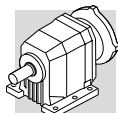


4 kW

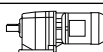
n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IE2	IE3
320	115	1.3	4.5	2690	C322_4.5 S4 ME4SA4	C322_4.5 S4 MX4SA4	C322_4.5 P112 BE112M4	C322_4.5 P112 BX112M4
335	108	1.3	8.7	1660			C222_8.7 P112 BE112M2	
338	109	0.9	4.3	1300			C222_4.3 P112 BE112M4	C222_4.3 P112 BX112M4
342	106	2.0	8.5	2750	C322_8.5 S4 ME4SA2		C322_8.5 P112 BE112M2	
343	108	1.9	4.2	3060	C362_4.2 S4 ME4SA4	C362_4.2 S4 MX4SA4	C362_4.2 P112 BE112M4	C362_4.2 P112 BX112M4
386	96	1.6	3.7	2640	C322_3.7 S4 ME4SA4	C322_3.7 S4 MX4SA4	C322_3.7 P112 BE112M4	C322_3.7 P112 BX112M4
388	95	0.9	3.7	1560			C222_3.7 P112 BE112M4	C222_3.7 P112 BX112M4
399	93	2.8	3.6	3180	C412_3.6 S4 ME4SA4	C412_3.6 S4 MX4SA4	C412_3.6 P112 BE112M4	C412_3.6 P112 BX112M4
405	90	2.2	7.2	2690	C322_7.2 S4 ME4SA2		C322_7.2 P112 BE112M2	
409	89	1.5	7.1	1650			C222_7.1 P112 BE112M2	
413	89	2.2	3.5	3010	C362_3.5 S4 ME4SA4	C362_3.5 S4 MX4SA4	C362_3.5 P112 BE112M4	C362_3.5 P112 BX112M4
422	87	1.6	3.4	2580	C322_3.4 S4 ME4SA4	C322_3.4 S4 MX4SA4	C322_3.4 P112 BE112M4	C322_3.4 P112 BX112M4
433	85	1.0	3.3	1540			C222_3.3 P112 BE112M4	C222_3.3 P112 BX112M4
453	82	2.5	3.2	2890	C362_3.2 S4 ME4SA4	C362_3.2 S4 MX4SA4	C362_3.2 P112 BE112M4	C362_3.2 P112 BX112M4
463	78	2.0	6.3	2530	C322_6.3 S4 ME4SA2		C322_6.3 P112 BE112M2	
476	76	1.4	6.1	1540			C222_6.1 P112 BE112M2	
500	74	1.8	2.9	2500	C322_2.9 S4 ME4SA4	C322_2.9 S4 MX4SA4	C322_2.9 P112 BE112M4	C322_2.9 P112 BX112M4
519	70	1.5	5.6	1520			C222_5.6 P112 BE112M2	
529	70	1.1	2.7	1530			C222_2.7 P112 BE112M4	C222_2.7 P112 BX112M4
536	69	2.9	2.7	2840	C362_2.7 S4 ME4SA4	C362_2.7 S4 MX4SA4	C362_2.7 P112 BE112M4	C362_2.7 P112 BX112M4
586	62	2.4	5.0	2410	C322_5.0 S4 ME4SA2		C322_5.0 P112 BE112M2	
608	60	1.7	4.8	1500			C222_4.8 P112 BE112M2	
644	56	2.7	4.5	2330	C322_4.5 S4 ME4SA2		C322_4.5 P112 BE112M2	
681	53	1.8	4.3	1470			C222_4.3 P112 BE112M2	
776	47	3.2	3.7	2250	C322_3.7 S4 ME4SA2		C322_3.7 P112 BE112M2	
782	46	1.9	3.7	1450			C222_3.7 P112 BE112M2	
851	43	3.2	3.4	2170	C322_3.4 S4 ME4SA2		C322_3.4 P112 BE112M2	
872	42	2.0	3.3	1410			C222_3.3 P112 BE112M2	
1007	36	3.6	2.9	2100	C322_2.9 S4 ME4SA2		C322_2.9 P112 BE112M2	
1065	34	2.3	2.7	1370			C222_2.7 P112 BE112M2	

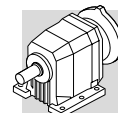
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n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE3	IE3
2.9	12214	1.0	502.6	85000		C1004_502.6 P112 BXN112M4
3.1	11342	1.1	466.7	85000		C1004_466.7 P112 BXN112M4
3.5	9957	1.2	409.8	85000		C1004_409.8 P112 BXN112M4
3.8	9246	1.3	380.5	85000		C1004_380.5 P112 BXN112M4
4.4	7864	1.5	323.6	85000		C1004_323.6 P112 BXN112M4
4.8	7302	1.6	300.5	85000		C1004_300.5 P112 BXN112M4
4.9	7118	1.0	292.9	60000		C904_292.9 P112 BXN112M4
5.4	6524	1.1	268.5	60000		C904_268.5 P112 BXN112M4
5.5	6391	1.9	263.0	85000		C1004_263.0 P112 BXN112M4
5.9	5934	2.0	244.2	85000		C1004_244.2 P112 BXN112M4
6.2	5630	1.3	231.7	60000		C904_231.7 P112 BXN112M4
6.8	5161	1.4	212.4	60000		C904_212.4 P112 BXN112M4
7.2	4851	2.5	199.6	85000		C1004_199.6 P112 BXN112M4
7.8	4504	2.7	185.4	85000		C1004_185.4 P112 BXN112M4
8.4	4322	1.7	172.1	60000		C903_172.1 P112 BXN112M4
8.5	4243	0.9	169.0	35000		C803_169.0 P112 BXN112M4
9.1	3961	1.8	157.8	60000		C903_157.8 P112 BXN112M4
9.7	3744	1.1	149.1	35000		C803_149.1 P112 BXN112M4
9.8	3674	2.0	146.3	60000		C903_146.3 P112 BXN112M4
10.5	3432	1.2	136.7	35000		C803_136.7 P112 BXN112M4
10.7	3368	2.1	134.1	60000		C903_134.1 P112 BXN112M4
12.1	3000	1.3	119.5	35000		C803_119.5 P112 BXN112M4
12.3	2931	2.5	116.7	60000		C903_116.7 P112 BXN112M4

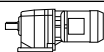


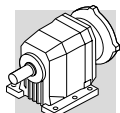
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IE3	
13.2	2750	1.5	109.5	35000		C803_109.5 P112 BXN112M4	187
13.5	2687	2.6	107.0	60000		C903_107.0 P112 BXN112M4	190
14.8	2445	1.6	97.4	35000		C803_97.4 P112 BXN112M4	187
15.0	2417	3.0	96.2	60000		C903_96.2 P112 BXN112M4	190
16.1	2242	1.8	89.3	35000		C803_89.3 P112 BXN112M4	187
16.3	2215	1.0	88.2	25000		C703_88.2 P112 BXN112M4	184
17.7	2044	1.1	81.4	25000		C703_81.4 P112 BXN112M4	184
18.7	1931	2.1	76.9	35000		C803_76.9 P112 BXN112M4	187
20.2	1791	1.3	71.3	25000		C703_71.3 P112 BXN112M4	184
20.4	1770	2.3	70.5	35000		C803_70.5 P112 BXN112M4	187
21.3	1645	1.0	67.7	16000		C613_67.7 P112 BXN112M4	180
21.9	1654	1.4	65.9	25000		C703_65.9 P112 BXN112M4	184
23.0	1570	2.5	62.5	35000		C803_62.5 P112 BXN112M4	187
24.6	1424	1.1	58.6	16000		C613_58.6 P112 BXN112M4	180
25.1	1439	2.8	57.3	35000		C803_57.3 P112 BXN112M4	187
25.5	1419	1.6	56.5	25000		C703_56.5 P112 BXN112M4	184
26.9	1299	1.2	53.5	16000		C613_53.5 P112 BXN112M4	180
27.6	1310	1.8	52.2	25000		C703_52.2 P112 BXN112M4	184
30	1157	1.4	47.6	16000		C613_47.6 P112 BXN112M4	180
30	1191	3.2	47.4	35000		C803_47.4 P112 BXN112M4	187
32	1122	2.0	44.7	25000		C703_44.7 P112 BXN112M4	184
33	1092	3.5	43.5	35000		C803_43.5 P112 BXN112M4	187
33	1056	1.5	43.4	16000		C613_43.4 P112 BXN112M4	180
35	1036	2.2	41.3	25000		C703_41.3 P112 BXN112M4	184
36	1016	1.0	40.5	10000		C513_40.5 P112 BXN112M4	176
38	975	1.4	38.0	16000		C612_38.0 P112 BXN112M4	180
39	928	1.1	37.0	10000		C513_37.0 P112 BXN112M4	176
40	878	1.8	36.1	15700		C613_36.1 P112 BXN112M4	180
41	891	2.4	34.7	23400		C702_34.7 P112 BXN112M4	184
42	878	1.4	34.2	15700		C612_34.2 P112 BXN112M4	180
44	847	0.9	33.0	10000		C512_33.0 P112 BXN112M4	176
44	801	1.9	33.0	15500		C613_33.0 P112 BXN112M4	180
47	781	1.7	30.4	15300		C612_30.4 P112 BXN112M4	180
48	755	1.3	30.1	9880		C513_30.1 P112 BXN112M4	176
48	764	1.0	29.8	10000		C512_29.8 P112 BXN112M4	176
52	711	3.0	27.7	22300		C702_27.7 P112 BXN112M4	184
52	689	1.4	27.4	9550		C513_27.4 P112 BXN112M4	176
53	703	1.9	27.4	14900		C612_27.4 P112 BXN112M4	180
54	651	2.2	26.8	14700		C613_26.8 P112 BXN112M4	180
56	665	1.2	25.9	10000		C512_25.9 P112 BXN112M4	176
58	637	2.1	24.8	14600		C612_24.8 P112 BXN112M4	180
60	600	1.5	23.9	9250		C513_23.9 P112 BXN112M4	176
62	599	1.3	23.4	10000		C512_23.4 P112 BXN112M4	176
64	573	2.4	22.4	14200		C612_22.4 P112 BXN112M4	180
69	538	1.5	21.0	9920		C512_21.0 P112 BXN112M4	176
73	507	1.0	19.8	4760		C412_19.8 P112 BXN112M4	172
73	503	2.7	19.6	13800		C612_19.6 P112 BXN112M4	180
76	485	1.7	18.9	9730		C512_18.9 P112 BXN112M4	176
81	456	1.1	17.8	4720		C412_17.8 P112 BXN112M4	172
82	453	3.0	17.7	13400		C612_17.7 P112 BXN112M4	180
87	426	1.9	16.6	9440		C512_16.6 P112 BXN112M4	176
90	409	3.3	15.9	13100		C612_15.9 P112 BXN112M4	180
91	406	1.1	15.8	4740		C412_15.8 P112 BXN112M4	172
96	384	2.1	15.0	9230		C512_15.0 P112 BXN112M4	176
98	378	1.0	14.8	3880		C362_14.8 P112 BXN112M4	168
101	365	1.2	14.2	4690		C412_14.2 P112 BXN112M4	172
108	342	1.1	13.3	3840		C362_13.3 P112 BXN112M4	168



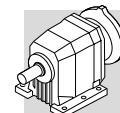
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IE3	 IE3	
110	337	2.2	13.1	8930			C512_13.1 P112 BXN112M4	176
116	318	1.3	12.4	4660			C412_12.4 P112 BXN112M4	172
122	304	2.5	11.8	8720			C512_11.8 P112 BXN112M4	176
123	299	1.3	11.7	3840			C362_11.7 P112 BXN112M4	168
129	286	1.5	11.2	4580			C412_11.2 P112 BXN112M4	172
136	272	1.4	10.6	3780			C362_10.6 P112 BXN112M4	168
148	250	2.7	9.8	8290			C512_9.8 P112 BXN112M4	176
150	246	1.6	9.6	4510			C412_9.6 P112 BXN112M4	172
155	238	0.9	9.3	3150			C322_9.3 P112 BXN112M4	164
164	226	1.7	8.8	3720			C362_8.8 P112 BXN112M4	168
164	225	3.0	8.8	8070			C512_8.8 P112 BXN112M4	176
167	222	1.7	8.6	4420			C412_8.6 P112 BXN112M4	172
170	218	1.0	8.5	3110			C322_8.5 P112 BXN112M4	164
179	206	1.8	8.0	3650			C362_8.0 P112 BXN112M4	168
186	199	3.2	7.8	7800			C512_7.8 P112 BXN112M4	176
201	184	1.1	7.2	3070			C322_7.2 P112 BXN112M4	164
204	181	2.0	7.1	4280			C412_7.1 P112 BXN112M4	172
206	179	3.5	7.0	7580			C512_7.0 P112 BXN112M4	176
212	174	2.0	6.8	3580			C362_6.8 P112 BXN112M4	168
226	163	2.1	6.4	4180			C412_6.4 P112 BXN112M4	172
230	161	1.0	6.3	2840			C322_6.3 P112 BXN112M4	164
242	153	1.7	6.0	3840			C412_6.0 P112 BXN112M4	172
246	150	1.3	5.8	3310			C362_5.8 P112 BXN112M4	168
255	145	1.1	5.7	2780			C322_5.7 P112 BXN112M4	164
273	135	1.5	5.3	3200			C362_5.3 P112 BXN112M4	168
291	127	1.2	5.0	2760			C322_5.0 P112 BXN112M4	164
309	120	2.2	4.7	3500			C412_4.7 P112 BXN112M4	172
312	119	1.7	4.6	3180			C362_4.6 P112 BXN112M4	168
320	115	1.3	4.5	2690			C322_4.5 P112 BXN112M4	164
338	109	0.9	4.3	1300			C222_4.3 P112 BXN112M4	160
343	108	1.9	4.2	3060			C362_4.2 P112 BXN112M4	168
386	96	1.6	3.7	2640			C322_3.7 P112 BXN112M4	164
388	95	0.9	3.7	1560			C222_3.7 P112 BXN112M4	160
399	93	2.8	3.6	3180			C412_3.6 P112 BXN112M4	172
413	89	2.2	3.5	3010			C362_3.5 P112 BXN112M4	168
422	87	1.6	3.4	2580			C322_3.4 P112 BXN112M4	164
433	85	1.0	3.3	1540			C222_3.3 P112 BXN112M4	160
453	82	2.5	3.2	2890			C362_3.2 P112 BXN112M4	168
500	74	1.8	2.9	2500			C322_2.9 P112 BXN112M4	164
529	70	1.1	2.7	1530			C222_2.7 P112 BXN112M4	160
536	69	2.9	2.7	2840			C362_2.7 P112 BXN112M4	168

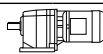
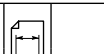


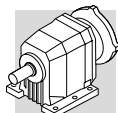
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3		IE2	IE3	
3.6	13276	0.9	409.8	85000	C1004_409.8 S4 ME4SB4	C1004_409.8 S4 MX4SB4	192	C1004_409.8 P132 BE132S4	C1004_409.8 P132 BX132SB4	193
3.8	12328	1.0	380.5	85000	C1004_380.5 S4 ME4SB4	C1004_380.5 S4 MX4SB4	192	C1004_380.5 P132 BE132S4	C1004_380.5 P132 BX132SB4	193
4.5	10485	1.1	323.6	85000	C1004_323.6 S4 ME4SB4	C1004_323.6 S4 MX4SB4	192	C1004_323.6 P132 BE132S4	C1004_323.6 P132 BX132SB4	193
4.9	9736	1.2	300.5	85000	C1004_300.5 S4 ME4SB4	C1004_300.5 S4 MX4SB4	192	C1004_300.5 P132 BE132S4	C1004_300.5 P132 BX132SB4	193
5.6	8521	1.4	263.0	85000	C1004_263.0 S4 ME4SB4	C1004_263.0 S4 MX4SB4	192	C1004_263.0 P132 BE132S4	C1004_263.0 P132 BX132SB4	193
6.0	7913	1.5	244.2	85000	C1004_244.2 S4 ME4SB4	C1004_244.2 S4 MX4SB4	192	C1004_244.2 P132 BE132S4	C1004_244.2 P132 BX132SB4	193
6.3	7507	1.0	231.7	60000	C904_231.7 S4 ME4SB4	C904_231.7 S4 MX4SB4	189	C904_231.7 P132 BE132S4	C904_231.7 P132 BX132SB4	190
6.9	6881	1.0	212.4	60000	C904_212.4 S4 ME4SB4	C904_212.4 S4 MX4SB4	189	C904_212.4 P132 BE132S4	C904_212.4 P132 BX132SB4	190
7.3	6468	1.9	199.6	85000	C1004_199.6 S4 ME4SB4	C1004_199.6 S4 MX4SB4	192	C1004_199.6 P132 BE132S4	C1004_199.6 P132 BX132SB4	193
7.9	6006	2.0	185.4	85000	C1004_185.4 S4 ME4SB4	C1004_185.4 S4 MX4SB4	192	C1004_185.4 P132 BE132S4	C1004_185.4 P132 BX132SB4	193
8.5	5762	1.2	172.1	60000	C903_172.1 S4 ME4SB4	C903_172.1 S4 MX4SB4	189	C903_172.1 P132 BE132S4	C903_172.1 P132 BX132SB4	190
9.0	5252	2.3	162.1	85000	C1004_162.1 S4 ME4SB4	C1004_162.1 S4 MX4SB4	192	C1004_162.1 P132 BE132S4	C1004_162.1 P132 BX132SB4	193
9.3	5282	1.3	157.8	60000	C903_157.8 S4 ME4SB4	C903_157.8 S4 MX4SB4	189	C903_157.8 P132 BE132S4	C903_157.8 P132 BX132SB4	190
9.7	5036	2.4	150.4	85000	C1003_150.4 S4 ME4SB4	C1003_150.4 S4 MX4SB4	192	C1003_150.4 P132 BE132S4	C1003_150.4 P132 BX132SB4	193
10.0	4899	1.5	146.3	60000	C903_146.3 S4 ME4SB4	C903_146.3 S4 MX4SB4	189	C903_146.3 P132 BE132S4	C903_146.3 P132 BX132SB4	190
10.5	4677	2.4	139.7	85000	C1003_139.7 S4 ME4SB4	C1003_139.7 S4 MX4SB4	192	C1003_139.7 P132 BE132S4	C1003_139.7 P132 BX132SB4	193
10.9	4491	1.6	134.1	60000	C903_134.1 S4 ME4SB4	C903_134.1 S4 MX4SB4	189	C903_134.1 P132 BE132S4	C903_134.1 P132 BX132SB4	190
12.1	4035	3.0	120.5	85000	C1003_120.5 S4 ME4SB4	C1003_120.5 S4 MX4SB4	192	C1003_120.5 P132 BE132S4	C1003_120.5 P132 BX132SB4	193
12.2	3999	1.0	119.5	35000	C803_119.5 S4 ME4SB4	C803_119.5 S4 MX4SB4	186	C803_119.5 P132 BE132S4	C803_119.5 P132 BX132SB4	187
12.5	3908	1.8	116.7	60000	C903_116.7 S4 ME4SB4	C903_116.7 S4 MX4SB4	189	C903_116.7 P132 BE132S4	C903_116.7 P132 BX132SB4	190
13.3	3666	1.1	109.5	35000	C803_109.5 S4 ME4SB4	C803_109.5 S4 MX4SB4	186	C803_109.5 P132 BE132S4	C803_109.5 P132 BX132SB4	187
13.6	3582	2.0	107.0	60000	C903_107.0 S4 ME4SB4	C903_107.0 S4 MX4SB4	189	C903_107.0 P132 BE132S4	C903_107.0 P132 BX132SB4	190
15.0	3260	1.2	97.4	35000	C803_97.4 S4 ME4SB4	C803_97.4 S4 MX4SB4	186	C803_97.4 P132 BE132S4	C803_97.4 P132 BX132SB4	187
15.2	3222	2.2	96.2	60000	C903_96.2 S4 ME4SB4	C903_96.2 S4 MX4SB4	189	C903_96.2 P132 BE132S4	C903_96.2 P132 BX132SB4	190
16.4	2989	1.3	89.3	35000	C803_89.3 S4 ME4SB4	C803_89.3 S4 MX4SB4	186	C803_89.3 P132 BE132S4	C803_89.3 P132 BX132SB4	187
16.5	2954	2.4	88.2	60000	C903_88.2 S4 ME4SB4	C903_88.2 S4 MX4SB4	189	C903_88.2 P132 BE132S4	C903_88.2 P132 BX132SB4	190
18.0	2719	2.6	81.2	59100	C903_81.2 S4 ME4SB4	C903_81.2 S4 MX4SB4	189	C903_81.2 P132 BE132S4	C903_81.2 P132 BX132SB4	190
19.0	2575	1.6	76.9	35000	C803_76.9 S4 ME4SB4	C803_76.9 S4 MX4SB4	186	C803_76.9 P132 BE132S4	C803_76.9 P132 BX132SB4	187
19.6	2492	2.8	74.4	58200	C903_74.4 S4 ME4SB4	C903_74.4 S4 MX4SB4	189	C903_74.4 P132 BE132S4	C903_74.4 P132 BX132SB4	190
20.5	2388	1.0	71.3	25000	C703_71.3 S4 ME4SB4	C703_71.3 S4 MX4SB4	183	C703_71.3 P132 BE132S4	C703_71.3 P132 BX132SB4	184
20.7	2360	1.7	70.5	35000	C803_70.5 S4 ME4SB4	C803_70.5 S4 MX4SB4	186	C803_70.5 P132 BE132S4	C803_70.5 P132 BX132SB4	187
22.2	2205	1.0	65.9	25000	C703_65.9 S4 ME4SB4	C703_65.9 S4 MX4SB4	183	C703_65.9 P132 BE132S4	C703_65.9 P132 BX132SB4	184
23.4	2093	1.9	62.5	35000	C803_62.5 S4 ME4SB4	C803_62.5 S4 MX4SB4	186	C803_62.5 P132 BE132S4	C803_62.5 P132 BX132SB4	187
25.5	1918	2.1	57.3	35000	C803_57.3 S4 ME4SB4	C803_57.3 S4 MX4SB4	186	C803_57.3 P132 BE132S4	C803_57.3 P132 BX132SB4	187
25.8	1892	1.2	56.5	25000	C703_56.5 S4 ME4SB4	C703_56.5 S4 MX4SB4	183	C703_56.5 P132 BE132S4	C703_56.5 P132 BX132SB4	184
27.3	1732	0.9	53.5	15000	C613_53.5 S4 ME4SB4	C613_53.5 S4 MX4SB4	179	C613_53.5 P132 BE132S4	C613_53.5 P132 BX132SB4	180
28.0	1746	1.3	52.2	24700	C703_52.2 S4 ME4SB4	C703_52.2 S4 MX4SB4	183	C703_52.2 P132 BE132S4	C703_52.2 P132 BX132SB4	184
31	1543	1.0	47.6	15300	C613_47.6 S4 ME4SB4	C613_47.6 S4 MX4SB4	179	C613_47.6 P132 BE132S4	C613_47.6 P132 BX132SB4	180
31	1588	2.4	47.4	35000	C803_47.4 S4 ME4SB4	C803_47.4 S4 MX4SB4	186	C803_47.4 P132 BE132S4	C803_47.4 P132 BX132SB4	187
33	1497	1.5	44.7	24100	C703_44.7 S4 ME4SB4	C703_44.7 S4 MX4SB4	183	C703_44.7 P132 BE132S4	C703_44.7 P132 BX132SB4	184
34	1456	2.6	43.5	35000	C803_43.5 S4 ME4SB4	C803_43.5 S4 MX4SB4	186	C803_43.5 P132 BE132S4	C803_43.5 P132 BX132SB4	187
34	1408	1.1	43.4	15000	C613_43.4 S4 ME4SB4	C613_43.4 S4 MX4SB4	179	C613_43.4 P132 BE132S4	C613_43.4 P132 BX132SB4	180
35	1381	1.7	41.3	23800	C703_41.3 S4 ME4SB4	C703_41.3 S4 MX4SB4	183	C703_41.3 P132 BE132S4	C703_41.3 P132 BX132SB4	184
37	1338	2.4	39.1	35000	C802_39.1 S4 ME4SB4	C802_39.1 S4 MX4SB4	186	C802_39.1 P132 BE132S4	C802_39.1 P132 BX132SB4	187
38	1300	1.0	38.0	14800	C612_38.0 S4 ME4SB4	C612_38.0 S4 MX4SB4	179	C612_38.0 P132 BE132S4	C612_38.0 P132 BX132SB4	180
40	1171	1.3	36.1	14800	C613_36.1 S4 ME4SB4	C613_36.1 S4 MX4SB4	179	C613_36.1 P132 BE132S4	C613_36.1 P132 BX132SB4	180
42	1188	1.8	34.7	22100	C702_34.7 S4 ME4SB4	C702_34.7 S4 MX4SB4	183	C702_34.7 P132 BE132S4	C702_34.7 P132 BX132SB4	184
43	1170	1.0	34.2	14500	C612_34.2 S4 ME4SB4	C612_34.2 S4 MX4SB4	179	C612_34.2 P132 BE132S4	C612_34.2 P132 BX132SB4	180
44	1068	1.4	33.0	14500	C613_33.0 S4 ME4SB4	C613_33.0 S4 MX4SB4	179	C613_33.0 P132 BE132S4	C613_33.0 P132 BX132SB4	180
47	1072	3.5	31.3	33400	C802_31.3 S4 ME4SB4	C802_31.3 S4 MX4SB4	186	C802_31.3 P132 BE132S4	C802_31.3 P132 BX132SB4	187



5.5 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	 IE2	 IE3	 IEC	 IE3		
48	1041	1.3	30.4	14300	C612_30.4 S4 ME4SB4	C612_30.4 S4 MX4SB4	179	C612_30.4 P132 BE132S4	C612_30.4 P132 BX132SB4	180
49	1006	1.0	30.1	9610	C513_30.1 S4 ME4SB4	C513_30.1 S4 MX4SB4	175	C513_30.1 P132 BE132S4	C513_30.1 P132 BX132SB4	176
53	948	2.2	27.7	21200	C702_27.7 S4 ME4SB4	C702_27.7 S4 MX4SB4	183	C702_27.7 P132 BE132S4	C702_27.7 P132 BX132SB4	184
53	919	1.1	27.4	9490	C513_27.4 S4 ME4SB4	C513_27.4 S4 MX4SB4	175	C513_27.4 P132 BE132S4	C513_27.4 P132 BX132SB4	176
53	938	1.4	27.4	13900	C612_27.4 S4 ME4SB4	C612_27.4 S4 MX4SB4	179	C612_27.4 P132 BE132S4	C612_27.4 P132 BX132SB4	180
56	886	0.9	25.9	9350	C512_25.9 S4 ME4SB4	C512_25.9 S4 MX4SB4	175	C512_25.9 P132 BE132S4	C512_25.9 P132 BX132SB4	176
59	849	1.6	24.8	13700	C612_24.8 S4 ME4SB4	C612_24.8 S4 MX4SB4	179	C612_24.8 P132 BE132S4	C612_24.8 P132 BX132SB4	180
61	800	1.2	23.9	9540	C513_23.9 S4 ME4SB4	C513_23.9 S4 MX4SB4	175	C513_23.9 P132 BE132S4	C513_23.9 P132 BX132SB4	176
63	799	1.0	23.4	9310	C512_23.4 S4 ME4SB4	C512_23.4 S4 MX4SB4	175	C512_23.4 P132 BE132S4	C512_23.4 P132 BX132SB4	176
64	782	2.7	22.9	20400	C702_22.9 S4 ME4SB4	C702_22.9 S4 MX4SB4	183	C702_22.9 P132 BE132S4	C702_22.9 P132 BX132SB4	184
65	764	1.8	22.4	13400	C612_22.4 S4 ME4SB4	C612_22.4 S4 MX4SB4	179	C612_22.4 P132 BE132S4	C612_22.4 P132 BX132SB4	180
70	717	1.1	21.0	9150	C512_21.0 S4 ME4SB4	C512_21.0 S4 MX4SB4	175	C512_21.0 P132 BE132S4	C512_21.0 P132 BX132SB4	176
74	670	2.0	19.6	13100	C612_19.6 S4 ME4SB4	C612_19.6 S4 MX4SB4	179	C612_19.6 P132 BE132S4	C612_19.6 P132 BX132SB4	180
76	660	3.2	19.3	19700	C702_19.3 S4 ME4SB4	C702_19.3 S4 MX4SB4	183	C702_19.3 P132 BE132S4	C702_19.3 P132 BX132SB4	184
77	646	1.2	18.9	9030	C512_18.9 S4 ME4SB4	C512_18.9 S4 MX4SB4	175	C512_18.9 P132 BE132S4	C512_18.9 P132 BX132SB4	176
83	604	2.2	17.7	12700	C612_17.7 S4 ME4SB4	C612_17.7 S4 MX4SB4	179	C612_17.7 P132 BE132S4	C612_17.7 P132 BX132SB4	180
88	568	1.4	16.6	8810	C512_16.6 S4 ME4SB4	C512_16.6 S4 MX4SB4	175	C512_16.6 P132 BE132S4	C512_16.6 P132 BX132SB4	176
92	545	2.5	15.9	12500	C612_15.9 S4 ME4SB4	C612_15.9 S4 MX4SB4	179	C612_15.9 P132 BE132S4	C612_15.9 P132 BX132SB4	180
98	512	1.6	15.0	8660	C512_15.0 S4 ME4SB4	C512_15.0 S4 MX4SB4	175	C512_15.0 P132 BE132S4	C512_15.0 P132 BX132SB4	176
102	491	2.8	14.3	12100	C612_14.3 S4 ME4SB4	C612_14.3 S4 MX4SB4	179	C612_14.3 P132 BE132S4	C612_14.3 P132 BX132SB4	180
102	487	0.9	14.2	4000	C412_14.2 S4 ME4SB4	C412_14.2 S4 MX4SB4	171	C412_14.2 P132 BE132S4	C412_14.2 P132 BX132SB4	172
111	449	1.7	13.1	8420	C512_13.1 S4 ME4SB4	C512_13.1 S4 MX4SB4	175	C512_13.1 P132 BE132S4	C512_13.1 P132 BX132SB4	176
118	424	1.0	12.4	4060	C412_12.4 S4 ME4SB4	C412_12.4 S4 MX4SB4	171	C412_12.4 P132 BE132S4	C412_12.4 P132 BX132SB4	172
121	414	3.3	12.1	11600	C612_12.1 S4 ME4SB4	C612_12.1 S4 MX4SB4	179	C612_12.1 P132 BE132S4	C612_12.1 P132 BX132SB4	180
123	405	1.9	11.8	8250	C512_11.8 S4 ME4SB4	C512_11.8 S4 MX4SB4	175	C512_11.8 P132 BE132S4	C512_11.8 P132 BX132SB4	176
125	399	1.0	11.7	3380	C362_11.7 S4 ME4SB4	C362_11.7 S4 MX4SB4	167	C362_11.7 P132 BE132S4	C362_11.7 P132 BX132SB4	168
131	382	1.1	11.2	4030	C412_11.2 S4 ME4SB4	C412_11.2 S4 MX4SB4	171	C412_11.2 P132 BE132S4	C412_11.2 P132 BX132SB4	172
138	363	1.0	10.6	3350	C362_10.6 S4 ME4SB4	C362_10.6 S4 MX4SB4	167	C362_10.6 P132 BE132S4	C362_10.6 P132 BX132SB4	168
150	334	2.1	9.8	7890	C512_9.8 S4 ME4SB4	C512_9.8 S4 MX4SB4	175	C512_9.8 P132 BE132S4	C512_9.8 P132 BX132SB4	176
152	328	1.2	9.6	4030	C412_9.6 S4 ME4SB4	C412_9.6 S4 MX4SB4	171	C412_9.6 P132 BE132S4	C412_9.6 P132 BX132SB4	172
166	301	1.3	8.8	3350	C362_8.8 S4 ME4SB4	C362_8.8 S4 MX4SB4	167	C362_8.8 P132 BE132S4	C362_8.8 P132 BX132SB4	168
166	301	2.3	8.8	7700	C512_8.8 S4 ME4SB4	C512_8.8 S4 MX4SB4	175	C512_8.8 P132 BE132S4	C512_8.8 P132 BX132SB4	176
182	275	1.3	8.0	3330	C362_8.0 S4 ME4SB4	C362_8.0 S4 MX4SB4	167	C362_8.0 P132 BE132S4	C362_8.0 P132 BX132SB4	168
188	265	2.4	7.8	7460	C512_7.8 S4 ME4SB4	C512_7.8 S4 MX4SB4	175	C512_7.8 P132 BE132S4	C512_7.8 P132 BX132SB4	176
207	242	1.5	7.1	3920	C412_7.1 S4 ME4SB4	C412_7.1 S4 MX4SB4	171	C412_7.1 P132 BE132S4	C412_7.1 P132 BX132SB4	172
209	239	2.6	7.0	7280	C512_7.0 S4 ME4SB4	C512_7.0 S4 MX4SB4	175	C512_7.0 P132 BE132S4	C512_7.0 P132 BX132SB4	176
215	232	1.5	6.8	3280	C362_6.8 S4 ME4SB4	C362_6.8 S4 MX4SB4	167	C362_6.8 P132 BE132S4	C362_6.8 P132 BX132SB4	168
229	218	1.6	6.4	3840	C412_6.4 S4 ME4SB4	C412_6.4 S4 MX4SB4	171	C412_6.4 P132 BE132S4	C412_6.4 P132 BX132SB4	172
243	205	3.2	6.0	9480	C612_6.0 S4 ME4SB4	C612_6.0 S4 MX4SB4	179	C612_6.0 P132 BE132S4	C612_6.0 P132 BX132SB4	180
245	204	1.3	6.0	3430	C412_6.0 S4 ME4SB4	C412_6.0 S4 MX4SB4	171	C412_6.0 P132 BE132S4	C412_6.0 P132 BX132SB4	172
250	200	1.0	5.8	3020	C362_5.8 S4 ME4SB4	C362_5.8 S4 MX4SB4	167	C362_5.8 P132 BE132S4	C362_5.8 P132 BX132SB4	168
259	193	2.3	5.6	6720	C512_5.6 S4 ME4SB4	C512_5.6 S4 MX4SB4	175	C512_5.6 P132 BE132S4	C512_5.6 P132 BX132SB4	176
262	190	2.2	11.2	3770	C412_11.2 S4 ME4SB2		171	C412_11.2 P132 BE132SA2		172
277	181	1.1	5.3	2930	C362_5.3 S4 ME4SB4	C362_5.3 S4 MX4SB4	167	C362_5.3 P132 BE132S4	C362_5.3 P132 BX132SB4	168
292	171	2.5	3.3	6530	C512_3.3 S5 ME5SA6		175	C512_3.3 P160 BE160MA6		176
295	169	0.9	5.0	2480	C322_5.0 S4 ME4SB4	C322_5.0 S4 MX4SB4	163	C322_5.0 P132 BE132S4	C322_5.0 P132 BX132SB4	164
305	164	2.4	9.6	3680	C412_9.6 S4 ME4SB2		171	C412_9.6 P132 BE132SA2		172
313	159	1.6	4.7	3360	C412_4.7 S4 ME4SB4	C412_4.7 S4 MX4SB4	171	C412_4.7 P132 BE132S4	C412_4.7 P132 BX132SB4	172
316	158	1.3	4.6	2860	C362_4.6 S4 ME4SB4	C362_4.6 S4 MX4SB4	167	C362_4.6 P132 BE132S4	C362_4.6 P132 BX132SB4	168
324	154	1.0	4.5	2500	C322_4.5 S4 ME4SB4	C322_4.5 S4 MX4SB4	163	C322_4.5 P132 BE132S4	C322_4.5 P132 BX132SB4	164

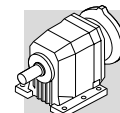


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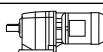
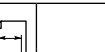
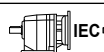
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IE2	IE3
328	152	2.9	4.5	6330	C512_4.5 S4 ME4SB4	C512_4.5 S4 MX4SB4	C512_4.5 P132 BE132S4	C512_4.5 P132 BX132SB4
338	147	2.6	8.6	3600	C412_8.6 S4 ME4SB2		C412_8.6 P132 BE132SA2	
348	144	1.4	4.2	2830	C362_4.2 S4 ME4SB4	C362_4.2 S4 MX4SB4	C362_4.2 P132 BE132S4	C362_4.2 P132 BX132SB4
364	137	2.7	8.0	2850	C362_8.0 S4 ME4SB2		C362_8.0 P132 BE132SA2	
367	136	2.9	2.6	6150	C512_2.6 S5 ME5SA6		C512_2.6 P160 BE160MA6	
391	128	1.2	3.7	2410	C322_3.7 S4 ME4SB4	C322_3.7 S4 MX4SB4	C322_3.7 P132 BE132S4	C322_3.7 P132 BX132SB4
404	123	2.1	3.6	3240	C412_3.6 S4 ME4SB4	C412_3.6 S4 MX4SB4	C412_3.6 P132 BE132S4	C412_3.6 P132 BX132SB4
414	121	2.9	7.1	3460	C412_7.1 S4 ME4SB2		C412_7.1 P132 BE132SA2	
419	119	1.7	3.5	2750	C362_3.5 S4 ME4SB4	C362_3.5 S4 MX4SB4	C362_3.5 P132 BE132S4	C362_3.5 P132 BX132SB4
428	117	1.2	3.4	2370	C322_3.4 S4 ME4SB4	C322_3.4 S4 MX4SB4	C322_3.4 P132 BE132S4	C322_3.4 P132 BX132SB4
431	116	3.1	6.8	2750	C362_6.8 S4 ME4SB2		C362_6.8 P132 BE132SA2	
459	109	1.8	3.2	2700	C362_3.2 S4 ME4SB4	C362_3.2 S4 MX4SB4	C362_3.2 P132 BE132S4	C362_3.2 P132 BX132SB4
460	109	3.2	6.4	3370	C412_6.4 S4 ME4SB2		C412_6.4 P132 BE132SA2	
491	102	2.6	6.0	3140	C412_6.0 S4 ME4SB2		C412_6.0 P132 BE132SA2	
500	100	2.0	5.8	2620	C362_5.8 S4 ME4SB2		C362_5.8 P132 BE132SA2	
507	98	1.3	2.9	2310	C322_2.9 S4 ME4SB4	C322_2.9 S4 MX4SB4	C322_2.9 P132 BE132S4	C322_2.9 P132 BX132SB4
543	92	2.2	2.7	2620	C362_2.7 S4 ME4SB4	C362_2.7 S4 MX4SB4	C362_2.7 P132 BE132S4	C362_2.7 P132 BX132SB4
549	91	2.7	2.7	3070	C412_2.7 S4 ME4SB4	C412_2.7 S4 MX4SB4	C412_2.7 P132 BE132S4	C412_2.7 P132 BX132SB4
554	90	2.2	5.3	2550	C362_5.3 S4 ME4SB2		C362_5.3 P132 BE132SA2	
591	84	1.8	5.0	2230	C322_5.0 S4 ME4SB2		C322_5.0 P132 BE132SA2	
627	80	3.3	4.7	2990	C412_4.7 S4 ME4SB2		C412_4.7 P132 BE132SA2	
650	77	2.0	4.5	2190	C322_4.5 S4 ME4SB2		C322_4.5 P132 BE132SA2	
783	64	2.4	3.7	2120	C322_3.7 S4 ME4SB2		C322_3.7 P132 BE132SA2	
858	58	2.4	3.4	2080	C322_3.4 S4 ME4SB2		C322_3.4 P132 BE132SA2	
1016	49	2.6	2.9	2000	C322_2.9 S4 ME4SB2		C322_2.9 P132 BE132SA2	

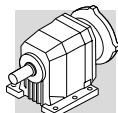
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IE3
3.6	13276	0.9	409.8	85000		C1004_409.8 P132 BXN132S4
3.8	12328	1.0	380.5	85000		C1004_380.5 P132 BXN132S4
4.5	10485	1.1	323.6	85000		C1004_323.6 P132 BXN132S4
4.9	9736	1.2	300.5	85000		C1004_300.5 P132 BXN132S4
5.6	8521	1.4	263.0	85000		C1004_263.0 P132 BXN132S4
6.0	7913	1.5	244.2	85000		C1004_244.2 P132 BXN132S4
6.3	7507	1.0	231.7	60000		C904_231.7 P132 BXN132S4
6.9	6881	1.0	212.4	60000		C904_212.4 P132 BXN132S4
7.3	6468	1.9	199.6	85000		C1004_199.6 P132 BXN132S4
7.9	6006	2.0	185.4	85000		C1004_185.4 P132 BXN132S4
8.5	5762	1.2	172.1	60000		C903_172.1 P132 BXN132S4
9.0	5252	2.3	162.1	85000		C1004_162.1 P132 BXN132S4
9.3	5282	1.3	157.8	60000		C903_157.8 P132 BXN132S4
9.7	5036	2.4	150.4	85000		C1003_150.4 P132 BXN132S4
10.0	4899	1.5	146.3	60000		C903_146.3 P132 BXN132S4
10.5	4677	2.4	139.7	85000		C1003_139.7 P132 BXN132S4
10.9	4491	1.6	134.1	60000		C903_134.1 P132 BXN132S4
12.1	4035	3.0	120.5	85000		C1003_120.5 P132 BXN132S4
12.2	3999	1.0	119.5	35000		C803_119.5 P132 BXN132S4
12.5	3908	1.8	116.7	60000		C903_116.7 P132 BXN132S4
13.3	3666	1.1	109.5	35000		C803_109.5 P132 BXN132S4

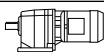


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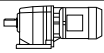
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IE3	 IE3	
13.6	3582	2.0	107.0	60000			C903_107.0 P132 BXN132S4	190
15.0	3260	1.2	97.4	35000			C803_97.4 P132 BXN132S4	187
15.2	3222	2.2	96.2	60000			C903_96.2 P132 BXN132S4	190
16.4	2989	1.3	89.3	35000			C803_89.3 P132 BXN132S4	187
16.5	2954	2.4	88.2	60000			C903_88.2 P132 BXN132S4	190
18.0	2719	2.6	81.2	59100			C903_81.2 P132 BXN132S4	190
19.0	2575	1.6	76.9	35000			C803_76.9 P132 BXN132S4	187
19.6	2492	2.8	74.4	58200			C903_74.4 P132 BXN132S4	190
20.5	2388	1.0	71.3	25000			C703_71.3 P132 BXN132S4	184
20.7	2360	1.7	70.5	35000			C803_70.5 P132 BXN132S4	187
22.2	2205	1.0	65.9	25000			C703_65.9 P132 BXN132S4	184
23.4	2093	1.9	62.5	35000			C803_62.5 P132 BXN132S4	187
25.5	1918	2.1	57.3	35000			C803_57.3 P132 BXN132S4	187
25.8	1892	1.2	56.5	25000			C703_56.5 P132 BXN132S4	184
27.3	1732	0.9	53.5	15000			C613_53.5 P132 BXN132S4	180
28.0	1746	1.3	52.2	24700			C703_52.2 P132 BXN132S4	184
31	1543	1.0	47.6	15300			C613_47.6 P132 BXN132S4	180
31	1588	2.4	47.4	35000			C803_47.4 P132 BXN132S4	187
33	1497	1.5	44.7	24100			C703_44.7 P132 BXN132S4	184
34	1456	2.6	43.5	35000			C803_43.5 P132 BXN132S4	187
34	1408	1.1	43.4	15000			C613_43.4 P132 BXN132S4	180
35	1381	1.7	41.3	23800			C703_41.3 P132 BXN132S4	184
37	1338	2.4	39.1	35000			C802_39.1 P132 BXN132S4	187
38	1300	1.0	38.0	14800			C612_38.0 P132 BXN132S4	180
40	1171	1.3	36.1	14800			C613_36.1 P132 BXN132S4	180
42	1188	1.8	34.7	22100			C702_34.7 P132 BXN132S4	184
43	1170	1.0	34.2	14500			C612_34.2 P132 BXN132S4	180
44	1068	1.4	33.0	14500			C613_33.0 P132 BXN132S4	180
47	1072	3.5	31.3	33400			C802_31.3 P132 BXN132S4	187
48	1041	1.3	30.4	14300			C612_30.4 P132 BXN132S4	180
49	1006	1.0	30.1	9610			C513_30.1 P132 BXN132S4	176
53	948	2.2	27.7	21200			C702_27.7 P132 BXN132S4	184
53	919	1.1	27.4	9490			C513_27.4 P132 BXN132S4	176
53	938	1.4	27.4	13900			C612_27.4 P132 BXN132S4	180
56	886	0.9	25.9	9350			C512_25.9 P132 BXN132S4	176
59	849	1.6	24.8	13700			C612_24.8 P132 BXN132S4	180
61	800	1.2	23.9	9540			C513_23.9 P132 BXN132S4	176
63	799	1.0	23.4	9310			C512_23.4 P132 BXN132S4	176
64	782	2.7	22.9	20400			C702_22.9 P132 BXN132S4	184
65	764	1.8	22.4	13400			C612_22.4 P132 BXN132S4	180
70	717	1.1	21.0	9150			C512_21.0 P132 BXN132S4	176
74	670	2.0	19.6	13100			C612_19.6 P132 BXN132S4	180
76	660	3.2	19.3	19700			C702_19.3 P132 BXN132S4	184
77	646	1.2	18.9	9030			C512_18.9 P132 BXN132S4	176
83	604	2.2	17.7	12700			C612_17.7 P132 BXN132S4	180
88	568	1.4	16.6	8810			C512_16.6 P132 BXN132S4	176
92	545	2.5	15.9	12500			C612_15.9 P132 BXN132S4	180
98	512	1.6	15.0	8660			C512_15.0 P132 BXN132S4	176
102	491	2.8	14.3	12100			C612_14.3 P132 BXN132S4	180
102	487	0.9	14.2	4000			C412_14.2 P132 BXN132S4	172
111	449	1.7	13.1	8420			C512_13.1 P132 BXN132S4	176
118	424	1.0	12.4	4060			C412_12.4 P132 BXN132S4	172
121	414	3.3	12.1	11600			C612_12.1 P132 BXN132S4	180
123	405	1.9	11.8	8250			C512_11.8 P132 BXN132S4	176
125	399	1.0	11.7	3380			C362_11.7 P132 BXN132S4	168
131	382	1.1	11.2	4030			C412_11.2 P132 BXN132S4	172
138	363	1.0	10.6	3350			C362_10.6 P132 BXN132S4	168

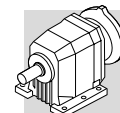


5.5 kW

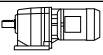
n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N	 IE3	 IE3	 IE3	
150	334	2.1	9.8	7890			C512_9.8 P132 BXN132S4	176
152	328	1.2	9.6	4030			C412_9.6 P132 BXN132S4	172
166	301	1.3	8.8	3350			C362_8.8 P132 BXN132S4	168
166	301	2.3	8.8	7700			C512_8.8 P132 BXN132S4	176
182	275	1.3	8.0	3330			C362_8.0 P132 BXN132S4	168
188	265	2.4	7.8	7460			C512_7.8 P132 BXN132S4	176
207	242	1.5	7.1	3920			C412_7.1 P132 BXN132S4	172
209	239	2.6	7.0	7280			C512_7.0 P132 BXN132S4	176
215	232	1.5	6.8	3280			C362_6.8 P132 BXN132S4	168
229	218	1.6	6.4	3840			C412_6.4 P132 BXN132S4	172
243	205	3.2	6.0	9480			C612_6.0 P132 BXN132S4	180
245	204	1.3	6.0	3430			C412_6.0 P132 BXN132S4	172
250	200	1.0	5.8	3020			C362_5.8 P132 BXN132S4	168
259	193	2.3	5.6	6720			C512_5.6 P132 BXN132S4	176
277	181	1.1	5.3	2930			C362_5.3 P132 BXN132S4	168
295	169	0.9	5.0	2480			C322_5.0 P132 BXN132S4	164
313	159	1.6	4.7	3360			C412_4.7 P132 BXN132S4	172
316	158	1.3	4.6	2860			C362_4.6 P132 BXN132S4	168
324	154	1.0	4.5	2500			C322_4.5 P132 BXN132S4	164
328	152	2.9	4.5	6330			C512_4.5 P132 BXN132S4	176
348	144	1.4	4.2	2830			C362_4.2 P132 BXN132S4	168
391	128	1.2	3.7	2410			C322_3.7 P132 BXN132S4	164
404	123	2.1	3.6	3240			C412_3.6 P132 BXN132S4	172
419	119	1.7	3.5	2750			C362_3.5 P132 BXN132S4	168
428	117	1.2	3.4	2370			C322_3.4 P132 BXN132S4	164
459	109	1.8	3.2	2700			C362_3.2 P132 BXN132S4	168
507	98	1.3	2.9	2310			C322_2.9 P132 BXN132S4	164
543	92	2.2	2.7	2620			C362_2.7 P132 BXN132S4	168
549	91	2.7	2.7	3070			C412_2.7 P132 BXN132S4	172

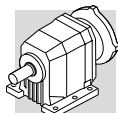
7.5 kW

n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N	 IE2	 IE3		 IEC	 IE3	
4.8	13252	0.9	300.5	85000	C1004_300.5 S4 ME4LA4	C1004_300.5 S4 MX4LA4	192	C1004_300.5 P132 BE132MA4	C1004_300.5 P132 BX132MA4	193
5.5	11598	1.0	263.0	85000	C1004_263.0 S4 ME4LA4	C1004_263.0 S4 MX4LA4	192	C1004_263.0 P132 BE132MA4	C1004_263.0 P132 BX132MA4	193
6.0	10770	1.1	244.2	85000	C1004_244.2 S4 ME4LA4	C1004_244.2 S4 MX4LA4	192	C1004_244.2 P132 BE132MA4	C1004_244.2 P132 BX132MA4	193
7.3	8804	1.4	199.6	85000	C1004_199.6 S4 ME4LA4	C1004_199.6 S4 MX4LA4	192	C1004_199.6 P132 BE132MA4	C1004_199.6 P132 BX132MA4	193
7.8	8175	1.5	185.4	85000	C1004_185.4 S4 ME4LA4	C1004_185.4 S4 MX4LA4	192	C1004_185.4 P132 BE132MA4	C1004_185.4 P132 BX132MA4	193
8.5	7843	0.9	172.1	60000	C903_172.1 S4 ME4LA4	C903_172.1 S4 MX4LA4	189	C903_172.1 P132 BE132MA4	C903_172.1 P132 BX132MA4	190
9.0	7149	1.7	162.1	85000	C1004_162.1 S4 ME4LA4	C1004_162.1 S4 MX4LA4	192	C1004_162.1 P132 BE132MA4	C1004_162.1 P132 BX132MA4	193
9.2	7189	1.0	157.8	60000	C903_157.8 S4 ME4LA4	C903_157.8 S4 MX4LA4	189	C903_157.8 P132 BE132MA4	C903_157.8 P132 BX132MA4	190
9.7	6855	1.8	150.4	85000	C1003_150.4 S4 ME4LA4	C1003_150.4 S4 MX4LA4	192	C1003_150.4 P132 BE132MA4	C1003_150.4 P132 BX132MA4	193
9.9	6668	1.1	146.3	59600	C903_146.3 S4 ME4LA4	C903_146.3 S4 MX4LA4	189	C903_146.3 P132 BE132MA4	C903_146.3 P132 BX132MA4	190
10.4	6365	1.7	139.7	85000	C1003_139.7 S4 ME4LA4	C1003_139.7 S4 MX4LA4	192	C1003_139.7 P132 BE132MA4	C1003_139.7 P132 BX132MA4	193
10.8	6113	1.2	134.1	59400	C903_134.1 S4 ME4LA4	C903_134.1 S4 MX4LA4	189	C903_134.1 P132 BE132MA4	C903_134.1 P132 BX132MA4	190
12.1	5492	2.2	120.5	85000	C1003_120.5 S4 ME4LA4	C1003_120.5 S4 MX4LA4	192	C1003_120.5 P132 BE132MA4	C1003_120.5 P132 BX132MA4	193
12.5	5319	1.4	116.7	58600	C903_116.7 S4 ME4LA4	C903_116.7 S4 MX4LA4	189	C903_116.7 P132 BE132MA4	C903_116.7 P132 BX132MA4	190
13.0	5100	2.4	111.9	85000	C1003_111.9 S4 ME4LA4	C1003_111.9 S4 MX4LA4	192	C1003_111.9 P132 BE132MA4	C1003_111.9 P132 BX132MA4	193



7.5 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N						
					IE2	IE3		IE2	IE3	
13.6	4876	1.5	107.0	58200	C903_107.0 S4 ME4LA4	C903_107.0 S4 MX4LA4	189	C903_107.0 P132 BE132MA4	C903_107.0 P132 BX132MA4	190
14.6	4548	2.6	99.8	85000	C1003_99.8 S4 ME4LA4	C1003_99.8 S4 MX4LA4	192	C1003_99.8 P132 BE132MA4	C1003_99.8 P132 BX132MA4	193
14.9	4438	0.9	97.4	34500	C803_97.4 S4 ME4LA4	C803_97.4 S4 MX4LA4	186	C803_97.4 P132 BE132MA4	C803_97.4 P132 BX132MA4	187
15.1	4386	1.6	96.2	57500	C903_96.2 S4 ME4LA4	C903_96.2 S4 MX4LA4	189	C903_96.2 P132 BE132MA4	C903_96.2 P132 BX132MA4	190
15.7	4223	2.8	92.7	85000	C1003_92.7 S4 ME4LA4	C1003_92.7 S4 MX4LA4	192	C1003_92.7 P132 BE132MA4	C1003_92.7 P132 BX132MA4	193
16.3	4068	1.0	89.3	35000	C803_89.3 S4 ME4LA4	C803_89.3 S4 MX4LA4	186	C803_89.3 P132 BE132MA4	C803_89.3 P132 BX132MA4	187
16.5	4020	1.8	88.2	56600	C903_88.2 S4 ME4LA4	C903_88.2 S4 MX4LA4	189	C903_88.2 P132 BE132MA4	C903_88.2 P132 BX132MA4	190
17.0	3899	3.1	85.6	85000	C1003_85.6 S4 ME4LA4	C1003_85.6 S4 MX4LA4	192	C1003_85.6 P132 BE132MA4	C1003_85.6 P132 BX132MA4	193
17.9	3701	1.9	81.2	56100	C903_81.2 S4 ME4LA4	C903_81.2 S4 MX4LA4	189	C903_81.2 P132 BE132MA4	C903_81.2 P132 BX132MA4	190
18.9	3505	1.1	76.9	35000	C803_76.9 S4 ME4LA4	C803_76.9 S4 MX4LA4	186	C803_76.9 P132 BE132MA4	C803_76.9 P132 BX132MA4	187
19.5	3392	2.1	74.4	55200	C903_74.4 S4 ME4LA4	C903_74.4 S4 MX4LA4	189	C903_74.4 P132 BE132MA4	C903_74.4 P132 BX132MA4	190
20.6	3213	1.2	70.5	35000	C803_70.5 S4 ME4LA4	C803_70.5 S4 MX4LA4	186	C803_70.5 P132 BE132MA4	C803_70.5 P132 BX132MA4	187
22.5	2943	2.4	64.6	54000	C903_64.6 S4 ME4LA4	C903_64.6 S4 MX4LA4	189	C903_64.6 P132 BE132MA4	C903_64.6 P132 BX132MA4	190
23.3	2848	1.4	62.5	35000	C803_62.5 S4 ME4LA4	C803_62.5 S4 MX4LA4	186	C803_62.5 P132 BE132MA4	C803_62.5 P132 BX132MA4	187
24.6	2698	2.6	59.2	53000	C903_59.2 S4 ME4LA4	C903_59.2 S4 MX4LA4	189	C903_59.2 P132 BE132MA4	C903_59.2 P132 BX132MA4	190
25.4	2611	1.5	57.3	35000	C803_57.3 S4 ME4LA4	C803_57.3 S4 MX4LA4	186	C803_57.3 P132 BE132MA4	C803_57.3 P132 BX132MA4	187
26.5	2501	2.9	54.9	52400	C903_54.9 S4 ME4LA4	C903_54.9 S4 MX4LA4	189	C903_54.9 P132 BE132MA4	C903_54.9 P132 BX132MA4	190
27.9	2377	1.0	52.2	22900	C703_52.2 S4 ME4LA4	C703_52.2 S4 MX4LA4	183	C703_52.2 P132 BE132MA4	C703_52.2 P132 BX132MA4	184
31	2162	1.8	47.4	35000	C803_47.4 S4 ME4LA4	C803_47.4 S4 MX4LA4	186	C803_47.4 P132 BE132MA4	C803_47.4 P132 BX132MA4	187
33	2037	1.1	44.7	22500	C703_44.7 S4 ME4LA4	C703_44.7 S4 MX4LA4	183	C703_44.7 P132 BE132MA4	C703_44.7 P132 BX132MA4	184
33	1982	1.9	43.5	35000	C803_43.5 S4 ME4LA4	C803_43.5 S4 MX4LA4	186	C803_43.5 P132 BE132MA4	C803_43.5 P132 BX132MA4	187
35	1880	1.2	41.3	22300	C703_41.3 S4 ME4LA4	C703_41.3 S4 MX4LA4	183	C703_41.3 P132 BE132MA4	C703_41.3 P132 BX132MA4	184
37	1821	1.8	39.1	33600	C802_39.1 S4 ME4LA4	C802_39.1 S4 MX4LA4	186	C802_39.1 P132 BE132MA4	C802_39.1 P132 BX132MA4	187
40	1594	1.0	36.1	13300	C613_36.1 S4 ME4LA4	C613_36.1 S4 MX4LA4	179	C613_36.1 P132 BE132MA4	C613_36.1 P132 BX132MA4	180
41	1634	3.3	35.1	47300	C902_35.1 S4 ME4LA4	C902_35.1 S4 MX4LA4	189	C902_35.1 P132 BE132MA4	C902_35.1 P132 BX132MA4	190
42	1617	1.3	34.7	20500	C702_34.7 S4 ME4LA4	C702_34.7 S4 MX4LA4	183	C702_34.7 P132 BE132MA4	C702_34.7 P132 BX132MA4	184
44	1454	1.0	33.0	13100	C613_33.0 S4 ME4LA4	C613_33.0 S4 MX4LA4	179	C613_33.0 P132 BE132MA4	C613_33.0 P132 BX132MA4	180
46	1459	2.5	31.3	32200	C802_31.3 S4 ME4LA4	C802_31.3 S4 MX4LA4	186	C802_31.3 P132 BE132MA4	C802_31.3 P132 BX132MA4	187
48	1417	1.0	30.4	13000	C612_30.4 S4 ME4LA4	C612_30.4 S4 MX4LA4	179	C612_30.4 P132 BE132MA4	C612_30.4 P132 BX132MA4	180
50	1295	1.1	29.4	13100	C613_29.4 S4 ME4LA4	C613_29.4 S4 MX4LA4	179	C613_29.4 P132 BE132MA4	C613_29.4 P132 BX132MA4	180
52	1290	1.6	27.7	20000	C702_27.7 S4 ME4LA4	C702_27.7 S4 MX4LA4	183	C702_27.7 P132 BE132MA4	C702_27.7 P132 BX132MA4	184
53	1276	1.1	27.4	12800	C612_27.4 S4 ME4LA4	C612_27.4 S4 MX4LA4	179	C612_27.4 P132 BE132MA4	C612_27.4 P132 BX132MA4	180
56	1208	3.1	25.9	31000	C802_25.9 S4 ME4LA4	C802_25.9 S4 MX4LA4	186	C802_25.9 P132 BE132MA4	C802_25.9 P132 BX132MA4	187
59	1155	1.2	24.8	12700	C612_24.8 S4 ME4LA4	C612_24.8 S4 MX4LA4	179	C612_24.8 P132 BE132MA4	C612_24.8 P132 BX132MA4	180
61	1115	3.2	24.0	30500	C802_24.0 S4 ME4LA4	C802_24.0 S4 MX4LA4	186	C802_24.0 P132 BE132MA4	C802_24.0 P132 BX132MA4	187
64	1064	2.0	22.9	19400	C702_22.9 S4 ME4LA4	C702_22.9 S4 MX4LA4	183	C702_22.9 P132 BE132MA4	C702_22.9 P132 BX132MA4	184
65	1040	1.3	22.4	12500	C612_22.4 S4 ME4LA4	C612_22.4 S4 MX4LA4	179	C612_22.4 P132 BE132MA4	C612_22.4 P132 BX132MA4	180
65	1035	3.6	22.2	30000	C802_22.2 S4 ME4LA4	C802_22.2 S4 MX4LA4	186	C802_22.2 P132 BE132MA4	C802_22.2 P132 BX132MA4	187
67	994	0.9	21.8	7200	C513_21.8 S4 ME4LA4	C513_21.8 S4 MX4LA4	175	C513_21.8 P132 BE132MA4	C513_21.8 P132 BX132MA4	176
74	912	1.5	19.6	12300	C612_19.6 S4 ME4LA4	C612_19.6 S4 MX4LA4	179	C612_19.6 P132 BE132MA4	C612_19.6 P132 BX132MA4	180
75	898	2.3	19.3	18900	C702_19.3 S4 ME4LA4	C702_19.3 S4 MX4LA4	183	C702_19.3 P132 BE132MA4	C702_19.3 P132 BX132MA4	184
77	879	0.9	18.9	7100	C512_18.9 S4 ME4LA4	C512_18.9 S4 MX4LA4	175	C512_18.9 P132 BE132MA4	C512_18.9 P132 BX132MA4	176
82	822	1.6	17.7	12000	C612_17.7 S4 ME4LA4	C612_17.7 S4 MX4LA4	179	C612_17.7 P132 BE132MA4	C612_17.7 P132 BX132MA4	180
87	778	2.6	16.7	18200	C702_16.7 S4 ME4LA4	C702_16.7 S4 MX4LA4	183	C702_16.7 P132 BE132MA4	C702_16.7 P132 BX132MA4	184
88	773	1.0	16.6	8070	C512_16.6 S4 ME4LA4	C512_16.6 S4 MX4LA4	175	C512_16.6 P132 BE132MA4	C512_16.6 P132 BX132MA4	176
91	742	1.8	15.9	11800	C612_15.9 S4 ME4LA4	C612_15.9 S4 MX4LA4	179	C612_15.9 P132 BE132MA4	C612_15.9 P132 BX132MA4	180
95	714	2.9	15.3	18000	C702_15.3 S4 ME4LA4	C702_15.3 S4 MX4LA4	183	C702_15.3 P132 BE132MA4	C702_15.3 P132 BX132MA4	184
97	697	1.1	15.0	8000	C512_15.0 S4 ME4LA4	C512_15.0 S4 MX4LA4	175	C512_15.0 P132 BE132MA4	C512_15.0 P132 BX132MA4	176
101	668	2.0	14.3	11500	C612_14.3 S4 ME4LA4	C612_14.3 S4 MX4LA4	179	C612_14.3 P132 BE132MA4	C612_14.3 P132 BX132MA4	180
111	611	1.2	13.1	7840	C512_13.1 S4 ME4LA4	C512_13.1 S4 MX4LA4	175	C512_13.1 P132 BE132MA4	C512_13.1 P132 BX132MA4	176
120	563	2.4	12.1	11100	C612_12.1 S4 ME4LA4	C612_12.1 S4 MX4LA4	179	C612_12.1 P132 BE132MA4	C612_12.1 P132 BX132MA4	180
123	551	1.4	11.8	7730	C512_11.8 S4 ME4LA4	C512_11.8 S4 MX4LA4	175	C512_11.8 P132 BE132MA4	C512_11.8 P132 BX132MA4	176
134	507	2.7	10.9	10900	C612_10.9 S4 ME4LA4	C612_10.9 S4 MX4LA4	179	C612_10.9 P132 BE132MA4	C612_10.9 P132 BX132MA4	180
148	457	3.0	9.8	10600	C612_9.8 S4 ME4LA4	C612_9.8 S4 MX4LA4	179	C612_9.8 P132 BE132MA4	C612_9.8 P132 BX132MA4	180
149	454	1.5	9.8	7450	C512_9.8 S4 ME4LA4	C512_9.8 S4 MX4LA4	175	C512_9.8 P132 BE132MA4	C512_9.8 P132 BX132MA4	176
152	447	0.9	9.6	3300	C412_9.6 S4 ME4LA4	C412_9.6 S4 MX4LA4	171	C412_9.6 P132 BE132MA4	C412_9.6 P132 BX132MA4	172
165	412	3.3	8.8	10300	C612_8.8 S4 ME4LA4	C612_8.8 S4 MX4LA4	179	C612_8.8 P132 BE132MA4	C612_8.8 P132 BX132MA4	180

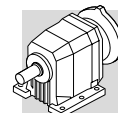


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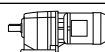
n ₂ min-1	M ₂ Nm	S	i	R _{n2} N						
					IE2	IE3				
165	410	0.9	8.8	2880	C362_8.8 S4 ME4LA4	C362_8.8 S4 MX4LA4	167	C362_8.8 P132 BE132MA4	C362_8.8 P132 BX132MA4	168
166	409	1.7	8.8	7320	C512_8.8 S4 ME4LA4	C512_8.8 S4 MX4LA4	175	C512_8.8 P132 BE132MA4	C512_8.8 P132 BX132MA4	176
168	402	1.0	8.6	3430	C412_8.6 S4 ME4LA4	C412_8.6 S4 MX4LA4	171	C412_8.6 P132 BE132MA4	C412_8.6 P132 BX132MA4	172
181	374	1.0	8.0	2900	C362_8.0 S4 ME4LA4	C362_8.0 S4 MX4LA4	167	C362_8.0 P132 BE132MA4	C362_8.0 P132 BX132MA4	168
188	361	1.8	7.8	7120	C512_7.8 S4 ME4LA4	C512_7.8 S4 MX4LA4	175	C512_7.8 P132 BE132MA4	C512_7.8 P132 BX132MA4	176
206	329	1.1	7.1	3470	C412_7.1 S4 ME4LA4	C412_7.1 S4 MX4LA4	171	C412_7.1 P132 BE132MA4	C412_7.1 P132 BX132MA4	172
208	325	1.9	7.0	6970	C512_7.0 S4 ME4LA4	C512_7.0 S4 MX4LA4	175	C512_7.0 P132 BE132MA4	C512_7.0 P132 BX132MA4	176
215	316	1.1	6.8	2900	C362_6.8 S4 ME4LA4	C362_6.8 S4 MX4LA4	167	C362_6.8 P132 BE132MA4	C362_6.8 P132 BX132MA4	168
229	296	1.2	6.4	3440	C412_6.4 S4 ME4LA4	C412_6.4 S4 MX4LA4	171	C412_6.4 P132 BE132MA4	C412_6.4 P132 BX132MA4	172
242	279	2.4	6.0	9180	C612_6.0 S4 ME4LA4	C612_6.0 S4 MX4LA4	179	C612_6.0 P132 BE132MA4	C612_6.0 P132 BX132MA4	180
244	277	0.9	6.0	2920	C412_6.0 S4 ME4LA4	C412_6.0 S4 MX4LA4	171	C412_6.0 P132 BE132MA4	C412_6.0 P132 BX132MA4	172
258	262	1.7	5.6	6410	C512_5.6 S4 ME4LA4	C512_5.6 S4 MX4LA4	175	C512_5.6 P132 BE132MA4	C512_5.6 P132 BX132MA4	176
312	217	1.2	4.7	2960	C412_4.7 S4 ME4LA4	C412_4.7 S4 MX4LA4	171	C412_4.7 P132 BE132MA4	C412_4.7 P132 BX132MA4	172
315	215	0.9	4.6	2600	C362_4.6 S4 ME4LA4	C362_4.6 S4 MX4LA4	167	C362_4.6 P132 BE132MA4	C362_4.6 P132 BX132MA4	168
319	212	3.1	4.6	8550	C612_4.6 S4 ME4LA4	C612_4.6 S4 MX4LA4	179	C612_4.6 P132 BE132MA4	C612_4.6 P132 BX132MA4	180
327	207	2.1	4.5	6090	C512_4.5 S4 ME4LA4	C512_4.5 S4 MX4LA4	175	C512_4.5 P132 BE132MA4	C512_4.5 P132 BX132MA4	176
342	199	3.3	2.8	8390	C612_2.8 S5 ME5SB6		179	C612_2.8 P160 BE160MB6		180
346	196	1.0	4.2	2550	C362_4.2 S4 ME4LA4	C362_4.2 S4 MX4LA4	167	C362_4.2 P132 BE132MA4	C362_4.2 P132 BX132MA4	168
367	185	2.2	2.6	5920	C512_2.6 S5 ME5SB6		175	C512_2.6 P160 BE160MB6		176
403	168	1.5	3.6	2930	C412_3.6 S4 ME4LA4	C412_3.6 S4 MX4LA4	171	C412_3.6 P132 BE132MA4	C412_3.6 P132 BX132MA4	172
414	164	2.2	7.1	3240	C412_7.1 S4 ME4LA2		171	C412_7.1 P132 BE132SB2		172
417	162	1.2	3.5	2500	C362_3.5 S4 ME4LA4	C362_3.5 S4 MX4LA4	167	C362_3.5 P132 BE132MA4	C362_3.5 P132 BX132MA4	168
440	154	2.7	3.3	5660	C512_3.3 S4 ME4LA4	C512_3.3 S4 MX4LA4	175	C512_3.3 P132 BE132MA4	C512_3.3 P132 BX132MA4	176
457	148	1.4	3.2	2500	C362_3.2 S4 ME4LA4	C362_3.2 S4 MX4LA4	167	C362_3.2 P132 BE132MA4	C362_3.2 P132 BX132MA4	168
460	148	2.3	6.4	3170	C412_6.4 S4 ME4LA2		171	C412_6.4 P132 BE132SB2		172
491	138	1.9	6.0	2880	C412_6.0 S4 ME4LA2		171	C412_6.0 P132 BE132SB2		172
505	134	1.0	2.9	2100	C322_2.9 S4 ME4LA4	C322_2.9 S4 MX4LA4	163	C322_2.9 P132 BN132MA4	C322_2.9 P132 BX132MA4	164
519	131	3.3	5.6	5420	C512_5.6 S4 ME4LA2		175	C512_5.6 P132 BE132SB2		176
542	125	1.6	2.7	2440	C362_2.7 S4 ME4LA4	C362_2.7 S4 MX4LA4	167	C362_2.7 P132 BE132MA4	C362_2.7 P132 BX132MA4	168
547	124	2.0	2.7	2840	C412_2.7 S4 ME4LA4	C412_2.7 S4 MX4LA4	171	C412_2.7 P132 BE132MA4	C412_2.7 P132 BX132MA4	172
553	122	3.3	2.6	5330	C512_2.6 S4 ME4LA4	C512_2.6 S4 MX4LA4	175	C512_2.6 P132 BE132MA4	C512_2.6 P132 BX132MA4	176
554	123	1.6	5.3	2370	C362_5.3 S4 ME4LA2		167	C362_5.3 P132 BE132SB2		168
627	108	2.4	4.7	2790	C412_4.7 S4 ME4LA2		171	C412_4.7 P132 BE132SB2		172
633	108	1.9	4.6	2330	C362_4.6 S4 ME4LA2		167	C362_4.6 P132 BE132SB2		168
696	98	2.0	4.2	2290	C362_4.2 S4 ME4LA2		167	C362_4.2 P132 BE132SB2		168
810	84	3.0	3.6	2670	C412_3.6 S4 ME4LA2		171	C412_3.6 P132 BE132SB2		172
839	81	2.5	3.5	2210	C362_3.5 S4 ME4LA2		167	C362_3.5 P132 BE132SB2		168
919	74	2.7	3.2	2170	C362_3.2 S4 ME4LA2		167	C362_3.2 P132 BE132SB2		168
1089	62	3.2	2.7	2100	C362_2.7 S4 ME4LA2		167	C362_2.7 P132 BE132SB2		168

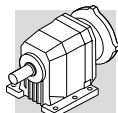
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IE3	
4.8	13252	0.9	300.5	85000		C1004_300.5 P132 BXN132M4	193
5.5	11598	1.0	263.0	85000		C1004_263.0 P132 BXN132M4	193
6.0	10770	1.1	244.2	85000		C1004_244.2 P132 BXN132M4	193
7.3	8804	1.4	199.6	85000		C1004_199.6 P132 BXN132M4	193
7.8	8175	1.5	185.4	85000		C1004_185.4 P132 BXN132M4	193
8.5	7843	0.9	172.1	60000		C903_172.1 P132 BXN132M4	190
9.0	7149	1.7	162.1	85000		C1004_162.1 P132 BXN132M4	193
9.2	7189	1.0	157.8	60000		C903_157.8 P132 BXN132M4	190

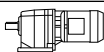


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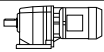
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IE3	
9.7	6855	1.8	150.4	85000		C1003_150.4 P132 BXN132M4	193
9.9	6668	1.1	146.3	59600		C903_146.3 P132 BXN132M4	190
10.4	6365	1.7	139.7	85000		C1003_139.7 P132 BXN132M4	193
10.8	6113	1.2	134.1	59400		C903_134.1 P132 BXN132M4	190
12.1	5492	2.2	120.5	85000		C1003_120.5 P132 BXN132M4	193
12.5	5319	1.4	116.7	58600		C903_116.7 P132 BXN132M4	190
13.0	5100	2.4	111.9	85000		C1003_111.9 P132 BXN132M4	193
13.6	4876	1.5	107.0	58200		C903_107.0 P132 BXN132M4	190
14.6	4548	2.6	99.8	85000		C1003_99.8 P132 BXN132M4	193
14.9	4438	0.9	97.4	34500		C803_97.4 P132 BXN132M4	187
15.1	4386	1.6	96.2	57500		C903_96.2 P132 BXN132M4	190
15.7	4223	2.8	92.7	85000		C1003_92.7 P132 BXN132M4	193
16.3	4068	1.0	89.3	35000		C803_89.3 P132 BXN132M4	187
16.5	4020	1.8	88.2	56600		C903_88.2 P132 BXN132M4	190
17.0	3899	3.1	85.6	85000		C1003_85.6 P132 BXN132M4	193
17.9	3701	1.9	81.2	56100		C903_81.2 P132 BXN132M4	190
18.9	3505	1.1	76.9	35000		C803_76.9 P132 BXN132M4	187
19.5	3392	2.1	74.4	55200		C903_74.4 P132 BXN132M4	190
20.6	3213	1.2	70.5	35000		C803_70.5 P132 BXN132M4	187
22.5	2943	2.4	64.6	54000		C903_64.6 P132 BXN132M4	190
23.3	2848	1.4	62.5	35000		C803_62.5 P132 BXN132M4	187
24.6	2698	2.6	59.2	53000		C903_59.2 P132 BXN132M4	190
25.4	2611	1.5	57.3	35000		C803_57.3 P132 BXN132M4	187
26.5	2501	2.9	54.9	52400		C903_54.9 P132 BXN132M4	190
27.9	2377	1.0	52.2	22900		C703_52.2 P132 BXN132M4	184
31	2162	1.8	47.4	35000		C803_47.4 P132 BXN132M4	187
33	2037	1.1	44.7	22500		C703_44.7 P132 BXN132M4	184
33	1982	1.9	43.5	35000		C803_43.5 P132 BXN132M4	187
35	1880	1.2	41.3	22300		C703_41.3 P132 BXN132M4	184
37	1821	1.8	39.1	33600		C802_39.1 P132 BXN132M4	187
40	1594	1.0	36.1	13300		C613_36.1 P132 BXN132M4	180
41	1634	3.3	35.1	47300		C902_35.1 P132 BXN132M4	190
42	1617	1.3	34.7	20500		C702_34.7 P132 BXN132M4	184
44	1454	1.0	33.0	13100		C613_33.0 P132 BXN132M4	180
46	1459	2.5	31.3	32200		C802_31.3 P132 BXN132M4	187
48	1417	1.0	30.4	13000		C612_30.4 P132 BXN132M4	180
50	1295	1.1	29.4	13100		C613_29.4 P132 BXN132M4	180
52	1290	1.6	27.7	20000		C702_27.7 P132 BXN132M4	184
53	1276	1.1	27.4	12800		C612_27.4 P132 BXN132M4	180
56	1208	3.1	25.9	31000		C802_25.9 P132 BXN132M4	187
59	1155	1.2	24.8	12700		C612_24.8 P132 BXN132M4	180
61	1115	3.2	24.0	30500		C802_24.0 P132 BXN132M4	187
64	1064	2.0	22.9	19400		C702_22.9 P132 BXN132M4	184
65	1040	1.3	22.4	12500		C612_22.4 P132 BXN132M4	180
65	1035	3.6	22.2	30000		C802_22.2 P132 BXN132M4	187
67	994	0.9	21.8	7200		C513_21.8 P132 BXN132M4	176
74	912	1.5	19.6	12300		C612_19.6 P132 BXN132M4	180
75	898	2.3	19.3	18900		C702_19.3 P132 BXN132M4	184
77	879	0.9	18.9	7100		C512_18.9 P132 BXN132M4	176
82	822	1.6	17.7	12000		C612_17.7 P132 BXN132M4	180
87	778	2.6	16.7	18200		C702_16.7 P132 BXN132M4	184
88	773	1.0	16.6	8070		C512_16.6 P132 BXN132M4	176
91	742	1.8	15.9	11800		C612_15.9 P132 BXN132M4	180
95	714	2.9	15.3	18000		C702_15.3 P132 BXN132M4	184
97	697	1.1	15.0	8000		C512_15.0 P132 BXN132M4	176
101	668	2.0	14.3	11500		C612_14.3 P132 BXN132M4	180
111	611	1.2	13.1	7840		C512_13.1 P132 BXN132M4	176

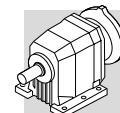


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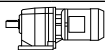
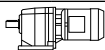
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IEC
120	563	2.4	12.1	11100		C612_12.1 P132 BXN132M4 180
123	551	1.4	11.8	7730		C512_11.8 P132 BXN132M4 176
134	507	2.7	10.9	10900		C612_10.9 P132 BXN132M4 180
148	457	3.0	9.8	10600		C612_9.8 P132 BXN132M4 180
149	454	1.5	9.8	7450		C512_9.8 P132 BXN132M4 176
152	447	0.9	9.6	3300		C412_9.6 P132 BXN132M4 172
165	412	3.3	8.8	10300		C612_8.8 P132 BXN132M4 180
165	410	0.9	8.8	2880		C362_8.8 P132 BXN132M4 168
166	409	1.7	8.8	7320		C512_8.8 P132 BXN132M4 176
168	402	1.0	8.6	3430		C412_8.6 P132 BXN132M4 172
181	374	1.0	8.0	2900		C362_8.0 P132 BXN132M4 168
188	361	1.8	7.8	7120		C512_7.8 P132 BXN132M4 176
206	329	1.1	7.1	3470		C412_7.1 P132 BXN132M4 172
208	325	1.9	7.0	6970		C512_7.0 P132 BXN132M4 176
215	316	1.1	6.8	2900		C362_6.8 P132 BXN132M4 168
229	296	1.2	6.4	3440		C412_6.4 P132 BXN132M4 172
242	279	2.4	6.0	9180		C612_6.0 P132 BXN132M4 180
244	277	0.9	6.0	2920		C412_6.0 P132 BXN132M4 172
258	262	1.7	5.6	6410		C512_5.6 P132 BXN132M4 176
312	217	1.2	4.7	2960		C412_4.7 P132 BXN132M4 172
315	215	0.9	4.6	2600		C362_4.6 P132 BXN132M4 168
319	212	3.1	4.6	8550		C612_4.6 P132 BXN132M4 180
327	207	2.1	4.5	6090		C512_4.5 P132 BXN132M4 176
346	196	1.0	4.2	2550		C362_4.2 P132 BXN132M4 168
403	168	1.5	3.6	2930		C412_3.6 P132 BXN132M4 172
417	162	1.2	3.5	2500		C362_3.5 P132 BXN132M4 168
440	154	2.7	3.3	5660		C512_3.3 P132 BXN132M4 176
457	148	1.4	3.2	2500		C362_3.2 P132 BXN132M4 168
505	134	1.0	2.9	2100		C322_2.9 P132 BXN132M4 164
542	125	1.6	2.7	2440		C362_2.7 P132 BXN132M4 168
547	124	2.0	2.7	2840		C412_2.7 P132 BXN132M4 172
553	122	3.3	2.6	5330		C512_2.6 P132 BXN132M4 176

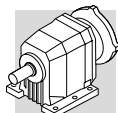
9.2 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE2	 IE3	 IEC
5.9	13408	0.9	244.2	85000	C1004_244.2 S4 ME4LB4		C1004_244.2 P132 BE132MB4 193
7.3	10960	1.1	199.6	85000	C1004_199.6 S4 ME4LB4		C1004_199.6 P160 BX160MA4 193
7.8	10177	1.2	185.4	85000	C1004_185.4 S4 ME4LB4		C1004_185.4 P160 BX160MA4 193
8.9	8900	1.3	162.1	85000	C1004_162.1 S4 ME4LB4		C1004_162.1 P160 BX160MA4 193
9.6	8534	1.4	150.4	85000	C1003_150.4 S4 ME4LB4	C1003_150.4 S5 MX5SA4	C1003_150.4 P160 BX160MA4 193
10.4	7924	1.4	139.7	85000	C1003_139.7 S4 ME4LB4	C1003_139.7 S5 MX5SA4	C1003_139.7 P160 BX160MA4 193
10.8	7610	0.9	134.1	54900	C903_134.1 S4 ME4LB4	C903_134.1 S5 MX5SA4	C903_134.1 P160 BX160MA4 190
12.0	6837	1.8	120.5	85000	C1003_120.5 S4 ME4LB4	C1003_120.5 S5 MX5SA4	C1003_120.5 P160 BX160MA4 193
12.4	6622	1.1	116.7	54800	C903_116.7 S4 ME4LB4	C903_116.7 S5 MX5SA4	C903_116.7 P160 BX160MA4 190
13.0	6348	1.9	111.9	85000	C1003_111.9 S4 ME4LB4	C1003_111.9 S5 MX5SA4	C1003_111.9 P160 BX160MA4 193
13.6	6070	1.2	107.0	54600	C903_107.0 S4 ME4LB4	C903_107.0 S5 MX5SA4	C903_107.0 P160 BX160MA4 190
14.5	5662	2.1	99.8	85000	C1003_99.8 S4 ME4LB4	C1003_99.8 S5 MX5SA4	C1003_99.8 P160 BX160MA4 193

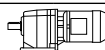


9.2 kW

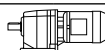
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE2 IE3 			 IE2 IE3 		
15.1	5460	1.3	96.2	54200	C903_96.2 S4 ME4LB4	C903_96.2 S5 MX5SA4	189	C903_96.2 P132 BE132MB4	C903_96.2 P160 BX160MA4	190
15.6	5257	2.3	92.7	85000	C1003_92.7 S4 ME4LB4	C1003_92.7 S5 MX5SA4	192	C1003_92.7 P132 BE132MB4	C1003_92.7 P160 BX160MA4	193
16.4	5005	1.4	88.2	53700	C903_88.2 S4 ME4LB4	C903_88.2 S5 MX5SA4	189	C903_88.2 P132 BE132MB4	C903_88.2 P160 BX160MA4	190
16.9	4854	2.5	85.6	85000	C1003_85.6 S4 ME4LB4	C1003_85.6 S5 MX5SA4	192	C1003_85.6 P132 BE132MB4	C1003_85.6 P160 BX160MA4	193
17.9	4607	1.6	81.2	53300	C903_81.2 S4 ME4LB4	C903_81.2 S5 MX5SA4	189	C903_81.2 P132 BE132MB4	C903_81.2 P160 BX160MA4	190
18.3	4507	2.7	79.4	85000	C1003_79.4 S4 ME4LB4	C1003_79.4 S5 MX5SA4	192	C1003_79.4 P132 BE132MB4	C1003_79.4 P160 BX160MA4	193
18.9	4363	0.9	76.9	33700	C803_76.9 S4 ME4LB4	C803_76.9 S5 MX5SA4	186	C803_76.9 P132 BE132MB4	C803_76.9 P160 BX160MA4	187
19.5	4223	1.7	74.4	52700	C903_74.4 S4 ME4LB4	C903_74.4 S5 MX5SA4	189	C903_74.4 P132 BE132MB4	C903_74.4 P160 BX160MA4	190
20.6	4000	1.0	70.5	35000	C803_70.5 S4 ME4LB4	C803_70.5 S5 MX5SA4	186	C803_70.5 P132 BE132MB4	C803_70.5 P160 BX160MA4	187
22.5	3664	2.0	64.6	51800	C903_64.6 S4 ME4LB4	C903_64.6 S5 MX5SA4	189	C903_64.6 P132 BE132MB4	C903_64.6 P160 BX160MA4	190
23.2	3546	1.1	62.5	35000	C803_62.5 S4 ME4LB4	C803_62.5 S5 MX5SA4	186	C803_62.5 P132 BE132MB4	C803_62.5 P160 BX160MA4	187
24.5	3358	2.1	59.2	51100	C903_59.2 S4 ME4LB4	C903_59.2 S5 MX5SA4	189	C903_59.2 P132 BE132MB4	C903_59.2 P160 BX160MA4	190
25.3	3250	1.2	57.3	35000	C803_57.3 S4 ME4LB4	C803_57.3 S5 MX5SA4	186	C803_57.3 P132 BE132MB4	C803_57.3 P160 BX160MA4	187
26.4	3113	2.3	54.9	50500	C903_54.9 S4 ME4LB4	C903_54.9 S5 MX5SA4	189	C903_54.9 P132 BE132MB4	C903_54.9 P160 BX160MA4	190
28.8	2854	2.5	50.3	49700	C903_50.3 S4 ME4LB4	C903_50.3 S5 MX5SA4	189	C903_50.3 P132 BE132MB4	C903_50.3 P160 BX160MA4	190
31	2692	1.4	47.4	34900	C803_47.4 S4 ME4LB4	C803_47.4 S5 MX5SA4	186	C803_47.4 P132 BE132MB4	C803_47.4 P160 BX160MA4	187
32	2536	0.9	44.7	21100	C703_44.7 S4 ME4LB4	C703_44.7 S5 MX5SA4	183	C703_44.7 P132 BE132MB4	C703_44.7 P160 BX160MA4	184
33	2467	1.5	43.5	34400	C803_43.5 S4 ME4LB4	C803_43.5 S5 MX5SA4	186	C803_43.5 P132 BE132MB4	C803_43.5 P160 BX160MA4	187
34	2439	3.0	43.0	48300	C903_43.0 S4 ME4LB4	C903_43.0 S5 MX5SA4	189	C903_43.0 P132 BE132MB4	C903_43.0 P160 BX160MA4	190
35	2341	1.0	41.3	21000	C703_41.3 S4 ME4LB4	C703_41.3 S5 MX5SA4	183	C703_41.3 P132 BE132MB4	C703_41.3 P160 BX160MA4	184
37	2266	1.4	39.1	32300	C802_39.1 S4 ME4LB4	C802_39.1 S5 MX5SA4	186	C802_39.1 P132 BE132MB4	C802_39.1 P160 BX160MA4	187
41	2034	2.7	35.1	46200	C902_35.1 S4 ME4LB4	C902_35.1 S5 MX5SA4	189	C902_35.1 P132 BE132MB4	C902_35.1 P160 BX160MA4	190
42	2014	1.0	34.7	19200	C702_34.7 S4 ME4LB4	C702_34.7 S5 MX5SA4	183	C702_34.7 P132 BE132MB4	C702_34.7 P160 BX160MA4	184
46	1816	2.0	31.3	31100	C802_31.3 S4 ME4LB4	C802_31.3 S5 MX5SA4	186	C802_31.3 P132 BE132MB4	C802_31.3 P160 BX160MA4	187
49	1706	3.5	29.4	44600	C902_29.4 S4 ME4LB4	C902_29.4 S5 MX5SA4	189	C902_29.4 P132 BE132MB4	C902_29.4 P160 BX160MA4	190
49	1612	0.9	29.4	10500	C613_29.4 S4 ME4LB4	C613_29.4 S5 MX5SA4	179	C613_29.4 P132 BE132MB4	C613_29.4 P160 BX160MA4	180
52	1606	1.3	27.7	18900	C702_27.7 S4 ME4LB4	C702_27.7 S5 MX5SA4	183	C702_27.7 P132 BE132MB4	C702_27.7 P160 BX160MA4	184
54	1470	1.0	26.8	11400	C613_26.8 S4 ME4LB4	C613_26.8 S5 MX5SA4	179	C613_26.8 P132 BE132MB4	C613_26.8 P160 BX160MA4	180
56	1504	2.5	25.9	30300	C802_25.9 S4 ME4LB4	C802_25.9 S5 MX5SA4	186	C802_25.9 P132 BE132MB4	C802_25.9 P160 BX160MA4	187
58	1438	0.9	24.8	11800	C612_24.8 S4 ME4LB4	C612_24.8 S5 MX5SA4	179	C612_24.8 P132 BE132MB4	C612_24.8 P160 BX160MA4	180
61	1388	2.6	24.0	30000	C802_24.0 S4 ME4LB4	C802_24.0 S5 MX5SA4	186	C802_24.0 P132 BE132MB4	C802_24.0 P160 BX160MA4	187
63	1324	1.6	22.9	18500	C702_22.9 S4 ME4LB4	C702_22.9 S5 MX5SA4	183	C702_22.9 P132 BE132MB4	C702_22.9 P160 BX160MA4	184
65	1295	1.0	22.4	11700	C612_22.4 S4 ME4LB4	C612_22.4 S5 MX5SA4	179	C612_22.4 P132 BE132MB4	C612_22.4 P160 BX160MA4	180
65	1289	2.9	22.2	29200	C802_22.2 S4 ME4LB4	C802_22.2 S5 MX5SA4	186	C802_22.2 P132 BE132MB4	C802_22.2 P160 BX160MA4	187
71	1190	3.0	20.5	28900	C802_20.5 S4 ME4LB4	C802_20.5 S5 MX5SA4	186	C802_20.5 P132 BE132MB4	C802_20.5 P160 BX160MA4	187
74	1136	1.2	19.6	11600	C612_19.6 S4 ME4LB4	C612_19.6 S5 MX5SA4	179	C612_19.6 P132 BE132MB4	C612_19.6 P160 BX160MA4	180
75	1118	1.9	19.3	18100	C702_19.3 S4 ME4LB4	C702_19.3 S5 MX5SA4	183	C702_19.3 P132 BE132MB4	C702_19.3 P160 BX160MA4	184
82	1023	1.3	17.7	11400	C612_17.7 S4 ME4LB4	C612_17.7 S5 MX5SA4	179	C612_17.7 P132 BE132MB4	C612_17.7 P160 BX160MA4	180
87	968	2.1	16.7	17500	C702_16.7 S4 ME4LB4	C702_16.7 S5 MX5SA4	183	C702_16.7 P132 BE132MB4	C702_16.7 P160 BX160MA4	184
91	923	1.5	15.9	11200	C612_15.9 S4 ME4LB4	C612_15.9 S5 MX5SA4	179	C612_15.9 P132 BE132MB4	C612_15.9 P160 BX160MA4	180
95	889	2.4	15.3	17500	C702_15.3 S4 ME4LB4	C702_15.3 S5 MX5SA4	183	C702_15.3 P132 BE132MB4	C702_15.3 P160 BX160MA4	184
97	867	0.9	15.0	7430	C512_15.0 S4 ME4LB4	C512_15.0 S5 MX5SA4	175	C512_15.0 P132 BE132MB4	C512_15.0 P160 BX160MA4	176
101	831	1.6	14.3	11000	C612_14.3 S4 ME4LB4	C612_14.3 S5 MX5SA4	179	C612_14.3 P132 BE132MB4	C612_14.3 P160 BX160MA4	180
103	817	2.6	14.1	17000	C702_14.1 S4 ME4LB4	C702_14.1 S5 MX5SA4	183	C702_14.1 P132 BE132MB4	C702_14.1 P160 BX160MA4	184
110	761	1.0	13.1	7340	C512_13.1 S4 ME4LB4	C512_13.1 S5 MX5SA4	175	C512_13.1 P132 BE132MB4	C512_13.1 P160 BX160MA4	176
111	755	2.8	13.0	17000	C702_13.0 S4 ME4LB4	C702_13.0 S5 MX5SA4	183	C702_13.0 P132 BE132MB4	C702_13.0 P160 BX160MA4	184
120	701	1.9	12.1	10700	C612_12.1 S4 ME4LB4	C612_12.1 S5 MX5SA4	179	C612_12.1 P132 BE132MB4	C612_12.1 P160 BX160MA4	180
123	686	1.1	11.8	7280	C512_11.8 S4 ME4LB4	C512_11.8 S5 MX5SA4	175	C512_11.8 P132 BE132MB4	C512_11.8 P160 BX160MA4	176
128	653	3.2	22.9	16500	C702_22.9 S4 ME4LB2	C702_22.9 S5 ME4LB2	183	C702_22.9 P132 BE132MB2	C702_22.9 P160 BE132MB2	184
133	631	2.1	10.9	10500	C612_10.9 S4 ME4LB4	C612_10.9 S5 MX5SA4	179	C612_10.9 P132 BE132MB4	C612_10.9 P160 BX160MA4	180
148	569	2.4	9.8	10300	C612_9.8 S4 ME4LB4	C612_9.8 S5 MX5SA4	179	C612_9.8 P132 BE132MB4	C612_9.8 P160 BX160MA4	180
149	565	1.2	9.8	7080	C512_9.8 S4 ME4LB4	C512_9.8 S5 MX5SA4	175	C512_9.8 P132 BE132MB4	C512_9.8 P160 BX160MA4	176
164	512	2.6	8.8	10000	C612_8.8 S4 ME4LB4	C612_8.8 S5 MX5SA4	179	C612_8.8 P132 BE132MB4	C612_8.8 P160 BX160MA4	180

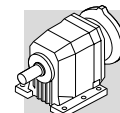


9.2 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N						
					IE2	IE3		IE2	IE3	
165	509	1.3	8.8	6990	C512_8.8 S4 ME4LB4	C512_8.8 S5 MX5SA4	175	C512_8.8 P132 BE132MB4	C512_8.8 P160 BX160MA4	176
187	449	1.4	7.8	6820	C512_7.8 S4 ME4LB4	C512_7.8 S5 MX5SA4	175	C512_7.8 P132 BE132MB4	C512_7.8 P160 BX160MA4	176
194	434	3.1	7.5	9670	C612_7.5 S4 ME4LB4	C612_7.5 S5 MX5SA4	179	C612_7.5 P132 BE132MB4	C612_7.5 P160 BX160MA4	180
208	405	1.6	7.0	6710	C512_7.0 S4 ME4LB4	C512_7.0 S5 MX5SA4	175	C512_7.0 P132 BE132MB4	C512_7.0 P160 BX160MA4	176
215	391	3.5	6.7	9410	C612_6.7 S4 ME4LB4	C612_6.7 S5 MX5SA4	179	C612_6.7 P132 BE132MB4	C612_6.7 P160 BX160MA4	180
228	369	0.9	6.4	3100	C412_6.4 S4 ME4LB4	C612_6.0 S5 MX5SA4	171	C412_6.4 P132 BE132MB4	C612_6.0 P160 BX160MA4	172
242	348	1.9	6.0	8930	C612_6.0 S4 ME4LB4		179	C612_6.0 P132 BE132MB4		180
258	326	1.3	5.6	6150	C512_5.6 S4 ME4LB4		175	C512_5.6 P132 BE132MB4		176
262	319	1.3	11.2	3110	C412_11.2 S4 ME4LB2		171	C412_11.2 P132 BE132MB2		172
311	270	1.0	4.7	2620	C412_4.7 S4 ME4LB4		171	C412_4.7 P132 BE132MB4		172
318	264	2.5	4.6	8360	C612_4.6 S4 ME4LB4	C612_4.6 S5 MX5SA4	179	C612_4.6 P132 BE132MB4	C612_4.6 P160 BX160MA4	180
326	258	1.7	4.5	5880	C512_4.5 S4 ME4LB4	C512_4.5 S5 MX5SA4	175	C512_4.5 P132 BE132MB4	C512_5.6 P160 BX160MA4	176
338	247	1.6	8.6	3090	C412_8.6 S4 ME4LB2		171	C412_8.6 P132 BE132MB2		172
377	222	2.9	7.8	5870	C512_7.8 S4 ME4LB2		175	C512_7.8 P132 BE132MB2		176
402	209	1.2	3.6	2670	C412_3.6 S4 ME4LB4		171	C412_3.6 P132 BE132MB4		172
413	202	1.8	7.1	3050	C412_7.1 S4 ME4LB2	C512_3.3 S5 MX5SA4	171	C412_7.1 P132 BE132MB2	C512_3.3 P160 BX160MA4	172
416	202	1.0	3.5	2300	C362_3.5 S4 ME4LB4		167	C362_3.5 P132 BE132MB4		168
418	200	3.2	7.0	5730	C512_7.0 S4 ME4LB2		175	C512_7.0 P132 BE132MB2		176
438	192	2.2	3.3	5510	C512_3.3 S4 ME4LB4		175	C512_3.3 P132 BE132MB4		176
456	184	1.1	3.2	2300	C362_3.2 S4 ME4LB4		167	C362_3.2 P132 BE132MB4		168
459	182	1.9	6.4	3000	C412_6.4 S4 ME4LB2	C512_2.6 S5 MX5SA4	171	C412_6.4 P132 BE132MB2	C512_2.6 P160 BX160MA4	172
491	170	1.5	6.0	2660	C412_6.0 S4 ME4LB2		171	C412_6.0 P132 BE132MB2		172
519	161	2.7	5.6	5290	C512_5.6 S4 ME4LB2		175	C512_5.6 P132 BE132MB2		176
540	156	1.3	2.7	2280	C362_2.7 S4 ME4LB4		167	C362_2.7 P132 BE132MB4		168
545	154	1.6	2.7	2650	C412_2.7 S4 ME4LB4		171	C412_2.7 P132 BE132MB4		172
552	152	2.6	2.6	5210	C512_2.6 S4 ME4LB4	C512_2.6 S5 MX5SA4	175	C512_2.6 P132 BE132MB4	C512_2.6 P160 BX160MA4	176
626	133	2.0	4.7	2620	C412_4.7 S4 ME4LB2		171	C412_4.7 P132 BE132MB2		172
656	127	3.4	4.5	4980	C512_4.5 S4 ME4LB2		175	C512_4.5 P132 BE132MB2		176
695	120	1.7	4.2	2180	C362_4.2 S4 ME4LB2		167	C362_4.2 P132 BE132MB2		168
809	103	2.5	3.6	2540	C412_3.6 S4 ME4LB2		171	C412_3.6 P132 BE132MB2		172
838	100	2.0	3.5	2120	C362_3.5 S4 ME4LB2		167	C362_3.5 P132 BE132MB2		168
918	91	2.2	3.2	2090	C362_3.2 S4 ME4LB2		167	C362_3.2 P132 BE132MB2		168
1087	77	2.6	2.7	2020	C362_2.7 S4 ME4LB2		167	C362_2.7 P132 BE132MB2		168
1098	76	3.2	2.7	2410	C412_2.7 S4 ME4LB2		171	C412_2.7 P132 BE132MB2		172

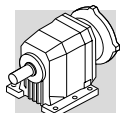
11 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE2IE3			 IECIE2IE3		
7.4	12936	0.9	199.6	85000	C1004_199.6 S5 ME5SA4	C1004_199.6 S5 MX5SB4	192	C1004_199.6 P160 BE160M4	C1004_199.6 P160 BX160MB4	193
7.9	12012	1.0	185.4	85000	C1004_185.4 S5 ME5SA4	C1004_185.4 S5 MX5SB4	192	C1004_185.4 P160 BE160M4	C1004_185.4 P160 BX160MB4	193
9.1	10504	1.1	162.1	85000	C1004_162.1 S5 ME5SA4	C1004_162.1 S5 MX5SB4	192	C1004_162.1 P160 BE160M4	C1004_162.1 P160 BX160MB4	193
9.8	10073	1.2	150.4	85000	C1003_150.4 S5 ME5SA4	C1003_150.4 S5 MX5SB4	192	C1003_150.4 P160 BE160M4	C1003_150.4 P160 BX160MB4	193
10.5	9353	1.2	139.7	85000	C1003_139.7 S5 ME5SA4	C1003_139.7 S5 MX5SB4	192	C1003_139.7 P160 BE160M4	C1003_139.7 P160 BX160MB4	193
12.2	8070	1.5	120.5	85000	C1003_120.5 S5 ME5SA4	C1003_120.5 S5 MX5SB4	192	C1003_120.5 P160 BE160M4	C1003_120.5 P160 BX160MB4	193
12.6	7816	0.9	116.7	50800	C903_116.7 S5 ME5SA4	C903_116.7 S5 MX5SB4	189	C903_116.7 P160 BE160M4	C903_116.7 P160 BX160MB4	190
13.1	7493	1.6	111.9	85000	C1003_111.9 S5 ME5SA4	C1003_111.9 S5 MX5SB4	192	C1003_111.9 P160 BE160M4	C1003_111.9 P160 BX160MB4	193
13.7	7165	1.0	107.0	51000	C903_107.0 S5 ME5SA4	C903_107.0 S5 MX5SB4	189	C903_107.0 P160 BE160M4	C903_107.0 P160 BX160MB4	190
14.7	6683	1.8	99.8	85000	C1003_99.8 S5 ME5SA4	C1003_99.8 S5 MX5SB4	192	C1003_99.8 P160 BE160M4	C1003_99.8 P160 BX160MB4	193

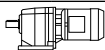


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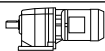
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3		IE2	IE3	
15.3	6444	1.1	96.2	50800	C903_96.2 S5 ME5SA4	C903_96.2 S5 MX5SB4	189	C903_96.2 P160 BE160M4	C903_96.2 P160 BX160MB4	190
15.9	6205	1.9	92.7	85000	C1003_92.7 S5 ME5SA4	C1003_92.7 S5 MX5SB4	192	C1003_92.7 P160 BE160M4	C1003_92.7 P160 BX160MB4	193
16.7	5907	1.2	88.2	50700	C903_88.2 S5 ME5SA4	C903_88.2 S5 MX5SB4	189	C903_88.2 P160 BE160M4	C903_88.2 P160 BX160MB4	190
17.2	5729	2.1	85.6	85000	C1003_85.6 S5 ME5SA4	C1003_85.6 S5 MX5SB4	192	C1003_85.6 P160 BE160M4	C1003_85.6 P160 BX160MB4	193
18.1	5438	1.3	81.2	50700	C903_81.2 S5 ME5SA4	C903_81.2 S5 MX5SB4	189	C903_81.2 P160 BE160M4	C903_81.2 P160 BX160MB4	190
18.5	5320	2.3	79.4	85000	C1003_79.4 S5 ME5SA4	C1003_79.4 S5 MX5SB4	192	C1003_79.4 P160 BE160M4	C1003_79.4 P160 BX160MB4	193
19.7	4985	1.4	74.4	50200	C903_74.4 S5 ME5SA4	C903_74.4 S5 MX5SB4	189	C903_74.4 P160 BE160M4	C903_74.4 P160 BX160MB4	190
21.2	4649	2.6	69.4	84800	C1003_69.4 S5 ME5SA4	C1003_69.4 S5 MX5SB4	192	C1003_69.4 P160 BE160M4	C1003_69.4 P160 BX160MB4	193
22.8	4324	1.7	64.6	50000	C903_64.6 S5 ME5SA4	C903_64.6 S5 MX5SB4	189	C903_64.6 P160 BE160M4	C903_64.6 P160 BX160MB4	190
22.8	4317	2.8	64.5	83100	C1003_64.5 S5 ME5SA4	C1003_64.5 S5 MX5SB4	192	C1003_64.5 P160 BE160M4	C1003_64.5 P160 BX160MB4	193
23.5	4185	1.0	62.5	33000	C803_62.5 S5 ME5SA4	C803_62.5 S5 MX5SB4	186	C803_62.5 P160 BE160M4	C803_62.5 P160 BX160MB4	187
24.8	3964	1.8	59.2	49000	C903_59.2 S5 ME5SA4	C903_59.2 S5 MX5SB4	189	C903_59.2 P160 BE160M4	C903_59.2 P160 BX160MB4	190
25.7	3837	1.0	57.3	34200	C803_57.3 S5 ME5SA4	C803_57.3 S5 MX5SB4	186	C803_57.3 P160 BE160M4	C803_57.3 P160 BX160MB4	187
26.8	3674	2.0	54.9	48800	C903_54.9 S5 ME5SA4	C903_54.9 S5 MX5SB4	189	C903_54.9 P160 BE160M4	C903_54.9 P160 BX160MB4	190
29.2	3368	2.1	50.3	48000	C903_50.3 S5 ME5SA4	C903_50.3 S5 MX5SB4	189	C903_50.3 P160 BE160M4	C903_50.3 P160 BX160MB4	190
31	3177	1.2	47.4	33500	C803_47.4 S5 ME5SA4	C803_47.4 S5 MX5SB4	186	C803_47.4 P160 BE160M4	C803_47.4 P160 BX160MB4	187
34	2912	1.3	43.5	33100	C803_43.5 S5 ME5SA4	C803_43.5 S5 MX5SB4	186	C803_43.5 P160 BE160M4	C803_43.5 P160 BX160MB4	187
34	2878	2.5	43.0	47000	C903_43.0 S5 ME5SA4	C903_43.0 S5 MX5SB4	189	C903_43.0 P160 BE160M4	C903_43.0 P160 BX160MB4	190
37	2638	2.7	39.4	46100	C903_39.4 S5 ME5SA4	C903_39.4 S5 MX5SB4	189	C903_39.4 P160 BE160M4	C903_39.4 P160 BX160MB4	190
38	2675	1.2	39.1	30900	C802_39.1 S5 ME5SA4	C802_39.1 S5 MX5SB4	186	C802_39.1 P160 BE160M4	C802_39.1 P160 BX160MB4	187
42	2401	2.2	35.1	45000	C902_35.1 S5 ME5SA4	C902_35.1 S5 MX5SB4	189	C902_35.1 P160 BE160M4	C902_35.1 P160 BX160MB4	190
47	2143	1.7	31.3	30000	C802_31.3 S5 ME5SA4	C802_31.3 S5 MX5SB4	186	C802_31.3 P160 BE160M4	C802_31.3 P160 BX160MB4	187
50	2013	2.9	29.4	43400	C902_29.4 S5 ME5SA4	C902_29.4 S5 MX5SB4	189	C902_29.4 P160 BE160M4	C902_29.4 P160 BX160MB4	190
53	1896	1.1	27.7	17800	C702_27.7 S5 ME5SA4	C702_27.7 S5 MX5SB4	183	C702_27.7 P160 BE160M4	C702_27.7 P160 BX160MB4	184
54	1859	3.0	27.2	42700	C902_27.2 S5 ME5SA4	C902_27.2 S5 MX5SB4	189	C902_27.2 P160 BE160M4	C902_27.2 P160 BX160MB4	190
57	1775	2.1	25.9	29200	C802_25.9 S5 ME5SA4	C802_25.9 S5 MX5SB4	186	C802_25.9 P160 BE160M4	C802_25.9 P160 BX160MB4	187
61	1638	2.2	24.0	28700	C802_24.0 S5 ME5SA4	C802_24.0 S5 MX5SB4	186	C802_24.0 P160 BE160M4	C802_24.0 P160 BX160MB4	187
64	1563	1.3	22.9	17600	C702_22.9 S5 ME5SA4	C702_22.9 S5 MX5SB4	183	C702_22.9 P160 BE160M4	C702_22.9 P160 BX160MB4	184
66	1522	2.4	22.2	28400	C802_22.2 S5 ME5SA4	C802_22.2 S5 MX5SB4	186	C802_22.2 P160 BE160M4	C802_22.2 P160 BX160MB4	187
72	1404	2.5	20.5	28000	C802_20.5 S5 ME5SA4	C802_20.5 S5 MX5SB4	186	C802_20.5 P160 BE160M4	C802_20.5 P160 BX160MB4	187
75	1341	1.0	19.6	10800	C612_19.6 S5 ME5SA4	C612_19.6 S5 MX5SB4	179	C612_19.6 P160 BE160M4	C612_19.6 P160 BX160MB4	180
76	1319	1.6	19.3	17300	C702_19.3 S5 ME5SA4	C702_19.3 S5 MX5SB4	183	C702_19.3 P160 BE160M4	C702_19.3 P160 BX160MB4	184
81	1235	3.0	18.1	27300	C802_18.1 S5 ME5SA4	C802_18.1 S5 MX5SB4	186	C802_18.1 P160 BE160M4	C802_18.1 P160 BX160MB4	187
83	1207	1.1	17.7	10700	C612_17.7 S5 ME5SA4	C612_17.7 S5 MX5SB4	179	C612_17.7 P160 BE160M4	C612_17.7 P160 BX160MB4	180
88	1143	1.8	16.7	16800	C702_16.7 S5 ME5SA4	C702_16.7 S5 MX5SB4	183	C702_16.7 P160 BE160M4	C702_16.7 P160 BX160MB4	184
88	1140	3.1	16.7	26900	C802_16.7 S5 ME5SA4	C802_16.7 S5 MX5SB4	186	C802_16.7 P160 BE160M4	C802_16.7 P160 BX160MB4	187
92	1090	1.2	15.9	10700	C612_15.9 S5 ME5SA4	C612_15.9 S5 MX5SB4	179	C612_15.9 P160 BE160M4	C612_15.9 P160 BX160MB4	180
96	1049	2.0	15.3	16800	C702_15.3 S5 ME5SA4	C702_15.3 S5 MX5SB4	183	C702_15.3 P160 BE160M4	C702_15.3 P160 BX160MB4	184
102	981	1.4	14.3	10500	C612_14.3 S5 ME5SA4	C612_14.3 S5 MX5SB4	179	C612_14.3 P160 BE160M4	C612_14.3 P160 BX160MB4	180
104	964	2.2	14.1	16400	C702_14.1 S5 ME5SA4	C702_14.1 S5 MX5SB4	183	C702_14.1 P160 BE160M4	C702_14.1 P160 BX160MB4	184
113	891	2.4	13.0	16400	C702_13.0 S5 ME5SA4	C702_13.0 S5 MX5SB4	183	C702_13.0 P160 BE160M4	C702_13.0 P160 BX160MB4	184
122	827	1.6	12.1	10300	C612_12.1 S5 ME5SA4	C612_12.1 S5 MX5SB4	179	C612_12.1 P160 BE160M4	C612_12.1 P160 BX160MB4	180
124	810	1.0	11.8	6810	C512_11.8 S5 ME5SA4	C512_11.8 S5 MX5SB4	175	C512_11.8 P160 BE160M4	C512_11.8 P160 BX160MB4	176
131	767	2.8	11.2	15800	C702_11.2 S5 ME5SA4	C702_11.2 S5 MX5SB4	183	C702_11.2 P160 BE160M4	C702_11.2 P160 BX160MB4	184
135	745	1.8	10.9	10100	C612_10.9 S5 ME5SA4	C612_10.9 S5 MX5SB4	179	C612_10.9 P160 BE160M4	C612_10.9 P160 BX160MB4	180
144	698	3.0	10.2	15700	C702_10.2 S5 ME5SA4	C702_10.2 S5 MX5SB4	183	C702_10.2 P160 BE160M4	C702_10.2 P160 BX160MB4	184
150	672	2.0	9.8	9910	C612_9.8 S5 ME5SA4	C612_9.8 S5 MX5SB4	179	C612_9.8 P160 BE160M4	C612_9.8 P160 BX160MB4	180
151	667	1.0	9.8	6690	C512_9.8 S5 ME5SA4	C512_9.8 S5 MX5SB4	175	C512_9.8 P160 BE160M4	C512_9.8 P160 BX160MB4	176
154	651	3.3	9.5	15400	C702_9.5 S5 ME5SA4	C702_9.5 S5 MX5SB4	183	C702_9.5 P160 BE160M4	C702_9.5 P160 BX160MB4	184
166	605	2.2	8.8	9690	C612_8.8 S5 ME5SA4	C612_8.8 S5 MX5SB4	179	C612_8.8 P160 BE160M4	C612_8.8 P160 BX160MB4	180
167	601	1.1	8.8	6640	C512_8.8 S5 ME5SA4	C512_8.8 S5 MX5SB4	175	C512_8.8 P160 BE160M4	C512_8.8 P160 BX160MB4	176
190	530	1.2	7.8	6510	C512_7.8 S5 ME5SA4	C512_7.8 S5 MX5SB4	175	C512_7.8 P160 BE160M4	C512_7.8 P160 BX160MB4	176
196	512	2.6	7.5	9390	C612_7.5 S5 ME5SA4	C612_7.5 S5 MX5SB4	179	C612_7.5 P160 BE160M4	C612_7.5 P160 BX160MB4	180
210	478	1.3	7.0	6430	C512_7.0 S5 ME5SA4	C512_7.0 S5 MX5SB4	175	C512_7.0 P160 BE160M4	C512_7.0 P160 BX160MB4	176
218	461	2.9	6.7	9150	C612_6.7 S5 ME5SA4	C612_6.7 S5 MX5SB4	179	C612_6.7 P160 BE160M4	C612_6.7 P160 BX160MB4	180
245	411	1.6	6.0	8670	C612_6.0 S5 ME5SA4	C612_6.0 S5 MX5SB4	179	C612_6.0 P160 BE160M4	C612_6.0 P160 BX160MB4	180
261	385	1.1	5.6	5880	C512_5.6 S5 ME5SA4	C512_5.6 S5 MX5SB4	175	C512_5.6 P160 BE160M4	C512_5.6 P160 BX160MB4	176

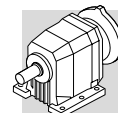


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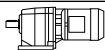
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N						
					IE2	IE3		IE2	IE3	
323	312	2.1	4.6	8160	C612_4.6 S5 ME5SA4	C612_4.6 S5 MX5SB4	179	C612_4.6 P160 BE160M4	C612_4.6 P160 BX160MB4	180
330	305	1.4	4.5	5660	C512_4.5 S5 ME5SA4	C512_4.5 S5 MX5SB4	175	C512_4.5 P160 BE160M4	C512_4.5 P160 BX160MB4	176
397	253	2.6	3.7	7760	C612_3.7 S5 ME5SA4	C612_3.7 S5 MX5SB4	179	C612_3.7 P160 BE160M4	C612_3.7 P160 BX160MB4	180
444	226	1.9	3.3	5340	C512_3.3 S5 ME5SA4	C512_3.3 S5 MX5SB4	175	C512_3.3 P160 BE160M4	C512_3.3 P160 BX160MB4	176
521	193	3.4	2.8	7240	C612_2.8 S5 ME5SA4	C612_2.8 S5 MX5SB4	179	C612_2.8 P160 BE160M4	C612_2.8 P160 BX160MB4	180
522	191	2.3	5.6	5140	C512_5.6 S5 ME5SA2		175	C512_5.6 P160 BE160MA2		176
559	180	2.2	2.6	5080	C512_2.6 S5 ME5SA4	C512_2.6 S5 MX5SB4	175	C512_2.6 P160 BE160M4	C512_2.6 P160 BX160MB4	176
660	151	2.9	4.5	4870	C512_4.5 S5 ME5SA2		175	C512_4.5 P160 BE160MA2		176

15 kW

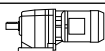
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N						
					IE2	IE3		IE2	IE3	
12.2	10984	1.1	120.5	83800	C1003_120.5 S5 ME5LA4	C1003_120.5 S5 MX5LA4	192	C1003_120.5 P160 BE160L4	C1003_120.5 P160 BX160L4	193
13.1	10199	1.2	111.9	83300	C1003_111.9 S5 ME5LA4	C1003_111.9 S5 MX5LA4	192	C1003_111.9 P160 BE160L4	C1003_111.9 P160 BX160L4	193
14.7	9096	1.3	99.8	82700	C1003_99.8 S5 ME5LA4	C1003_99.8 S5 MX5LA4	192	C1003_99.8 P160 BE160L4	C1003_99.8 P160 BX160L4	193
15.9	8446	1.4	92.7	82400	C1003_92.7 S5 ME5LA4	C1003_92.7 S5 MX5LA4	192	C1003_92.7 P160 BE160L4	C1003_92.7 P160 BX160L4	193
17.2	7798	1.5	85.6	81500	C1003_85.6 S5 ME5LA4	C1003_85.6 S5 MX5LA4	192	C1003_85.6 P160 BE160L4	C1003_85.6 P160 BX160L4	193
18.1	7402	1.0	81.2	44300	C903_81.2 S5 ME5LA4	C903_81.2 S5 MX5LA4	189	C903_81.2 P160 BE160L4	C903_81.2 P160 BX160L4	190
18.5	7241	1.7	79.4	81000	C1003_79.4 S5 ME5LA4	C1003_79.4 S5 MX5LA4	192	C1003_79.4 P160 BE160L4	C1003_79.4 P160 BX160L4	193
19.7	6785	1.0	74.4	44800	C903_74.4 S5 ME5LA4	C903_74.4 S5 MX5LA4	189	C903_74.4 P160 BE160L4	C903_74.4 P160 BX160L4	190
21.2	6328	1.9	69.4	79500	C1003_69.4 S5 ME5LA4	C1003_69.4 S5 MX5LA4	192	C1003_69.4 P160 BE160L4	C1003_69.4 P160 BX160L4	193
22.8	5886	1.2	64.6	44500	C903_64.6 S5 ME5LA4	C903_64.6 S5 MX5LA4	189	C903_64.6 P160 BE160L4	C903_64.6 P160 BX160L4	190
22.8	5876	2.0	64.5	78600	C1003_64.5 S5 ME5LA4	C1003_64.5 S5 MX5LA4	192	C1003_64.5 P160 BE160L4	C1003_64.5 P160 BX160L4	193
24.8	5396	1.3	59.2	44400	C903_59.2 S5 ME5LA4	C903_59.2 S5 MX5LA4	189	C903_59.2 P160 BE160L4	C903_59.2 P160 BX160L4	190
25.6	5227	2.3	57.4	77400	C1003_57.4 S5 ME5LA4	C1003_57.4 S5 MX5LA4	192	C1003_57.4 P160 BE160L4	C1003_57.4 P160 BX160L4	193
26.8	5001	1.4	54.9	44300	C903_54.9 S5 ME5LA4	C903_54.9 S5 MX5LA4	189	C903_54.9 P160 BE160L4	C903_54.9 P160 BX160L4	190
27.6	4854	2.5	53.3	76200	C1003_53.3 S5 ME5LA4	C1003_53.3 S5 MX5LA4	192	C1003_53.3 P160 BE160L4	C1003_53.3 P160 BX160L4	193
29.2	4584	1.5	50.3	44100	C903_50.3 S5 ME5LA4	C903_50.3 S5 MX5LA4	189	C903_50.3 P160 BE160L4	C903_50.3 P160 BX160L4	190
32	4213	2.8	46.2	74500	C1003_46.2 S5 ME5LA4	C1003_46.2 S5 MX5LA4	192	C1003_46.2 P160 BE160L4	C1003_46.2 P160 BX160L4	193
34	3964	1.0	43.5	30300	C803_43.5 S5 ME5LA4	C803_43.5 S5 MX5LA4	186	C803_43.5 P160 BE160L4	C803_43.5 P160 BX160L4	187
34	3918	1.8	43.0	44100	C903_43.0 S5 ME5LA4	C903_43.0 S5 MX5LA4	189	C903_43.0 P160 BE160L4	C903_43.0 P160 BX160L4	190
37	3591	2.0	39.4	43000	C903_39.4 S5 ME5LA4	C903_39.4 S5 MX5LA4	189	C903_39.4 P160 BE160L4	C903_39.4 P160 BX160L4	190
38	3641	0.9	39.1	27300	C802_39.1 S5 ME5LA4	C802_39.1 S5 MX5LA4	186	C802_39.1 P160 BE160L4	C802_39.1 P160 BX160L4	187
42	3268	1.7	35.1	42200	C902_35.1 S5 ME5LA4	C902_35.1 S5 MX5LA4	189	C902_35.1 P160 BE160L4	C902_35.1 P160 BX160L4	190
47	2917	1.3	31.3	27500	C802_31.3 S5 ME5LA4	C802_31.3 S5 MX5LA4	186	C802_31.3 P160 BE160L4	C802_31.3 P160 BX160L4	187
50	2740	2.2	29.4	41100	C902_29.4 S5 ME5LA4	C902_29.4 S5 MX5LA4	189	C902_29.4 P160 BE160L4	C902_29.4 P160 BX160L4	190
54	2530	2.2	27.2	40700	C902_27.2 S5 ME5LA4	C902_27.2 S5 MX5LA4	189	C902_27.2 P160 BE160L4	C902_27.2 P160 BX160L4	190
57	2416	1.5	25.9	27100	C802_25.9 S5 ME5LA4	C802_25.9 S5 MX5LA4	186	C802_25.9 P160 BE160L4	C802_25.9 P160 BX160L4	187
59	2311	2.9	24.8	40000	C902_24.8 S5 ME5LA4	C902_24.8 S5 MX5LA4	189	C902_24.8 P160 BE160L4	C902_24.8 P160 BX160L4	190
61	2230	1.6	24.0	26900	C802_24.0 S5 ME5LA4	C802_24.0 S5 MX5LA4	186	C802_24.0 P160 BE160L4	C802_24.0 P160 BX160L4	187
64	2134	2.9	22.9	39500	C902_22.9 S5 ME5LA4	C902_22.9 S5 MX5LA4	189	C902_22.9 P160 BE160L4	C902_22.9 P160 BX160L4	190
64	2128	1.0	22.9	15400	C702_22.9 S5 ME5LA4	C702_22.9 S5 MX5LA4	183	C702_22.9 P160 BE160L4	C702_22.9 P160 BX160L4	184
66	2071	1.8	22.2	26600	C802_22.2 S5 ME5LA4	C802_22.2 S5 MX5LA4	186	C802_22.2 P160 BE160L4	C802_22.2 P160 BX160L4	187
72	1912	1.9	20.5	26200	C802_20.5 S5 ME5LA4	C802_20.5 S5 MX5LA4	186	C802_20.5 P160 BE160L4	C802_20.5 P160 BX160L4	187
73	1884	3.5	20.2	38500	C902_20.2 S5 ME5LA4	C902_20.2 S5 MX5LA4	189	C902_20.2 P160 BE160L4	C902_20.2 P160 BX160L4	190
76	1795	1.2	19.3	15600	C702_19.3 S5 ME5LA4	C702_19.3 S5 MX5LA4	183	C702_19.3 P160 BE160L4	C702_19.3 P160 BX160L4	184
81	1681	2.2	18.1	25800	C802_18.1 S5 ME5LA4	C802_18.1 S5 MX5LA4	186	C802_18.1 P160 BE160L4	C802_18.1 P160 BX160L4	187
88	1555	1.3	16.7	15400	C702_16.7 S5 ME5LA4	C702_16.7 S5 MX5LA4	183	C702_16.7 P160 BE160L4	C702_16.7 P160 BX160L4	184
88	1551	2.3	16.7	25500	C802_16.7 S5 ME5LA4	C802_16.7 S5 MX5LA4	186	C802_16.7 P160 BE160L4	C802_16.7 P160 BX160L4	187
92	1483	0.9	15.9	9350	C612_15.9 S5 ME5LA4	C612_15.9 S5 MX5LA4	179	C612_15.9 P160 BE160L4	C612_15.9 P160 BX160L4	180
96	1428	1.5	15.3	15400	C702_15.3 S5 ME5LA4	C702_15.3 S5 MX5LA4	183	C702_15.3 P160 BE160L4	C702_15.3 P160 BX160L4	184
99	1388	2.7	14.9	25000	C802_14.9 S5 ME5LA4	C802_14.9 S5 MX5LA4	186	C802_14.9 P160 BE160L4	C802_14.9 P160 BX160L4	187
102	1336	1.0	14.3	9280	C612_14.3 S5 ME5LA4	C612_14.3 S5 MX5LA4	179	C612_14.3 P160 BE160L4	C612_14.3 P160 BX160L4	180
104	1312	1.6	14.1	15300	C702_14.1 S5 ME5LA4	C702_14.1 S5 MX5LA4	183	C702_14.1 P160 BE160L4	C702_14.1 P160 BX160L4	184
107	1281	2.7	13.8	25000	C802_13.8 S5 ME5LA4	C802_13.8 S5 MX5LA4	186	C802_13.8 P160 BE160L4	C802_13.8 P160 BX160L4	187
113	1213	1.7	13.0	15200	C702_13.0 S5 ME5LA4	C702_13.0 S5 MX5LA4	183	C702_13.0 P160 BE160L4	C702_13.0 P160 BX160L4	184
122	1126	1.2	12.1	9270	C612_12.1 S5 ME5LA4	C612_12.1 S5 MX5LA4	179	C612_12.1 P160 BE160L4	C612_12.1 P160 BX160L4	180
131	1044	2.1	11.2	14700	C702_11.2 S5 ME5LA4	C702_11.2 S5 MX5LA4	183	C702_11.2 P160 BE160L4	C702_11.2 P160 BX160L4	184

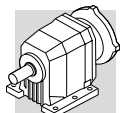


15 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N						
					IE2	IE3		IE2	IE3	
135	1014	1.3	10.9	9140	C612_10.9 S5 ME5LA4	C612_10.9 S5 MX5LA4	179	C612_10.9 P160 BE160L4	C612_10.9 P160 BX160L4	180
144	950	2.2	10.2	14600	C702_10.2 S5 ME5LA4	C702_10.2 S5 MX5LA4	183	C702_10.2 P160 BE160L4	C702_10.2 P160 BX160L4	184
150	914	1.5	9.8	9090	C612_9.8 S5 ME5LA4	C612_9.8 S5 MX5LA4	179	C612_9.8 P160 BE160L4	C612_9.8 P160 BX160L4	180
154	887	2.4	9.5	14400	C702_9.5 S5 ME5LA4	C702_9.5 S5 MX5LA4	183	C702_9.5 P160 BE160L4	C702_9.5 P160 BX160L4	184
166	823	1.6	8.8	8930	C612_8.8 S5 ME5LA4	C612_8.8 S5 MX5LA4	179	C612_8.8 P160 BE160L4	C612_8.8 P160 BX160L4	180
184	745	2.8	8.0	14200				C702_8.0 P160 BE160L4	C702_8.0 P160 BX160L4	184
196	697	1.9	7.5	8760	C612_7.5 S5 ME5LA4	C612_7.5 S5 MX5LA4	179	C612_7.5 P160 BE160L4	C612_7.5 P160 BX160L4	180
197	695	3.0	7.5	14000	C702_7.5 S5 ME5LA4	C702_7.5 S5 MX5LA4	183	C702_7.5 P160 BE160L4	C702_7.5 P160 BX160L4	184
210	650	1.0	7.0	5800	C512_7.0 S5 ME5LA4	C512_7.0 S5 MX5LA4	175	C512_7.0 P160 BE160L4	C512_7.0 P160 BX160L4	176
218	628	2.2	6.7	8570	C612_6.7 S5 ME5LA4	C612_6.7 S5 MX5LA4	179	C612_6.7 P160 BE160L4	C612_6.7 P160 BX160L4	180
224	608	1.2	13.1	5760	C512_13.1 S5 ME5SB2		175	C512_13.1 P160 BE160MB2		176
243	560	2.4	12.1	8430	C612_12.1 S5 ME5SB2		179	C612_12.1 P160 BE160MB2		180
245	559	1.2	6.0	8130	C612_6.0 S5 ME5LA4	C612_6.0 S5 MX5LA4	179	C612_6.0 P160 BE160L4	C612_6.0 P160 BX160L4	180
248	548	1.4	11.8	5720	C512_11.8 S5 ME5SB2		175	C512_11.8 P160 BE160MB2		176
270	504	2.7	10.9	8230	C612_10.9 S5 ME5SB2		179	C612_10.9 P160 BE160MB2		180
299	454	3.0	9.8	8090	C612_9.8 S5 ME5SB2		179	C612_9.8 P160 BE160MB2		180
301	451	1.5	9.8	5570	C512_9.8 S5 ME5SB2		175	C512_9.8 P160 BE160MB2		176
323	424	1.6	4.6	7690	C612_4.6 S5 ME5LA4	C612_4.6 S5 MX5LA4	179	C612_4.6 P160 BE160L4	C612_4.6 P160 BX160L4	180
330	415	1.0	4.5	5250	C512_4.5 S5 ME5LA4	C512_4.5 S5 MX5LA4	175	C512_4.5 P160 BE160L4	C512_4.5 P160 BX160L4	176
333	409	3.3	8.8	7880	C612_8.8 S5 ME5SB2		179	C612_8.8 P160 BE160MB2		180
334	407	1.7	8.8	5490	C512_8.8 S5 ME5SB2		175	C512_8.8 P160 BE160MB2		176
379	359	1.8	7.8	5370	C512_7.8 S5 ME5SB2		175	C512_7.8 P160 BE160MB2		176
397	344	1.9	3.7	7370	C612_3.7 S5 ME5LA4	C612_3.7 S5 MX5LA4	179	C612_3.7 P160 BE160L4	C612_3.7 P160 BX160L4	180
421	323	1.9	7.0	5280	C512_7.0 S5 ME5SB2		175	C512_7.0 P160 BE160MB2		176
444	308	1.4	3.3	5080	C512_3.3 S5 ME5LA4	C512_3.3 S5 MX5LA4	175	C512_3.3 P160 BE160L4	C512_3.3 P160 BX160L4	176
490	278	2.4	6.0	7030	C612_6.0 S5 ME5SB2		179	C612_6.0 P160 BE160MB2		180
521	263	2.5	2.8	6940	C612_2.8 S5 ME5LA4	C612_2.8 S5 MX5LA4	179	C612_2.8 P160 BE160L4	C612_2.8 P160 BX160L4	180
522	261	1.7	5.6	4840	C512_5.6 S5 ME5SB2		175	C512_5.6 P160 BE160MB2		176
559	245	1.6	2.6	4940	C512_2.6 S5 ME5LA4	C512_2.6 S5 MX5LA4	175	C512_2.6 P160 BE160L4	C512_2.6 P160 BX160L4	176
645	211	3.2	4.6	6580	C612_4.6 S5 ME5SB2		179	C612_4.6 P160 BE160MB2		180
660	206	2.1	4.5	4630	C512_4.5 S5 ME5SB2		175	C512_4.5 P160 BE160MB2		176
889	153	2.7	3.3	4330	C512_3.3 S5 ME5SB2		175	C512_3.3 P160 BE160MB2		176
1118	122	3.3	2.6	4100	C512_2.6 S5 ME5SB2		175	C512_2.6 P160 BE160MB2		176

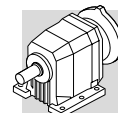
18.5 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N						
					IE2	IE3		IE2	IE3	
13.1	12489	1.0	111.9	76600				C1003_111.9 P180 BE180M4	C1003_111.9 P180 BX180M4	193
14.7	11138	1.1	99.8	76700				C1003_99.8 P180 BE180M4	C1003_99.8 P180 BX180M4	193
15.9	10342	1.2	92.7	76700				C1003_92.7 P180 BE180M4	C1003_92.7 P180 BX180M4	193
17.2	9548	1.3	85.6	76400				C1003_85.6 P180 BE180M4	C1003_85.6 P180 BX180M4	193
18.5	8866	1.4	79.4	76100				C1003_79.4 P180 BE180M4	C1003_79.4 P180 BX180M4	193
21.2	7748	1.5	69.4	75400				C1003_69.4 P180 BE180M4	C1003_69.4 P180 BX180M4	193
22.8	7207	1.0	64.6	40300				C903_64.6 P180 BE180M4	C903_64.6 P180 BX180M4	190
22.8	7195	1.7	64.5	74800				C1003_64.5 P180 BE180M4	C1003_64.5 P180 BX180M4	193
24.8	6607	1.1	59.2	40500				C903_59.2 P180 BE180M4	C903_59.2 P180 BX180M4	190
25.6	6400	1.9	57.4	73700				C1003_57.4 P180 BE180M4	C1003_57.4 P180 BX180M4	193
26.8	6124	1.2	54.9	40700				C903_54.9 P180 BE180M4	C903_54.9 P180 BX180M4	190
27.6	5943	2.0	53.3	73100				C1003_53.3 P180 BE180M4	C1003_53.3 P180 BX180M4	193
29.2	5614	1.3	50.3	40700				C903_50.3 P180 BE180M4	C903_50.3 P180 BX180M4	190
32	5159	2.3	46.2	71600				C1003_46.2 P180 BE180M4	C1003_46.2 P180 BX180M4	193
34	4797	1.5	43.0	40600				C903_43.0 P180 BE180M4	C903_43.0 P180 BX180M4	190
34	4790	2.5	42.9	70800				C1003_42.9 P180 BE180M4	C1003_42.9 P180 BX180M4	193
37	4397	1.6	39.4	40500				C903_39.4 P180 BE180M4	C903_39.4 P180 BX180M4	190
40	4122	2.9	36.9	69000				C1003_36.9 P180 BE180M4	C1003_36.9 P180 BX180M4	193
42	4001	1.3	35.1	39800				C902_35.1 P180 BE180M4	C902_35.1 P180 BX180M4	190
43	3828	3.1	34.3	68100				C1003_34.3 P180 BE180M4	C1003_34.3 P180 BX180M4	193

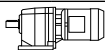


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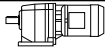
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N						
					IE2	IE3	IE2	IE3		
47	3572	1.0	31.3	25000			C802_31.3 P180 BE180M4	C802_31.3 P180 BX180M4	187	
50	3298	2.8	29.6	65800			C1002_29.6 P180 BE180M4	C1002_29.6 P180 BX180M4	193	
50	3356	1.8	29.4	39100			C902_29.4 P180 BE180M4	C902_29.4 P180 BX180M4	190	
54	3098	1.8	27.2	38800			C902_27.2 P180 BE180M4	C902_27.2 P180 BX180M4	190	
57	2958	1.3	25.9	25300			C802_25.9 P180 BE180M4	C802_25.9 P180 BX180M4	187	
59	2830	2.3	24.8	38400			C902_24.8 P180 BE180M4	C902_24.8 P180 BX180M4	190	
61	2731	1.3	24.0	25000			C802_24.0 P180 BE180M4	C802_24.0 P180 BX180M4	187	
64	2613	2.4	22.9	37900			C902_22.9 P180 BE180M4	C902_22.9 P180 BX180M4	190	
66	2536	1.5	22.2	25100			C802_22.2 P180 BE180M4	C802_22.2 P180 BX180M4	187	
72	2341	1.5	20.5	24900			C802_20.5 P180 BE180M4	C802_20.5 P180 BX180M4	187	
73	2307	2.9	20.2	37200			C902_20.2 P180 BE180M4	C902_20.2 P180 BX180M4	190	
76	2198	1.0	19.3	14100			C702_19.3 P180 BE180M4	C702_19.3 P180 BX180M4	184	
79	2130	2.9	18.7	36700			C902_18.7 P180 BE180M4	C902_18.7 P180 BX180M4	190	
81	2058	1.8	18.1	24700			C802_18.1 P180 BE180M4	C802_18.1 P180 BX180M4	187	
85	1973	3.3	17.3	36200			C902_17.3 P180 BE180M4	C902_17.3 P180 BX180M4	190	
88	1904	1.1	16.7	13800			C702_16.7 P180 BE180M4	C702_16.7 P180 BX180M4	184	
88	1900	1.8	16.7	24400			C802_16.7 P180 BE180M4	C802_16.7 P180 BX180M4	187	
96	1748	1.2	15.3	13800			C702_15.3 P180 BE180M4	C702_15.3 P180 BX180M4	184	
99	1700	2.2	14.9	24000			C802_14.9 P180 BE180M4	C802_14.9 P180 BX180M4	187	
104	1607	1.3	14.1	13900			C702_14.1 P180 BE180M4	C702_14.1 P180 BX180M4	184	
107	1569	2.2	13.8	23700			C802_13.8 P180 BE180M4	C802_13.8 P180 BX180M4	187	
113	1485	1.4	13.0	13800			C702_13.0 P180 BE180M4	C702_13.0 P180 BX180M4	184	
122	1378	1.0	12.1	8420			C612_12.1 P180 BE180M4	C612_12.1 P180 BX180M4	180	
122	1370	2.7	12.0	23500			C802_12.0 P180 BE180M4	C802_12.0 P180 BX180M4	187	
131	1278	1.7	11.2	13800			C702_11.2 P180 BE180M4	C702_11.2 P180 BX180M4	184	
133	1265	2.8	11.1	22900			C802_11.1 P180 BE180M4	C802_11.1 P180 BX180M4	187	
135	1241	1.1	10.9	8360			C612_10.9 P180 BE180M4	C612_10.9 P180 BX180M4	180	
144	1164	1.8	10.2	13700			C702_10.2 P180 BE180M4	C702_10.2 P180 BX180M4	184	
150	1119	1.2	9.8	8400			C612_9.8 P180 BE180M4	C612_9.8 P180 BX180M4	180	
154	1086	2.0	9.5	13600			C702_9.5 P180 BE180M4	C702_9.5 P180 BX180M4	184	
166	1008	1.3	8.8	8300			C612_8.8 P180 BE180M4	C612_8.8 P180 BX180M4	180	
184	912	2.3	8.0	13500			C702_8.0 P180 BE180M4	C702_8.0 P180 BX180M4	184	
196	853	1.6	7.5	8230			C612_7.5 P180 BE180M4	C612_7.5 P180 BX180M4	180	
197	850	2.4	7.5	13400			C702_7.5 P180 BE180M4	C702_7.5 P180 BX180M4	184	
218	768	1.8	6.7	8090			C612_6.7 P180 BE180M4	C612_6.7 P180 BX180M4	180	
235	713	2.7	6.3	13300		179	C702_6.3 P180 BE180M4	C702_6.3 P180 BX180M4	184	
245	684	1.0	6.0	7550			C612_6.0 P180 BE180M4	C612_6.0 P180 BX180M4	180	
251	667	2.8	5.9	13200			C702_5.9 P180 BE180M4	C702_5.9 P180 BX180M4	184	
270	621	2.2	10.9	7840			C612_10.9 P160 BE160L2		180	
300	560	2.4	9.8	7740			C612_9.8 P160 BE160L2		180	
302	556	1.2	9.8	5190	C512_9.8 S5 ME5LA2	175	C512_9.8 P160 BE160L2		176	
322	521	3.3	4.6	13000			C702_4.6 P180 BE180M4	C702_4.6 P180 BX180M4	184	
323	519	1.3	4.6	7300			C612_4.6 P180 BE180M4	C612_4.6 P180 BX180M4	180	
333	504	2.7	8.8	7570	C612_8.8 S5 ME5LA2		179	C612_8.8 P160 BE160L2		180
335	501	1.4	8.8	5160	C512_8.8 S5 ME5LA2		175	C512_8.8 P160 BE160L2		176
380	442	1.4	7.8	5070	C512_7.8 S5 ME5LA2	175	C512_7.8 P160 BE160L2		176	
393	427	3.2	7.5	7350	C612_7.5 S5 ME5LA2	179	C612_7.5 P160 BE160L2		180	
397	422	1.6	3.7	7060		C612_3.7 P180 BE180M4	C612_3.7 P180 BX180M4		180	
422	398	1.6	7.0	5010	C512_7.0 S5 ME5LA2	175	C512_7.0 P160 BE160L2		176	
437	384	3.5	6.7	7170	C612_6.7 S5 ME5LA2	179	C612_6.7 P160 BE160L2		180	
444	377	1.1	3.3	4750	C612_6 S5 ME5LA2	179	C512_3.3 P180 BE180M4	C512_3.3 P180 BX180M4	176	
491	342	1.9	6.0	6780			C612_6.0 P160 BE160L2		180	
521	321	2.1	2.8	6700			C612_2.8 P180 BE180M4		180	
523	321	1.4	5.6	4580			C512_5.6 P160 BE160L2	175		176
559	300	1.3	2.6	4600			C512_2.6 P180 BE180M4		C512_2.6 P180 BX180M4	176
646	260	2.6	4.6	6390	C612_4.6 S5 ME5LA2	179	C612_4.6 P160 BE160L2		180	
661	254	1.7	4.5	4420	C512_4.5 S5 ME5LA2	175	C512_4.5 P160 BE160L2		176	

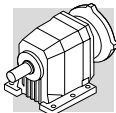


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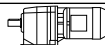
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE2	 IE3	 IEC	 IE3
796	211	3.2	3.7	6080	C612_3.7 S5 ME5LA2		179 C612_3.7 P160 BE160L2	180
890	188	2.2	3.3	4180	C512_3.3 S5 ME5LA2		175 C512_3.3 P160 BE160L2	176
1120	150	2.7	2.6	3980	C512_2.6 S5 ME5LA2		175 C512_2.6 P160 BE160L2	176

22 kW

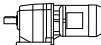
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE2	 IE3	 IEC	 IE3
14.7	13273	0.9	99.8	70600			C1003_99.8 P180 BE180L4	193
15.9	12325	1.0	92.7	70900			C1003_92.7 P180 BE180L4	193
17.2	11378	1.1	85.6	71100			C1003_85.6 P180 BE180L4	193
18.5	10565	1.1	79.4	71200			C1003_79.4 P180 BE180L4	193
21.2	9233	1.3	69.4	71000			C1003_69.4 P180 BE180L4	193
22.8	8574	1.4	64.5	70800			C1003_64.5 P180 BE180L4	193
24.8	7873	0.9	59.2	36700			C903_59.2 P180 BE180L4	190
25.6	7627	1.6	57.4	70300			C1003_57.4 P180 BE180L4	193
26.8	7298	1.0	54.9	36000			C903_54.9 P180 BE180L4	190
27.6	7082	1.7	53.3	69800			C1003_53.3 P180 BE180L4	193
29.2	6690	1.1	50.3	37400			C903_50.3 P180 BE180L4	190
32	6147	2.0	46.2	68800			C1003_46.2 P180 BE180L4	193
34	5716	1.3	43.0	37500			C903_43.0 P180 BE180L4	190
34	5708	2.1	42.9	68100			C1003_42.9 P180 BE180L4	193
37	5240	1.4	39.4	37500			C903_39.4 P180 BE180L4	190
40	4912	2.4	36.9	66700			C1003_36.9 P180 BE180L4	193
42	4768	1.1	35.1	37400			C902_35.1 P180 BE180L4	190
43	4561	2.6	34.3	65900			C1003_34.3 P180 BE180L4	193
50	3931	2.3	29.6	64100			C1002_29.6 P180 BE180L4	193
50	3999	1.5	29.4	37100			C902_29.4 P180 BE180L4	190
54	3691	1.5	27.2	36900			C902_27.2 P180 BE180L4	190
57	3525	1.0	25.9	23000			C802_25.9 P180 BE180L4	187
59	3373	2.0	24.8	36600			C902_24.8 P180 BE180L4	190
61	3254	1.1	24.0	23700			C802_24.0 P180 BE180L4	187
64	3113	2.0	22.9	36400			C902_22.9 P180 BE180L4	190
66	3022	1.2	22.2	23500			C802_22.2 P180 BE180L4	187
72	2789	1.3	20.5	23400			C802_20.5 P180 BE180L4	187
73	2749	2.4	20.2	35800			C902_20.2 P180 BE180L4	190
79	2538	2.4	18.7	35400			C902_18.7 P180 BE180L4	190
81	2452	1.5	18.1	23300			C802_18.1 P180 BE180L4	187
85	2352	2.8	17.3	34900			C902_17.3 P180 BE180L4	190
88	2269	0.9	16.7	12400			C702_16.7 P180 BE180L4	184
88	2264	1.5	16.7	23100			C802_16.7 P180 BE180L4	187
92	2171	2.9	16.0	34600			C902_16.0 P180 BE180L4	190
96	2083	1.0	15.3	12400			C702_15.3 P180 BE180L4	184
99	2026	1.8	14.9	22900			C802_14.9 P180 BE180L4	187
104	1915	1.1	14.1	12700			C702_14.1 P180 BE180L4	184
106	1882	3.2	13.9	33700			C902_13.9 P180 BE180L4	190
107	1870	1.9	13.8	22700			C802_13.8 P180 BE180L4	187
113	1770	1.2	13.0	12700			C702_13.0 P180 BE180L4	184
122	1633	2.3	12.0	22500			C802_12.0 P180 BE180L4	187
131	1523	1.4	11.2	12900			C702_11.2 P180 BE180L4	184
133	1507	2.3	11.1	22100			C802_11.1 P180 BE180L4	187
135	1479	0.9	10.9	7580			C612_10.9 P180 BE180L4	180
144	1387	1.5	10.2	12800			C702_10.2 P180 BE180L4	184
150	1334	1.0	9.8	7710			C612_9.8 P180 BE180L4	180
153	1305	2.8	9.6	21900			C802_9.6 P180 BE180L4	187
154	1294	1.7	9.5	12800			C702_9.5 P180 BE180L4	184
166	1204	2.9	8.9	21300			C802_8.9 P180 BE180L4	187
166	1201	1.1	8.8	7660			C612_8.8 P180 BE180L4	180
184	1087	1.9	8.0	12700			C702_8.0 P180 BE180L4	184
196	1017	1.3	7.5	7690			C612_7.5 P180 BE180L4	180
197	1013	2.0	7.5	12700			C702_7.5 P180 BE180L4	184
218	916	1.5	6.7	7600			C612_6.7 P180 BE180L4	180
235	850	2.3	6.3	12500			C702_6.3 P180 BE180L4	184



22 kW

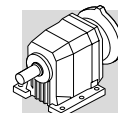
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			 IEC 	
						IE2	IE3	
251	795	2.4	5.9	12300		C702_5.9 P180 BE180L4	C702_5.9 P180 BX180L4	184
322	621	2.7	4.6	11900		C702_4.6 P180 BE180L4	C702_4.6 P180 BX180L4	184
323	619	1.1	4.6	6910		C612_4.6 P180 BE180L4	C612_4.6 P180 BX180L4	180
397	503	1.3	3.7	6740		C612_3.7 P180 BE180L4	C612_3.7 P180 BX180L4	180
444	449	0.9	3.3	4350		C512_3.3 P180 BE180L4	C512_3.3 P180 BX180L4	176
521	383	1.7	2.8	6450		C612_2.8 P180 BE180L4	C612_2.8 P180 BX180L4	180
559	357	1.1	2.6	4290		C512_2.6 P180 BE180L4	C512_2.6 P180 BX180L4	176

30 kW

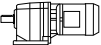
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N		 IE3	
21.2	12584	1.0	69.4	61300		C1003_69.4 P200 BX200LAK4	193
25.6	10395	1.2	57.4	62200		C1003_57.4 P200 BX200LAK4	193
32	8379	1.4	46.2	62300		C1003_46.2 P200 BX200LAK4	193
37	7142	1.0	39.4	31900		C903_39.4 P200 BX200LAK4	190
50	5472	1.7	29.6	59800		C1002_29.6 P200 BX200LAK4	193
50	5450	1.1	29.4	32600		C902_29.4 P200 BX200LAK4	190
64	4243	1.5	22.9	32900		C902_22.9 P200 BX200LAK4	190
66	4119	2.4	22.2	57700		C1002_22.2 P200 BX200LAK4	193
79	3459	1.8	18.7	32600		C902_18.7 P200 BX200LAK4	190
79	3456	3.1	18.7	56000		C1002_18.7 P200 BX200LAK4	193
99	2761	1.3	14.9	20600		C802_14.9 P200 BX200LAK4	187
106	2566	2.4	13.9	31500		C902_13.9 P200 BX200LAK4	190
122	2225	1.7	12.0	20500		C802_12.0 P200 BX200LAK4	187
131	2079	2.7	11.2	30600		C902_11.2 P200 BX200LAK4	190
153	1778	2.1	9.6	20100		C802_9.6 P200 BX200LAK4	187
154	1763	1.2	9.5	11000		C702_9.5 P200 BX200LAK4	184
184	1482	1.4	8.0	11600		C702_8.0 P200 BX200LAK4	184
193	1412	2.4	7.6	19500		C802_7.6 P200 BX200LAK4	187
209	1303	2.6	7.0	19300		C802_7.0 P200 BX200LAK4	187
235	1158	1.7	6.3	11500		C702_6.3 P200 BX200LAK4	184
241	1131	2.8	6.1	18900		C802_6.1 P200 BX200LAK4	187
261	1044	3.0	5.6	18600		C802_5.6 P200 BX200LAK4	187
322	846	2.0	4.6	11000		C702_4.6 P200 BX200LAK4	184

37 kW

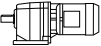
n2 min-1	M2 Nm	S	i	Rn2 N		 IE3	
25.8	12734	0.9	57.4	55300		C1003_57.4 P225 BX225SAK4	193
32	10264	1.2	46.2	56600		C1003_46.2 P225 BX225SAK4	193
40	8201	1.4	36.9	57000		C1003_36.9 P225 BX225SAK4	193
60	5631	1.2	24.8	29500		C902_24.8 P225 BX225SAK4	190
61	5467	2.0	24.1	55200		C1002_24.1 P225 BX225SAK4	193
79	4237	1.5	18.7	30100		C902_18.7 P225 BX225SAK4	190
79	4234	2.5	18.7	53600		C1002_18.7 P225 BX225SAK4	193
89	3779	0.9	16.7	18500		C802_16.7 P225 BX225SAK4	187
107	3143	1.9	13.9	29700		C902_13.9 P225 BX225SAK4	190
108	3122	1.1	13.8	18800		C802_13.8 P225 BX225SAK4	187
123	2726	1.4	12.0	18800		C802_12.0 P225 BX225SAK4	187
132	2546	2.2	11.2	29100		C902_11.2 P225 BX225SAK4	190
154	2178	1.7	9.6	18800		C802_9.6 P225 BX225SAK4	187
164	2046	2.5	9.0	28300		C902_9.0 P225 BX225SAK4	190
194	1730	2.0	7.6	18500		C802_7.6 P225 BX225SAK4	187
202	1661	2.9	7.3	27400		C902_7.3 P225 BX225SAK4	190
242	1386	2.3	6.1	18000		C802_6.1 P225 BX225SAK4	187
264	1271	3.5	5.6	26100		C902_5.6 P225 BX225SAK4	190
286	1173	3.7	5.2	25700		C902_5.2 P225 BX225SAK4	190



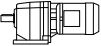
45 kW

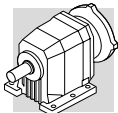
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N		
						IE3
32	12483	1.0	46.2	50200		C1003_46.2 P225 BX225SBK4 193
40	9974	1.2	36.9	51900		C1003_36.9 P225 BX225SBK4 193
50	8153	1.1	29.6	51900		C1002_29.6 P225 BX225SBK4 193
65	6322	1.0	22.9	26400		C902_22.9 P225 BX225SBK4 190
67	6137	1.6	22.2	51700		C1002_22.2 P225 BX225SBK4 193
79	5153	1.2	18.7	27200		C902_18.7 P225 BX225SBK4 190
79	5149	2.1	18.7	51000		C1002_18.7 P225 BX225SBK4 193
107	3822	1.6	13.9	27600		C902_13.9 P225 BX225SBK4 190
108	3797	0.9	13.8	16700		C802_13.8 P225 BX225SBK4 187
123	3315	1.1	12.0	17000		C802_12.0 P225 BX225SBK4 187
132	3097	1.8	11.2	27400		C902_11.2 P225 BX225SBK4 190
154	2649	1.4	9.6	17300		C802_9.6 P225 BX225SBK4 187
164	2488	2.1	9.0	26900		C902_9.0 P225 BX225SBK4 190
194	2104	1.6	7.6	17300		C802_7.6 P225 BX225SBK4 187
202	2020	2.4	7.3	26300		C902_7.3 P225 BX225SBK4 190
262	1556	2.0	5.6	17000		C802_5.6 P225 BX225SBK4 187
264	1546	2.8	5.6	25200		C902_5.6 P225 BX225SBK4 190
279	1464	2.9	5.2	25200		C902_5.2 P225 BX225SBK4 190

55 kW

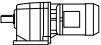
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N		
						IE3
40	12191	1.0	36.9	45400		C1003_36.9 P250 BX250MAK4 193
50	9965	0.9	29.6	46700		C1002_29.6 P250 BX250MAK4 193
61	8126	1.3	24.1	47500		C1002_24.1 P250 BX250MAK4 193
79	6298	1.0	18.7	22200		C902_18.7 P250 BX250MAK4 190
79	6294	1.7	18.7	47700		C1002_18.7 P250 BX250MAK4 193
107	4672	1.3	13.9	24900		C902_13.9 P250 BX250MAK4 190
110	4549	2.1	13.5	46500		C1002_13.5 P250 BX250MAK4 193
135	3686	2.4	10.9	45400		C1002_10.9 P250 BX250MAK4 193
164	3050	2.7	9.0	44100		C1002_9.0 P250 BX250MAK4 193
164	3041	1.7	9.0	25200		C902_9.0 P250 BX250MAK4 190
202	2468	2.0	7.3	24900		C902_7.3 P250 BX250MAK4 190
209	2383	3.2	7.1	42300		C1002_7.1 P250 BX250MAK4 193
264	1889	2.3	5.6	24200		C902_5.6 P250 BX250MAK4 190
286	1744	2.5	5.2	24000		C902_5.2 P250 BX250MAK4 190

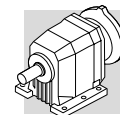
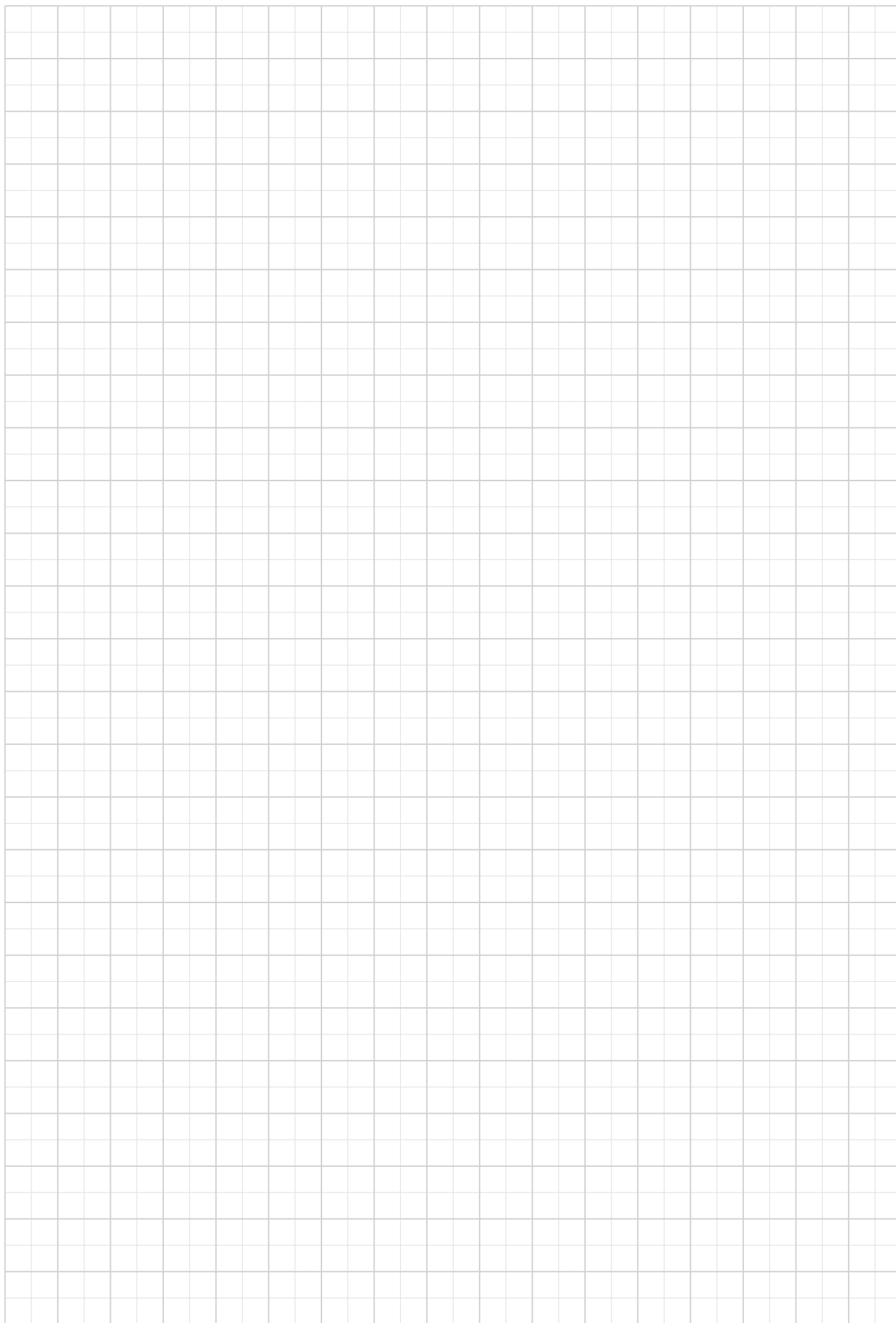
75 kW

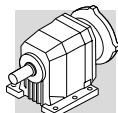
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N		
						IE3 IE4
62	11044	1.0	24.1	38100		C1002_24.1 P280 BX280SAK4 C1002_24.1 P280 BY280SCK4 193
67	10194	1.0	22.2	40000		C1002_22.2 P280 BX280SAK4 C1002_22.2 P280 BY280SCK4 193
73	9266	1.2	20.2	40500		C1002_20.2 P280 BX280SAK4 C1002_20.2 P280 BY280SCK4 193
80	8553	1.3	18.7	41100		C1002_18.7 P280 BX280SAK4 C1002_18.7 P280 BY280SCK4 193
90	7552	1.3	16.5	41400		C1002_16.5 P280 BX280SAK4 C1002_16.5 P280 BY280SCK4 193
98	6971	1.4	15.2	41800		C1002_15.2 P280 BX280SAK4 C1002_15.2 P280 BY280SCK4 193
110	6182	1.5	13.5	41700		C1002_13.5 P280 BX280SAK4 C1002_13.5 P280 BY280SCK4 193
119	5707	1.6	12.5	41800		C1002_12.5 P280 BX280SAK4 C1002_12.5 P280 BY280SCK4 193
136	5010	1.8	10.9	41500		C1002_10.9 P280 BX280SAK4 C1002_10.9 P280 BY280SCK4 193
147	4624	1.9	10.1	41400		C1002_10.1 P280 BX280SAK4 C1002_10.1 P280 BY280SCK4 193
164	4146	2.0	9.0	40900		C1002_9.0 P280 BX280SAK4 C1002_9.0 P280 BY280SCK4 193
178	3827	2.1	8.4	40600		C1002_8.4 P280 BX280SAK4 C1002_8.4 P280 BY280SCK4 193
210	3238	2.4	7.1	39700		C1002_7.1 P280 BX280SAK4 C1002_7.1 P280 BY280SCK4 193
228	2989	2.5	6.5	39300		C1002_6.5 P280 BX280SAK4 C1002_6.5 P280 BY280SCK4 193
278	2444	2.8	5.3	38100		C1002_5.3 P280 BX280SAK4 C1002_5.3 P280 BY280SCK4 193
302	2256	3.0	4.9	37600		C1002_4.9 P280 BX280SAK4 C1002_4.9 P280 BY280SCK4 193



90 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			IE3	IE4		
73	11119	1.0	20.2	30600			C1002_20.2 P280 BX280SBK4	C1002_20.2 P280 BY280MAK4		193
80	10264	1.0	18.7	35500			C1002_18.7 P280 BX280SBK4	C1002_18.7 P280 BY280MAK4		193
90	9062	1.1	16.5	37100			C1002_16.5 P280 BX280SBK4	C1002_16.5 P280 BY280MAK4		193
98	8365	1.2	15.2	37800			C1002_15.2 P280 BX280SBK4	C1002_15.2 P280 BY280MAK4		193
110	7419	1.3	13.5	38100			C1002_13.5 P280 BX280SBK4	C1002_13.5 P280 BY280MAK4		193
119	6848	1.4	12.5	38500			C1002_12.5 P280 BX280SBK4	C1002_12.5 P280 BY280MAK4		193
136	6012	1.5	10.9	38600			C1002_10.9 P280 BX280SBK4	C1002_10.9 P280 BY280MAK4		193
147	5549	1.6	10.1	38700			C1002_10.1 P280 BX280SBK4	C1002_10.1 P280 BY280MAK4		193
164	4975	1.7	9.0	38500			C1002_9.0 P280 BX280SBK4	C1002_9.0 P280 BY280MAK4		193
178	4592	1.8	8.4	38400			C1002_8.4 P280 BX280SBK4	C1002_8.4 P280 BY280MAK4		193
210	3886	2.0	7.1	37800			C1002_7.1 P280 BX280SBK4	C1002_7.1 P280 BY280MAK4		193
228	3587	2.1	6.5	37600			C1002_6.5 P280 BX280SBK4	C1002_6.5 P280 BY280MAK4		193
278	2933	2.4	5.3	36600			C1002_5.3 P280 BX280SBK4	C1002_5.3 P280 BY280MAK4		193
302	2707	2.5	4.9	36300			C1002_4.9 P280 BX280SBK4	C1002_4.9 P280 BY280MAK4		193

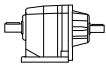


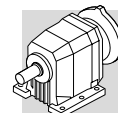


26 DONNEES TECHNIQUES REDUCTEURS

C 12

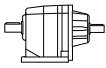
100 Nm

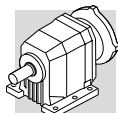
	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 12 2_2.8	2.8	1012	30	3.3	750	600	506	37	2.1	990	790	145
C 12 2_3.2	3.2	873	32	3.1	730	600	436	40	1.9	960	790	
C 12 2_3.7	3.7	767	34	2.9	720	610	383	42	1.8	960	800	
C 12 2_4.3	4.3	649	36	2.6	710	630	325	45	1.6	890	800	
C 12 2_4.9	4.9	575	38	2.4	710	640	288	48	1.5	880	800	
C 12 2_5.6	5.6	500	40	2.2	680	650	250	51	1.4	840	810	
C 12 2_6.2	6.2	449	42	2.1	650	660	225	53	1.3	810	830	
C 12 2_7.6	7.6	367	45	1.8	1140	1220	184	56	1.1	1300	1540	
C 12 2_8.8	8.8	317	47	1.6	1140	1280	158	59	1.0	1300	1620	
C 12 2_10.1	10.1	278	49	1.5	1150	1340	139	63	0.97	1300	1680	
C 12 2_11.9	11.9	236	53	1.4	1140	1390	118	67	0.87	1300	1760	
C 12 2_13.4	13.4	209	55	1.3	1140	1460	104	70	0.81	1300	1840	
C 12 2_15.4	15.4	182	58	1.2	1130	1500	91	73	0.73	1300	1930	
C 12 2_17.2	17.2	163	60	1.1	1130	1590	82	76	0.68	1300	2000	
C 12 2_18.4	18.4	152	62	1.0	1120	1620	76	78	0.65	1300	2000	
C 12 2_20.6	20.6	136	65	1.0	1110	1670	68	82	0.61	1300	2000	
C 12 2_23.2	23.2	120	67	0.89	1110	1720	60	85	0.56	1300	2000	
C 12 2_25.4	25.4	110	69	0.84	1110	1800	55	88	0.54	1300	2000	
C 12 2_29.5	29.5	95	74	0.77	1100	1880	47	93	0.49	1300	2000	
C 12 2_32.8	32.8	85	75	0.71	1090	1970	43	90	0.42	1300	2000	
C 12 2_37.0	37.0	76	79	0.66	1070	2000	38	90	0.38	1300	2000	
C 12 2_42.3	42.3	66	84	0.61	1060	2000	33	100	0.36	1300	2000	
C 12 2_47.6	47.6	59	85	0.55	1050	2000	29.4	90	0.29	1300	2000	
C 12 2_55.2	55.2	51	89	0.50	1030	2000	25.4	90	0.25	1300	2000	
C 12 2_66.2	66.2	42	86	0.40	1060	2000	21.2	90	0.21	1300	2000	



C 12

100 Nm

	i	$n_1 = 900 \text{ min}^{-1}$					$n_1 = 500 \text{ min}^{-1}$					
		n_2 min ⁻¹	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 min ⁻¹	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
C 12 2_2.8	2.8	325	43	1.5	1140	910	181	53	1.1	1300	1080	145
C 12 2_3.2	3.2	281	46	1.4	1100	910	156	57	1.0	1300	1080	
C 12 2_3.7	3.7	246	49	1.3	1090	920	137	60	0.91	1300	1100	
C 12 2_4.3	4.3	209	52	1.2	1050	920	116	64	0.82	1280	1100	
C 12 2_4.9	4.9	185	55	1.1	1050	960	103	67	0.76	1280	1160	
C 12 2_5.6	5.6	161	58	1.0	1000	980	89	69	0.68	1300	1280	
C 12 2_6.2	6.2	144	61	1.0	960	980	80	70	0.62	1300	1390	
C 12 2_7.6	7.6	118	65	0.85	1300	1780	66	79	0.57	1300	2000	
C 12 2_8.8	8.8	102	69	0.77	1300	1830	57	84	0.52	1300	2000	
C 12 2_10.1	10.1	89	72	0.71	1300	1950	50	88	0.48	1300	2000	
C 12 2_11.9	11.9	76	77	0.64	1300	2000	42	89	0.41	1300	2000	
C 12 2_13.4	13.4	67	81	0.60	1300	2000	37	90	0.37	1300	2000	
C 12 2_15.4	15.4	58	85	0.55	1300	2000	32	89	0.32	1300	2000	
C 12 2_17.2	17.2	52	88	0.51	1300	2000	29.1	90	0.29	1300	2000	
C 12 2_18.4	18.4	49	88	0.47	1300	2000	27.2	89	0.27	1300	2000	
C 12 2_20.6	20.6	44	89	0.43	1300	2000	24.2	89	0.24	1300	2000	
C 12 2_23.2	23.2	39	89	0.38	1300	2000	21.5	89	0.21	1300	2000	
C 12 2_25.4	25.4	35	89	0.35	1300	2000	19.7	89	0.19	1300	2000	
C 12 2_29.5	29.5	31	100	0.34	1300	2000	16.9	100	0.19	1300	2000	
C 12 2_32.8	32.8	27.5	90	0.27	1300	2000	15.3	90	0.15	1300	2000	
C 12 2_37.0	37.0	24.3	90	0.24	1300	2000	13.5	90	0.13	1300	2000	
C 12 2_42.3	42.3	21.3	100	0.23	1300	2000	11.8	100	0.13	1300	2000	
C 12 2_47.6	47.6	18.9	90	0.19	1300	2000	10.5	90	0.10	1300	2000	
C 12 2_55.2	55.2	16.3	90	0.16	1300	2000	9.1	90	0.09	1300	2000	
C 12 2_66.2	66.2	13.6	90	0.13	1300	2000	7.6	90	0.07	1300	2000	

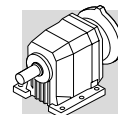


C 22

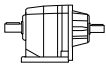
200 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 22 2_2.7	2.7	1029	65	7.4	—	1150	514	80	4.5	—	1460	149
C 22 2_3.3	3.3	842	68	6.3	—	1230	421	85	3.9	—	1560	
C 22 2_3.7	3.7	755	70	5.8	—	1290	378	90	3.7	—	1610	
C 22 2_4.3	4.3	658	75	5.4	—	1320	329	94	3.4	—	1650	
C 22 2_4.8	4.8	587	80	5.2	—	1370	294	100	3.2	—	1730	
C 22 2_5.6	5.6	501	82	4.5	—	1410	250	102	2.8	—	1790	
C 22 2_6.1	6.1	460	85	4.3	—	1500	230	105	2.7	—	1900	
C 22 2_7.1	7.1	395	105	4.6	1090	1570	198	130	2.8	1420	1990	
C 22 2_8.7	8.7	324	110	3.9	1130	1680	162	138	2.5	1430	2090	
C 22 2_9.6	9.6	290	115	3.7	1160	1750	145	145	2.3	1460	2200	
C 22 2_11.1	11.1	253	120	3.3	1130	1820	126	153	2.1	1390	2270	
C 22 2_12.4	12.4	226	125	3.1	1160	1900	113	160	2.0	1420	2380	
C 22 2_14.5	14.5	193	133	2.8	1090	1980	96	168	1.8	1360	2450	
C 22 2_15.8	15.8	177	140	2.7	1030	2030	88	175	1.7	1320	2570	
C 22 2_18.1	18.1	154	145	2.5	1000	2140	77	183	1.6	1250	2650	
C 22 2_20.0	20.0	140	150	2.3	1000	2210	70	190	1.5	1250	2770	
C 22 2_21.5	21.5	131	153	2.2	970	2250	65	194	1.4	1190	2820	
C 22 2_24.3	24.3	115	160	2.0	980	2350	58	200	1.3	1250	2970	
C 22 2_27.2	27.2	103	166	1.9	960	2420	52	200	1.1	1340	3110	
C 22 2_29.6	29.6	95	175	1.8	850	2490	47	200	1.0	1350	3270	
C 22 2_33.1	33.1	85	178	1.7	840	2590	42	200	0.93	1390	3400	
C 22 2_36.8	36.8	76	185	1.6	750	2690	38	200	0.84	1400	3610	
C 22 2_43.3	43.3	65	185	1.3	830	2910	32	190	0.68	1610	3950	
C 22 2_48.6	48.6	58	150	0.95	1300	3300	28.8	155	0.49	1740	4400	
C 22 2_54.7	54.7	51	150	0.85	1320	3470	25.6	155	0.44	1770	4600	
C 22 2_63.3	63.3	44	125	0.61	1400	3860	22.1	130	0.32	1820	5000	
C 22 3_60.0	60.0	47	180	0.93	840	3400	23.3	190	0.49	1230	4500	
C 22 3_65.3	65.3	43	200	0.94	880	3440	21.4	200	0.47	1270	4670	
C 22 3_74.8	74.8	37	200	0.83	940	3600	18.7	200	0.41	1270	4800	
C 22 3_82.6	82.6	34	200	0.75	1010	3820	16.9	200	0.37	1300	5000	
C 22 3_88.5	88.5	32	200	0.70	1040	3900	15.8	200	0.35	1300	5000	
C 22 3_100.2	100.2	28.0	200	0.62	1090	4160	14.0	200	0.31	1300	5000	
C 22 3_112.0	112.0	25.0	200	0.55	1130	4300	12.5	200	0.28	1300	5000	
C 22 3_122.2	122.2	22.9	200	0.51	1160	4540	11.5	200	0.25	1300	5000	
C 22 3_136.5	136.5	20.5	200	0.45	1180	4700	10.3	200	0.23	1300	5000	
C 22 3_151.7	151.7	18.5	200	0.41	1220	4980	9.2	200	0.20	1300	5000	
C 22 3_178.5	178.5	15.7	200	0.35	1260	5000	7.8	200	0.17	1300	5000	
C 22 3_200.7	200.7	14.0	190	0.29	1280	5000	7.0	190	0.15	1300	5000	
C 22 3_225.8	225.8	12.4	180	0.25	1300	5000	6.2	185	0.13	1300	5000	
C 22 3_261.0	261.0	10.7	145	0.17	1300	5000	5.4	155	0.09	1300	5000	

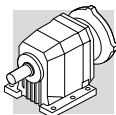
(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



C 22 200 Nm

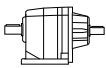
	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 22 2_2.7	2.7	331	95	3.5	—	1670	184	100	2.0	400	2150	149
C 22 2_3.3	3.3	271	100	3.0	—	1760	150	103	1.7	570	2300	
C 22 2_3.7	3.7	243	105	2.8	—	1850	135	105	1.6	800	2430	
C 22 2_4.3	4.3	211	105	2.4	—	1980	117	105	1.4	940	2550	
C 22 2_4.8	4.8	189	105	2.2	170	2090	105	105	1.2	1200	2710	
C 22 2_5.6	5.6	161	105	1.9	200	2250	89	112	1.1	1020	2850	
C 22 2_6.1	6.1	148	110	1.8	200	2290	82	116	1.1	980	2930	
C 22 2_7.1	7.1	127	150	2.1	1650	2310	71	180	1.4	2060	2820	
C 22 2_8.7	8.7	104	160	1.8	1650	2440	58	190	1.2	2100	3000	
C 22 2_9.6	9.6	93	170	1.7	1650	2530	52	200	1.1	2130	3130	
C 22 2_11.1	11.1	81	176	1.6	1640	2650	45	200	0.99	2170	3270	
C 22 2_12.4	12.4	73	185	1.5	1650	2760	40	200	0.89	2200	3520	
C 22 2_14.5	14.5	62	193	1.3	1610	2850	34	200	0.76	2200	3670	
C 22 2_15.8	15.8	57	200	1.3	1580	2990	32	200	0.70	2200	3920	
C 22 2_18.1	18.1	50	200	1.1	1650	3150	27.6	200	0.61	2200	4200	
C 22 2_20.0	20.0	45	200	0.99	1750	3340	25.0	200	0.55	2200	4350	
C 22 2_21.5	21.5	42	200	0.92	1760	3450	23.3	200	0.51	2200	4550	
C 22 2_24.3	24.3	37	200	0.82	1900	3650	20.6	200	0.45	2200	4720	
C 22 2_27.2	27.2	33	200	0.73	1950	3820	18.4	200	0.41	2200	5000	
C 22 2_29.6	29.6	30	200	0.67	1980	3990	16.9	200	0.37	2200	5000	
C 22 2_33.1	33.1	27.2	200	0.60	1970	4200	15.1	200	0.33	2200	5000	
C 22 2_36.8	36.8	24.5	200	0.54	1990	4390	13.6	200	0.30	2200	5000	
C 22 2_43.3	43.3	20.8	190	0.44	2020	4770	11.6	190	0.24	2200	5000	
C 22 2_48.6	48.6	18.5	160	0.33	2050	5000	10.3	170	0.19	2200	5000	
C 22 2_54.7	54.7	16.4	160	0.29	2090	5000	9.1	170	0.17	2200	5000	
C 22 2_63.3	63.3	14.2	135	0.21	2140	5000	7.9	140	0.12	2200	5000	
C 22 3_60.0	60.0	15.0	190	0.31	1300	5000	8.3	200	0.18	1300	5000	
C 22 3_65.3	65.3	13.8	200	0.31	1300	5000	7.7	200	0.17	1300	5000	
C 22 3_74.8	74.8	12.0	200	0.27	1300	5000	6.7	200	0.15	1300	5000	
C 22 3_82.6	82.6	10.9	200	0.25	1300	5000	6.1	200	0.14	1300	5000	
C 22 3_88.5	88.5	10.2	200	0.22	1300	5000	5.6	200	0.12	1300	5000	
C 22 3_100.2	100.2	9.0	200	0.20	1300	5000	5.0	200	0.11	1300	5000	
C 22 3_112.0	112.0	8.0	200	0.18	1300	5000	4.5	200	0.10	1300	5000	
C 22 3_122.2	122.2	7.4	200	0.17	1300	5000	4.1	200	0.09	1300	5000	
C 22 3_136.5	136.5	6.6	200	0.15	1300	5000	3.7	200	0.08	1300	5000	
C 22 3_151.7	151.7	5.9	200	0.13	1300	5000	3.3	200	0.07	1300	5000	
C 22 3_178.5	178.5	5.0	200	0.11	1300	5000	2.8	200	0.06	1300	5000	
C 22 3_200.7	200.7	4.5	195	0.10	1300	5000	2.5	200	0.05	1300	5000	
C 22 3_225.8	225.8	4.0	195	0.09	1300	5000	2.2	200	0.05	1300	5000	
C 22 3_261.0	261.0	3.4	160	0.06	1300	5000	1.9	165	0.04	1300	5000	

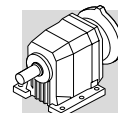
(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



C 32

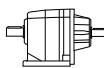
300 Nm

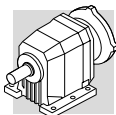
	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 32 2_2.9	2.9	973	105	11.3	670	1710	486	130	7.0	940	2170	153
C 32 2_3.4	3.4	821	116	10.5	480	1770	411	138	6.2	900	2280	
C 32 2_3.7	3.7	750	120	9.9	560	1830	375	150	6.2	750	2310	
C 32 2_4.5	4.5	622	129	8.8	450	1930	311	152	5.2	970	2500	
C 32 2_5.0	5.0	565	135	8.4	470	1990	283	155	4.8	1100	2600	
C 32 2_5.7	5.7	495	141	7.7	380	2080	248	155	4.2	1250	2760	
C 32 2_6.3	6.3	447	150	7.4	300	2130	223	155	3.8	1450	2890	
C 32 2_7.2	7.2	391	160	6.9	1890	2370	195	200	4.3	2200	2990	
C 32 2_8.5	8.5	330	168	6.1	1900	2510	165	209	3.8	2200	3180	
C 32 2_9.3	9.3	301	175	5.8	1910	2580	151	220	3.7	2200	3260	
C 32 2_11.2	11.2	250	187	5.2	1910	2740	125	231	3.2	2200	3480	
C 32 2_12.3	12.3	227	195	4.9	1910	2820	114	245	3.1	2200	3560	
C 32 2_14.1	14.1	199	205	4.5	1900	2940	99	251	2.8	2200	3750	
C 32 2_15.6	15.6	180	215	4.3	1900	3030	90	270	2.7	2200	3820	
C 32 2_18.2	18.2	154	223	3.8	1900	3210	77	275	2.3	2200	4070	
C 32 2_20.1	20.1	139	235	3.6	1900	3290	70	295	2.3	2200	4160	
C 32 2_22.9	22.9	122	240	3.2	1880	3470	61	295	2.0	2200	4400	
C 32 2_25.1	25.1	111	250	3.1	1890	3560	56	300	1.8	2200	4570	
C 32 2_26.9	26.9	104	255	2.9	1880	3650	52	300	1.7	2200	4700	
C 32 2_29.8	29.8	94	265	2.7	1880	3770	47	300	1.6	2200	4920	
C 32 2_33.1	33.1	85	270	2.5	1880	3920	42	300	1.4	2200	5150	
C 32 2_36.1	36.1	78	280	2.4	1870	4030	39	300	1.3	2200	5350	
C 32 2_40.7	40.7	69	290	2.2	1860	4200	34	300	1.1	2200	5500	
C 32 2_45.3	45.3	62	300	2.0	1860	4360	31	300	1.0	2200	5500	
C 32 2_52.4	52.4	53	300	1.8	1860	4650	26.7	300	0.88	2200	5500	
C 32 2_59.4	59.4	47	205	1.1	2020	5000	23.6	215	0.56	2200	5500	
C 32 2_66.8	66.8	42	205	0.95	2020	5500	21.0	215	0.50	2200	5500	
C 32 3_74.7	74.7	37	280	1.2	750	5500	18.7	290	0.60	1170	5500	
C 32 3_82.6	82.6	34	300	1.1	820	5500	17.0	300	0.56	1240	5500	
C 32 3_94.2	94.2	29.7	300	0.98	900	5500	14.9	300	0.49	1270	5500	
C 32 3_103.3	103.3	27.1	300	0.90	980	5500	13.6	300	0.45	1300	5500	
C 32 3_110.6	110.6	25.3	300	0.84	1000	5500	12.7	300	0.42	1300	5500	
C 32 3_122.4	122.4	22.9	300	0.76	1060	5500	11.4	300	0.38	1300	5500	
C 32 3_136.0	136.0	20.6	300	0.68	1110	5500	10.3	300	0.34	1300	5500	
C 32 3_148.4	148.4	18.9	300	0.62	1130	5500	9.4	300	0.31	1300	5500	
C 32 3_167.4	167.4	16.7	300	0.55	1180	5500	8.4	300	0.28	1300	5500	
C 32 3_186.0	186.0	15.1	300	0.50	1200	5500	7.5	300	0.25	1300	5500	
C 32 3_215.6	215.6	13.0	300	0.43	1240	5500	6.5	300	0.21	1300	5500	
C 32 3_244.2	244.2	11.5	240	0.30	1280	5500	5.7	255	0.16	1300	5500	
C 32 3_274.7	274.7	10.2	240	0.27	1300	5500	5.1	255	0.14	1300	5500	



C 32

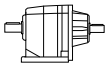
300 Nm

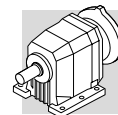
	i	$n_1 = 900 \text{ min}^{-1}$					$n_1 = 500 \text{ min}^{-1}$					
		n_2 min ⁻¹	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 min ⁻¹	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
C 32 2_2.9	2.9	313	150	5.2	1120	2510	174	155	3.0	2200	3220	153
C 32 2_3.4	3.4	264	152	4.4	1390	2690	147	167	2.7	2200	3390	
C 32 2_3.7	3.7	241	155	4.1	1570	2790	134	175	2.6	2200	3480	
C 32 2_4.5	4.5	200	158	3.5	1750	3010	111	188	2.3	2200	3690	
C 32 2_5.0	5.0	182	162	3.2	1870	3120	101	198	2.2	2200	3790	
C 32 2_5.7	5.7	159	171	3.0	1730	3250	88	198	1.9	2200	4010	
C 32 2_6.3	6.3	144	178	2.8	1730	3350	80	200	1.8	2200	4180	
C 32 2_7.2	7.2	126	235	3.3	2200	3450	70	285	2.2	2200	4200	
C 32 2_8.5	8.5	106	246	2.9	2200	3660	59	288	1.9	2200	4520	
C 32 2_9.3	9.3	97	260	2.8	2200	3750	54	300	1.8	2200	4640	
C 32 2_11.2	11.2	80	272	2.4	2200	4010	45	300	1.5	2200	5030	
C 32 2_12.3	12.3	73	285	2.3	2200	4120	41	300	1.3	2200	5250	
C 32 2_14.1	14.1	64	290	2.0	2200	4340	36	300	1.2	2200	5500	
C 32 2_15.6	15.6	58	300	1.9	2200	4500	32	300	1.1	2200	5500	
C 32 2_18.2	18.2	50	300	1.6	2200	4810	27.5	300	0.91	2200	5500	
C 32 2_20.1	20.1	45	300	1.5	2200	5030	24.9	300	0.82	2200	5500	
C 32 2_22.9	22.9	39	300	1.3	2200	5300	21.8	300	0.72	2200	5500	
C 32 2_25.1	25.1	36	300	1.2	2200	5500	19.9	300	0.66	2200	5500	
C 32 2_26.9	26.9	33	300	1.1	2200	5500	18.6	300	0.61	2200	5500	
C 32 2_29.8	29.8	30	300	1.0	2200	5500	16.8	300	0.56	2200	5500	
C 32 2_33.1	33.1	27.2	300	0.90	2200	5500	15.1	300	0.50	2200	5500	
C 32 2_36.1	36.1	24.9	300	0.82	2200	5500	13.9	300	0.46	2200	5500	
C 32 2_40.7	40.7	22.1	300	0.73	2200	5500	12.3	300	0.41	2200	5500	
C 32 2_45.3	45.3	19.9	300	0.66	2200	5500	11.0	300	0.37	2200	5500	
C 32 2_52.4	52.4	17.2	300	0.57	2200	5500	9.5	300	0.32	2200	5500	
C 32 2_59.4	59.4	15.2	220	0.37	2200	5500	8.4	230	0.21	2200	5500	
C 32 2_66.8	66.8	13.5	220	0.33	2200	5500	7.5	230	0.19	2200	5500	
C 32 3_74.7	74.7	12.0	290	0.38	1300	5500	6.7	300	0.22	1300	5500	
C 32 3_82.6	82.6	10.9	300	0.36	1300	5500	6.1	300	0.20	1300	5500	
C 32 3_94.2	94.2	9.6	300	0.32	1300	5500	5.3	300	0.18	1300	5500	
C 32 3_103.3	103.3	8.7	300	0.29	1300	5500	4.8	300	0.16	1300	5500	
C 32 3_110.6	110.6	8.1	300	0.27	1300	5500	4.5	300	0.15	1300	5500	
C 32 3_122.4	122.4	7.4	300	0.24	1300	5500	4.1	300	0.14	1300	5500	
C 32 3_136.0	136.0	6.6	300	0.22	1300	5500	3.7	300	0.12	1300	5500	
C 32 3_148.4	148.4	6.1	300	0.20	1300	5500	3.4	300	0.11	1300	5500	
C 32 3_167.4	167.4	5.4	300	0.18	1300	5500	3.0	300	0.10	1300	5500	
C 32 3_186.0	186.0	4.8	300	0.16	1300	5500	2.7	300	0.09	1300	5500	
C 32 3_215.6	215.6	4.2	300	0.14	1300	5500	2.3	300	0.08	1300	5500	
C 32 3_244.2	244.2	3.7	260	0.11	1300	5500	2.0	275	0.06	1300	5500	
C 32 3_274.7	274.7	3.3	260	0.09	1300	5500	1.8	275	0.06	1300	5500	



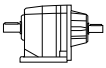
C 36

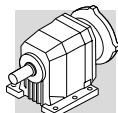
450 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 36 2_2.7	2.7	1042	140	16.1	670	1750	521	170	9.8	1150	2240	157
C 36 2_3.2	3.2	880	145	14.1	790	1870	440	177	8.6	1240	2380	
C 36 2_3.5	3.5	803	150	13.3	910	1920	402	185	8.2	1320	2440	
C 36 2_4.2	4.2	667	157	11.5	920	2050	333	192	7.1	1410	2620	
C 36 2_4.6	4.6	606	165	11.0	920	2110	303	200	6.7	1470	2700	
C 36 2_5.3	5.3	530	167	9.8	990	2230	265	200	5.8	1650	2870	
C 36 2_5.8	5.8	479	170	9.0	1160	2330	239	200	5.3	1990	3020	
C 36 2_6.8	6.8	413	285	13.0	1750	2130	206	355	8.1	2220	2710	
C 36 2_8.0	8.0	349	297	11.4	1770	2270	174	365	7.0	2250	2910	
C 36 2_8.8	8.8	318	310	10.9	1780	2330	159	380	6.7	2270	3000	
C 36 2_10.6	10.6	264	325	9.5	1790	2500	132	380	5.5	2320	3290	
C 36 2_11.7	11.7	240	340	9.0	1790	2560	120	380	5.0	2370	3460	
C 36 2_13.3	13.3	210	350	8.1	1800	2700	105	380	4.4	2400	3670	
C 36 2_14.8	14.8	190	360	7.5	1800	2810	95	380	4.0	2440	3890	
C 36 2_17.2	17.2	163	370	6.6	1810	3000	81	380	3.4	2460	4200	
C 36 2_19.0	19.0	147	380	6.2	1820	3110	74	380	3.1	2500	4400	
C 36 3_22.1	22.1	127	340	4.7	2300	3570	63	430	3.0	2900	4490	
C 36 3_26.2	26.2	107	355	4.2	2300	3790	53	440	2.6	2910	4810	
C 36 3_28.7	28.7	98	385	4.1	2300	3820	49	450	2.4	2930	4980	
C 36 3_34.6	34.6	81	400	3.6	2300	4100	40	450	2.0	2950	5420	
C 36 3_38.1	38.1	74	435	3.5	2300	4140	37	450	1.8	2970	5690	
C 36 3_43.5	43.5	64	440	3.1	2300	4450	32	450	1.6	2980	6050	
C 36 3_48.2	48.2	58	450	2.9	2310	4580	29.1	450	1.4	2990	6330	
C 36 3_56.2	56.2	50	450	2.5	2320	4970	24.9	450	1.2	2990	6500	
C 36 3_62.0	62.0	45	450	2.2	2330	5170	22.6	450	1.1	3000	6500	
C 36 3_70.8	70.8	40	450	2.0	2340	5520	19.8	450	0.98	3000	6500	
C 36 3_77.6	77.6	36	450	1.8	2350	5740	18.0	450	0.90	3000	6500	
C 36 3_83.1	83.1	34	450	1.7	2350	5930	16.8	450	0.84	3000	6500	
C 36 3_91.9	91.9	30	450	1.5	2360	6200	15.2	450	0.76	3000	6500	
C 36 3_102.2	102.2	27.4	450	1.4	2360	6400	13.7	450	0.68	3000	6500	
C 36 3_111.5	111.5	25.1	450	1.2	2360	6500	12.6	450	0.62	3000	6500	
C 36 3_125.8	125.8	22.3	450	1.1	2370	6500	11.1	450	0.55	3000	6500	
C 36 3_139.8	139.8	20.0	450	0.99	2370	6500	10.0	450	0.50	3000	6500	
C 36 3_162.0	162.0	17.3	450	0.86	2380	6500	8.6	450	0.43	3000	6500	
C 36 3_183.5	183.5	15.3	450	0.76	2380	6500	7.6	450	0.38	3000	6500	
C 36 3_206.4	206.4	13.6	450	0.67	2380	6500	6.8	450	0.34	3000	6500	
C 36 4_230.9	230.9	12.1	450	0.60	1150	6500	6.1	450	0.30	1300	6500	
C 36 4_255.0	255.0	11.0	450	0.54	1190	6500	5.5	450	0.27	1300	6500	
C 36 4_290.9	290.9	9.6	450	0.48	1210	6500	4.8	450	0.24	1300	6500	
C 36 4_318.9	318.9	8.8	450	0.44	1230	6500	4.4	450	0.22	1300	6500	
C 36 4_341.7	341.7	8.2	450	0.41	1240	6500	4.1	450	0.20	1300	6500	
C 36 4_377.9	377.9	7.4	450	0.37	1260	6500	3.7	450	0.18	1300	6500	
C 36 4_420.2	420.2	6.7	450	0.33	1270	6500	3.3	450	0.17	1300	6500	
C 36 4_458.4	458.4	6.1	450	0.30	1280	6500	3.1	450	0.15	1300	6500	
C 36 4_517.2	517.2	5.4	450	0.27	1300	6500	2.7	450	0.13	1300	6500	
C 36 4_574.7	574.7	4.9	450	0.24	1300	6500	2.4	450	0.12	1300	6500	
C 36 4_665.9	665.9	4.2	450	0.21	1300	6500	2.1	450	0.10	1300	6500	
C 36 4_754.2	754.2	3.7	450	0.18	1300	6500	1.9	450	0.09	1300	6500	
C 36 4_848.5	848.5	3.3	450	0.16	1300	6500	1.6	450	0.08	1300	6500	



C 36 450 Nm

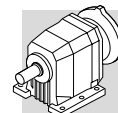
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		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 36 2_2.7	2.7	335	190	7.0	1670	2640	186	200	4.1	3000	3390	157
C 36 2_3.2	3.2	283	190	5.9	2080	2790	157	200	3.5	3000	3650	
C 36 2_3.5	3.5	258	200	5.7	2160	2920	143	200	3.2	3000	3810	
C 36 2_4.2	4.2	214	200	4.7	2410	3170	119	200	2.6	3000	4100	
C 36 2_4.6	4.6	195	200	4.3	2590	3320	108	200	2.4	3000	4300	
C 36 2_5.3	5.3	171	200	3.8	2630	3500	95	200	2.1	3000	4520	
C 36 2_5.8	5.8	154	200	3.4	2680	3690	86	200	1.9	3000	4740	
C 36 2_6.8	6.8	133	380	5.6	2660	3290	74	380	3.1	3000	4400	
C 36 2_8.0	8.0	112	380	4.7	2720	3580	62	380	2.6	3000	4750	
C 36 2_8.8	8.8	102	380	4.3	2790	3750	57	380	2.4	3000	4960	
C 36 2_10.6	10.6	85	380	3.6	2850	4110	47	380	2.0	3000	5360	
C 36 2_11.7	11.7	77	380	3.2	2900	4300	43	380	1.8	3000	5630	
C 36 2_13.3	13.3	68	380	2.8	2930	4590	38	380	1.6	3000	5930	
C 36 2_14.8	14.8	61	380	2.6	2970	4800	34	380	1.4	3000	6240	
C 36 2_17.2	17.2	52	380	2.2	2980	5100	29.1	380	1.2	3000	6330	
C 36 2_19.0	19.0	47	380	2.0	3000	5390	26.3	380	1.1	3000	6500	
C 36 3_22.1	22.1	41	450	2.0	3000	5430	22.6	450	1.1	3000	6500	
C 36 3_26.2	26.2	34	450	1.7	3000	5850	19.1	450	0.95	3000	6500	
C 36 3_28.7	28.7	31	450	1.6	3000	6120	17.4	450	0.86	3000	6500	
C 36 3_34.6	34.6	26.0	450	1.3	3000	6500	14.5	450	0.72	3000	6500	
C 36 3_38.1	38.1	23.6	450	1.2	3000	6500	13.1	450	0.65	3000	6500	
C 36 3_43.5	43.5	20.7	450	1.0	3000	6500	11.5	450	0.57	3000	6500	
C 36 3_48.2	48.2	18.7	450	0.93	3000	6500	10.4	450	0.52	3000	6500	
C 36 3_56.2	56.2	16.0	450	0.79	3000	6500	8.9	450	0.44	3000	6500	
C 36 3_62.0	62.0	14.5	450	0.72	3000	6500	8.1	450	0.40	3000	6500	
C 36 3_70.8	70.8	12.7	450	0.63	3000	6500	7.1	450	0.35	3000	6500	
C 36 3_77.6	77.6	11.6	450	0.58	3000	6500	6.4	450	0.32	3000	6500	
C 36 3_83.1	83.1	10.8	450	0.54	3000	6500	6.0	450	0.30	3000	6500	
C 36 3_91.9	91.9	9.8	450	0.49	3000	6500	5.4	450	0.27	3000	6500	
C 36 3_102.2	102.2	8.8	450	0.44	3000	6500	4.9	450	0.24	3000	6500	
C 36 3_111.5	111.5	8.1	450	0.40	3000	6500	4.5	450	0.22	3000	6500	
C 36 3_125.8	125.8	7.2	450	0.35	3000	6500	4.0	450	0.20	3000	6500	
C 36 3_139.8	139.8	6.4	450	0.32	3000	6500	3.6	450	0.18	3000	6500	
C 36 3_162.0	162.0	5.6	450	0.28	3000	6500	3.1	450	0.15	3000	6500	
C 36 3_183.5	183.5	4.9	450	0.24	3000	6500	2.7	450	0.14	3000	6500	
C 36 3_206.4	206.4	4.4	450	0.22	3000	6500	2.4	450	0.12	3000	6500	
C 36 4_230.9	230.9	3.9	450	0.19	1300	6500	2.2	450	0.11	1300	6500	
C 36 4_255.0	255.0	3.5	450	0.18	1300	6500	2.0	450	0.10	1300	6500	
C 36 4_290.9	290.9	3.1	450	0.15	1300	6500	1.7	450	0.09	1300	6500	
C 36 4_318.9	318.9	2.8	450	0.14	1300	6500	1.6	450	0.08	1300	6500	
C 36 4_341.7	341.7	2.6	450	0.13	1300	6500	1.5	450	0.07	1300	6500	
C 36 4_377.9	377.9	2.4	450	0.12	1300	6500	1.3	450	0.07	1300	6500	
C 36 4_420.2	420.2	2.1	450	0.11	1300	6500	1.2	450	0.06	1300	6500	
C 36 4_458.4	458.4	2.0	450	0.10	1300	6500	1.1	450	0.05	1300	6500	
C 36 4_517.2	517.2	1.7	450	0.09	1300	6500	1.0	450	0.05	1300	6500	
C 36 4_574.7	574.7	1.6	450	0.08	1300	6500	0.9	450	0.04	1300	6500	
C 36 4_665.9	665.9	1.4	450	0.07	1300	6500	0.8	450	0.04	1300	6500	
C 36 4_754.2	754.2	1.2	450	0.06	1300	6500	0.7	450	0.03	1300	6500	
C 36 4_848.5	848.5	1.1	450	0.05	1300	6500	0.6	450	0.03	1300	6500	



C 41

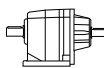
600 Nm

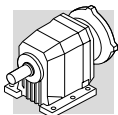
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C 41 2_2.7	2.7	1037	245	28	980	1290	519	245	14.0	1390	2060	161
C 41 2_3.6	3.6	778	255	22	1070	1540	389	255	10.9	1650	2390	
C 41 2_4.7	4.7	596	260	17.1	1170	1800	298	260	8.5	2010	2730	
C 41 2_6.0	6.0	467	260	13.4	1290	2100	233	260	6.7	2400	3110	
C 41 2_6.4	6.4	438	275	13.3	2270	2590	219	345	8.3	2860	3260	
C 41 2_7.1	7.1	394	285	12.4	2360	2700	197	355	7.7	2980	3420	
C 41 2_8.6	8.6	326	305	10.9	2300	2860	163	385	6.9	2900	3600	
C 41 2_9.6	9.6	292	310	10.0	2410	3010	146	390	6.3	3030	3800	
C 41 2_11.2	11.2	250	335	9.2	2310	3100	125	420	5.8	2910	3920	
C 41 2_12.4	12.4	226	340	8.5	2440	3270	113	425	5.3	3070	4140	
C 41 2_14.2	14.2	197	355	7.7	2330	3410	99	445	4.8	2980	4300	
C 41 2_15.8	15.8	177	360	7.0	2460	3590	89	450	4.4	3120	4540	
C 41 2_17.8	17.8	157	380	6.6	2330	3680	79	480	4.2	3050	4630	
C 41 2_19.8	19.8	141	385	6.0	2460	3880	71	485	3.8	3180	4890	
C 41 2_22.6	22.6	124	410	5.6	2320	3990	62	500	3.4	3110	5110	
C 41 2_25.0	25.0	112	415	5.1	2460	4210	56	500	3.1	3230	5420	
C 41 2_28.3	28.3	99	445	4.9	2310	4290	49	500	2.7	3180	5710	
C 41 2_31.4	31.4	89	445	4.4	2440	4550	45	500	2.5	3300	6040	
C 41 2_33.4	33.4	84	465	4.3	2390	4560	42	500	2.3	3220	6170	
C 41 2_37.1	37.1	75	470	3.9	2440	4810	38	500	2.1	3320	6520	
C 41 2_44.8	44.8	63	500	3.4	2660	5130	31	500	1.7	3500	7000	
C 41 3_28.5	28.5	98	445	4.9	3060	4300	49	560	3.1	3500	5420	
C 41 3_31.2	31.2	90	450	4.5	3090	4510	45	570	2.9	3500	5670	
C 41 3_36.8	36.8	76	480	4.1	3070	4710	38	600	2.6	3500	5960	
C 41 3_40.3	40.3	69	485	3.8	3100	4940	35	600	2.3	3500	6280	
C 41 3_47.0	47.0	60	515	3.5	3070	5140	29.8	600	2.0	3500	6720	
C 41 3_51.5	51.5	54	525	3.2	3090	5360	27.2	600	1.8	3500	7000	
C 41 3_58.7	58.7	48	550	3.0	3070	5550	23.9	600	1.6	3500	7000	
C 41 3_64.3	64.3	44	560	2.7	3090	5800	21.8	600	1.5	3500	7000	
C 41 3_74.4	74.4	38	590	2.5	3060	6040	18.8	600	1.3	3500	7000	
C 41 3_81.5	81.5	34	600	2.3	3090	6310	17.2	600	1.2	3500	7000	
C 41 3_93.3	93.3	30	600	2.0	3080	6700	15.0	600	1.0	3500	7000	
C 41 3_102.3	102.3	27.4	600	1.8	3110	7000	13.7	600	0.92	3500	7000	
C 41 3_110.1	110.1	25.4	600	1.7	3090	7000	12.7	600	0.86	3500	7000	
C 41 3_120.6	120.6	23.2	600	1.6	3110	7000	11.6	600	0.78	3500	7000	
C 41 3_132.9	132.9	21.1	600	1.4	3090	7000	10.5	600	0.71	3500	7000	
C 41 3_145.6	145.6	19.2	600	1.3	3120	7000	9.6	600	0.65	3500	7000	
C 41 3_164.1	164.1	17.1	600	1.2	3100	7000	8.5	600	0.58	3500	7000	
C 41 3_179.9	179.9	15.6	600	1.1	3120	7000	7.8	600	0.53	3500	7000	
C 41 3_190.8	190.8	14.7	600	0.99	3110	7000	7.3	600	0.50	3500	7000	
C 41 3_209.1	209.1	13.4	600	0.90	3130	7000	6.7	600	0.45	3500	7000	
C 41 4_239.9	239.9	11.7	600	0.81	1480	7000	5.8	600	0.40	1910	7000	
C 41 4_263.0	263.0	10.6	600	0.74	1500	7000	5.3	600	0.37	1920	7000	
C 41 4_304.2	304.2	9.2	600	0.64	1520	7000	4.6	600	0.32	1950	7000	
C 41 4_333.4	333.4	8.4	600	0.58	1530	7000	4.2	600	0.29	1960	7000	
C 41 4_381.8	381.8	7.3	600	0.51	1540	7000	3.7	600	0.25	1970	7000	
C 41 4_418.5	418.5	6.7	600	0.46	1550	7000	3.3	600	0.23	1980	7000	
C 41 4_450.2	450.2	6.2	600	0.43	1560	7000	3.1	600	0.21	1990	7000	
C 41 4_493.5	493.5	5.7	600	0.39	1570	7000	2.8	600	0.20	2000	7000	
C 41 4_543.5	543.5	5.2	600	0.36	1570	7000	2.6	600	0.18	2000	7000	
C 41 4_595.8	595.8	4.7	600	0.32	1580	7000	2.3	600	0.16	2010	7000	
C 41 4_671.3	671.3	4.2	600	0.29	1590	7000	2.1	600	0.14	2020	7000	
C 41 4_735.9	735.9	3.8	600	0.26	1590	7000	1.9	600	0.13	2020	7000	
C 41 4_780.4	780.4	3.6	600	0.25	1600	7000	1.8	600	0.12	2030	7000	
C 41 4_855.5	855.5	3.3	600	0.23	1600	7000	1.6	600	0.11	2030	7000	



C 41

600 Nm

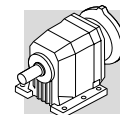
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		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 41 2_2.7	2.7	333	245	9.0	2560	2650	185	245	5.0	3500	3590	161
C 41 2_3.6	3.6	250	255	7.0	2710	3050	139	255	3.9	3500	4090	
C 41 2_4.7	4.7	191	260	5.5	2900	3440	106	260	3.0	3500	4570	
C 41 2_6.0	6.0	150	260	4.3	3080	3890	83	260	2.4	3500	5110	
C 41 2_6.4	6.4	141	400	6.2	3310	3780	78	490	4.2	3500	4580	
C 41 2_7.1	7.1	127	415	5.8	3460	3940	70	500	3.9	3500	4820	
C 41 2_8.6	8.6	105	445	5.1	3360	4180	58	500	3.2	3500	5290	
C 41 2_9.6	9.6	94	450	4.7	3500	4410	52	500	2.9	3500	5600	
C 41 2_11.2	11.2	80	490	4.3	3500	4520	45	500	2.5	3500	5980	
C 41 2_12.4	12.4	73	495	4.0	3500	4780	40	500	2.2	3500	6320	
C 41 2_14.2	14.2	63	500	3.5	3500	5060	35	500	1.9	3500	6700	
C 41 2_15.8	15.8	57	500	3.1	3500	5370	32	500	1.7	3500	7000	
C 41 2_17.8	17.8	51	500	2.8	3500	5650	28.1	500	1.5	3500	7000	
C 41 2_19.8	19.8	45	500	2.5	3500	5970	25.3	500	1.4	3500	7000	
C 41 2_22.6	22.6	40	500	2.2	3500	6320	22.1	500	1.2	3500	7000	
C 41 2_25.0	25.0	36	500	2.0	3500	6670	20.0	500	1.1	3500	7000	
C 41 2_28.3	28.3	32	500	1.8	3500	7000	17.7	500	0.97	3500	7000	
C 41 2_31.4	31.4	28.7	500	1.6	3500	7000	15.9	500	0.88	3500	7000	
C 41 2_33.4	33.4	26.9	500	1.5	3500	7000	15.0	500	0.83	3500	7000	
C 41 2_37.1	37.1	24.3	500	1.3	3500	7000	13.5	500	0.74	3500	7000	
C 41 2_44.8	44.8	20.1	500	1.1	3500	7000	11.2	500	0.62	3500	7000	
C 41 3_28.5	28.5	32	600	2.1	3500	6530	17.5	600	1.2	3500	7000	
C 41 3_31.2	31.2	28.8	600	1.9	3500	6870	16.0	600	1.1	3500	7000	
C 41 3_36.8	36.8	24.5	600	1.7	3500	7000	13.6	600	0.92	3500	7000	
C 41 3_40.3	40.3	22.3	600	1.5	3500	7000	12.4	600	0.84	3500	7000	
C 41 3_47.0	47.0	19.1	600	1.3	3500	7000	10.6	600	0.72	3500	7000	
C 41 3_51.5	51.5	17.5	600	1.2	3500	7000	9.7	600	0.66	3500	7000	
C 41 3_58.7	58.7	15.3	600	1.0	3500	7000	8.5	600	0.58	3500	7000	
C 41 3_64.3	64.3	14.0	600	0.95	3500	7000	7.8	600	0.53	3500	7000	
C 41 3_74.4	74.4	12.1	600	0.82	3500	7000	6.7	600	0.45	3500	7000	
C 41 3_81.5	81.5	11.0	600	0.75	3500	7000	6.1	600	0.41	3500	7000	
C 41 3_93.3	93.3	9.6	600	0.65	3500	7000	5.4	600	0.36	3500	7000	
C 41 3_102.3	102.3	8.8	600	0.59	3500	7000	4.9	600	0.33	3500	7000	
C 41 3_110.1	110.1	8.2	600	0.55	3500	7000	4.5	600	0.31	3500	7000	
C 41 3_120.6	120.6	7.5	600	0.50	3500	7000	4.1	600	0.28	3500	7000	
C 41 3_132.9	132.9	6.8	600	0.46	3500	7000	3.8	600	0.25	3500	7000	
C 41 3_145.6	145.6	6.2	600	0.42	3500	7000	3.4	600	0.23	3500	7000	
C 41 3_164.1	164.1	5.5	600	0.37	3500	7000	3.0	600	0.21	3500	7000	
C 41 3_179.9	179.9	5.0	600	0.34	3500	7000	2.8	600	0.19	3500	7000	
C 41 3_190.8	190.8	4.7	600	0.32	3500	7000	2.6	600	0.18	3500	7000	
C 41 3_209.1	209.1	4.3	600	0.29	3500	7000	2.4	600	0.16	3500	7000	
C 41 4_239.9	239.9	3.8	600	0.26	2200	7000	2.1	600	0.14	2200	7000	
C 41 4_263.0	263.0	3.4	600	0.24	2200	7000	1.9	600	0.13	2200	7000	
C 41 4_304.2	304.2	3.0	600	0.20	2200	7000	1.6	600	0.11	2200	7000	
C 41 4_333.4	333.4	2.7	600	0.19	2200	7000	1.5	600	0.10	2200	7000	
C 41 4_381.8	381.8	2.4	600	0.16	2200	7000	1.3	600	0.09	2200	7000	
C 41 4_418.5	418.5	2.2	600	0.15	2200	7000	1.2	600	0.08	2200	7000	
C 41 4_450.2	450.2	2.0	600	0.14	2200	7000	1.1	600	0.08	2200	7000	
C 41 4_493.5	493.5	1.8	600	0.13	2200	7000	1.0	600	0.07	2200	7000	
C 41 4_543.5	543.5	1.7	600	0.11	2200	7000	0.92	600	0.06	2200	7000	
C 41 4_595.8	595.8	1.5	600	0.10	2200	7000	0.84	600	0.06	2200	7000	
C 41 4_671.3	671.3	1.3	600	0.09	2200	7000	0.74	600	0.05	2200	7000	
C 41 4_735.9	735.9	1.2	600	0.08	2200	7000	0.68	600	0.05	2200	7000	
C 41 4_780.4	780.4	1.2	600	0.08	2200	7000	0.64	600	0.04	2200	7000	
C 41 4_855.5	855.5	1.1	600	0.07	2200	7000	0.58	600	0.04	2200	7000	



C 51

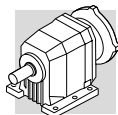
1000 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 51 2_2.6	2.6	1077	315	37	980	3340	538	400	24	1390	4200	165
C 51 2_3.3	3.3	848	340	32	1070	3610	424	420	19.6	1650	4580	
C 51 2_4.5	4.5	622	370	25	1170	4010	311	435	14.9	2010	5180	
C 51 2_5.6	5.6	500	390	21	1290	4380	250	435	12.0	2400	5760	
C 51 2_7.0	7.0	400	500	22	2270	4760	200	630	13.9	2860	6000	
C 51 2_7.8	7.8	359	510	20	2360	4940	179	640	12.7	2980	6230	
C 51 2_8.8	8.8	318	545	19.1	2300	5120	159	685	12.0	2900	6450	
C 51 2_9.8	9.8	286	545	17.2	2410	5350	143	685	10.8	3030	6750	
C 51 2_11.8	11.8	237	610	16.0	2310	5620	119	770	10.1	2910	7080	
C 51 2_13.1	13.1	214	595	14.0	2440	5930	107	750	8.8	3070	7470	
C 51 2_15.0	15.0	187	660	13.6	2330	6080	93	800	8.2	2980	7770	
C 51 2_16.6	16.6	169	640	11.9	2460	6420	84	795	7.4	3120	8130	
C 51 2_18.9	18.9	148	695	11.3	2330	6630	74	800	6.5	3050	8620	
C 51 2_21.0	21.0	133	675	9.9	2460	7000	67	795	5.8	3180	9020	
C 51 2_23.4	23.4	120	735	9.7	2320	7160	60	800	5.3	3110	9460	
C 51 2_25.9	25.9	108	715	8.5	2460	7550	54	795	4.7	3230	9890	
C 51 2_29.8	29.8	94	795	8.2	2310	7770	47	800	4.1	3180	10000	
C 51 2_33.0	33.0	85	775	7.2	2440	8190	42	795	3.7	3300	10000	
C 51 2_36.4	36.4	77	750	6.4	2390	8660	38	790	3.3	3220	10000	
C 51 2_40.4	40.4	69	795	6.1	2440	8870	35	795	3.0	3320	10000	
C 51 2_43.1	43.1	65	730	5.2	2450	9380	32	770	2.8	3280	10000	
C 51 2_47.8	47.8	59	800	5.2	2460	9530	29.3	800	2.6	3350	10000	
C 51 2_51.4	51.4	54	665	4.0	2550	10000	27.2	700	2.1	3390	10000	
C 51 2_57.0	57.0	49	745	4.0	2540	10000	24.6	785	2.1	3380	10000	
C 51 3_21.8	21.8	128	720	10.4	2870	6940	64	905	6.5	3500	8750	
C 51 3_23.9	23.9	117	730	9.6	2910	7230	59	920	6.1	3500	9110	
C 51 3_27.4	27.4	102	770	8.9	2890	7510	51	970	5.6	3500	9470	
C 51 3_30.1	30.1	93	780	8.2	2930	7830	47	1000	5.2	3500	9810	
C 51 3_37.0	37.0	76	840	7.2	2910	8330	38	1000	4.3	3500	10000	
C 51 3_40.5	40.5	69	855	6.7	2940	8670	35	1000	3.9	3500	10000	
C 51 3_46.7	46.7	60	905	6.1	2920	9020	30	1000	3.4	3500	10000	
C 51 3_51.2	51.2	55	920	5.7	2950	9390	27.3	1000	3.1	3500	10000	
C 51 3_59.0	59.0	47	970	5.2	2910	9780	23.7	1000	2.7	3500	10000	
C 51 3_64.6	64.6	43	1000	4.9	2940	10000	21.7	1000	2.4	3500	10000	
C 51 3_72.9	72.9	38	1000	4.3	2920	10000	19.2	1000	2.2	3500	10000	
C 51 3_79.9	79.9	35	1000	3.9	2960	10000	17.5	1000	2.0	3500	10000	
C 51 3_93.0	93.0	30	1000	3.4	2950	10000	15.1	1000	1.7	3500	10000	
C 51 3_101.8	101.8	27.5	1000	3.1	2990	10000	13.8	1000	1.5	3500	10000	
C 51 3_113.6	113.6	24.6	1000	2.8	2960	10000	12.3	1000	1.4	3500	10000	
C 51 3_124.4	124.4	22.5	1000	2.5	3000	10000	11.3	1000	1.3	3500	10000	
C 51 3_134.6	134.6	20.8	1000	2.3	2970	10000	10.4	1000	1.2	3500	10000	
C 51 3_147.4	147.4	19.0	1000	2.1	3010	10000	9.5	1000	1.1	3500	10000	
C 51 3_160.5	160.5	17.4	1000	2.0	2980	10000	8.7	1000	0.98	3500	10000	
C 51 3_175.8	175.8	15.9	1000	1.8	3020	10000	8.0	1000	0.90	3500	10000	
C 51 3_197.9	197.9	14.1	1000	1.6	2980	10000	7.1	1000	0.80	3500	10000	
C 51 3_216.7	216.7	12.9	1000	1.5	3020	10000	6.5	1000	0.73	3500	10000	
C 51 4_240.9	240.9	11.6	1000	1.3	2100	10000	5.8	1000	0.67	2200	10000	
C 51 4_263.8	263.8	10.6	1000	1.2	2120	10000	5.3	1000	0.61	2200	10000	
C 51 4_297.8	297.8	9.4	1000	1.1	2140	10000	4.7	1000	0.54	2200	10000	
C 51 4_326.1	326.1	8.6	1000	0.99	2160	10000	4.3	1000	0.49	2200	10000	
C 51 4_379.6	379.6	7.4	1000	0.85	2190	10000	3.7	1000	0.42	2200	10000	
C 51 4_415.7	415.7	6.7	1000	0.78	2200	10000	3.4	1000	0.39	2200	10000	
C 51 4_463.9	463.9	6.0	1000	0.69	2200	10000	3.0	1000	0.35	2200	10000	
C 51 4_508.0	508.0	5.5	1000	0.63	2200	10000	2.8	1000	0.32	2200	10000	
C 51 4_549.7	549.7	5.1	1000	0.59	2200	10000	2.5	1000	0.29	2200	10000	
C 51 4_602.0	602.0	4.7	1000	0.54	2200	10000	2.3	1000	0.27	2200	10000	
C 51 4_655.4	655.4	4.3	1000	0.49	2200	10000	2.1	1000	0.25	2200	10000	
C 51 4_717.7	717.7	3.9	1000	0.45	2200	10000	2.0	1000	0.22	2200	10000	
C 51 4_808.0	808.0	3.5	1000	0.40	2200	10000	1.7	1000	0.20	2200	10000	
C 51 4_884.9	884.9	3.2	1000	0.36	2200	10000	1.6	1000	0.18	2200	10000	



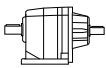
C 51 1000 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 51 2_2.6	2.6	346	400	15.3	2560	5130	192	400	8.5	3500	6620	165
C 51 2_3.3	3.3	273	420	12.6	2710	5590	152	420	7.0	3500	7200	
C 51 2_4.5	4.5	200	435	9.6	2900	6300	111	435	5.3	3500	8070	
C 51 2_5.6	5.6	161	435	7.7	3080	6970	89	435	4.3	3500	8880	
C 51 2_7.0	7.0	129	730	10.3	3310	6950	71	800	6.3	3500	8760	
C 51 2_7.8	7.8	115	740	9.4	3460	7220	64	800	5.7	3500	9140	
C 51 2_8.8	8.8	102	795	9.0	3360	7470	57	800	5.0	3500	9680	
C 51 2_9.8	9.8	92	800	8.1	3500	7790	51	800	4.5	3500	10000	
C 51 2_11.8	11.8	76	800	6.7	3500	8530	42	800	3.7	3500	10000	
C 51 2_13.1	13.1	69	800	6.1	3500	8900	38	800	3.4	3500	10000	
C 51 2_15.0	15.0	60	800	5.3	3500	9450	33	800	2.9	3500	10000	
C 51 2_16.6	16.6	54	800	4.8	3500	9850	30	800	2.7	3500	10000	
C 51 2_18.9	18.9	48	800	4.2	3500	10000	26.5	800	2.3	3500	10000	
C 51 2_21.0	21.0	43	800	3.8	3500	10000	23.8	800	2.1	3500	10000	
C 51 2_23.4	23.4	38	800	3.4	3500	10000	21.4	800	1.9	3500	10000	
C 51 2_25.9	25.9	35	800	3.1	3500	10000	19.3	800	1.7	3500	10000	
C 51 2_29.8	29.8	30	800	2.7	3500	10000	16.8	800	1.5	3500	10000	
C 51 2_33.0	33.0	27.3	800	2.4	3500	10000	15.2	800	1.3	3500	10000	
C 51 2_36.4	36.4	24.7	800	2.2	3500	10000	13.7	800	1.2	3500	10000	
C 51 2_40.4	40.4	22.3	800	2.0	3500	10000	12.4	800	1.1	3500	10000	
C 51 2_43.1	43.1	20.9	800	1.8	3500	10000	11.6	800	1.0	3500	10000	
C 51 2_47.8	47.8	18.8	800	1.7	3500	10000	10.5	800	0.92	3500	10000	
C 51 2_51.4	51.4	17.5	725	1.4	3500	10000	9.7	755	0.81	3500	10000	
C 51 2_57.0	57.0	15.8	795	1.4	3500	10000	8.8	795	0.77	3500	10000	
C 51 3_21.8	21.8	41	1000	4.6	3500	10000	22.9	1000	2.6	3500	10000	
C 51 3_23.9	23.9	38	1000	4.2	3500	10000	20.9	1000	2.4	3500	10000	
C 51 3_27.4	27.4	33	1000	3.7	3500	10000	18.2	1000	2.1	3500	10000	
C 51 3_30.1	30.1	29.9	1000	3.4	3500	10000	16.6	1000	1.9	3500	10000	
C 51 3_37.0	37.0	24.3	1000	2.7	3500	10000	13.5	1000	1.5	3500	10000	
C 51 3_40.5	40.5	22.2	1000	2.5	3500	10000	12.3	1000	1.4	3500	10000	
C 51 3_46.7	46.7	19.3	1000	2.2	3500	10000	10.7	1000	1.2	3500	10000	
C 51 3_51.2	51.2	17.6	1000	2.0	3500	10000	9.8	1000	1.1	3500	10000	
C 51 3_59.0	59.0	15.3	1000	1.7	3500	10000	8.5	1000	0.95	3500	10000	
C 51 3_64.6	64.6	13.9	1000	1.6	3500	10000	7.7	1000	0.87	3500	10000	
C 51 3_72.9	72.9	12.3	1000	1.4	3500	10000	6.9	1000	0.77	3500	10000	
C 51 3_79.9	79.9	11.3	1000	1.3	3500	10000	6.3	1000	0.70	3500	10000	
C 51 3_93.0	93.0	9.7	1000	1.1	3500	10000	5.4	1000	0.61	3500	10000	
C 51 3_101.8	101.8	8.8	1000	1.0	3500	10000	4.9	1000	0.55	3500	10000	
C 51 3_113.6	113.6	7.9	1000	0.89	3500	10000	4.4	1000	0.50	3500	10000	
C 51 3_124.4	124.4	7.2	1000	0.81	3500	10000	4.0	1000	0.45	3500	10000	
C 51 3_134.6	134.6	6.7	1000	0.75	3500	10000	3.7	1000	0.42	3500	10000	
C 51 3_147.4	147.4	6.1	1000	0.69	3500	10000	3.4	1000	0.38	3500	10000	
C 51 3_160.5	160.5	5.6	1000	0.63	3500	10000	3.1	1000	0.35	3500	10000	
C 51 3_175.8	175.8	5.1	1000	0.58	3500	10000	2.8	1000	0.32	3500	10000	
C 51 3_197.9	197.9	4.5	1000	0.51	3500	10000	2.5	1000	0.28	3500	10000	
C 51 3_216.7	216.7	4.2	1000	0.47	3500	10000	2.3	1000	0.26	3500	10000	
C 51 4_240.9	240.9	3.7	1000	0.43	2200	10000	2.1	1000	0.24	2200	10000	
C 51 4_263.8	263.8	3.4	1000	0.39	2200	10000	1.9	1000	0.22	2200	10000	
C 51 4_297.8	297.8	3.0	1000	0.35	2200	10000	1.7	1000	0.19	2200	10000	
C 51 4_326.1	326.1	2.8	1000	0.32	2200	10000	1.5	1000	0.18	2200	10000	
C 51 4_379.6	379.6	2.4	1000	0.27	2200	10000	1.3	1000	0.15	2200	10000	
C 51 4_415.7	415.7	2.2	1000	0.25	2200	10000	1.2	1000	0.14	2200	10000	
C 51 4_463.9	463.9	1.9	1000	0.22	2200	10000	1.1	1000	0.12	2200	10000	
C 51 4_508.0	508.0	1.8	1000	0.20	2200	10000	1.0	1000	0.11	2200	10000	
C 51 4_549.7	549.7	1.6	1000	0.19	2200	10000	0.91	1000	0.10	2200	10000	
C 51 4_602.0	602.0	1.5	1000	0.17	2200	10000	0.83	1000	0.10	2200	10000	
C 51 4_655.4	655.4	1.4	1000	0.16	2200	10000	0.76	1000	0.09	2200	10000	
C 51 4_717.7	717.7	1.3	1000	0.14	2200	10000	0.70	1000	0.08	2200	10000	
C 51 4_808.0	808.0	1.1	1000	0.13	2200	10000	0.62	1000	0.07	2200	10000	
C 51 4_884.9	884.9	1.0	1000	0.12	2200	10000	0.57	1000	0.07	2200	10000	

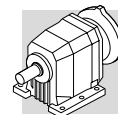


C 61

1600 Nm

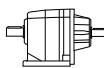
	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 61 2_2.8	2.8	1000	445	49	—	4670	500	550	30	770	5930	169
C 61 2_3.7	3.7	757	530	44	—	4950	378	575	24	1730	6600	
C 61 2_4.6	4.6	609	575	39	—	5280	304	600	20	2150	7130	
C 61 2_6.0	6.0	467	575	30	—	6000	233	625	16.1	2700	7950	
C 61 2_6.7	6.7	418	900	41	2230	5600	209	1130	26	2850	7060	
C 61 2_7.5	7.5	373	1000	41	2220	5620	187	1250	26	2900	7110	
C 61 2_8.8	8.8	318	1000	35	2290	6080	159	1250	22	2980	7690	
C 61 2_9.8	9.8	286	1100	35	2380	6140	143	1350	21	3330	7850	
C 61 2_10.9	10.9	257	1050	30	2530	6590	128	1350	19.1	2940	8210	
C 61 2_12.1	12.1	231	1150	29	2670	6670	116	1350	17.2	3600	8730	
C 61 2_14.3	14.3	196	1150	25	2450	7220	98	1350	14.6	3590	9430	
C 61 2_15.9	15.9	176	1250	24	2660	7350	88	1350	13.1	3780	9990	
C 61 2_17.7	17.7	158	1200	21	2540	7850	79	1350	11.8	3700	10400	
C 61 2_19.6	19.6	143	1300	20	2780	8000	71	1350	10.6	3890	11000	
C 61 2_22.4	22.4	125	1250	17.2	2630	8650	63	1350	9.3	3810	11600	
C 61 2_24.8	24.8	113	1350	16.8	2840	8840	56	1350	8.4	3980	12300	
C 61 2_27.4	27.4	102	1300	14.6	2600	9390	51	1350	7.6	3880	12800	
C 61 2_30.4	30.4	92	1350	13.7	2900	9770	46	1350	6.9	4050	13500	
C 61 2_34.2	34.2	82	1165	10.5	3020	10900	41	1225	5.5	4090	14500	
C 61 2_38.0	38.0	74	1280	10.4	3030	11100	37	1350	5.5	4100	14800	
C 61 3_26.8	26.8	104	1140	13.4	3740	9810	52	1435	8.4	4700	12400	
C 61 3_29.4	29.4	95	1160	12.4	3780	10200	48	1465	7.9	4700	12900	
C 61 3_33.0	33.0	85	1210	11.6	3750	10600	42	1525	7.3	4700	13300	
C 61 3_36.1	36.1	78	1235	10.8	3800	11000	39	1555	6.8	4700	13800	
C 61 3_43.4	43.4	65	1315	9.6	3760	11600	32	1600	5.8	4700	14800	
C 61 3_47.6	47.6	59	1340	8.9	3810	12100	29.4	1600	5.3	4700	15500	
C 61 3_53.5	53.5	52	1400	8.2	3760	12500	26.2	1600	4.7	4700	16000	
C 61 3_58.6	58.6	48	1430	7.7	3810	13000	23.9	1600	4.3	4700	16000	
C 61 3_67.7	67.7	41	1505	7.0	3750	13500	20.7	1600	3.7	4700	16000	
C 61 3_74.2	74.2	38	1535	6.5	3800	14100	18.9	1600	3.4	4700	16000	
C 61 3_83.0	83.0	34	1600	6.1	3740	14500	16.9	1600	3.0	4700	16000	
C 61 3_91.0	91.0	31	1600	5.5	3800	15200	15.4	1600	2.8	4700	16000	
C 61 3_103.6	103.6	27.0	1600	4.9	3760	16000	13.5	1600	2.4	4700	16000	
C 61 3_113.6	113.6	24.6	1600	4.4	3820	16000	12.3	1600	2.2	4700	16000	
C 61 3_128.1	128.1	21.9	1600	3.9	3790	16000	10.9	1600	2.0	4700	16000	
C 61 3_140.5	140.5	19.9	1600	3.6	3840	16000	10.0	1600	1.8	4700	16000	
C 61 3_150.0	150.0	18.7	1600	3.4	3800	16000	9.3	1600	1.7	4700	16000	
C 61 3_164.5	164.5	17.0	1600	3.1	3850	16000	8.5	1600	1.5	4700	16000	
C 61 3_178.6	178.6	15.7	1600	2.8	3800	16000	7.8	1600	1.4	4700	16000	
C 61 3_195.8	195.8	14.3	1600	2.6	3860	16000	7.2	1600	1.3	4700	16000	
C 61 4_217.4	217.4	12.9	1600	2.4	3020	16000	6.4	1600	1.2	3500	16000	
C 61 4_238.3	238.3	11.7	1600	2.2	3060	16000	5.9	1600	1.1	3500	16000	
C 61 4_275.3	275.3	10.2	1600	1.9	3100	16000	5.1	1600	0.94	3500	16000	
C 61 4_301.7	301.7	9.3	1600	1.7	3130	16000	4.6	1600	0.85	3500	16000	
C 61 4_337.7	337.7	8.3	1600	1.5	3160	16000	4.1	1600	0.76	3500	16000	
C 61 4_370.1	370.1	7.6	1600	1.4	3180	16000	3.8	1600	0.70	3500	16000	
C 61 4_421.5	421.5	6.6	1600	1.2	3200	16000	3.3	1600	0.61	3500	16000	
C 61 4_462.0	462.0	6.1	1600	1.1	3220	16000	3.0	1600	0.56	3500	16000	
C 61 4_521.1	521.1	5.4	1600	0.99	3240	16000	2.7	1600	0.49	3500	16000	
C 61 4_571.2	571.2	4.9	1600	0.90	3250	16000	2.5	1600	0.45	3500	16000	
C 61 4_610.1	610.1	4.6	1600	0.84	3260	16000	2.3	1600	0.42	3500	16000	
C 61 4_668.8	668.8	4.2	1600	0.77	3280	16000	2.1	1600	0.39	3500	16000	
C 61 4_726.3	726.3	3.9	1600	0.71	3290	16000	1.9	1600	0.35	3500	16000	
C 61 4_796.1	796.1	3.5	1600	0.65	3300	16000	1.8	1600	0.32	3500	16000	

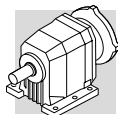
(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



C 61

1600 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 61 2_2.8	2.8	321	565	20	2840	7150	179	665	13.1	4050	8790	169
C 61 2_3.7	3.7	243	625	16.8	3000	7800	135	665	9.9	4700	9860	
C 61 2_4.6	4.6	196	665	14.3	3170	8380	109	665	8.0	4700	10760	
C 61 2_6.0	6.0	150	665	11.0	4120	9440	83	665	6.1	4700	12000	
C 61 2_6.7	6.7	134	1350	20	2850	8050	75	1350	11.1	4700	10800	
C 61 2_7.5	7.5	120	1350	17.9	4010	8560	67	1350	9.9	4700	11400	
C 61 2_8.8	8.8	102	1350	15.2	4070	9240	57	1350	8.5	4700	12200	
C 61 2_9.8	9.8	92	1350	13.7	4310	9790	51	1350	7.6	4700	12900	
C 61 2_10.9	10.9	83	1350	12.3	4270	10200	46	1350	6.8	4700	13400	
C 61 2_12.1	12.1	74	1350	11.1	4480	10800	41	1350	6.1	4700	14100	
C 61 2_14.3	14.3	63	1350	9.4	4470	11600	35	1350	5.2	4700	15100	
C 61 2_15.9	15.9	57	1350	8.4	4660	12300	31	1350	4.7	4700	15900	
C 61 2_17.7	17.7	51	1350	7.6	4580	12800	28.2	1350	4.2	4700	16000	
C 61 2_19.6	19.6	46	1350	6.8	4700	13500	25.5	1350	3.8	4700	16000	
C 61 2_22.4	22.4	40	1350	6.0	4690	14200	22.3	1350	3.3	4700	16000	
C 61 2_24.8	24.8	36	1350	5.4	4700	14900	20.2	1350	3.0	4700	16000	
C 61 2_27.4	27.4	33	1350	4.9	4700	15500	18.2	1350	2.7	4700	16000	
C 61 2_30.4	30.4	29.6	1350	4.4	4700	16000	16.4	1350	2.4	4700	16000	
C 61 2_34.2	34.2	26.3	1265	3.7	4700	16000	14.6	1325	2.1	4700	16000	
C 61 2_38.0	38.0	23.7	1350	3.5	4700	16000	13.2	1350	2.0	4700	16000	
C 61 3_26.8	26.8	34	1600	6.0	4700	14500	18.7	1600	3.4	4700	16000	
C 61 3_29.4	29.4	31	1600	5.5	4700	15200	17.0	1600	3.1	4700	16000	
C 61 3_33.0	33.0	27.3	1600	4.9	4700	15900	15.2	1600	2.7	4700	16000	
C 61 3_36.1	36.1	24.9	1600	4.5	4700	16000	13.9	1600	2.5	4700	16000	
C 61 3_43.4	43.4	20.7	1600	3.7	4700	16000	11.5	1600	2.1	4700	16000	
C 61 3_47.6	47.6	18.9	1600	3.4	4700	16000	10.5	1600	1.9	4700	16000	
C 61 3_53.5	53.5	16.8	1600	3.0	4700	16000	9.3	1600	1.7	4700	16000	
C 61 3_58.6	58.6	15.4	1600	2.8	4700	16000	8.5	1600	1.5	4700	16000	
C 61 3_67.7	67.7	13.3	1600	2.4	4700	16000	7.4	1600	1.3	4700	16000	
C 61 3_74.2	74.2	12.1	1600	2.2	4700	16000	6.7	1600	1.2	4700	16000	
C 61 3_83.0	83.0	10.8	1600	2.0	4700	16000	6.0	1600	1.1	4700	16000	
C 61 3_91.0	91.0	9.9	1600	1.8	4700	16000	5.5	1600	0.99	4700	16000	
C 61 3_103.6	103.6	8.7	1600	1.6	4700	16000	4.8	1600	0.87	4700	16000	
C 61 3_113.6	113.6	7.9	1600	1.4	4700	16000	4.4	1600	0.79	4700	16000	
C 61 3_128.1	128.1	7.0	1600	1.3	4700	16000	3.9	1600	0.70	4700	16000	
C 61 3_140.5	140.5	6.4	1600	1.2	4700	16000	3.6	1600	0.64	4700	16000	
C 61 3_150.0	150.0	6.0	1600	1.1	4700	16000	3.3	1600	0.60	4700	16000	
C 61 3_164.5	164.5	5.5	1600	0.99	4700	16000	3.0	1600	0.55	4700	16000	
C 61 3_178.6	178.6	5.0	1600	0.91	4700	16000	2.8	1600	0.50	4700	16000	
C 61 3_195.8	195.8	4.6	1600	0.83	4700	16000	2.6	1600	0.46	4700	16000	
C 61 4_217.4	217.4	4.1	1600	0.76	3500	16000	2.3	1600	0.42	3500	16000	
C 61 4_238.3	238.3	3.8	1600	0.70	3500	16000	2.1	1600	0.39	3500	16000	
C 61 4_275.3	275.3	3.3	1600	0.60	3500	16000	1.8	1600	0.33	3500	16000	
C 61 4_301.7	301.7	3.0	1600	0.55	3500	16000	1.7	1600	0.31	3500	16000	
C 61 4_337.7	337.7	2.7	1600	0.49	3500	16000	1.5	1600	0.27	3500	16000	
C 61 4_370.1	370.1	2.4	1600	0.45	3500	16000	1.4	1600	0.25	3500	16000	
C 61 4_421.5	421.5	2.1	1600	0.39	3500	16000	1.2	1600	0.22	3500	16000	
C 61 4_462.0	462.0	1.9	1600	0.36	3500	16000	1.1	1600	0.20	3500	16000	
C 61 4_521.1	521.1	1.7	1600	0.32	3500	16000	1.0	1600	0.18	3500	16000	
C 61 4_571.2	571.2	1.6	1600	0.29	3500	16000	0.88	1600	0.16	3500	16000	
C 61 4_610.1	610.1	1.5	1600	0.27	3500	16000	0.82	1600	0.15	3500	16000	
C 61 4_668.8	668.8	1.3	1600	0.25	3500	16000	0.75	1600	0.14	3500	16000	
C 61 4_726.3	726.3	1.2	1600	0.23	3500	16000	0.69	1600	0.13	3500	16000	
C 61 4_796.1	796.1	1.1	1600	0.21	3500	16000	0.63	1600	0.12	3500	16000	

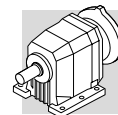


C 70

2300 Nm

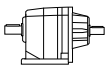
	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 70 2_4.6	4.6	613	1400	95	—	5590	306	1700	57	—	7100	172
C 70 2_5.9	5.9	479	1550	82	—	5610	239	1900	50	—	6990	
C 70 2_6.3	6.3	448	1600	79	1980	6570	224	1950	48	2630	8250	
C 70 2_7.5	7.5	375	1550	64	—	7130	188	1950	40	—	8400	
C 70 2_8.0	8.0	350	1750	68	1760	6840	175	2100	41	2670	8880	
C 70 2_9.5	9.5	294	1600	52	770	8260	147	2000	32	620	9910	
C 70 2_10.2	10.2	274	1900	57	2000	7200	137	2100	32	4470	10800	
C 70 2_11.2	11.2	250	1600	44	1130	9350	125	2000	28	1070	11300	
C 70 2_13.0	13.0	215	2050	49	1860	7700	107	2100	25	5600	12900	
C 70 2_14.1	14.1	199	1700	37	1100	10100	99	2100	23	1280	12400	
C 70 2_15.3	15.3	183	2100	42	1810	8540	91	2100	21	5860	14300	
C 70 2_16.7	16.7	168	1700	31	1570	11400	84	2050	18.9	2350	14300	
C 70 2_19.3	19.3	145	2100	34	2730	10400	73	2100	16.8	6000	16300	
C 70 2_22.9	22.9	123	2100	28	3160	11800	61	2100	14.2	6060	18000	
C 70 2_27.7	27.7	101	2100	23	3570	13400	51	2100	11.7	6120	19900	
C 70 2_34.7	34.7	81	2100	18.7	3960	15400	40	2100	9.3	6180	22200	
C 70 3_41.3	41.3	68	1900	14.5	5670	18400	34	2300	8.8	7000	22800	
C 70 3_44.7	44.7	63	1900	13.4	5700	19100	31	2300	8.1	7000	23800	
C 70 3_52.2	52.2	54	2050	12.4	5680	19600	26.8	2300	7.0	7000	25000	
C 70 3_56.5	56.5	50	2050	11.4	5710	20400	24.8	2300	6.4	7000	25000	
C 70 3_65.9	65.9	43	2200	10.5	5670	21000	21.3	2300	5.5	7000	25000	
C 70 3_71.3	71.3	39	2200	9.7	5710	21900	19.6	2300	5.1	7000	25000	
C 70 3_81.4	81.4	34	2300	8.9	5680	22700	17.2	2300	4.5	7000	25000	
C 70 3_88.2	88.2	32	2300	8.2	5710	23600	15.9	2300	4.1	7000	25000	
C 70 3_103.8	103.8	27.0	2300	7.0	5700	25000	13.5	2300	3.5	7000	25000	
C 70 3_112.4	112.4	24.9	2300	6.4	5740	25000	12.5	2300	3.2	7000	25000	
C 70 3_126.8	126.8	22.1	2300	5.7	5720	25000	11.0	2300	2.9	7000	25000	
C 70 3_137.4	137.4	20.4	2300	5.3	5750	25000	10.2	2300	2.6	7000	25000	
C 70 3_150.3	150.3	18.6	2300	4.8	5730	25000	9.3	2300	2.4	7000	25000	
C 70 3_162.8	162.8	17.2	2300	4.5	5760	25000	8.6	2300	2.2	7000	25000	
C 70 3_179.2	179.2	15.6	2300	4.0	5740	25000	7.8	2300	2.0	7000	25000	
C 70 3_194.1	194.1	14.4	2300	3.7	5770	25000	7.2	2300	1.9	7000	25000	
C 70 3_220.9	220.9	12.7	2250	3.2	5750	25000	6.3	2250	1.6	7000	25000	
C 70 3_239.3	239.3	11.7	2300	3.0	5770	25000	5.8	2300	1.5	7000	25000	
C 70 4_251.3	251.3	11.1	2300	2.9	2000	25000	5.6	2300	1.5	2620	25000	
C 70 4_272.2	272.2	10.3	2300	2.7	2030	25000	5.1	2300	1.4	2650	25000	
C 70 4_317.9	317.9	8.8	2300	2.3	2030	25000	4.4	2300	1.2	2650	25000	
C 70 4_344.3	344.3	8.1	2300	2.2	2050	25000	4.1	2300	1.1	2670	25000	
C 70 4_409.4	409.4	6.8	2300	1.8	2050	25000	3.4	2300	0.90	2670	25000	
C 70 4_443.5	443.5	6.3	2300	1.7	2070	25000	3.2	2300	0.80	2700	25000	
C 70 4_512.0	512.0	5.5	2300	1.4	2070	25000	2.7	2300	0.70	2680	25000	
C 70 4_554.7	554.7	5.0	2300	1.3	2090	25000	2.5	2300	0.70	2710	25000	
C 70 4_606.8	606.8	4.6	2300	1.2	2080	25000	2.3	2300	0.60	2700	25000	
C 70 4_657.3	657.3	4.3	2300	1.1	2100	25000	2.1	2300	0.60	2720	25000	
C 70 4_736.0	736.0	3.8	2300	1.0	2090	25000	1.9	2300	0.50	2700	25000	
C 70 4_797.3	797.3	3.5	2300	0.90	2110	25000	1.8	2300	0.50	2720	25000	
C 70 4_922.6	922.6	3.0	2300	0.80	2100	25000	1.5	2300	0.40	2710	25000	
C 70 4_999.5	999.5	2.8	2300	0.70	2110	25000	1.4	2300	0.40	2730	25000	
C 70 4_1069	1069	2.6	2300	0.70	2100	25000	1.3	2300	0.30	2720	25000	
C 70 4_1158	1158	2.4	2300	0.60	2100	25000	1.2	2300	0.30	2800	25000	
C 70 4_1362	1362	2.1	2300	0.50	2100	25000	1.0	2300	0.30	2800	25000	
C 70 4_1476	1476	1.9	2300	0.50	2100	25000	0.90	2300	0.30	2800	25000	

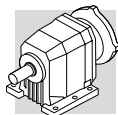
(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



C 70

2300 Nm

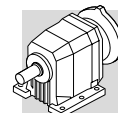
	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 70 2_4.6	4.6	197	1800	39	650	9360	109	1800	22	5500	13900	172
C 70 2_5.9	5.9	154	1950	33	560	9980	85	2150	20	2890	13400	
C 70 2_6.3	6.3	144	2100	33	4260	10400	80	2100	18.5	7000	15500	
C 70 2_7.5	7.5	121	2100	28	1120	10800	67	2150	15.9	5400	15600	
C 70 2_8.0	8.0	113	2100	26	5800	12500	63	2100	14.5	7000	17800	
C 70 2_9.5	9.5	95	2150	22	2140	12400	53	2150	12.4	6990	18100	
C 70 2_10.2	10.2	88	2100	20	6870	14600	49	2100	11.3	7000	20200	
C 70 2_11.2	11.2	80	2150	19.0	2620	14000	45	2150	10.6	7000	19800	
C 70 2_13.0	13.0	69	2100	16.0	7000	16900	38	2100	8.9	7000	22800	
C 70 2_14.1	14.1	64	2150	15.1	3900	16000	35	2150	8.4	7000	22300	
C 70 2_15.3	15.3	59	2100	13.6	7000	18400	33	2100	7.5	7000	24600	
C 70 2_16.7	16.7	54	2050	12.2	5470	18500	29.9	2050	6.8	7000	25000	
C 70 2_19.3	19.3	47	2100	10.8	7000	20700	25.9	2100	6.0	7000	25000	
C 70 2_22.9	22.9	39	2100	9.1	7000	22500	21.9	2100	5.1	7000	25000	
C 70 2_27.7	27.7	32	2100	7.5	7000	24600	18.0	2100	4.2	7000	25000	
C 70 2_34.7	34.7	25.9	2100	6.0	7000	25000	14.4	2100	3.3	7000	25000	
C 70 3_41.3	41.3	21.8	2300	5.6	7000	25000	12.1	2300	3.1	7000	25000	
C 70 3_44.7	44.7	20.1	2300	5.2	7000	25000	11.2	2300	2.9	7000	25000	
C 70 3_52.2	52.2	17.3	2300	4.5	7000	25000	9.6	2300	2.5	7000	25000	
C 70 3_56.5	56.5	15.9	2300	4.1	7000	25000	8.8	2300	2.3	7000	25000	
C 70 3_65.9	65.9	13.7	2300	3.5	7000	25000	7.6	2300	2.0	7000	25000	
C 70 3_71.3	71.3	12.6	2300	3.3	7000	25000	7.0	2300	1.8	7000	25000	
C 70 3_81.4	81.4	11.1	2300	2.9	7000	25000	6.1	2300	1.6	7000	25000	
C 70 3_88.2	88.2	10.2	2300	2.6	7000	25000	5.7	2300	1.5	7000	25000	
C 70 3_103.8	103.8	8.7	2300	2.2	7000	25000	4.8	2300	1.2	7000	25000	
C 70 3_112.4	112.4	8.0	2300	2.1	7000	25000	4.4	2300	1.2	7000	25000	
C 70 3_126.8	126.8	7.1	2300	1.8	7000	25000	3.9	2300	1.0	7000	25000	
C 70 3_137.4	137.4	6.6	2300	1.7	7000	25000	3.6	2300	0.90	7000	25000	
C 70 3_150.3	150.3	6.0	2300	1.6	7000	25000	3.3	2300	0.90	7000	25000	
C 70 3_162.8	162.8	5.5	2300	1.4	7000	25000	3.1	2300	0.80	7000	25000	
C 70 3_179.2	179.2	5.0	2300	1.3	7000	25000	2.8	2300	0.70	7000	25000	
C 70 3_194.1	194.1	4.6	2300	1.2	7000	25000	2.6	2300	0.70	7000	25000	
C 70 3_220.9	220.9	4.1	2250	1.0	7000	25000	2.3	2250	0.60	7000	25000	
C 70 3_239.3	239.3	3.8	2300	1.0	7000	25000	2.1	2300	0.50	7000	25000	
C 70 4_251.3	251.3	3.6	2300	0.90	2000	25000	2.0	2300	0.50	2620	25000	
C 70 4_272.2	272.2	3.3	2300	0.90	2030	25000	1.8	2300	0.50	2650	25000	
C 70 4_317.9	317.9	2.8	2300	0.70	2030	25000	1.6	2300	0.40	2650	25000	
C 70 4_344.3	344.3	2.6	2300	0.70	2050	25000	1.5	2300	0.40	2670	25000	
C 70 4_409.4	409.4	2.2	2300	0.60	2050	25000	1.2	2300	0.30	2670	25000	
C 70 4_443.5	443.5	2.0	2300	0.50	2070	25000	1.1	2300	0.30	2700	25000	
C 70 4_512.0	512.0	1.8	2300	0.50	2070	25000	1.0	2300	0.30	2680	25000	
C 70 4_554.7	554.7	1.6	2300	0.40	2090	25000	0.90	2300	0.20	2710	25000	
C 70 4_606.8	606.8	1.5	2300	0.40	2080	25000	0.80	2300	0.20	2700	25000	
C 70 4_657.3	657.3	1.4	2300	0.40	2100	25000	0.80	2300	0.20	2720	25000	
C 70 4_736.0	736.0	1.2	2300	0.30	2090	25000	0.70	2300	0.20	2700	25000	
C 70 4_797.3	797.3	1.1	2300	0.30	2110	25000	0.60	2300	0.20	2720	25000	
C 70 4_922.6	922.6	1.0	2300	0.30	2100	25000	0.50	2300	0.10	2710	25000	
C 70 4_999.5	999.5	0.90	2300	0.20	2110	25000	0.50	2300	0.10	2730	25000	
C 70 4_1069	1069	0.80	2300	0.20	2100	25000	0.50	2300	0.10	2720	25000	
C 70 4_1158	1158	0.80	2300	0.20	2100	25000	0.40	2300	0.10	2800	25000	
C 70 4_1362	1362	0.70	2300	0.20	2100	25000	0.40	2300	0.10	2800	25000	
C 70 4_1476	1476	0.60	2300	0.20	2100	25000	0.30	2300	0.10	2800	25000	



C 80

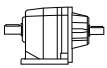
4000 Nm

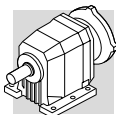
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		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 80 2_5.6	5.6	496	2400	131	370	10900	248	3100	85	690	12300	175
C 80 2_6.1	6.1	458	2450	124	890	11000	229	3150	80	1380	12700	
C 80 2_7.0	7.0	398	2650	116	350	11000	199	3350	73	910	12900	
C 80 2_7.6	7.6	367	2700	109	890	11300	183	3400	69	1600	13300	
C 80 2_8.9	8.9	316	2800	98	420	12100	158	3500	61	1120	14500	
C 80 2_9.6	9.6	292	3000	96	520	11300	146	3700	59	1380	13900	
C 80 2_11.1	11.1	252	2800	78	1110	14200	126	3500	49	1950	17100	
C 80 2_12.0	12.0	233	3000	77	1200	13500	116	3700	48	2190	16600	
C 80 2_13.8	13.8	203	2800	63	1420	16400	102	3500	39	2330	19800	
C 80 2_14.9	14.9	188	3000	62	1510	15800	94	3700	38	2560	19300	
C 80 2_16.7	16.7	168	2800	52	1840	18500	84	3500	32	2840	22300	
C 80 2_18.1	18.1	155	3000	50	1930	17900	78	3700	32	3060	22000	
C 80 2_20.5	20.5	136	2850	43	2000	20500	68	3550	27	3060	24800	
C 80 2_22.2	22.2	126	3000	42	2210	20300	63	3700	26	3400	24900	
C 80 2_24.0	24.0	117	2850	37	2090	22400	58	3550	23	3180	27000	
C 80 2_25.9	25.9	108	3000	36	2300	22300	54	3700	22	3510	27200	
C 80 2_31.3	31.3	89	3000	30	2480	24700	45	3700	18.2	3730	30000	
C 80 2_39.1	39.1	72	2500	19.7	3820	31000	36	3200	12.6	5060	35000	
C 80 3_43.5	43.5	64	3100	23	5610	28700	32	3800	13.8	7000	34800	
C 80 3_47.4	47.4	59	3100	21	5660	30000	29.5	3800	12.6	7000	35000	
C 80 3_57.3	57.3	49	3400	18.7	5620	30500	24.4	4000	11.0	7000	35000	
C 80 3_62.5	62.5	45	3400	17.1	5670	31800	22.4	4000	10.1	7000	35000	
C 80 3_70.5	70.5	40	3650	16.3	5620	32200	19.9	4000	8.9	7000	35000	
C 80 3_76.9	76.9	36	3600	14.8	5670	33900	18.2	4000	8.2	7000	35000	
C 80 3_89.3	89.3	31	3900	13.8	5620	34700	15.7	4000	7.1	7000	35000	
C 80 3_97.4	97.4	28.7	3900	12.6	5670	35000	14.4	4000	6.5	7000	35000	
C 80 3_109.5	109.5	25.5	4000	11.5	5630	35000	12.8	4000	5.8	7000	35000	
C 80 3_119.5	119.5	23.4	4000	10.6	5680	35000	11.7	4000	5.3	7000	35000	
C 80 3_136.7	136.7	20.5	4000	9.2	5660	35000	10.2	4000	4.6	7000	35000	
C 80 3_149.1	149.1	18.8	4000	8.5	5700	35000	9.4	4000	4.2	7000	35000	
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C 80 3_184.4	184.4	15.2	4000	6.8	5720	35000	7.6	4000	3.4	7000	35000	
C 80 3_197.9	197.9	14.2	3800	6.1	5710	35000	7.1	3800	3.0	7000	35000	
C 80 3_215.8	215.8	13.0	4000	5.8	5730	35000	6.5	4000	2.9	7000	35000	
C 80 4_261.9	261.9	10.7	4000	4.9	1850	35000	5.3	4000	2.5	2470	35000	
C 80 4_285.7	285.7	9.8	4000	4.5	1890	35000	4.9	4000	2.3	2510	35000	
C 80 4_334.3	334.3	8.4	4000	3.9	1880	35000	4.2	4000	1.9	2500	35000	
C 80 4_364.7	364.7	7.7	4000	3.5	1920	35000	3.8	4000	1.8	2540	35000	
C 80 4_417.5	417.5	6.7	4000	3.1	1910	35000	3.4	4000	1.5	2530	35000	
C 80 4_455.4	455.4	6.1	4000	2.8	1950	35000	3.1	4000	1.4	2570	35000	
C 80 4_529.3	529.3	5.3	4000	2.4	1940	35000	2.6	4000	1.2	2550	35000	
C 80 4_577.4	577.4	4.8	4000	2.2	1970	35000	2.4	4000	1.1	2590	35000	
C 80 4_664.3	664.3	4.2	4000	1.9	1960	35000	2.1	4000	1.0	2570	35000	
C 80 4_724.7	724.7	3.9	4000	1.8	1990	35000	1.9	4000	0.90	2610	35000	
C 80 4_783.4	783.4	3.6	4000	1.6	1970	35000	1.8	4000	0.80	2590	35000	
C 80 4_854.6	854.6	3.3	4000	1.5	2000	35000	1.6	4000	0.80	2620	35000	
C 80 4_945.7	945.7	3.0	4000	1.4	1980	35000	1.5	4000	0.70	2600	35000	
C 80 4_1032	1032	2.7	4000	1.2	2010	35000	1.4	4000	0.60	2630	35000	
C 80 4_1168	1168	2.4	4000	1.1	1980	35000	1.2	4000	0.60	2600	35000	
C 80 4_1274	1274	2.2	4000	1.0	2020	35000	1.1	4000	0.50	2640	35000	
C 80 4_1358	1358	2.1	4000	0.90	1990	35000	1.0	4000	0.50	2610	35000	
C 80 4_1481	1481	1.9	4000	0.90	2030	35000	0.90	4000	0.40	2640	35000	



C 80

4000 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 80 2_5.6	5.6	160	3500	62	1480	14400	89	3500	34	4970	21600	175
C 80 2_6.1	6.1	147	3600	58	2100	14400	82	3700	33	5270	21200	
C 80 2_7.0	7.0	128	3500	49	2630	17000	71	3500	27	6130	24600	
C 80 2_7.6	7.6	118	3650	47	3060	16800	66	3650	26	6550	24600	
C 80 2_8.9	8.9	102	3500	39	3330	19900	56	3500	22	6800	27800	
C 80 2_9.6	9.6	94	3700	38	3590	19400	52	3700	21	7000	27700	
C 80 2_11.1	11.1	81	3500	31	4160	22800	45	3500	17.4	7000	31200	
C 80 2_12.0	12.0	75	3700	31	4400	22500	42	3700	17.0	7000	31200	
C 80 2_13.8	13.8	65	3500	25	4540	25700	36	3500	14.0	7000	34700	
C 80 2_14.9	14.9	60	3700	25	4770	25500	34	3700	13.7	7000	34700	
C 80 2_16.7	16.7	54	3500	21	5050	28500	30	3500	11.6	7000	35000	
C 80 2_18.1	18.1	50	3700	20	5280	28400	27.7	3700	11.3	7000	35000	
C 80 2_20.5	20.5	44	3550	17.2	5270	31400	24.4	3550	9.5	7000	35000	
C 80 2_22.2	22.2	40	3700	16.5	5610	31600	22.5	3700	9.2	7000	35000	
C 80 2_24.0	24.0	38	3550	14.7	5390	33800	20.9	3550	8.2	7000	35000	
C 80 2_25.9	25.9	35	3700	14.1	5730	34200	19.3	3700	7.9	7000	35000	
C 80 2_31.3	31.3	28.7	3700	11.7	5940	35000	16.0	3700	6.5	7000	35000	
C 80 2_39.1	39.1	23.0	3200	8.1	7000	35000	12.8	3200	4.5	7000	35000	
C 80 3_43.5	43.5	20.7	4000	9.3	7000	35000	11.5	4000	5.2	7000	35000	
C 80 3_47.4	47.4	19.0	4000	8.5	7000	35000	10.5	4000	4.7	7000	35000	
C 80 3_57.3	57.3	15.7	4000	7.1	7000	35000	8.7	4000	3.9	7000	35000	
C 80 3_62.5	62.5	14.4	4000	6.5	7000	35000	8.0	4000	3.6	7000	35000	
C 80 3_70.5	70.5	12.8	4000	5.7	7000	35000	7.1	4000	3.2	7000	35000	
C 80 3_76.9	76.9	11.7	4000	5.3	7000	35000	6.5	4000	2.9	7000	35000	
C 80 3_89.3	89.3	10.1	4000	4.5	7000	35000	5.6	4000	2.5	7000	35000	
C 80 3_97.4	97.4	9.2	4000	4.2	7000	35000	5.1	4000	2.3	7000	35000	
C 80 3_109.5	109.5	8.2	4000	3.7	7000	35000	4.6	4000	2.1	7000	35000	
C 80 3_119.5	119.5	7.5	4000	3.4	7000	35000	4.2	4000	1.9	7000	35000	
C 80 3_136.7	136.7	6.6	4000	3.0	7000	35000	3.7	4000	1.6	7000	35000	
C 80 3_149.1	149.1	6.0	4000	2.7	7000	35000	3.4	4000	1.5	7000	35000	
C 80 3_169.0	169.0	5.3	4000	2.4	7000	35000	3.0	4000	1.3	7000	35000	
C 80 3_184.4	184.4	4.9	4000	2.2	7000	35000	2.7	4000	1.2	7000	35000	
C 80 3_197.9	197.9	4.5	3800	1.9	7000	35000	2.5	3800	1.1	7000	35000	
C 80 3_215.8	215.8	4.2	4000	1.9	7000	35000	2.3	4000	1.0	7000	35000	
C 80 4_261.9	261.9	3.4	4000	1.6	2950	35000	1.9	4000	0.90	3500	35000	
C 80 4_285.7	285.7	3.2	4000	1.4	2990	35000	1.8	4000	0.80	3500	35000	
C 80 4_334.3	334.3	2.7	4000	1.2	2980	35000	1.5	4000	0.70	3500	35000	
C 80 4_364.7	364.7	2.5	4000	1.1	3020	35000	1.4	4000	0.60	3500	35000	
C 80 4_417.5	417.5	2.2	4000	1.0	3000	35000	1.2	4000	0.60	3500	35000	
C 80 4_455.4	455.4	2.0	4000	0.90	3050	35000	1.1	4000	0.50	3500	35000	
C 80 4_529.3	529.3	1.7	4000	0.80	3030	35000	0.90	4000	0.40	3500	35000	
C 80 4_577.4	577.4	1.6	4000	0.70	3070	35000	0.90	4000	0.40	3500	35000	
C 80 4_664.3	664.3	1.4	4000	0.60	3050	35000	0.80	4000	0.30	3500	35000	
C 80 4_724.7	724.7	1.2	4000	0.60	3090	35000	0.70	4000	0.30	3500	35000	
C 80 4_783.4	783.4	1.1	4000	0.50	3060	35000	0.60	4000	0.30	3500	35000	
C 80 4_854.6	854.6	1.1	4000	0.50	3100	35000	0.60	4000	0.30	3500	35000	
C 80 4_945.7	945.7	1.0	4000	0.40	3070	35000	0.50	4000	0.20	3500	35000	
C 80 4_1032	1032	0.90	4000	0.40	3110	35000	0.50	4000	0.20	3500	35000	
C 80 4_1168	1168	0.80	4000	0.40	3080	35000	0.40	4000	0.20	3500	35000	
C 80 4_1274	1274	0.70	4000	0.30	3110	35000	0.40	4000	0.20	3500	35000	
C 80 4_1358	1358	0.70	4000	0.30	3090	35000	0.40	4000	0.20	3500	35000	
C 80 4_1481	1481	0.60	4000	0.30	3120	35000	0.30	4000	0.20	3500	35000	

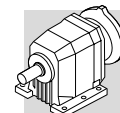


C 90

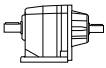
7200 Nm

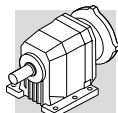
	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 90 2_5.2	5.2	542	3500	209	1700	12800	271	4300	128	2170	15800	178
C 90 2_5.6	5.6	500	3600	198	3240	12800	250	4400	121	4250	16000	
C 90 2_6.8	6.8	414	3850	176	1860	13400	207	4750	108	2210	16400	
C 90 2_7.3	7.3	383	3950	167	3470	13500	191	4850	102	4360	16700	
C 90 2_8.3	8.3	336	4150	154	2010	13800	168	5100	94	2540	17100	
C 90 2_9.0	9.0	310	4250	145	3660	14000	155	5200	89	4720	17500	
C 90 2_10.4	10.4	270	4500	134	990	14200	135	5550	83	1150	17400	
C 90 2_11.2	11.2	249	4600	126	2750	14400	125	5650	78	3460	17800	
C 90 2_12.8	12.8	219	4850	117	580	14700	109	5950	72	840	18200	
C 90 2_13.9	13.9	202	4900	109	2700	15300	101	6050	67	3220	18700	
C 90 2_16.0	16.0	175	5050	98	690	16800	88	6200	60	950	20800	
C 90 2_17.3	17.3	162	5300	94	1670	15900	81	6500	58	2200	19800	
C 90 2_18.7	18.7	150	5050	83	1140	19600	75	6200	51	1500	24300	
C 90 2_20.2	20.2	138	5400	82	1540	17900	69	6600	50	2160	22500	
C 90 2_22.9	22.9	122	5050	68	2110	22400	61	6200	42	2700	27600	
C 90 2_24.8	24.8	113	5400	67	2500	21900	56	6600	41	3340	27300	
C 90 2_27.2	27.2	103	4500	51	6160	26000	52	5500	31	7820	32200	
C 90 2_29.4	29.4	95	4800	50	6560	26000	48	5900	31	8130	32000	
C 90 2_35.1	35.1	80	4400	39	8090	29400	40	5400	24	11100	36300	
C 90 3_39.4	39.4	71	6350	51	10800	23900	36	7100	28	13700	32900	
C 90 3_43.0	43.0	65	6500	48	10800	24700	33	7200	26	13800	34000	
C 90 3_50.3	50.3	56	6800	43	10800	26000	27.8	7100	22	13800	37000	
C 90 3_54.9	54.9	51	7000	40	10900	26500	25.5	7200	21	13900	38300	
C 90 3_59.2	59.2	47	7100	38	10800	27700	23.6	7100	18.9	13900	40000	
C 90 3_64.6	64.6	43	7200	35	10900	29100	21.7	7200	17.6	14000	41300	
C 90 3_74.4	74.4	38	7100	30	10900	31900	18.8	7100	15.0	14000	44400	
C 90 3_81.2	81.2	34	7200	28	10900	33000	17.2	7200	14.0	14100	45900	
C 90 3_88.2	88.2	32	7100	25	11000	34800	15.9	7100	12.7	14000	47900	
C 90 3_96.2	96.2	29.1	7200	24	11000	35900	14.5	7200	11.8	14100	49400	
C 90 3_107.0	107.0	26.2	7100	21	11000	38100	13.1	7100	10.5	14100	52100	
C 90 3_116.7	116.7	24.0	7200	19.4	11000	39400	12.0	7200	9.7	14100	53700	
C 90 3_134.1	134.1	20.9	7100	16.7	11000	42400	10.4	7100	8.3	14100	57300	
C 90 3_146.3	146.3	19.1	7200	15.5	11000	43800	9.6	7200	7.8	14200	59000	
C 90 3_157.8	157.8	17.7	7100	14.2	11000	45600	8.9	7100	7.1	14100	60000	
C 90 3_172.1	172.1	16.3	7200	13.2	11000	47100	8.1	7200	6.6	14200	60000	
C 90 4_212.4	212.4	13.2	7200	10.9	—	60000	6.6	7200	5.5	1180	60000	
C 90 4_231.7	231.7	12.1	7200	10.0	—	60000	6.0	7200	5.0	1560	60000	
C 90 4_268.5	268.5	10.4	7200	8.6	—	60000	5.2	7200	4.3	1540	60000	
C 90 4_292.9	292.9	9.6	7200	7.9	—	60000	4.8	7200	4.0	1880	60000	
C 90 4_339.0	339.0	8.3	7200	6.8	—	60000	4.1	7200	3.4	1720	60000	
C 90 4_369.8	369.8	7.6	7200	6.3	—	60000	3.8	7200	3.1	2050	60000	
C 90 4_419.0	419.0	6.7	7200	5.5	—	60000	3.3	7200	2.8	1890	60000	
C 90 4_457.1	457.1	6.1	7200	5.1	—	60000	3.1	7200	2.5	2210	60000	
C 90 4_534.2	534.2	5.2	7200	4.3	—	60000	2.6	7200	2.2	2090	60000	
C 90 4_582.8	582.8	4.8	7200	4.0	—	60000	2.4	7200	2.0	2270	60000	
C 90 4_652.8	652.8	4.3	7200	3.6	—	60000	2.1	7200	1.8	2160	60000	
C 90 4_712.2	712.2	3.9	7200	3.3	—	60000	2.0	7200	1.6	2290	60000	
C 90 4_773.6	773.6	3.3	7200	3.0	—	60000	1.8	7200	1.5	2250	60000	
C 90 4_844.0	844.0	3.0	7200	2.7	—	60000	1.7	7200	1.4	2310	60000	
C 90 4_922.3	922.3	2.8	7200	2.5	—	60000	1.5	7200	1.3	2260	60000	
C 90 4_1006	1006	2.5	7200	2.3	—	60000	1.4	7200	1.2	2320	60000	
C 90 4_1137	1137	2.3	7200	2.0	—	60000	1.2	7200	1.0	2270	60000	
C 90 4_1240	1240	2.2	7200	1.9	—	60000	1.1	7200	0.90	2230	60000	

(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



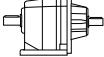
C 90 7200 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 90 2_5.2	5.2	174	4900	94	2560	18200	97	5850	62	3010	21600	178
C 90 2_5.6	5.6	161	5050	89	4640	18100	89	6000	59	5720	21800	
C 90 2_6.8	6.8	133	5450	80	2310	18500	74	6200	51	5130	24600	
C 90 2_7.3	7.3	123	5550	75	4890	18900	68	6550	49	6340	23200	
C 90 2_8.3	8.3	108	5850	70	2700	19300	60	6200	41	8870	27800	
C 90 2_9.0	9.0	100	5950	65	5300	19800	55	6600	40	9660	27600	
C 90 2_10.4	10.4	87	6200	59	2250	21000	48	6200	33	11000	31000	
C 90 2_11.2	11.2	80	6450	57	3960	20400	45	6600	32	11700	30800	
C 90 2_12.8	12.8	70	6250	48	4500	25300	39	6250	27	13200	34100	
C 90 2_13.9	13.9	65	6550	47	5830	24400	36	6550	26	14600	34300	
C 90 2_16.0	16.0	56	6200	38	6570	28700	31	6200	21	15000	38000	
C 90 2_17.3	17.3	52	6550	38	7530	28600	28.9	6550	21	15000	38100	
C 90 2_18.7	18.7	48	6200	33	7120	31000	26.7	6200	18.3	15000	40700	
C 90 2_20.2	20.2	44	6600	32	7780	30800	24.8	6600	18.0	15000	40700	
C 90 2_22.9	22.9	39	6200	27	8310	34200	21.8	6200	14.9	15000	44500	
C 90 2_24.8	24.8	36	6600	26	8950	34100	20.2	6600	14.6	15000	44600	
C 90 2_27.2	27.2	33	5500	20	13400	39200	18.4	5500	11.2	15000	50000	
C 90 2_29.4	29.4	31	5900	19.9	13700	39100	17.0	5900	11.0	15000	50200	
C 90 2_35.1	35.1	25.6	5400	15.3	14100	43800	14.2	5400	8.5	15000	55500	
C 90 3_39.4	39.4	22.8	7100	18.3	15000	40600	12.7	7100	10.1	15000	40600	
C 90 3_43.0	43.0	20.9	7200	17.0	15000	42000	11.6	7200	9.4	15000	42000	
C 90 3_50.3	50.3	17.9	7100	14.3	15000	45400	9.9	7100	7.9	15000	45400	
C 90 3_54.9	54.9	16.4	7200	13.3	15000	46900	9.1	7200	7.4	15000	46900	
C 90 3_59.2	59.2	15.2	7100	12.2	15000	48800	8.4	7100	6.8	15000	48800	
C 90 3_64.6	64.6	13.9	7200	11.3	15000	50400	7.7	7200	6.3	15000	50400	
C 90 3_74.4	74.4	12.1	7100	9.7	15000	53800	6.7	7100	5.4	15000	53800	
C 90 3_81.2	81.2	11.1	7200	9.0	15000	55500	6.2	7200	5.0	15000	55500	
C 90 3_88.2	88.2	10.2	7100	8.2	15000	57800	5.7	7100	4.5	15000	57800	
C 90 3_96.2	96.2	9.4	7200	7.6	15000	59600	5.2	7200	4.2	15000	59600	
C 90 3_107.0	107.0	8.4	7100	6.7	15000	60000	4.7	7100	3.7	15000	60000	
C 90 3_116.7	116.7	7.7	7200	6.3	15000	60000	4.3	7200	3.5	15000	60000	
C 90 3_134.1	134.1	6.7	7100	5.4	15000	60000	3.7	7100	3.0	15000	60000	
C 90 3_146.3	146.3	6.2	7200	5.0	15000	60000	3.4	7200	2.8	15000	60000	
C 90 3_157.8	157.8	5.7	7100	4.6	15000	60000	3.2	7100	2.5	15000	60000	
C 90 3_172.1	172.1	5.2	7200	4.2	15000	60000	2.9	7200	2.4	15000	60000	
C 90 4_212.4	212.4	4.2	7200	3.5	2090	60000	2.4	7200	2.0	3210	60000	
C 90 4_231.7	231.7	3.9	7200	3.2	2460	60000	2.2	7200	1.8	3290	60000	
C 90 4_268.5	268.5	3.4	7200	2.8	2440	60000	1.9	7200	1.5	3300	60000	
C 90 4_292.9	292.9	3.1	7200	2.5	2620	60000	1.7	7200	1.4	3370	60000	
C 90 4_339.0	339.0	2.7	7200	2.2	2590	60000	1.5	7200	1.2	3340	60000	
C 90 4_369.8	369.8	2.4	7200	2.0	2660	60000	1.4	7200	1.1	3420	60000	
C 90 4_419.0	419.0	2.1	7200	1.8	2630	60000	1.2	7200	1.0	3390	60000	
C 90 4_457.1	457.1	2.0	7200	1.6	2700	60000	1.1	7200	0.90	3460	60000	
C 90 4_534.2	534.2	1.7	7200	1.4	2680	60000	0.90	7200	0.80	3380	60000	
C 90 4_582.8	582.8	1.5	7200	1.3	2750	60000	0.90	7200	0.70	3500	60000	
C 90 4_652.8	652.8	1.4	7200	1.1	2700	60000	0.80	7200	0.60	3450	60000	
C 90 4_712.2	712.2	1.3	7200	1.0	2760	60000	0.70	7200	0.60	3500	60000	
C 90 4_773.6	773.6	1.2	7200	1.0	2720	60000	0.60	7200	0.50	3480	60000	
C 90 4_844.0	844.0	1.1	7200	0.90	2790	60000	0.60	7200	0.50	3500	60000	
C 90 4_922.3	922.3	1.0	7200	0.80	2730	60000	0.50	7200	0.40	3490	60000	
C 90 4_1006	1006	0.90	7200	0.70	2800	60000	0.50	7200	0.40	3500	60000	
C 90 4_1137	1137	0.80	7200	0.70	2740	60000	0.40	7200	0.40	3500	60000	
C 90 4_1240	1240	0.70	7200	0.60	2800	60000	0.40	7200	0.30	3500	60000	

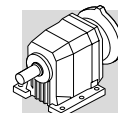


C 100

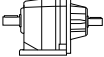
12000 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 100 2_4.9	4.9	569	5500	345	1900	20600	285	6800	213	3790	25300	181
C 100 2_5.3	5.3	525	5650	327	2790	21000	263	6950	201	4940	25800	
C 100 2_6.5	6.5	429	6150	291	1920	21800	215	7550	179	3950	27000	
C 100 2_7.1	7.1	396	6200	271	3100	22700	198	7650	167	5270	27900	
C 100 2_8.4	8.4	335	6700	248	1870	22800	168	8200	152	3970	28500	
C 100 2_9.0	9.0	309	6800	232	2950	23500	155	8350	142	5190	29200	
C 100 2_10.1	10.1	278	7100	217	1930	24100	139	8750	134	3900	29500	
C 100 2_10.9	10.9	256	7100	200	3240	25700	128	8750	124	5460	31600	
C 100 2_12.5	12.5	225	7650	190	1360	24900	112	9400	117	3260	30800	
C 100 2_13.5	13.5	208	7700	176	2600	26300	104	9500	109	4680	32100	
C 100 2_15.2	15.2	184	8100	164	1270	26600	92	10000	101	2680	32500	
C 100 2_16.5	16.5	170	8250	154	2320	27200	85	10150	95	4420	33600	
C 100 2_18.7	18.7	150	8200	136	1500	30800	75	10000	83	3600	38000	
C 100 2_20.2	20.2	138	8100	124	3047	32200	69	10000	76	5210	39600	
C 100 2_22.2	22.2	126	7500	104	3570	35800	63	9200	64	5960	44100	
C 100 2_24.1	24.1	116	8100	104	3620	35200	58	10000	64	5900	43300	
C 100 2_29.6	29.6	95	6900	72	6380	42400	47	8500	44	9220	52200	
C 100 3_34.3	34.3	82	10350	95	9790	33300	41	11700	54	13000	46400	
C 100 3_36.9	36.9	76	10650	91	10200	34500	38	11800	50	13100	48000	
C 100 3_42.9	42.9	65	11350	83	9640	33200	33	12000	44	13100	51200	
C 100 3_46.2	46.2	61	11700	80	10100	33100	30	12000	41	13300	53100	
C 100 3_53.3	53.3	53	12000	71	9450	36400	26.3	12000	36	13200	56900	
C 100 3_57.4	57.4	49	12000	66	10200	39500	24.4	12000	33	13400	59000	
C 100 3_64.5	64.5	43	12000	59	9950	44100	21.7	12000	29	13400	62300	
C 100 3_69.4	69.4	40	12000	54	10400	45900	20.2	12000	27	13500	64500	
C 100 3_79.4	79.4	35	12000	48	10300	49200	17.6	12000	24	13500	68600	
C 100 3_85.6	85.6	33	12000	44	10400	51100	16.4	12000	22	13600	70900	
C 100 3_92.7	92.7	30	12000	41	10400	53200	15.1	12000	20	13500	73500	
C 100 3_99.8	99.8	28.1	12000	38	10500	55200	14.0	12000	19.0	13600	75900	
C 100 3_111.9	111.9	25.0	12000	34	10400	58300	12.5	12000	16.9	13500	79800	
C 100 3_120.5	120.5	23.2	12000	31	10500	60400	11.6	12000	15.7	13700	82400	
C 100 3_139.7	139.7	20.0	11050	25	10600	67400	10.0	11050	12.5	13700	85000	
C 100 3_150.4	150.4	18.6	12000	25	10600	66900	9.3	12000	12.6	13700	85000	
C 100 4_162.1	162.1	17.3	12000	24	—	85000	8.6	12000	11.9	—	85000	
C 100 4_185.4	185.4	15.1	12000	21	—	85000	7.6	12000	10.4	—	85000	
C 100 4_199.6	199.6	14.0	12000	19.4	—	85000	7.0	12000	9.7	—	85000	
C 100 4_244.2	244.2	11.5	12000	15.8	—	85000	5.7	12000	7.9	—	85000	
C 100 4_263.0	263.0	10.6	12000	14.7	—	85000	5.3	12000	7.4	—	85000	
C 100 4_300.5	300.5	9.3	12000	12.9	—	85000	4.7	12000	6.4	—	85000	
C 100 4_323.6	323.6	8.7	12000	11.9	—	85000	4.3	12000	6.0	—	85000	
C 100 4_380.5	380.5	7.4	12000	10.2	—	85000	3.7	12000	5.1	—	85000	
C 100 4_409.8	409.8	6.8	12000	9.4	—	85000	3.4	12000	4.7	—	85000	
C 100 4_466.7	466.7	6.0	12000	8.3	—	85000	3.0	12000	4.1	—	85000	
C 100 4_502.6	502.6	5.6	12000	7.7	—	85000	2.8	12000	3.8	—	85000	
C 100 4_582.6	582.6	4.8	12000	6.6	—	85000	2.4	12000	3.3	—	85000	
C 100 4_627.4	627.4	4.5	12000	6.2	—	85000	2.2	12000	3.1	—	85000	
C 100 4_720.3	720.3	3.9	12000	5.4	—	85000	1.9	12000	2.7	—	85000	
C 100 4_775.7	775.7	3.6	12000	5.0	—	85000	1.8	12000	2.5	—	85000	
C 100 4_843.3	843.3	3.3	12000	4.6	—	85000	1.7	12000	2.3	—	85000	
C 100 4_908.2	908.2	3.1	12000	4.3	—	85000	1.5	12000	2.1	830	85000	
C 100 4_1004	1004	2.8	12000	3.9	—	85000	1.4	12000	1.9	—	85000	
C 100 4_1081	1081	2.6	12000	3.6	—	85000	1.3	12000	1.8	870	85000	

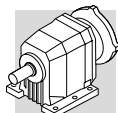
(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



C 100 12000 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 100 2_4.9	4.9	183	7800	157	5310	28800	102	9300	104	6720	34400	181
C 100 2_5.3	5.3	169	7950	148	6680	29500	94	9450	98	9740	35200	
C 100 2_6.5	6.5	138	8600	131	5670	31000	77	10250	87	7540	37000	
C 100 2_7.1	7.1	127	8750	123	7050	31800	71	10450	81	10100	37800	
C 100 2_8.4	8.4	108	9350	111	5670	32600	60	10950	72	8530	40100	
C 100 2_9.0	9.0	99	9500	104	7080	33600	55	11350	69	10100	39900	
C 100 2_10.1	10.1	89	10000	98	5540	33600	50	10900	60	10600	44500	
C 100 2_10.9	10.9	82	10150	92	6980	34700	46	11500	58	11300	44300	
C 100 2_12.5	12.5	72	10700	85	3910	35400	40	10850	48	11700	49600	
C 100 2_13.5	13.5	67	10850	80	6440	36700	37	11450	47	12300	49500	
C 100 2_15.2	15.2	59	10800	70	5940	40800	33	10800	39	13000	54700	
C 100 2_16.5	16.5	55	11500	69	6320	39100	30	11500	38	13400	54500	
C 100 2_18.7	18.7	48	10900	58	6310	45100	26.8	10900	32	13400	59800	
C 100 2_20.2	20.2	45	11500	56	6890	45000	24.7	11500	31	14000	60100	
C 100 2_22.2	22.2	40	9850	44	9170	52200	22.5	9850	24	15000	67800	
C 100 2_24.1	24.1	37	10800	44	8930	51200	20.7	10800	25	15000	67200	
C 100 2_29.6	29.6	30	9100	31	12600	61400	16.9	9100	17.0	15000	78300	
C 100 3_34.3	34.3	26.2	11700	35	15000	57800	14.6	11700	19.2	15000	75500	
C 100 3_36.9	36.9	24.4	11800	32	15000	59600	13.5	11800	18.0	15000	77700	
C 100 3_42.9	42.9	21.0	12000	28	15000	63400	11.6	12000	15.7	15000	82300	
C 100 3_46.2	46.2	19.5	12000	26	15000	65600	10.8	12000	14.6	15000	84900	
C 100 3_53.3	53.3	16.9	12000	23	15000	69900	9.4	12000	12.7	15000	85000	
C 100 3_57.4	57.4	15.7	12000	21	15000	72300	8.7	12000	11.8	15000	85000	
C 100 3_64.5	64.5	14.0	12000	18.6	15000	76100	7.8	12000	10.5	15000	85000	
C 100 3_69.4	69.4	13.0	12000	17.5	15000	78600	7.2	12000	9.7	15000	85000	
C 100 3_79.4	79.4	11.3	12000	15.3	15000	83300	6.3	12000	8.5	15000	85000	
C 100 3_85.6	85.6	10.5	12000	14.2	15000	85000	5.8	12000	7.9	15000	85000	
C 100 3_92.7	92.7	9.7	12000	13.1	15000	85000	5.4	12000	7.3	15000	85000	
C 100 3_99.8	99.8	9.0	12000	12.2	15000	85000	5.0	12000	6.8	15000	85000	
C 100 3_111.9	111.9	8.0	12000	10.9	15000	85000	4.5	12000	6.0	15000	85000	
C 100 3_120.5	120.5	7.5	12000	10.1	15000	85000	4.1	12000	5.6	15000	85000	
C 100 3_139.7	139.7	6.4	11500	8.0	15000	85000	3.6	11050	4.5	15000	85000	
C 100 3_150.4	150.4	6.0	12000	8.1	15000	85000	3.3	12000	4.5	15000	85000	
C 100 4_162.1	162.1	5.6	12000	7.7	—	85000	3.1	12000	4.3	—	85000	
C 100 4_185.4	185.4	4.9	12000	6.7	—	85000	2.7	12000	3.7	920	85000	
C 100 4_199.6	199.6	4.5	12000	6.2	—	85000	2.5	12000	3.5	1430	85000	
C 100 4_244.2	244.2	3.7	12000	5.1	—	85000	2.0	12000	2.8	1490	85000	
C 100 4_263.0	263.0	3.4	12000	4.7	—	85000	1.9	12000	2.6	1950	85000	
C 100 4_300.5	300.5	3.0	12000	4.1	—	85000	1.7	12000	2.3	1840	85000	
C 100 4_323.6	323.6	2.8	12000	3.8	850	85000	1.5	12000	2.1	2280	85000	
C 100 4_380.5	380.5	2.4	12000	3.3	700	85000	1.3	12000	1.8	2130	85000	
C 100 4_409.8	409.8	2.2	12000	3.0	1120	85000	1.2	12000	1.7	2550	85000	
C 100 4_466.7	466.7	1.9	12000	2.7	910	85000	1.1	12000	1.5	2340	85000	
C 100 4_502.6	502.6	1.8	12000	2.5	1320	85000	1.0	12000	1.4	2740	85000	
C 100 4_582.6	582.6	1.5	12000	2.1	1100	85000	0.90	12000	1.2	2520	85000	
C 100 4_627.4	627.4	1.4	12000	2.0	1490	85000	0.80	12000	1.1	2910	85000	
C 100 4_720.3	720.3	1.2	12000	1.7	1270	85000	0.70	12000	1.0	2700	85000	
C 100 4_775.7	775.7	1.2	12000	1.6	1650	85000	0.60	12000	0.90	3070	85000	
C 100 4_843.3	843.3	1.1	12000	1.5	1360	85000	0.60	12000	0.80	2790	85000	
C 100 4_908.2	908.2	1.0	12000	1.4	1730	85000	0.60	12000	0.80	3160	85000	
C 100 4_1004	1004	0.90	12000	1.2	1400	85000	0.50	12000	0.70	2830	85000	
C 100 4_1081	1081	0.90	12000	1.1	1770	85000	0.50	12000	0.60	3170	85000	

(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



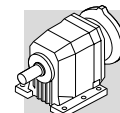
27 PREDISPOSITIONS MOTEUR

Dans les tableaux suivants sont indiqués les accouplements possibles en termes de dimensions.

Le choix le plus approprié de motoréducteur à utiliser, doit être effectué selon les indications du paragraphe 12, ainsi qu'en fonction des tableaux de sélection, en respectant en particulier la condition $S \geq f_s$.

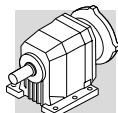
(B 22)

		IEC_      (IM B5)																							
		BN	BE	BX	BXN	BN	BE	BX	BXN	BN	BE	BX	BXN	BN	BE	BX	BXN	BN	BE	BX	BXN	BN	BE	BX	BXN
P _{n1} (#) [kW]	2p	0.37	—	—	—	0.75	—	—	—	1.5	1.1	—	—	2.2	2.2	—	—	4	3	—	—	4	4	—	—
	4p	0.25	0.18	0.25	0.18	0.55	0.37	0.37	0.37	1.1	0.75	0.75	0.75	1.85	1.5	1.5	1.5	3	3	3	3	4	4	4	4
	6p	0.12	—	—	—	0.37	—	—	—	0.75	—	—	—	1.1	0.75	—	—	1.85	1.5	—	—	2.2	2.2	—	—
		P63				P71				P80				P90				P100				P112			
C 12 2		2.8_66.2								2.8_47.6								2.8_47.6							
C 22 2		3.7_63.3 ⊖ (7.1_8.7)								2.7_54.7								2.7_54.7							
C 22 3		60.0_261.0								60.0_261.0								60.0_261.0							
C 32 2		5.0_66.8 ⊖ (7.2_11.2)								2.9_66.8								2.9_66.8							
C 32 3		74.7_274.7								74.7_274.7								74.7_274.7							
C 36 2		4.6_19.0 ⊖ (6.8_10.6)								2.7_19.0								2.7_19.0							
C 36 3		38.1_206.4								22.1_206.4								22.1_206.4							
C 36 4		230.9_848.5								230.9_848.5								230.9_848.5							
C 41 2		14.2_44.8								2.7_44.8								2.7_44.8							
C 41 3		47.0_209.1								28.5_209.1								28.5_209.1							
C 41 4		239.9_855.5								239.9_855.5								239.9_855.5							
C 51 2		18.9_57.0								2.6_57.0								2.6_57.0							
C 51 3		59.0_216.7								21.8_216.7								21.8_216.7							
C 51 4		240.9_884.9								240.9_884.9								240.9_884.9							
C 61 2	i =	22.4_38.0								3.7_38.0 ⊖ (6.7_7.5)								3.7_38.0 ⊖ (6.7_7.5)							
C 61 3		67.7_195.8								26.8_195.8								26.8_195.8							
C 61 4		217.4_796.1								217.4_796.1								217.4_796.1							
C 70 2										14.1_34.7 ⊖ (15.3)								14.1_34.7 ⊖ (15.3)							
C 70 3										41.3_239.3								41.3_239.3							
C 70 4		251.3_1476								251.3_1476								251.3_1476							
C 80 2										20.5_39.1								20.5_39.1							
C 80 3										43.5_215.8								43.5_215.8							
C 80 4		334.3_1481								261.9_1481								261.9_1481							
C 90 2										22.9_35.1								22.9_35.1							
C 90 3										74.4_172.1								74.4_172.1							
C 90 4		339.0_1240								212.4_1240								212.4_1240							
C 100 2																		29.6							
C 100 3																		79.4_150.4							
C 100 4		380.5_1081								162.1_1081								162.1_1081							



		IEC_     (IM B5)															
		BN	BE	BX	BXN	BN	BE	BX	BN	BE	BX	BN	BX	BX	BX	BX	BY
P _{n1} (#) [kW]	2p	9.2	9.2	—	—	18.5	18.5	—	22	—	—	30	—	—	—	—	—
	4p	9.2	9.2	7.5	7.5	15	15	15	22	22	22	30	30	45	55	90	90
	6p	5.5	4	—	—	11	7.5	—	15	—	—	18.5	—	—	—	—	—
		P132				P160			P180			P200		P225	P250	P280	
C 12 2																	
C 22 2																	
C 22 3																	
C 32 2		2.9_25.1															
C 32 3																	
C 36 2		2.7_19.0															
C 36 3		22.1_77.6															
C 36 4																	
C 41 2		2.7_31.4															
C 41 3		28.5_102.3															
C 41 4																	
C 51 2		2.6_40.4				2.6_40.4			2.6_40.4								
C 51 3		21.8_124.4				21.8_124.4			21.8_124.4								
C 51 4																	
C 61 2	i =	2.8_38.0				2.8_38.0			2.8_38.0								
C 61 3		26.8_140.5				26.8_140.5			26.8_140.5								
C 61 4																	
C 70 2		7.5_34.7 ☉(8.0)				4.6_34.7			4.6_34.7			4.6_10.2 ☉(9.5)					
C 70 3		41.3_137.4				41.3_137.4			41.3_137.4								
C 70 4		251.3_554.7															
C 80 2		11.1_39.1				7.0_39.1			5.6_39.1			5.6_25.9		5.6_25.9			
C 80 3		43.5_184.4				43.5_184.4			43.5_184.4								
C 80 4		261.9_724.7															
C 90 2		12.8_35.1				10.4_35.1			10.4_35.1			5.2_29.4		5.2_29.4		5.2_29.4	
C 90 3		39.4_172.1				39.4_172.1			39.4_172.1			39.4_96.2		39.4_96.2		39.4_96.2	
C 90 4		212.4_712.2				212.4_712.2			212.4_712.2								
C 100 2		15.2_29.6				12.5_29.6			12.5_29.6			4.9_29.6		4.9_29.6		4.9_29.6	
C 100 3		42.9_150.4				34.3_150.4			34.3_150.4			34.3_99.8		34.3_99.8		34.3_99.8	
C 100 4		162.1_775.7				162.1_775.7			162.1_775.7								

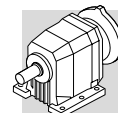
(#) P_{n1} = puissance maximum installable en entrée P₋



(B 23)

		<div></div>						
		M0	M05 - ME05 - MX05 - MXN05	M1 - ME1 - MX1 - MXN10*	ME2 - MX2 - MXN20*	ME3 - MX3	ME4 - MX4	ME5 - MX5
C 05 2	i =	27.1_44.7	5.5_44.7	5.5_44.7				
C 12 2			2.8_66.2	2.8_37.0	2.8_47.6	2.8_47.6		
C 22 2			3.7_63.3 ⦿(7.1_8.7)	3.7_43.3 ⦿(7.1_8.7)	2.7_54.7	2.7_54.7		
C 22 3			60.0_261.0	60.0_261.0	60.0_261.0	60.0_261.0		
C 32 2				5.0_52.4 ⦿(7.2_11.2)	2.9_66.8	2.9_66.8	2.9_25.1	
C 32 3			74.7_274.7	74.7_274.7	74.7_274.7	74.7_274.7		
C 36 2				4.6_19.0 ⦿(6.8_10.6)	2.7_19.0	2.7_19.0	2.7_19.0	
C 36 3				38.1_162.0	22.1_206.4	22.1_206.4	22.1_77.6	
C 36 4			230.9_848.5	230.9_848.5	230.9_848.5	230.9_848.5		
C 41 2				14.2_44.8	2.7_44.8	2.7_44.8	2.7_31.4	
C 41 3				47.0_209.1	28.5_209.1	28.5_209.1	28.5_102.3	
C 41 4			239.9_855.5	239.9_855.5	239.9_855.5	239.9_855.5		
C 51 2				18.9_57.0	2.6_57.0	2.6_57.0	2.6_40.4	2.6_40.4
C 51 3				59.0_216.7	21.8_216.7	21.8_216.7	21.8_124.4	21.8_124.4
C 51 4				240.9_884.9	240.9_884.9	240.9_884.9		
C 61 2					3.7_38.0 ⦿(6.7_7.5)	3.7_38.0 ⦿(6.7_7.5)	2.8_38.0	2.8_38.0
C 61 3					26.8_195.8	26.8_195.8	26.8_140.5	26.8_140.5
C 61 4				217.4_796.1	217.4_796.1	217.4_796.1		
C 70 2					14.1_34.7 ⦿(15.3)	14.1_34.7 ⦿(15.3)	7.5_34.7 ⦿(8.0)	7.5_34.7 ⦿(8.0)
C 70 3					41.3_239.3	41.3_239.3	41.3_137.4	41.3_137.4
C 70 4				251.3_1476	251.3_1476	251.3_1476	251.3_554.7	
C 80 2						20.5_39.1	11.1_39.1	11.1_39.1
C 80 3						43.5_215.8	43.5_184.4	43.5_184.4
C 80 4				334.3_1481	261.9_1481	261.9_1481	261.9_724.7	
C 90 2						22.9_35.1	12.8_35.1	12.8_35.1
C 90 3						74.4_172.1	39.4_172.1	39.4_172.1
C 90 4				339.0_1240	212.4_1240	212.4_1240	212.4_712.2	
C 100 2							15.2_29.6	15.2_29.6
C 100 3							42.9_150.4	42.9_150.4
C 100 4				380.5_1081	162.1_1081	162.1_1081	162.1_775.7	

* Le réducteur C 05 2 n'est pas disponible en combinaison avec MXN 10 et MXN 20, mais uniquement avec MXN 05.



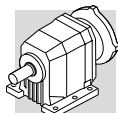
Sont disponibles des prédispositions pour l'accouplement des réducteurs C12...C61 avec les servomoteurs les plus répandus. Les dimensions des brides sont indiquées dans les pages des dimensions de chaque réducteur. Le code **SK** indique un arbre d'entrée muni d'une rainure de clavette ; le code **SC** indique un arbre d'entrée muni d'une frette de serrage (fournie).

(B 24)

		SERVO INPUT							
		SK60A	SK60B	SK80A	SK80B	SK80C	SK95A	SK95B	SK95C
		SC60A	SC60B	SC80A	SC80B	SC80C	SC95A	SC95B	SC95C
C 12 2	i =	2.8_66.2	2.8_66.2	2.8_66.2		2.8_47.6	2.8_66.2	2.8_47.6	2.8_47.6
C 22 2		3.7_63.3 ⌀ (7.1_8.7)	3.7_63.3 ⌀ (7.1_8.7)	3.7_63.3 ⌀ (7.1_8.7)		2.7_54.7	3.7_63.3 ⌀ (7.1_8.7)	2.7_54.7	2.7_54.7
C 22 3		60.0_261.0	60.0_261.0	60.0_261.0		60.0_261.0	60.0_261.0	60.0_261.0	60.0_261.0
C 32 2		5.0_66.8 ⌀ (7.2_11.2)	5.0_66.8 ⌀ (7.2_11.2)	5.0_66.8 ⌀ (7.2_11.2)		2.9_66.8	5.0_66.8 ⌀ (7.2_11.2)	2.9_66.8	2.9_66.8
C 32 3		74.7_274.7	74.7_274.7	74.7_274.7		74.7_274.7	74.7_274.7	74.7_274.7	74.7_274.7
C 36 2		4.6_19.0 ⌀ (6.8_10.6)	4.6_19.0 ⌀ (6.8_10.6)	4.6_19.0 ⌀ (6.8_10.6)		2.7_19.0	4.6_19.0 ⌀ (6.8_10.6)	2.7_19.0	2.7_19.0
C 36 3		38.1_206.4	38.1_206.4	38.1_206.4		22.1_206.4	38.1_206.4	22.1_206.4	22.1_206.4
C 36 4		230.9_848.5	230.9_848.5	230.9_848.5		230.9_848.5	230.9_848.5	230.9_848.5	230.9_848.5
C 41 2					6.0_44.8 ⌀ (6.4_12.4)	2.7_44.8	6.0_44.8 ⌀ (6.4_12.4)	2.7_44.8	2.7_44.8
C 41 3					47.0_209.1	28.5_209.1	47.0_209.1	28.5_209.1	28.5_209.1
C 41 4		239.9_855.5	239.9_855.5	239.9_855.5		239.9_855.5	239.9_855.5	239.9_855.5	239.9_855.5
C 51 2					18.9_57.0	2.6_57.0	18.9_57.0	2.6_57.0	2.6_57.0
C 51 3					59.0_216.7	21.8_216.7	59.0_216.7	21.8_216.7	21.8_216.7
C 51 4						240.9_884.9	240.9_884.9	240.9_884.9	240.9_884.9
C 61 2						3.7_38.0 ⌀ (6.7_7.5)	22.4_38.0 ⌀ (6.7_7.5)	3.7_38.0 ⌀ (6.7_7.5)	3.7_38.0 ⌀ (6.7_7.5)
C 61 3						26.8_195.8	67.7_195.8	26.8_195.8	26.8_195.8
C 61 4					217.4_796.1	217.4_796.1	217.4_796.1	217.4_796.1	217.4_796.1

(B 25)

		SK110A	SK110B	SK130A	SK130B	SK180A	SK180B
		SC110A	SC110B	SC130A	SC130B	SC180A	SC180B
C 12 2	i =	2.8_47.6	2.8_47.6				
C 22 2		2.7_54.7	2.7_54.7				
C 22 3		60.0_261.0	60.0_261.0				
C 32 2		2.9_66.8	2.9_66.8	2.9_66.8			
C 32 3		74.7_274.7	74.7_274.7				
C 36 2		2.7_19.0	2.7_19.0	2.7_19.0			
C 36 3		22.1_206.4	22.1_206.4	22.1_206.4			
C 36 4		230.9_848.5	230.9_848.5				
C 41 2		2.7_44.8	2.7_44.8	2.7_44.8	2.7_31.4	2.7_31.4	2.7_31.4
C 41 3		28.5_209.1	28.5_209.1	28.5_209.1	28.5_102.3	28.5_102.3	28.5_102.3
C 41 4		239.9_855.5	239.9_855.5				
C 51 2		2.6_57.0	2.6_57.0	2.6_57.0	2.6_40.4	2.6_40.4	2.6_40.4
C 51 3		21.8_216.7	21.8_216.7	21.8_216.7	21.8_124.4	21.8_124.4	21.8_124.4
C 51 4		240.9_884.9	240.9_884.9	240.9_884.9			
C 61 2		3.7_38.0 ⌀ (6.7_7.5)	3.7_38.0 ⌀ (6.7_7.5)	3.7_38.0 ⌀ (6.7_7.5)	2.8_38.0	2.8_38.0	2.8_38.0
C 61 3		26.8_195.8	26.8_195.8	26.8_195.8	26.8_140.5	26.8_140.5	26.8_140.5
C 61 4		217.4_796.1	217.4_796.1	217.4_796.1			

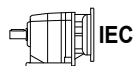


28 MOMENT D'INERTIE

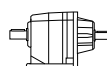
Les tableaux suivants indiquent les valeurs du moment d'inertie J_r [kgm²] au niveau de l'arbre rapide du réducteur ; pour une plus grande facilité de lecture, nous vous prions de noter les définitions des symboles employés.



Les valeurs liées à ces symboles sont à assigner au réducteur compact sans moteur. Dans ce cas, afin d'avoir le moment d'inertie total du motoréducteur, on devra additionner la valeur correspondant au réducteur compact, à celle du moteur à assembler (donnée que l'on peut repérer dans les tableaux des caractéristiques techniques des moteurs électriques).



Les valeurs liées à ces symboles sont à assigner au réducteur prédisposé pour accouplement moteur seulement (taille IEC...).



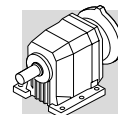
Les valeurs liées au réducteur sont assignées à ce symbole.



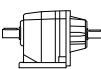
Les valeurs liées à ces symboles sont à assigner au réducteur prédisposé pour liaison a servomoteur.

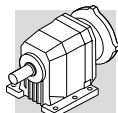
C 05

	i	J (•10 ⁻⁴) [kgm ²]
		
C 05_5.5	5.5	0.29
C 05_6.7	6.7	0.29
C 05_7.4	7.4	0.28
C 05_9.3	9.3	0.17
C 05_11.2	11.2	0.16
C 05_12.5	12.5	0.16
C 05_15.6	15.6	0.09
C 05_18.9	18.9	0.09
C 05_21.0	21.0	0.08
C 05_27.1	27.1	0.04
C 05_32.8	32.8	0.04
C 05_36.4	36.4	0.04
C 05_40.3	40.3	0.03
C 05_44.7	44.7	0.03



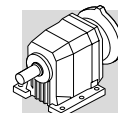
C 12

	i	J (•10 ⁻⁴) [kgm ²]							
			IEC 						
			63	71	80	90	100	112	
C 12 2_2.8	2.8	0.44	1.9	1.9	3.3	3.2	4.5	4.5	1.3
C 12 2_3.2	3.2	0.34	1.8	1.8	3.2	3.1	4.4	4.4	1.2
C 12 2_3.7	3.7	0.29	1.8	1.7	3.1	3.1	4.4	4.4	1.2
C 12 2_4.3	4.3	0.21	1.7	1.7	3.1	3.0	4.3	4.3	1.1
C 12 2_4.9	4.9	0.19	1.7	1.7	3.0	3.0	4.3	4.3	1.1
C 12 2_5.6	5.6	0.15	1.6	1.6	3.0	2.9	4.2	4.2	1.0
C 12 2_6.2	6.2	0.12	1.6	1.6	3.0	2.9	4.2	4.2	1.0
C 12 2_7.6	7.6	0.33	1.8	1.8	3.2	3.1	4.4	4.4	1.2
C 12 2_8.8	8.8	0.32	1.8	1.8	3.2	3.1	4.4	4.4	1.2
C 12 2_10.1	10.1	0.23	1.7	1.7	3.1	3.0	4.3	4.3	1.1
C 12 2_11.9	11.9	0.17	1.6	1.6	3.0	3.0	4.2	4.2	1.1
C 12 2_13.4	13.4	0.16	1.6	1.6	3.0	2.9	4.2	4.2	1.1
C 12 2_15.4	15.4	0.12	1.6	1.6	3.0	2.9	4.2	4.2	1.0
C 12 2_17.2	17.2	0.10	1.6	1.6	2.9	2.9	4.2	4.2	1.0
C 12 2_18.4	18.4	0.08	1.6	1.5	2.9	2.9	4.2	4.2	0.98
C 12 2_20.6	20.6	0.08	1.5	1.5	2.9	2.9	4.2	4.2	0.98
C 12 2_23.2	23.2	0.07	1.5	1.5	2.9	2.9	4.1	4.1	0.97
C 12 2_25.4	25.4	0.06	1.5	1.5	2.9	2.8	4.1	4.1	0.96
C 12 2_29.5	29.5	0.05	1.5	1.5	2.9	2.8	4.1	4.1	0.95
C 12 2_32.8	32.8	0.04	1.5	1.5	2.9	2.8	4.1	4.1	0.94
C 12 2_37.0	37.0	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 12 2_42.3	42.3	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 12 2_47.6	47.6	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92
C 12 2_55.2	55.2	0.02	1.5	1.5	—	—	—	—	0.92
C 12 2_66.2	66.2	0.01	1.5	1.5	—	—	—	—	0.91

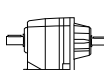


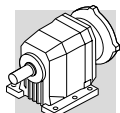
C 12

	i	J (•10 ⁻⁴) [kgm ²]									
		 SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 12 2_2.8	2.8	0.71	0.97	0.73	1.2	3.3	3.7	3.3	3.8	3.2	4.2
C 12 2_3.2	3.2	0.61	0.87	0.63	1.1	3.2	3.6	3.2	3.7	3.1	4.1
C 12 2_3.7	3.7	0.56	0.82	0.58	1.0	3.1	3.5	3.1	3.6	3.1	4.1
C 12 2_4.3	4.3	0.48	0.74	0.50	0.94	3.0	3.5	3.1	3.6	3.0	4.0
C 12 2_4.9	4.9	0.46	0.72	0.48	0.92	3.0	3.4	3.0	3.5	3.0	4.0
C 12 2_5.6	5.6	0.42	0.68	0.44	0.88	3.0	3.4	3.0	3.5	2.9	3.9
C 12 2_6.2	6.2	0.39	0.65	0.41	0.85	2.9	3.4	3.0	3.5	2.9	3.9
C 12 2_7.6	7.6	0.60	0.86	0.62	1.1	3.2	3.6	3.2	3.7	3.1	4.1
C 12 2_8.8	8.8	0.59	0.85	0.61	1.0	3.1	3.6	3.2	3.7	3.1	4.1
C 12 2_10.1	10.1	0.50	0.76	0.52	0.96	3.1	3.5	3.1	3.6	3.0	4.0
C 12 2_11.9	11.9	0.44	0.70	0.46	0.90	3.0	3.4	3.0	3.5	3.0	4.0
C 12 2_13.4	13.4	0.43	0.69	0.45	0.83	3.0	3.4	3.0	3.5	2.9	3.9
C 12 2_15.4	15.4	0.39	0.65	0.41	0.85	2.9	3.4	3.0	3.5	2.9	3.9
C 12 2_17.2	17.2	0.37	0.63	0.39	0.83	2.9	3.4	2.9	3.4	2.9	3.9
C 12 2_18.4	18.4	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.9	3.9
C 12 2_20.6	20.6	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.9	3.9
C 12 2_23.2	23.2	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.9	3.9
C 12 2_25.4	25.4	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.8	3.8
C 12 2_29.5	29.5	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8
C 12 2_32.8	32.8	0.34	0.60	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8
C 12 2_37.0	37.0	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 12 2_42.3	42.3	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 12 2_47.6	47.6	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
C 12 2_55.2	55.2	0.29	0.55	0.31	0.75	2.8	3.3	—	—	—	—
C 12 2_66.2	66.2	0.28	0.54	0.30	0.74	2.8	3.3	—	—	—	—



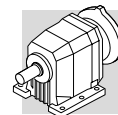
C 22

	i	J (•10 ⁻⁴) [kgm ²]							
			 IEC						
			63	71	80	90	100	112	
C 22 2_2.7	2.7	1.2	—	—	4.0	4.0	5.3	5.3	3.1
C 22 2_3.3	3.3	0.83	—	—	3.7	3.6	4.9	4.9	2.7
C 22 2_3.7	3.7	0.72	2.2	2.2	3.6	3.5	4.8	4.8	2.6
C 22 2_4.3	4.3	0.56	2.0	2.0	3.4	3.3	4.6	4.6	2.4
C 22 2_4.8	4.8	0.48	2.0	1.9	3.3	3.3	4.6	4.6	2.4
C 22 2_5.6	5.6	0.36	1.8	1.8	3.2	3.2	4.4	4.4	2.2
C 22 2_6.1	6.1	0.29	1.8	1.7	3.1	3.1	4.4	4.4	2.2
C 22 2_7.1	7.1	0.77	—	—	3.6	3.6	4.8	4.8	2.6
C 22 2_8.7	8.7	0.55	—	—	3.4	3.3	4.6	4.6	2.4
C 22 2_9.6	9.6	0.50	2.0	2.0	3.3	3.3	4.6	4.6	2.4
C 22 2_11.1	11.1	0.39	1.9	1.8	3.2	3.2	4.5	4.5	2.3
C 22 2_12.4	12.4	0.35	1.8	1.8	3.2	3.1	4.4	4.4	2.2
C 22 2_14.5	14.5	0.36	1.7	1.7	3.1	3.1	4.3	4.3	2.1
C 22 2_15.8	15.8	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.1
C 22 2_18.1	18.1	0.18	1.6	1.6	3.0	3.0	4.3	4.3	2.0
C 22 2_20.0	20.0	0.15	1.6	1.6	3.0	2.9	4.2	4.2	2.0
C 22 2_21.5	21.5	0.13	1.6	1.6	3.0	2.9	4.2	4.2	2.0
C 22 2_24.3	24.3	0.12	1.6	1.6	3.0	2.9	4.2	4.2	2.0
C 22 2_27.2	27.2	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.0
C 22 2_29.6	29.6	0.09	1.6	1.5	2.9	2.9	4.2	4.2	2.0
C 22 2_33.1	33.1	0.07	1.5	1.5	2.9	2.9	4.2	4.2	1.9
C 22 2_36.8	36.8	0.06	1.5	1.5	2.9	2.8	4.1	4.1	1.9
C 22 2_43.3	43.3	0.05	1.5	1.5	2.9	2.8	4.1	4.1	1.9
C 22 2_48.6	48.6	0.04	1.5	1.5	2.9	2.8	4.1	4.1	1.9
C 22 2_54.7	54.7	0.03	1.5	1.5	2.9	2.8	4.1	4.1	1.9
C 22 2_63.3	63.3	0.02	1.5	1.5	—	—	—	—	1.9
C 22 3_60.0	60.0	0.04	1.5	1.5	2.9	2.8	4.1	4.1	0.94
C 22 3_65.3	65.3	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_74.8	74.8	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_82.6	82.6	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_88.5	88.5	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_100.2	100.2	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_112.0	112.0	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_122.2	122.2	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_136.5	136.5	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92
C 22 3_151.7	151.7	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92
C 22 3_178.5	178.5	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92
C 22 3_200.7	200.7	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92
C 22 3_225.8	225.8	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92
C 22 3_261.0	261.0	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92



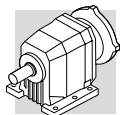
C 22

	i	J (•10 ⁻⁴) [kgm ²]									
		 SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 22 2_2.7	2.7	—	—	—	—	—	—	4.0	4.5	4.0	5.0
C 22 2_3.3	3.3	—	—	—	—	—	—	3.7	4.2	3.6	4.6
C 22 2_3.7	3.7	0.99	1.3	1.0	1.4	3.5	4.0	3.6	4.1	3.5	4.5
C 22 2_4.3	4.3	0.83	1.1	0.85	1.3	3.4	3.8	3.4	3.9	3.3	4.3
C 22 2_4.8	4.8	0.75	1.0	0.77	1.2	3.3	3.7	3.3	3.8	3.3	4.3
C 22 2_5.6	5.6	0.63	0.89	0.65	1.1	3.2	3.6	3.2	3.7	3.2	4.2
C 22 2_6.1	6.1	0.56	0.82	0.58	1.0	3.1	3.5	3.1	3.6	3.1	4.1
C 22 2_7.1	7.1	—	—	—	—	—	—	3.6	4.1	3.6	4.6
C 22 2_8.7	8.7	—	—	—	—	—	—	3.4	3.9	3.3	4.3
C 22 2_9.6	9.6	0.77	1.0	0.79	1.2	3.3	3.8	3.3	3.8	3.3	4.3
C 22 2_11.1	11.1	0.66	0.92	0.68	1.1	3.2	3.6	3.2	3.7	3.2	4.2
C 22 2_12.4	12.4	0.62	0.88	0.64	1.1	3.2	3.6	3.2	3.7	3.1	4.1
C 22 2_14.5	14.5	0.63	0.89	0.65	1.1	3.2	3.6	3.1	3.6	3.1	4.1
C 22 2_15.8	15.8	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0
C 22 2_18.1	18.1	0.45	0.71	0.47	0.91	3.0	3.4	3.0	3.5	3.0	4.0
C 22 2_20.0	20.0	0.42	0.68	0.44	0.88	3.0	3.4	3.0	3.5	2.9	3.9
C 22 2_21.5	21.5	0.40	0.66	0.42	0.86	3.0	3.4	3.0	3.5	2.9	3.9
C 22 2_24.3	24.3	0.39	0.65	0.41	0.85	2.9	3.4	3.0	3.5	2.9	3.9
C 22 2_27.2	27.2	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
C 22 2_29.6	29.6	0.36	0.62	0.38	0.82	2.9	3.3	2.9	3.4	2.9	3.9
C 22 2_33.1	33.1	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.9	3.9
C 22 2_36.8	36.8	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.8	3.8
C 22 2_43.3	43.3	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8
C 22 2_48.6	48.6	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8
C 22 2_54.7	54.7	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 22 2_63.3	63.3	0.29	0.55	0.31	0.75	2.8	3.3	—	—	—	—
C 22 3_60.0	60.0	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8
C 22 3_65.3	65.3	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 22 3_74.8	74.8	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 22 3_82.6	82.6	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 22 3_88.5	88.5	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 22 3_100.2	100.2	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 22 3_112.0	112.0	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 22 3_122.2	122.2	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 22 3_136.5	136.5	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
C 22 3_151.7	151.7	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
C 22 3_178.5	178.5	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
C 22 3_200.7	200.7	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
C 22 3_225.8	225.8	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
C 22 3_261.0	261.0	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8



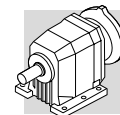
C 32

	i	J (•10 ⁻⁴) [kgm ²]								
			 IEC							
			63	71	80	90	100	112	132	
C 32 2_2.9	2.9	2.3	—	—	5.2	5.1	6.4	6.4	20	4.6
C 32 2_3.4	3.4	1.8	—	—	4.6	4.6	5.9	5.9	20	4.0
C 32 2_3.7	3.7	1.6	—	—	4.4	4.3	5.6	5.6	20	3.8
C 32 2_4.5	4.5	1.2	—	—	4.0	4.0	5.2	5.2	19	3.4
C 32 2_5.0	5.0	0.87	2.3	2.3	3.7	3.7	5.0	5.0	19	3.1
C 32 2_5.7	5.7	0.82	2.3	2.3	3.7	3.6	4.9	4.9	19	3.0
C 32 2_6.3	6.3	0.63	2.1	2.1	3.5	3.4	4.7	4.7	18	2.8
C 32 2_7.2	7.2	1.5	—	—	4.4	4.3	5.6	5.6	19	3.7
C 32 2_8.5	8.5	1.2	—	—	4.1	4.0	5.3	5.3	19	3.4
C 32 2_9.3	9.3	1.1	—	—	3.9	3.9	5.1	5.1	19	3.3
C 32 2_11.2	11.2	0.83	—	—	3.7	3.6	4.9	4.9	19	3.0
C 32 2_12.3	12.3	0.60	2.1	2.1	3.4	3.4	4.7	4.7	18	2.8
C 32 2_14.1	14.1	0.61	2.1	2.1	3.5	3.4	4.7	4.7	18	2.8
C 32 2_15.6	15.6	0.46	1.9	1.9	3.3	3.2	4.5	4.5	18	2.7
C 32 2_18.2	18.2	0.42	1.9	1.9	3.3	3.2	4.5	4.5	18	2.6
C 32 2_20.1	20.1	0.34	1.8	1.8	3.2	3.1	4.4	4.4	18	2.6
C 32 2_22.9	22.9	0.31	1.8	1.8	3.2	3.1	4.4	4.4	17	2.5
C 32 2_25.1	25.1	0.25	1.7	1.7	3.1	3.0	4.3	4.3	17	2.5
C 32 2_26.9	26.9	0.24	1.7	1.7	3.1	3.0	4.3	4.3	—	2.5
C 32 2_29.8	29.8	0.19	1.7	1.7	3.0	3.0	4.3	4.3	—	2.4
C 32 2_33.1	33.1	0.19	1.7	1.7	3.0	3.0	4.3	4.3	—	2.4
C 32 2_36.1	36.1	0.14	1.6	1.6	3.0	2.9	4.2	4.2	—	2.4
C 32 2_40.7	40.7	0.14	1.6	1.6	3.0	2.9	4.2	4.2	—	2.4
C 32 2_45.3	45.3	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	2.3
C 32 2_52.4	52.4	0.08	1.6	1.6	2.9	2.9	4.2	4.2	—	2.3
C 32 2_59.4	59.4	0.07	1.5	1.5	2.9	2.9	4.2	4.2	—	2.3
C 32 2_66.8	66.8	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	2.3
C 32 3_74.7	74.7	0.06	1.5	1.5	2.9	2.9	4.1	4.1	—	0.96
C 32 3_82.6	82.6	0.06	1.5	1.5	2.9	2.8	4.1	4.1	—	0.96
C 32 3_94.2	94.2	0.06	1.5	1.5	2.9	2.8	4.1	4.1	—	0.96
C 32 3_103.3	103.3	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	0.95
C 32 3_110.6	110.6	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	0.95
C 32 3_122.4	122.4	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	0.95
C 32 3_136.0	136.0	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	0.95
C 32 3_148.4	148.4	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	0.95
C 32 3_167.4	167.4	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	0.95
C 32 3_186.0	186.0	0.04	1.5	1.5	2.9	2.8	4.1	4.1	—	0.94
C 32 3_215.6	215.6	0.04	1.5	1.5	2.9	2.8	4.1	4.1	—	0.94
C 32 3_244.2	244.2	0.04	1.5	1.5	2.9	2.8	4.1	4.1	—	0.94
C 32 3_274.7	274.7	0.04	1.5	1.5	2.9	2.8	4.1	4.1	—	0.94

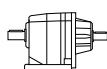


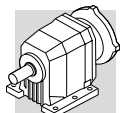
C 32

	i	J (•10 ⁻⁴) [kgm ²]											
		 SERVO											
		60A		60B 80A		95A		80C 95B 110A		95C 110B		130A	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 32 2_2.9	2.9	—	—	—	—	—	—	5.2	5.7	5.1	6.1	5.1	6.1
C 32 2_3.4	3.4	—	—	—	—	—	—	4.6	5.1	4.6	5.6	4.6	5.6
C 32 2_3.7	3.7	—	—	—	—	—	—	4.4	4.9	4.3	5.3	4.3	5.3
C 32 2_4.5	4.5	—	—	—	—	—	—	4.0	4.5	4.0	5.0	4.0	5.0
C 32 2_5.0	5.0	1.1	1.4	1.2	1.6	3.7	4.1	3.7	4.2	3.7	4.7	3.7	4.7
C 32 2_5.7	5.7	1.1	1.4	1.1	1.5	3.6	4.1	3.7	4.2	3.6	4.6	3.6	4.6
C 32 2_6.3	6.3	0.90	1.2	0.92	1.4	3.5	3.9	3.5	4.0	3.4	4.4	3.4	4.4
C 32 2_7.2	7.2	—	—	—	—	—	—	4.4	4.9	4.3	5.3	4.3	5.3
C 32 2_8.5	8.5	—	—	—	—	—	—	4.1	4.6	4.0	5.0	4.0	5.0
C 32 2_9.3	9.3	—	—	—	—	—	—	3.9	4.4	3.9	4.9	3.9	4.9
C 32 2_11.2	11.2	—	—	—	—	—	—	3.7	4.2	3.6	4.6	3.6	4.6
C 32 2_12.3	12.3	0.87	1.1	0.89	1.3	3.4	3.9	3.4	3.9	3.4	4.4	3.4	4.4
C 32 2_14.1	14.1	0.88	1.1	0.90	1.3	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4
C 32 2_15.6	15.6	0.73	0.99	0.75	1.2	3.3	3.7	3.3	3.8	3.2	4.2	3.2	4.2
C 32 2_18.2	18.2	0.69	0.95	0.71	1.1	3.2	3.7	3.3	3.8	3.2	4.2	3.2	4.2
C 32 2_20.1	20.1	0.61	0.87	0.63	1.1	3.2	3.6	3.2	3.7	3.1	4.1	3.1	4.1
C 32 2_22.9	22.9	0.58	0.84	0.60	1.0	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1
C 32 2_25.1	25.1	0.52	0.78	0.54	0.98	3.1	3.5	3.1	3.6	3.0	4.0	3.0	4.0
C 32 2_26.9	26.9	0.51	0.77	0.53	0.97	3.1	3.5	3.1	3.6	3.0	4.0	3.0	4.0
C 32 2_29.8	29.8	0.46	0.72	0.48	0.92	3.0	3.4	3.0	3.5	3.0	4.0	3.0	4.0
C 32 2_33.1	33.1	0.46	0.72	0.48	0.92	3.0	3.4	3.0	3.5	3.0	4.0	3.0	4.0
C 32 2_36.1	36.1	0.41	0.67	0.43	0.87	3.0	3.4	3.0	3.5	2.9	3.9	2.9	3.9
C 32 2_40.7	40.7	0.41	0.67	0.43	0.87	3.0	3.4	3.0	3.5	2.9	3.9	2.9	3.9
C 32 2_45.3	45.3	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9
C 32 2_52.4	52.4	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.9	3.9	2.9	3.9
C 32 2_59.4	59.4	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.9	3.9	2.9	3.9
C 32 2_66.8	66.8	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	2.8	3.8
C 32 3_74.7	74.7	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.9	3.9	—	—
C 32 3_82.6	82.6	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_94.2	94.2	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_103.3	103.3	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_110.6	110.6	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_122.4	122.4	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_136.0	136.0	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_148.4	148.4	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_167.4	167.4	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_186.0	186.0	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_215.6	215.6	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_244.2	244.2	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_274.7	274.7	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8	—	—



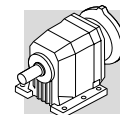
C 36

	i	J (•10 ⁻⁴) [kgm ²]								
			 IEC							
			63	71	80	90	100	112	132	
C 36 2_2.7	2.7	3.6	—	—	6.5	6.4	7.7	7.7	22	14
C 36 2_3.2	3.2	2.5	—	—	5.4	5.3	6.6	6.6	21	13
C 36 2_3.5	3.5	2.4	—	—	5.3	5.2	6.5	6.5	20	13
C 36 2_4.2	4.2	1.6	—	—	4.5	4.4	5.7	5.7	20	12
C 36 2_4.6	4.6	1.5	3.0	3.0	4.4	4.3	5.6	5.6	19	12
C 36 2_5.3	5.3	1.1	2.6	2.6	4.0	3.9	5.2	5.2	19	12
C 36 2_5.8	5.8	0.98	2.5	2.5	3.9	3.8	5.1	5.1	19	12
C 36 2_6.8	6.8	2.2	—	—	5.1	5.0	6.3	6.3	20	13
C 36 2_8.0	8.0	1.6	—	—	4.4	4.3	5.6	5.6	20	12
C 36 2_8.8	8.8	1.5	—	—	4.4	4.3	5.6	5.6	19	12
C 36 2_10.6	10.6	1.1	—	—	3.9	3.8	5.1	5.1	19	12
C 36 2_11.7	11.7	1.0	2.5	2.5	3.9	3.8	5.1	5.1	19	12
C 36 2_13.3	13.3	0.69	2.2	2.2	3.6	3.5	4.8	4.8	19	11
C 36 2_14.8	14.8	0.68	2.2	2.2	3.6	3.5	4.8	4.8	19	11
C 36 2_17.2	17.2	0.47	2.0	2.0	3.4	3.3	4.6	4.6	18	11
C 36 2_19.0	19.0	0.47	2.0	2.0	3.4	3.3	4.6	4.6	18	11
C 36 3_22.1	22.1	1.8	—	—	4.7	4.6	5.9	5.9	19	12
C 36 3_26.2	26.2	1.3	—	—	4.2	4.1	5.4	5.4	19	12
C 36 3_28.7	28.7	1.3	—	—	4.2	4.1	5.4	5.4	19	12
C 36 3_34.6	34.6	0.88	—	—	3.8	3.7	5.0	5.0	19	11
C 36 3_38.1	38.1	0.90	2.4	2.4	3.8	3.7	5.0	5.0	19	11
C 36 3_43.5	43.5	0.59	2.1	2.1	3.5	3.4	4.7	4.7	19	11
C 36 3_48.2	48.2	0.60	2.1	2.1	3.5	3.4	4.7	4.7	19	11
C 36 3_56.2	56.2	0.41	1.9	1.9	3.3	3.2	4.5	4.5	18	11
C 36 3_62.0	62.0	0.42	1.9	1.9	3.3	3.2	4.5	4.5	18	11
C 36 3_70.8	70.8	0.30	1.8	1.8	3.2	3.1	4.4	4.4	18	11
C 36 3_77.6	77.6	0.28	1.8	1.8	3.2	3.1	4.4	4.4	17	11
C 36 3_83.1	83.1	0.24	1.7	1.7	3.1	3.0	4.3	4.3	—	11
C 36 3_91.9	91.9	0.21	1.7	1.7	3.1	3.0	4.3	4.3	—	11
C 36 3_102.2	102.2	0.19	1.7	1.7	3.1	3.0	4.3	4.3	—	11
C 36 3_111.5	111.5	0.16	1.7	1.7	3.1	3.0	4.3	4.3	—	11
C 36 3_125.8	125.8	0.14	1.6	1.6	3.0	2.9	4.2	4.2	—	11
C 36 3_139.8	139.8	0.11	1.6	1.6	3.0	2.9	4.2	4.2	—	11
C 36 3_162.0	162.0	0.09	1.6	1.6	3.0	2.9	4.2	4.2	—	11
C 36 3_183.5	183.5	0.07	1.6	1.6	3.0	2.9	4.2	4.2	—	11
C 36 3_206.4	206.4	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	11
C 36 4_230.9	230.9	0.08	—	—	—	—	—	—	—	—
C 36 4_255.0	255.0	0.08	1.6	1.6	3.0	2.9	4.2	4.2	—	0.90
C 36 4_290.9	290.9	0.07	1.6	1.6	3.0	2.9	4.2	4.2	—	0.89
C 36 4_318.9	318.9	0.07	1.6	1.6	3.0	2.9	4.2	4.2	—	0.89
C 36 4_341.7	341.7	0.07	1.6	1.6	3.0	2.9	4.2	4.2	—	0.89
C 36 4_377.9	377.9	0.07	1.6	1.6	3.0	2.9	4.2	4.2	—	0.89
C 36 4_420.2	420.2	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88
C 36 4_458.4	458.4	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88
C 36 4_517.2	517.2	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88
C 36 4_574.7	574.7	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88
C 36 4_665.9	665.9	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88
C 36 4_754.2	754.2	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88
C 36 4_848.5	848.5	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88

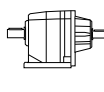


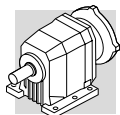
C 36

	i	J (•10 ⁻⁴) [kgm ²]											
		 SERVO											
		60A		60B 80A		95A		80C 95B 110A		95C 110B		130A	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 36 2_2.7	2.7	—	—	—	—	—	—	6.5	7.0	6.4	7.4	6.4	7.4
C 36 2_3.2	3.2	—	—	—	—	—	—	5.4	5.9	5.3	6.3	5.3	6.3
C 36 2_3.5	3.5	—	—	—	—	—	—	5.3	5.8	5.2	6.2	5.2	6.2
C 36 2_4.2	4.2	—	—	—	—	—	—	4.5	5.0	4.4	5.4	4.4	5.4
C 36 2_4.6	4.6	1.8	2.0	1.8	2.2	4.3	4.7	4.4	4.9	4.3	5.3	4.3	5.3
C 36 2_5.3	5.3	1.4	1.6	1.4	1.8	3.9	4.4	4.0	4.5	3.9	4.9	3.9	4.9
C 36 2_5.8	5.8	1.3	1.5	1.3	1.7	3.8	4.2	3.9	4.4	3.8	4.8	3.8	4.8
C 36 2_6.8	6.8	—	—	—	—	—	—	5.1	5.6	5.0	6.0	5.0	6.0
C 36 2_8.0	8.0	—	—	—	—	—	—	4.4	4.9	4.3	5.3	4.3	5.3
C 36 2_8.8	8.8	—	—	—	—	—	—	4.4	4.9	4.3	5.3	4.3	5.3
C 36 2_10.6	10.6	—	—	—	—	—	—	3.9	4.4	3.8	4.8	3.8	4.8
C 36 2_11.7	11.7	1.3	1.5	1.3	1.7	3.8	4.3	3.9	4.4	3.8	4.8	3.8	4.8
C 36 2_13.3	13.3	0.96	1.2	0.98	1.4	3.5	3.9	3.6	4.1	3.5	4.5	3.5	4.5
C 36 2_14.8	14.8	0.95	1.2	0.97	1.4	3.5	3.9	3.6	4.1	3.5	4.5	3.5	4.5
C 36 2_17.2	17.2	0.74	1.0	0.76	1.2	3.3	3.7	3.4	3.9	3.3	4.3	3.3	4.3
C 36 2_19.0	19.0	0.74	1.0	0.76	1.2	3.3	3.7	3.4	3.9	3.3	4.3	3.3	4.3
C 36 3_22.1	22.1	—	—	—	—	—	—	4.7	5.2	4.6	5.6	4.6	5.6
C 36 3_26.2	26.2	—	—	—	—	—	—	4.2	4.7	4.1	5.1	4.1	5.1
C 36 3_28.7	28.7	—	—	—	—	—	—	4.2	4.7	4.1	5.1	4.1	5.1
C 36 3_34.6	34.6	—	—	—	—	—	—	3.8	4.3	3.7	4.7	3.7	4.7
C 36 3_38.1	38.1	1.2	1.4	1.2	1.6	3.7	4.2	3.8	4.3	3.7	4.7	3.7	4.7
C 36 3_43.5	43.5	0.86	1.1	0.88	1.3	3.4	3.8	3.5	4.0	3.4	4.4	3.4	4.4
C 36 3_48.2	48.2	0.87	1.1	0.89	1.3	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4
C 36 3_56.2	56.2	0.68	0.94	0.70	1.1	3.2	3.7	3.3	3.8	3.2	4.2	3.2	4.2
C 36 3_62.0	62.0	0.69	0.95	0.71	1.1	3.2	3.7	3.3	3.8	3.2	4.2	3.2	4.2
C 36 3_70.8	70.8	0.57	0.83	0.59	1.0	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1
C 36 3_77.6	77.6	0.55	0.81	0.57	1.0	3.1	3.5	3.2	3.7	3.1	4.1	3.1	4.1
C 36 3_83.1	83.1	0.51	0.77	0.53	0.97	3.1	3.5	3.1	3.6	3.0	4.0	3.0	4.0
C 36 3_91.9	91.9	0.48	0.74	0.50	0.94	3.0	3.5	3.1	3.6	3.0	4.0	3.0	4.0
C 36 3_102.2	102.2	0.46	0.72	0.48	0.92	3.0	3.4	3.1	3.6	3.0	4.0	3.0	4.0
C 36 3_111.5	111.5	0.43	0.69	0.45	0.89	3.0	3.4	3.1	3.6	3.0	4.0	3.0	4.0
C 36 3_125.8	125.8	0.41	0.67	0.43	0.87	3.0	3.4	3.0	3.5	2.9	3.9	2.9	3.9
C 36 3_139.8	139.8	0.38	0.64	0.40	0.84	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9
C 36 3_162.0	162.0	0.36	0.62	0.38	0.82	2.9	3.3	3.0	3.5	2.9	3.9	2.9	3.9
C 36 3_183.5	183.5	0.34	0.60	0.36	0.80	2.9	3.3	3.0	3.5	2.9	3.9	2.9	3.9
C 36 3_206.4	206.4	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	2.9	3.9
C 36 4_230.9	230.9	0.35	0.61	0.37	0.81	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_255.0	255.0	0.35	0.61	0.37	0.81	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_290.9	290.9	0.34	0.60	0.36	0.80	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_318.9	318.9	0.34	0.60	0.36	0.80	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_341.7	341.7	0.34	0.60	0.36	0.80	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_377.9	377.9	0.34	0.60	0.36	0.80	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_420.2	420.2	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_458.4	458.4	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_517.2	517.2	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_574.7	574.7	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_665.9	665.9	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_754.2	754.2	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_848.5	848.5	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—



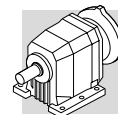
C 41

	i	J (•10 ⁻⁴) [kgm ²]								
			 IEC							
			63	71	80	90	100	112	132	
C 41 2_2.7	2.7	10	—	—	13	13	14	14	29	21
C 41 2_3.6	3.6	6.0	—	—	8.9	8.8	10	10	25	17
C 41 2_4.7	4.7	3.7	—	—	6.6	6.5	7.8	7.8	23	14
C 41 2_6.0	6.0	2.5	—	—	5.4	5.3	6.6	6.6	21	13
C 41 2_6.4	6.4	4.3	—	—	7.2	7.1	8.4	8.4	23	15
C 41 2_7.1	7.1	4.1	—	—	7.0	6.9	8.2	8.2	23	15
C 41 2_8.6	8.6	2.9	—	—	5.8	5.7	7.0	7.0	22	13
C 41 2_9.6	9.6	2.8	—	—	5.7	5.6	6.9	6.9	22	13
C 41 2_11.2	11.2	1.8	—	—	4.7	4.6	5.9	5.9	21	12
C 41 2_12.4	12.4	1.8	—	—	4.7	4.6	5.9	5.9	21	12
C 41 2_14.2	14.2	1.4	2.9	2.9	4.3	4.2	5.5	5.5	20	12
C 41 2_15.8	15.8	1.3	2.8	2.8	4.2	4.1	5.4	5.4	20	12
C 41 2_17.8	17.8	1.0	2.5	2.5	3.9	3.8	5.1	5.1	20	12
C 41 2_19.8	19.8	0.98	2.5	2.5	3.9	3.8	5.1	5.1	20	12
C 41 2_22.6	22.6	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	11
C 41 2_25.0	25.0	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	11
C 41 2_28.3	28.3	0.44	1.9	1.9	3.3	3.2	4.5	4.5	19	11
C 41 2_31.4	31.4	0.43	1.9	1.9	3.3	3.2	4.5	4.5	19	11
C 41 2_33.4	33.4	0.34	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 2_37.1	37.1	0.33	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 2_44.8	44.8	0.27	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 3_28.5	28.5	2.5	—	—	5.4	5.3	6.6	6.6	21	13
C 41 3_31.2	31.2	2.5	—	—	5.4	5.3	6.6	6.6	21	13
C 41 3_36.8	36.8	1.6	—	—	4.5	4.4	5.7	5.7	21	12
C 41 3_40.3	40.3	1.6	—	—	4.5	4.4	5.7	5.7	21	12
C 41 3_47.0	47.0	1.2	2.7	2.7	4.1	4.0	5.3	5.3	20	12
C 41 3_51.5	51.5	1.2	2.7	2.7	4.1	4.0	5.3	5.3	20	12
C 41 3_58.7	58.7	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	11
C 41 3_64.3	64.3	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	11
C 41 3_74.4	74.4	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	11
C 41 3_81.5	81.5	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	11
C 41 3_93.3	93.3	0.40	1.9	1.9	3.3	3.2	4.5	4.5	19	11
C 41 3_102.3	102.3	0.40	1.9	1.9	3.3	3.2	4.5	4.5	19	11
C 41 3_110.1	110.1	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 3_120.6	120.6	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 3_132.9	132.9	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 3_145.6	145.6	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 3_164.1	164.1	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	11
C 41 3_179.9	179.9	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	11
C 41 3_190.8	190.8	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	11
C 41 3_209.1	209.1	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	11
C 41 4_239.9	239.9	0.15	1.7	1.7	3.1	3.0	4.3	4.3	—	2.1
C 41 4_263.0	263.0	0.15	1.7	1.7	3.1	3.0	4.3	4.3	—	2.1
C 41 4_304.2	304.2	0.13	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_333.4	333.4	0.13	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_381.8	381.8	0.12	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_418.5	418.5	0.12	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_450.2	450.2	0.12	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_493.5	493.5	0.12	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_543.5	543.5	0.12	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_595.8	595.8	0.12	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_671.3	671.3	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_735.9	735.9	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_780.4	780.4	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_855.5	855.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0

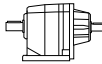


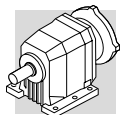
C 41

	i	J ($\cdot 10^{-4}$) [kgm ²]																			
		SERVO																			
		60A		60B 80A		80B		95A		80C 95B 110A		95C 110B		130A		130B 180A		180B			
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 41 2_2.7	2.7	—	—	—	—	—	—	—	—	13	14	13	14	13	14	27	29	29	34		
C 41 2_3.6	3.6	—	—	—	—	—	—	—	—	8.9	9.4	8.8	9.8	8.8	9.8	23	25	25	30		
C 41 2_4.7	4.7	—	—	—	—	—	—	—	—	6.6	7.1	6.5	7.5	6.5	7.5	21	23	23	28		
C 41 2_6.0	6.0	—	—	—	—	5.3	5.8	5.3	5.8	5.4	5.9	5.3	6.3	5.3	6.3	19	22	21	26		
C 41 2_6.4	6.4	—	—	—	—	—	—	—	—	7.2	7.7	7.1	8.1	7.1	8.1	21	24	23	28		
C 41 2_7.1	7.1	—	—	—	—	—	—	—	—	7.0	7.5	6.9	7.9	6.9	7.9	21	24	23	28		
C 41 2_8.6	8.6	—	—	—	—	—	—	—	—	5.8	6.3	5.7	6.7	5.7	6.7	20	22	22	27		
C 41 2_9.6	9.6	—	—	—	—	—	—	—	—	5.7	6.2	5.6	6.6	5.6	6.6	20	22	22	27		
C 41 2_11.2	11.2	—	—	—	—	—	—	—	—	4.7	5.2	4.6	5.6	4.6	5.6	19	21	21	26		
C 41 2_12.4	12.4	—	—	—	—	—	—	—	—	4.7	5.2	4.6	5.6	4.6	5.6	19	21	21	26		
C 41 2_14.2	14.2	—	—	—	—	4.2	4.7	4.2	4.7	4.3	4.8	4.2	5.2	4.2	5.2	18	21	20	25		
C 41 2_15.8	15.8	—	—	—	—	4.1	4.6	4.1	4.6	4.2	4.7	4.1	5.1	4.1	5.1	18	21	20	25		
C 41 2_17.8	17.8	—	—	—	—	3.8	5.3	3.8	5.3	3.9	4.4	3.8	4.8	3.8	4.8	18	20	20	25		
C 41 2_19.8	19.8	—	—	—	—	3.8	4.2	3.8	4.2	3.9	4.4	3.8	4.8	3.8	4.8	18	20	20	25		
C 41 2_22.6	22.6	—	—	—	—	3.4	3.9	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4	18	20	20	25		
C 41 2_25.0	25.0	—	—	—	—	3.4	3.9	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4	18	20	20	25		
C 41 2_28.3	28.3	—	—	—	—	3.3	3.7	3.3	3.7	3.3	3.8	3.2	4.2	3.2	4.2	17	20	19	24		
C 41 2_31.4	31.4	—	—	—	—	3.3	3.7	3.3	3.7	3.3	3.8	3.2	4.2	3.2	4.2	17	20	19	24		
C 41 2_33.4	33.4	—	—	—	—	3.2	3.6	3.2	3.6	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—		
C 41 2_37.1	37.1	—	—	—	—	3.2	3.6	3.2	3.6	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—		
C 41 2_44.8	44.8	—	—	—	—	3.1	3.5	3.1	3.5	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—		
C 41 3_28.5	28.5	—	—	—	—	—	—	—	—	5.4	5.9	5.3	6.3	5.3	6.3	19	22	21	26		
C 41 3_31.2	31.2	—	—	—	—	—	—	—	—	5.4	5.9	5.3	6.3	5.3	6.3	19	22	21	26		
C 41 3_36.8	36.8	—	—	—	—	—	—	—	—	4.5	5.0	4.4	5.4	4.4	5.4	19	21	21	26		
C 41 3_40.3	40.3	—	—	—	—	—	—	—	—	4.5	5.0	4.4	5.4	4.4	5.4	19	21	21	26		
C 41 3_47.0	47.0	—	—	—	—	4.0	4.5	4.0	4.5	4.1	4.6	4.0	5.0	4.0	5.0	18	21	20	25		
C 41 3_51.5	51.5	—	—	—	—	4.0	4.5	4.0	4.5	4.1	4.6	4.0	5.0	4.0	5.0	18	21	20	25		
C 41 3_58.7	58.7	—	—	—	—	3.7	4.2	3.7	4.2	3.8	4.3	3.7	4.7	3.7	4.7	18	20	20	25		
C 41 3_64.3	64.3	—	—	—	—	3.7	4.2	3.7	4.2	3.8	4.3	3.7	4.7	3.7	4.7	18	20	20	25		
C 41 3_74.4	74.4	—	—	—	—	3.4	3.9	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4	18	20	20	25		
C 41 3_81.5	81.5	—	—	—	—	3.4	3.9	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4	18	20	20	25		
C 41 3_93.3	93.3	—	—	—	—	3.2	3.7	3.2	3.7	3.3	3.8	3.2	4.2	3.2	4.2	17	20	19	24		
C 41 3_102.3	102.3	—	—	—	—	3.2	3.7	3.2	3.7	3.3	3.8	3.2	4.2	3.2	4.2	17	20	19	24		
C 41 3_110.1	110.1	—	—	—	—	3.1	3.6	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—		
C 41 3_120.6	120.6	—	—	—	—	3.1	3.6	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—		
C 41 3_132.9	132.9	—	—	—	—	3.1	3.6	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—		
C 41 3_145.6	145.6	—	—	—	—	3.1	3.6	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—		
C 41 3_164.1	164.1	—	—	—	—	3.0	3.5	3.0	3.5	3.1	3.6	3.0	4.0	3.0	4.0	—	—	—	—		
C 41 3_179.9	179.9	—	—	—	—	3.0	3.5	3.0	3.5	3.1	3.6	3.0	4.0	3.0	4.0	—	—	—	—		
C 41 3_190.8	190.8	—	—	—	—	2.9	3.4	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9	—	—	—	—		
C 41 3_209.1	209.1	—	—	—	—	2.9	3.4	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9	—	—	—	—		
C 41 4_239.9	239.9	0.42	0.68	0.44	0.88	—	—	3.0	3.4	3.1	3.6	3.0	4.0	—	—	—	—	—	—		
C 41 4_263.0	263.0	0.42	0.68	0.44	0.88	—	—	3.0	3.4	3.1	3.6	3.0	4.0	—	—	—	—	—	—		
C 41 4_304.2	304.2	0.40	0.66	0.42	0.86	—	—	3.0	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—		
C 41 4_333.4	333.4	0.40	0.66	0.42	0.86	—	—	3.0	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—		
C 41 4_381.8	381.8	0.39	0.65	0.41	0.85	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—		
C 41 4_418.5	418.5	0.39	0.65	0.41	0.85	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—		
C 41 4_450.2	450.2	0.39	0.65	0.41	0.85	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—		
C 41 4_493.5	493.5	0.39	0.65	0.41	0.85	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—		
C 41 4_543.5	543.5	0.39	0.65	0.41	0.85	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—		
C 41 4_595.8	595.8	0.39	0.65	0.41	0.85	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—		
C 41 4_671.3	671.3	0.37	0.63	0.39	0.83	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—		
C 41 4_735.9	735.9	0.37	0.63	0.39	0.83	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—		
C 41 4_780.4	780.4	0.37	0.63	0.39	0.83	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—		
C 41 4_855.5	855.5	0.37	0.63	0.39	0.83	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—		



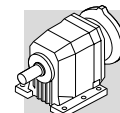
C 51

	i		J (•10-4) [kgm²]									
			 IEC									
			63	71	80	90	100	112	132	160	180	
C 51 2_2.6	2.6	15	—	—	17	17	19	19	33	79	76	25
C 51 2_3.3	3.3	10	—	—	13	13	14	14	29	75	72	21
C 51 2_4.5	4.5	6.3	—	—	9.2	9.1	10	10	25	71	68	17
C 51 2_5.6	5.6	4.1	—	—	7.0	6.9	8.2	8.2	23	69	66	15
C 51 2_7.0	7.0	8.1	—	—	11	11	12	12	27	73	70	19
C 51 2_7.8	7.8	7.8	—	—	11	11	12	12	27	73	70	18
C 51 2_8.8	8.8	6.0	—	—	8.9	8.8	10	10	25	71	68	17
C 51 2_9.8	9.8	5.8	—	—	8.7	8.6	9.9	9.9	25	71	68	16
C 51 2_11.8	11.8	4.1	—	—	7.0	6.9	8.2	8.2	23	69	66	15
C 51 2_13.1	13.1	4.0	—	—	6.9	6.8	8.1	8.1	23	69	66	15
C 51 2_15.0	15.0	2.7	—	—	5.6	5.5	6.8	6.8	22	68	65	13
C 51 2_16.6	16.6	2.6	—	—	5.5	5.4	6.7	6.7	22	68	65	13
C 51 2_18.9	18.9	2.0	3.5	3.5	4.9	4.8	6.1	6.1	21	67	64	13
C 51 2_21.0	21.0	1.9	3.4	3.4	4.8	4.7	6.0	6.0	21	67	64	12
C 51 2_23.4	23.4	1.5	3.0	3.0	4.4	4.3	5.6	5.6	20	66	63	12
C 51 2_25.9	25.9	1.4	2.9	2.9	4.3	4.2	5.5	5.5	20	66	63	12
C 51 2_29.8	29.8	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	66	63	11
C 51 2_33.0	33.0	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	66	63	11
C 51 2_36.4	36.4	0.70	2.2	2.2	3.6	3.5	4.8	4.8	20	66	63	11
C 51 2_40.4	40.4	0.70	2.2	2.2	3.6	3.5	4.8	4.8	20	66	63	11
C 51 2_43.1	43.1	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 51 2_47.8	47.8	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 51 2_51.4	51.4	0.40	1.9	1.9	3.3	3.2	4.5	4.5	—	—	—	11
C 51 2_57.0	57.0	0.40	1.9	1.9	3.3	3.2	4.5	4.5	—	—	—	11
C 51 3_21.8	21.8	6.8	—	—	9.7	9.6	11	11	26	72	69	17
C 51 3_23.9	23.9	6.8	—	—	9.7	9.6	11	11	26	72	69	17
C 51 3_27.4	27.4	5.2	—	—	8.1	8.0	9.3	9.3	24	70	67	16
C 51 3_30.1	30.1	5.2	—	—	8.1	8.0	9.3	9.3	24	70	67	16
C 51 3_37.0	37.0	3.6	—	—	6.5	6.4	7.7	7.7	23	69	66	14
C 51 3_40.5	40.5	3.6	—	—	6.5	6.4	7.7	7.7	23	69	66	14
C 51 3_46.7	46.7	2.4	—	—	5.3	5.2	6.5	6.5	21	67	64	13
C 51 3_51.2	51.2	2.4	—	—	5.3	5.2	6.5	6.5	21	67	64	13
C 51 3_59.0	59.0	1.8	3.3	3.3	4.7	4.6	5.9	5.9	21	67	64	12
C 51 3_64.6	64.6	1.8	3.3	3.3	4.7	4.6	5.9	5.9	21	67	64	12
C 51 3_72.9	72.9	1.3	2.8	2.8	4.2	4.1	5.4	5.4	20	66	63	12
C 51 3_79.9	79.9	1.3	2.8	2.8	4.2	4.1	5.4	5.4	20	66	63	12
C 51 3_93.0	93.0	0.80	2.3	2.3	3.7	3.6	4.9	4.9	20	66	63	11
C 51 3_101.8	101.8	0.80	2.3	2.3	3.7	3.6	4.9	4.9	20	66	63	11
C 51 3_113.6	113.6	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	66	63	11
C 51 3_124.4	124.4	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	66	63	11
C 51 3_134.6	134.6	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 51 3_147.4	147.4	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 51 3_160.5	160.5	0.40	1.9	1.9	3.3	3.2	4.5	4.5	—	—	—	11
C 51 3_175.8	175.8	0.40	1.9	1.9	3.3	3.2	4.5	4.5	—	—	—	11
C 51 3_197.9	197.9	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	11
C 51 3_216.7	216.7	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	11
C 51 4_240.9	240.9	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	1.2
C 51 4_263.8	263.8	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	1.2
C 51 4_297.8	297.8	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	1.2
C 51 4_326.1	326.1	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	1.2
C 51 4_379.6	379.6	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_415.7	415.7	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_463.9	463.9	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_508.0	508.0	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_549.7	549.7	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_602.0	602.0	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_655.4	655.4	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_717.7	717.7	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_808.0	808.0	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_884.9	884.9	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1



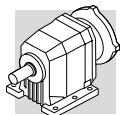
C 51

	i	J ($\cdot 10^{-4}$) [kgm ²]											
		 SERVO											
		80B		95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 51 2_2.6	2.6	—	—	—	—	17	18	17	18	32	34	33	38
C 51 2_3.3	3.3	—	—	—	—	13	14	13	14	27	29	29	34
C 51 2_4.5	4.5	—	—	—	—	9.2	9.7	9.1	10	23	26	25	30
C 51 2_5.6	5.6	—	—	—	—	7.0	7.5	6.9	7.9	21	24	23	28
C 51 2_7.0	7.0	—	—	—	—	11	12	11	12	25	28	27	32
C 51 2_7.8	7.8	—	—	—	—	11	12	11	12	25	27	27	32
C 51 2_8.8	8.8	—	—	—	—	8.9	9.4	8.8	9.8	23	25	25	30
C 51 2_9.8	9.8	—	—	—	—	8.7	9.2	8.6	9.6	23	25	25	30
C 51 2_11.8	11.8	—	—	—	—	7.0	7.5	6.9	7.9	21	24	23	28
C 51 2_13.1	13.1	—	—	—	—	6.9	7.4	6.8	7.8	21	23	23	28
C 51 2_15.0	15.0	—	—	—	—	5.6	6.1	5.5	6.5	20	22	22	27
C 51 2_16.6	16.6	—	—	—	—	5.5	6.0	5.4	6.4	20	22	22	27
C 51 2_18.9	18.9	4.8	5.3	4.8	5.3	4.9	5.4	4.8	5.8	19	21	21	26
C 51 2_21.0	21.0	4.7	5.2	4.7	5.2	4.8	5.3	4.7	5.7	19	21	21	26
C 51 2_23.4	23.4	4.3	4.8	4.3	4.8	4.4	4.3	4.3	5.3	18	21	20	25
C 51 2_25.9	25.9	4.2	4.7	4.2	4.7	4.3	4.8	4.2	5.2	18	21	20	25
C 51 2_29.8	29.8	3.7	4.2	3.7	4.2	3.8	4.3	3.7	4.7	18	20	20	25
C 51 2_33.0	33.0	3.7	4.2	3.7	4.2	3.8	4.3	3.7	4.7	18	20	20	25
C 51 2_36.4	36.4	3.5	4.0	3.5	4.0	3.6	4.1	3.5	4.5	18	20	20	25
C 51 2_40.4	40.4	3.5	4.0	3.5	4.0	3.6	4.1	3.5	4.5	18	20	20	25
C 51 2_43.1	43.1	3.3	3.8	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 51 2_47.8	47.8	3.3	3.8	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 51 2_51.4	51.4	3.2	3.7	3.2	3.7	3.3	3.8	3.2	4.2	—	—	—	—
C 51 2_57.0	57.0	3.2	3.7	3.2	3.7	3.3	3.8	3.2	4.2	—	—	—	—
C 51 3_21.8	21.8	—	—	—	—	9.7	10	9.6	11	24	26	26	31
C 51 3_23.9	23.9	—	—	—	—	9.7	10	9.6	11	24	26	26	31
C 51 3_27.4	27.4	—	—	—	—	8.1	8.6	8.0	9.0	22	25	24	29
C 51 3_30.1	30.1	—	—	—	—	8.1	8.6	8.0	9.0	22	25	24	29
C 51 3_37.0	37.0	—	—	—	—	6.5	7.0	6.4	7.4	21	23	23	28
C 51 3_40.5	40.5	—	—	—	—	6.5	7.0	6.4	7.4	21	23	23	28
C 51 3_46.7	46.7	—	—	—	—	5.3	5.8	5.2	6.2	19	22	21	26
C 51 3_51.2	51.2	—	—	—	—	5.3	5.8	5.2	6.2	19	22	21	26
C 51 3_59.0	59.0	4.6	5.1	4.6	5.1	4.7	5.2	4.6	5.6	19	21	21	26
C 51 3_64.6	64.6	4.6	5.1	4.6	5.1	4.7	5.2	4.6	5.6	19	21	21	26
C 51 3_72.9	72.9	4.1	4.6	4.1	4.6	4.2	5.2	4.1	5.1	18	21	20	25
C 51 3_79.9	79.9	4.1	4.6	4.1	4.6	4.2	5.2	4.1	5.1	18	21	20	25
C 51 3_93.0	93.0	3.6	4.1	3.6	4.1	3.7	4.2	3.6	4.6	18	20	20	25
C 51 3_101.8	101.8	3.6	4.1	3.6	4.1	3.7	4.2	3.6	4.6	18	20	20	25
C 51 3_113.6	113.6	3.4	3.9	3.4	3.9	3.5	4.0	3.4	4.4	18	20	20	25
C 51 3_124.4	124.4	3.4	3.9	3.4	3.9	3.5	4.0	3.4	4.4	18	20	20	25
C 51 3_134.6	134.6	3.3	3.8	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 51 3_147.4	147.4	3.3	3.8	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 51 3_160.5	160.5	3.2	3.7	3.2	3.7	3.3	3.8	3.2	4.2	—	—	—	—
C 51 3_175.8	175.8	3.2	3.7	3.2	3.7	3.3	3.8	3.2	4.2	—	—	—	—
C 51 3_197.9	197.9	3.1	3.6	3.1	3.6	3.2	3.7	3.1	4.1	—	—	—	—
C 51 3_216.7	216.7	3.1	3.6	3.1	3.6	3.2	3.7	3.1	4.1	—	—	—	—
C 51 4_240.9	240.9	—	—	3.1	3.6	3.2	3.7	3.1	4.1	—	—	—	—
C 51 4_263.8	263.8	—	—	3.1	3.6	3.2	3.7	3.1	4.1	—	—	—	—
C 51 4_297.8	297.8	—	—	3.1	3.6	3.2	3.7	3.1	4.1	—	—	—	—
C 51 4_326.1	326.1	—	—	3.1	3.6	3.2	3.7	3.1	4.1	—	—	—	—
C 51 4_379.6	379.6	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_415.7	415.7	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_463.9	463.9	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_508.0	508.0	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_549.7	549.7	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_602.0	602.0	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_655.4	655.4	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_717.7	717.7	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_808.0	808.0	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_884.9	884.9	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—



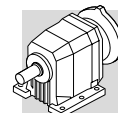
C 61

	i	J (•10 ⁻⁴) [kgm ²]										
			 IEC									
			63	71	80	90	100	112	132	160	180	
C 61 2_2.8	2.8	30	—	—	—	—	—	—	49	78	76	52
C 61 2_3.7	3.7	19	—	—	22	22	23	23	38	78	76	41
C 61 2_4.6	4.6	14	—	—	17	17	18	18	33	78	76	36
C 61 2_6.0	6.0	8.8	—	—	12	12	13	13	28	78	76	31
C 61 2_6.7	6.7	14	—	—	—	—	—	—	33	78	76	36
C 61 2_7.5	7.5	13	—	—	—	—	—	—	32	78	76	35
C 61 2_8.8	8.8	13	—	—	16	16	17	17	32	78	76	35
C 61 2_9.8	9.8	12	—	—	15	15	16	16	31	78	76	34
C 61 2_10.9	10.9	9.6	—	—	13	12	14	14	29	78	76	31
C 61 2_12.1	12.1	9.2	—	—	12	12	13	13	28	78	76	31
C 61 2_14.3	14.3	5.8	—	—	8.7	8.6	9.9	9.9	25	78	76	28
C 61 2_15.9	15.9	5.6	—	—	8.5	8.4	9.7	9.7	25	78	76	27
C 61 2_17.7	17.7	4.4	—	—	7.3	7.2	8.5	8.5	23	78	76	26
C 61 2_19.6	19.6	4.3	—	—	7.2	7.1	8.4	8.4	23	78	76	26
C 61 2_22.4	22.4	3.2	4.7	4.7	6.1	6.0	7.3	7.3	22	78	76	25
C 61 2_24.8	24.8	3.1	4.6	4.6	6.0	5.9	7.2	7.2	22	78	76	25
C 61 2_27.4	27.4	2.1	3.6	3.6	5.0	4.9	6.2	6.2	21	78	76	24
C 61 2_30.4	30.4	2.2	3.7	3.7	5.1	5.0	6.3	6.3	21	78	76	24
C 61 2_34.2	34.2	1.5	3.0	3.0	4.4	4.3	5.6	5.6	20	78	76	23
C 61 2_38.0	38.0	1.5	3.0	3.0	4.4	4.3	5.6	5.6	20	78	76	23
C 61 3_26.8	26.8	10	—	—	13	13	14	14	29	78	76	32
C 61 3_29.4	29.4	10	—	—	13	13	14	14	29	78	76	32
C 61 3_33.0	33.0	8.1	—	—	11	11	12	12	27	78	76	30
C 61 3_36.1	36.1	8.1	—	—	11	11	12	12	27	78	76	30
C 61 3_43.4	43.4	5.0	—	—	7.9	7.8	9.1	9.1	24	78	76	27
C 61 3_47.6	47.6	5.0	—	—	7.9	7.8	9.1	9.1	24	78	76	27
C 61 3_53.5	53.5	3.9	—	—	6.8	6.7	8.0	8.0	23	78	76	26
C 61 3_58.6	58.6	3.8	—	—	6.7	6.6	7.9	7.9	23	78	76	26
C 61 3_67.7	67.7	2.8	4.3	4.3	5.7	5.6	6.9	6.9	22	78	76	25
C 61 3_74.2	74.2	2.8	4.3	4.3	5.7	5.6	6.9	6.9	22	78	76	25
C 61 3_83.0	83.0	1.9	3.4	3.4	4.8	4.7	6.0	6.0	21	78	76	24
C 61 3_91.0	91.0	1.9	3.4	3.4	4.8	4.7	6.0	6.0	21	78	76	24
C 61 3_103.6	103.6	1.3	2.8	2.8	4.2	4.1	5.4	5.4	20	78	76	23
C 61 3_113.6	113.6	1.3	2.8	2.8	4.2	4.1	5.4	5.4	20	78	76	23
C 61 3_128.1	128.1	1.0	2.5	2.5	3.9	3.8	5.1	5.1	20	78	76	23
C 61 3_140.5	140.5	1.0	2.5	2.5	3.9	3.8	5.1	5.1	20	78	76	23
C 61 3_150.0	150.0	0.70	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	23
C 61 3_164.5	164.5	0.70	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	23
C 61 3_178.6	178.6	0.60	2.1	2.1	3.5	3.4	4.7	4.7	—	—	—	22
C 61 3_195.8	195.8	0.60	2.1	2.1	3.5	3.4	4.7	4.7	—	—	—	22
C 61 4_217.4	217.4	0.67	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	11
C 61 4_238.3	238.3	0.67	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	11
C 61 4_275.3	275.3	0.81	2.3	2.3	3.7	3.6	4.9	4.9	—	—	—	11
C 61 4_301.7	301.7	0.81	2.3	2.3	3.7	3.6	4.9	4.9	—	—	—	11
C 61 4_337.7	337.7	0.56	2.1	2.1	3.5	3.4	4.7	4.7	—	—	—	11
C 61 4_370.1	370.1	0.56	2.1	2.1	3.5	3.4	4.7	4.7	—	—	—	11
C 61 4_421.5	421.5	0.53	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_462.0	462.0	0.53	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_521.1	521.1	0.51	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_571.2	571.2	0.51	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_610.1	610.1	0.49	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_668.8	668.8	0.49	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_726.3	726.3	0.48	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_796.1	796.1	0.48	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11



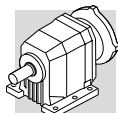
C 61

	i	J ($\cdot 10^{-4}$) [kgm ²]											
		 SERVO											
		80B		95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 61 2_2.8	2.8	—	—	—	—	—	—	—	—	47	49	49	54
C 61 2_3.7	3.7	—	—	—	—	22	23	22	23	36	38	38	43
C 61 2_4.6	4.6	—	—	—	—	17	18	17	18	31	33	33	38
C 61 2_6.0	6.0	—	—	—	—	12	13	12	13	26	28	28	33
C 61 2_6.7	6.7	—	—	—	—	—	—	—	—	31	33	33	38
C 61 2_7.5	7.5	—	—	—	—	—	—	—	—	30	32	32	37
C 61 2_8.8	8.8	—	—	—	—	16	17	16	17	30	32	32	37
C 61 2_9.8	9.8	—	—	—	—	15	16	15	16	23	31	31	36
C 61 2_10.9	10.9	—	—	—	—	13	14	12	13	27	29	29	34
C 61 2_12.1	12.1	—	—	—	—	12	13	12	13	26	29	28	33
C 61 2_14.3	14.3	—	—	—	—	8.7	9.2	8.6	9.6	23	25	25	30
C 61 2_15.9	15.9	—	—	—	—	8.5	9.0	8.4	9.4	23	25	25	30
C 61 2_17.7	17.7	—	—	—	—	7.3	7.8	7.2	8.2	21	24	23	28
C 61 2_19.6	19.6	—	—	—	—	7.2	7.7	7.1	8.1	21	24	23	28
C 61 2_22.4	22.4	—	—	6.0	6.5	6.1	6.6	6.0	7.0	20	23	22	27
C 61 2_24.8	24.8	—	—	5.9	6.4	6.0	6.5	5.9	6.9	20	23	22	27
C 61 2_27.4	27.4	—	—	4.9	5.4	5.0	5.5	4.9	5.9	19	22	21	26
C 61 2_30.4	30.4	—	—	5.0	5.5	5.1	5.6	5.0	6.0	19	22	21	26
C 61 2_34.2	34.2	—	—	4.3	4.8	4.4	4.9	4.3	5.3	18	21	20	25
C 61 2_38.0	38.0	—	—	4.3	4.8	4.4	4.9	4.3	5.3	18	21	20	25
C 61 3_26.8	26.8	—	—	—	—	13	14	13	14	27	29	29	34
C 61 3_29.4	29.4	—	—	—	—	13	14	13	14	27	29	29	34
C 61 3_33.0	33.0	—	—	—	—	11	12	11	12	25	28	27	32
C 61 3_36.1	36.1	—	—	—	—	11	12	11	12	25	28	27	32
C 61 3_43.4	43.4	—	—	—	—	7.9	8.4	7.8	8.8	22	24	24	29
C 61 3_47.6	47.6	—	—	—	—	7.9	8.4	7.8	8.8	22	24	24	29
C 61 3_53.5	53.5	—	—	—	—	6.8	7.3	6.7	7.7	21	23	23	28
C 61 3_58.6	58.6	—	—	—	—	6.7	7.2	6.6	7.6	21	23	23	28
C 61 3_67.7	67.7	—	—	5.6	6.1	5.7	6.2	5.6	6.6	20	22	22	27
C 61 3_74.2	74.2	—	—	5.6	6.1	5.7	6.2	5.6	6.6	20	22	22	27
C 61 3_83.0	83.0	—	—	4.7	5.2	4.8	5.3	4.7	5.7	19	21	21	26
C 61 3_91.0	91.0	—	—	4.7	5.2	4.8	5.3	4.7	5.7	19	21	21	26
C 61 3_103.6	103.6	—	—	4.1	4.6	4.2	4.7	4.1	5.1	18	21	20	25
C 61 3_113.6	113.6	—	—	4.1	4.6	4.2	4.7	4.1	5.1	18	21	20	25
C 61 3_128.1	128.1	—	—	3.8	4.3	3.9	4.4	3.8	4.8	18	20	20	25
C 61 3_140.5	140.5	—	—	3.8	4.3	3.9	4.4	3.8	4.8	18	20	20	25
C 61 3_150.0	150.0	—	—	3.5	4.0	3.6	4.1	3.5	4.5	—	—	—	—
C 61 3_164.5	164.5	—	—	3.5	4.0	3.6	4.1	3.5	4.5	—	—	—	—
C 61 3_178.6	178.6	—	—	3.4	3.9	3.5	4.0	3.4	4.4	—	—	—	—
C 61 3_195.8	195.8	—	—	3.4	3.9	3.5	4.0	3.4	4.4	—	—	—	—
C 61 4_217.4	217.4	3.5	3.9	3.5	3.9	3.6	4.1	3.5	4.5	—	—	—	—
C 61 4_238.3	238.3	3.5	3.9	3.5	3.9	3.6	4.1	3.5	4.5	—	—	—	—
C 61 4_275.3	275.3	3.6	4.1	3.6	4.1	3.7	4.2	3.6	4.6	—	—	—	—
C 61 4_301.7	301.7	3.6	4.1	3.6	4.1	3.7	4.2	3.6	4.6	—	—	—	—
C 61 4_337.7	337.7	3.4	3.8	3.4	3.8	3.5	4.0	3.4	4.4	—	—	—	—
C 61 4_370.1	370.1	3.4	3.8	3.4	3.8	3.5	4.0	3.4	4.4	—	—	—	—
C 61 4_421.5	421.5	3.4	3.8	3.4	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_462.0	462.0	3.4	3.8	3.4	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_521.1	521.1	3.3	3.8	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_571.2	571.2	3.3	3.8	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_610.1	610.1	3.3	3.7	3.3	3.7	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_668.8	668.8	3.3	3.7	3.3	3.7	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_726.3	726.3	3.3	3.7	3.3	3.7	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_796.1	796.1	3.3	3.7	3.3	3.7	3.4	3.9	3.3	4.3	—	—	—	—



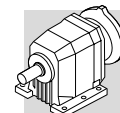
C 70

	i	J (•10 ⁻⁴) [kgm ²]													
			 IEC												
			63	71	80	90	100 112	132	160	180	200	225	250	280	
C 70 2_4.6	4.6	—	—	—	—	—	—	—	136	133	143	—	—	—	99
C 70 2_5.9	5.9	—	—	—	—	—	—	—	119	117	126	—	—	—	32
C 70 2_6.3	6.3	—	—	—	—	—	—	—	129	127	136	—	—	—	93
C 70 2_7.5	7.5	26	—	—	—	—	—	45	105	102	112	—	—	—	68
C 70 2_8.0	8.0	—	—	—	—	—	—	—	115	113	122	—	—	—	78
C 70 2_9.5	9.5	19	—	—	—	—	—	38	97	95	—	—	—	—	60
C 70 2_10.2	10.2	24	—	—	—	—	—	43	102	100	109	—	—	—	65
C 70 2_11.2	11.2	15	—	—	—	—	—	34	94	91	—	—	—	—	56
C 70 2_13.0	13.0	17	—	—	—	—	—	36	95	93	—	—	—	—	58
C 70 2_14.1	14.1	9.9	—	—	12	12	14	29	88	86	—	—	—	—	51
C 70 2_15.3	15.3	14	—	—	—	—	—	33	93	90	—	—	—	—	55
C 70 2_16.7	16.7	6.9	—	—	9.5	9.4	11	26	85	83	—	—	—	—	48
C 70 2_19.3	19.3	9.1	—	—	12	12	13	28	87	85	—	—	—	—	50
C 70 2_22.9	22.9	6.4	—	—	9.0	8.9	10	25	85	83	—	—	—	—	48
C 70 2_27.7	27.7	5.2	—	—	8.0	7.9	9.2	24	84	81	—	—	—	—	46
C 70 2_34.7	34.7	3.2	—	—	6.1	6.0	7.3	22	82	79	—	—	—	—	44
C 70 3_41.3	41.3	4.4	—	—	7.2	7.2	8.5	23	83	80	—	—	—	—	46
C 70 3_44.7	44.7	4.2	—	—	7.0	7.0	8.2	23	83	80	—	—	—	—	45
C 70 3_52.2	52.2	3.0	—	—	5.8	5.8	7.0	22	81	79	—	—	—	—	44
C 70 3_56.5	56.5	2.8	—	—	5.7	5.6	6.9	22	81	79	—	—	—	—	44
C 70 3_65.9	65.9	2.0	—	—	4.9	4.8	6.1	21	80	78	—	—	—	—	43
C 70 3_71.3	71.3	2.0	—	—	4.8	4.8	6.0	21	80	78	—	—	—	—	43
C 70 3_81.4	81.4	1.5	—	—	4.3	4.3	5.6	20	80	78	—	—	—	—	43
C 70 3_88.2	88.2	1.4	—	—	4.3	4.2	5.5	20	80	76	—	—	—	—	43
C 70 3_103.8	103.8	1.0	—	—	3.8	3.8	5.1	20	79	77	—	—	—	—	42
C 70 3_112.4	112.4	0.90	—	—	3.8	3.7	5.0	20	79	77	—	—	—	—	42
C 70 3_126.8	126.8	0.70	—	—	3.5	3.5	4.8	20	79	77	—	—	—	—	42
C 70 3_137.4	137.4	0.70	—	—	3.5	3.5	4.7	20	79	77	—	—	—	—	42
C 70 3_150.3	150.3	0.50	—	—	3.4	3.4	9.6	—	—	—	—	—	—	—	42
C 70 3_162.8	162.8	0.50	—	—	3.4	3.4	4.6	—	—	—	—	—	—	—	42
C 70 3_179.2	179.2	0.40	—	—	3.2	3.3	4.5	—	—	—	—	—	—	—	42
C 70 3_194.1	194.1	0.40	—	—	3.2	3.2	4.5	—	—	—	—	—	—	—	42
C 70 3_220.9	220.9	0.30	—	—	3.1	3.1	4.3	—	—	—	—	—	—	—	41
C 70 3_239.3	239.3	0.30	—	—	3.1	3.1	4.3	—	—	—	—	—	—	—	41
C 70 4_251.3	251.3	0.70	2.2	2.2	3.5	3.5	4.8	20	—	—	—	—	—	—	11
C 70 4_272.2	272.2	0.70	2.2	2.1	3.5	3.5	4.8	20	—	—	—	—	—	—	11
C 70 4_317.9	317.9	0.50	2.0	2.0	3.4	3.3	4.6	19	—	—	—	—	—	—	11
C 70 4_344.3	344.3	0.50	2.0	2.0	3.4	3.3	4.6	19	—	—	—	—	—	—	11
C 70 4_409.4	409.4	0.40	1.8	1.8	3.2	3.2	4.5	19	—	—	—	—	—	—	7.9
C 70 4_443.5	443.5	0.40	1.8	1.8	3.2	3.2	4.5	19	—	—	—	—	—	—	7.9
C 70 4_512.0	512.0	0.30	1.7	1.7	3.1	3.1	4.4	19	—	—	—	—	—	—	7.8
C 70 4_554.7	554.7	0.30	1.7	1.7	3.1	3.1	4.4	19	—	—	—	—	—	—	7.8
C 70 4_606.8	606.8	0.20	1.7	1.7	3.1	3.0	4.3	—	—	—	—	—	—	—	7.8
C 70 4_657.3	657.3	0.20	1.7	1.7	3.1	3.0	4.3	—	—	—	—	—	—	—	7.7
C 70 4_736.0	736.0	0.20	1.6	1.6	3.0	2.9	4.3	—	—	—	—	—	—	—	7.7
C 70 4_797.3	797.3	0.20	1.6	1.6	3.0	2.9	4.3	—	—	—	—	—	—	—	7.7
C 70 4_922.6	922.6	0.10	1.6	1.6	3.0	2.9	4.2	—	—	—	—	—	—	—	7.7
C 70 4_999.5	999.5	0.10	1.6	1.6	3.0	2.9	4.2	—	—	—	—	—	—	—	7.6
C 70 4_1069	1069	0.80	1.6	1.5	2.9	2.9	4.2	—	—	—	—	—	—	—	7.6
C 70 4_1158	1158	0.80	1.6	1.5	2.9	2.9	4.2	—	—	—	—	—	—	—	7.6
C 70 4_1362	1362	0.60	1.5	1.5	2.9	2.9	4.1	—	—	—	—	—	—	—	7.6
C 70 4_1476	1476	0.60	1.5	1.5	2.9	2.9	4.1	—	—	—	—	—	—	—	7.6



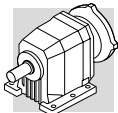
C 80

	i	J (•10 ⁻⁴) [kgm ²]													
			63	71	80	90	100 112	132	160	180	200	225	250	280	
C 80 2_5.6	5.6	—	—	—	—	—	—	—	—	197	211	489	—	—	164
C 80 2_6.1	6.1	—	—	—	—	—	—	—	—	193	210	485	—	—	159
C 80 2_7.0	7.0	—	—	—	—	—	—	—	160	161	174	452	—	—	127
C 80 2_7.6	7.6	—	—	—	—	—	—	—	158	158	172	449	—	—	124
C 80 2_8.9	8.9	—	—	—	—	—	—	—	137	135	146	429	—	—	101
C 80 2_9.6	9.6	—	—	—	—	—	—	—	136	133	144	427	—	—	99
C 80 2_11.1	11.1	38	—	—	—	—	—	56	116	113	124	408	—	—	79
C 80 2_12.0	12.0	36	—	—	—	—	—	55	115	112	123	407	—	—	78
C 80 2_13.8	13.8	28	—	—	—	—	—	47	106	104	135	398	—	—	69
C 80 2_14.9	14.9	27	—	—	—	—	—	46	106	103	134	397	—	—	69
C 80 2_16.7	16.7	21	—	—	—	—	—	40	100	97	127	391	—	—	63
C 80 2_18.1	18.1	21	—	—	—	—	—	40	99	97	127	390	—	—	62
C 80 2_20.5	20.5	14	—	—	17	17	18	33	93	90	120	383	—	—	55
C 80 2_22.2	22.2	14	—	—	16	16	18	33	92	90	120	383	—	—	55
C 80 2_24.0	24.0	13	—	—	16	16	17	32	91	89	119	382	—	—	54
C 80 2_25.9	25.9	13	—	—	16	15	17	32	91	89	118	382	—	—	54
C 80 2_31.3	31.3	8.7	—	—	12	11	13	28	87	85	—	—	—	—	50
C 80 2_39.1	39.1	5.2	—	—	8.0	8.0	9.2	24	84	81	—	—	—	—	46
C 80 3_43.5	43.5	9.6	—	—	12	12	14	29	88	86	—	—	—	—	51
C 80 3_47.4	47.4	9.1	—	—	12	12	13	28	87	85	—	—	—	—	50
C 80 3_57.3	57.3	5.7	—	—	8.5	8.5	9.7	25	84	82	—	—	—	—	47
C 80 3_62.5	62.5	5.4	—	—	8.2	8.2	9.5	24	84	82	—	—	—	—	47
C 80 3_70.5	70.5	4.3	—	—	7.1	7.0	8.3	23	83	80	—	—	—	—	45
C 80 3_76.9	76.9	4.1	—	—	7.0	6.9	8.2	23	82	80	—	—	—	—	45
C 80 3_89.3	89.3	3.0	—	—	5.9	5.8	7.1	22	81	79	—	—	—	—	44
C 80 3_97.4	97.4	2.9	—	—	5.8	5.7	7.0	22	81	79	—	—	—	—	44
C 80 3_109.5	109.5	2.0	—	—	4.8	4.8	6.1	21	80	78	—	—	—	—	43
C 80 3_119.5	119.5	1.9	—	—	4.8	4.7	6.0	21	80	79	—	—	—	—	43
C 80 3_136.7	136.7	1.4	—	—	4.3	4.2	5.5	20	80	78	—	—	—	—	43
C 80 3_149.1	149.1	1.4	—	—	4.2	4.2	5.5	20	80	77	—	—	—	—	43
C 80 3_169.0	169.0	1.0	—	—	3.9	3.8	5.1	20	80	77	—	—	—	—	42
C 80 3_184.4	184.4	1.0	—	—	3.9	3.8	5.1	20	80	77	—	—	—	—	42
C 80 3_197.9	197.9	0.80	—	—	3.7	3.6	4.9	—	—	—	—	—	—	—	42
C 80 3_215.8	215.8	0.80	—	—	3.6	3.6	4.9	—	—	—	—	—	—	—	42
C 80 4_261.9	261.9	1.7	—	—	4.6	4.5	5.8	21	—	—	—	—	—	—	12
C 80 4_285.7	285.7	1.7	—	—	4.6	4.5	5.8	21	—	—	—	—	—	—	12
C 80 4_334.3	334.3	1.2	2.7	2.7	4.0	4.0	5.3	20	—	—	—	—	—	—	11
C 80 4_364.7	364.7	1.2	2.7	2.6	4.0	4.0	5.3	20	—	—	—	—	—	—	11
C 80 4_417.5	417.5	0.90	2.4	2.3	3.7	3.7	5.0	20	—	—	—	—	—	—	11
C 80 4_455.4	455.4	0.90	2.3	2.3	3.7	3.7	5.5	20	—	—	—	—	—	—	11
C 80 4_529.3	529.3	0.50	2.0	2.0	3.4	3.3	4.6	19	—	—	—	—	—	—	11
C 80 4_577.4	577.4	0.50	2.0	2.0	3.4	3.3	4.6	19	—	—	—	—	—	—	11
C 80 4_664.3	664.3	0.40	2.0	1.9	3.3	3.2	4.5	19	—	—	—	—	—	—	11
C 80 4_724.7	724.7	0.40	2.0	1.9	3.3	3.2	4.5	19	—	—	—	—	—	—	11
C 80 4_783.4	783.4	0.30	2.0	1.8	3.2	3.1	4.4	—	—	—	—	—	—	—	9.4
C 80 4_854.6	854.6	0.30	2.0	1.8	3.2	3.1	4.4	—	—	—	—	—	—	—	9.4
C 80 4_945.7	945.7	0.20	1.7	1.7	3.1	3.0	4.3	—	—	—	—	—	—	—	9.3
C 80 4_1032	1032	0.20	1.7	1.7	3.1	3.0	4.3	—	—	—	—	—	—	—	9.3
C 80 4_1168	1168	0.20	1.6	1.6	3.0	3.0	4.2	—	—	—	—	—	—	—	9.2
C 80 4_1274	1274	0.20	1.6	1.6	3.0	3.0	4.2	—	—	—	—	—	—	—	9.2
C 80 4_1358	1358	0.10	1.6	1.6	3.0	2.9	4.2	—	—	—	—	—	—	—	9.2
C 80 4_1481	1481	0.10	1.6	1.6	3.0	2.9	4.2	—	—	—	—	—	—	—	9.2



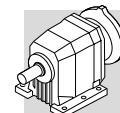
C 90

	i	J (•10 ⁻⁴) [kgm ²]													
			 IEC												
			63	71	80	90	100 112	132	160	180	200	225	250	280	
C 90 2_5.2	5.2	—	—	—	—	—	—	—	—	—	332	610	637	—	619
C 90 2_5.6	5.6	—	—	—	—	—	—	—	—	—	321	599	626	—	609
C 90 2_6.8	6.8	—	—	—	—	—	—	—	—	—	252	530	557	—	540
C 90 2_7.3	7.3	—	—	—	—	—	—	—	—	—	246	524	551	—	533
C 90 2_8.3	8.3	—	—	—	—	—	—	—	—	—	212	490	517	—	499
C 90 2_9.0	9.0	—	—	—	—	—	—	—	—	—	208	485	513	—	495
C 90 2_10.4	10.4	—	—	—	—	—	—	167	164	175	458	484	—	—	461
C 90 2_11.2	11.2	—	—	—	—	—	—	164	162	173	455	482	—	—	458
C 90 2_12.8	12.8	65	—	—	—	—	—	84	143	141	152	436	462	—	439
C 90 2_13.9	13.9	63	—	—	—	—	—	82	141	139	200	434	460	—	437
C 90 2_16.0	16.0	47	—	—	—	—	—	66	125	123	154	417	443	—	420
C 90 2_17.3	17.3	46	—	—	—	—	—	65	124	122	153	416	442	—	419
C 90 2_18.7	18.7	42	—	—	—	—	—	61	121	119	148	412	433	—	415
C 90 2_20.2	20.2	41	—	—	—	—	—	61	199	118	147	411	438	—	414
C 90 2_22.9	22.9	28	—	—	30	30	31	47	106	104	133	397	423	—	400
C 90 2_24.8	24.8	27	—	—	29	29	31	46	105	103	133	396	422	—	399
C 90 2_27.2	27.2	22	—	—	25	25	26	41	101	99	128	391	418	—	394
C 90 2_29.4	29.4	22	—	—	25	24	26	41	100	98	127	391	417	—	394
C 90 2_35.1	35.1	14	—	—	17	17	18	33	93	90	—	—	—	—	386
C 90 3_39.4	39.4	27	—	—	—	—	—	46	105	103	112	398	424	—	412
C 90 3_43.0	43.0	26	—	—	—	—	—	45	104	102	111	396	422	—	410
C 90 3_50.3	50.3	19	—	—	—	—	—	38	98	95	126	389	415	—	403
C 90 3_54.9	54.9	19	—	—	—	—	—	37	97	95	125	389	415	—	401
C 90 3_59.2	59.2	16	—	—	—	—	—	35	94	92	122	385	411	—	398
C 90 3_64.6	64.6	15	—	—	—	—	—	34	94	91	121	384	410	—	398
C 90 3_74.4	74.4	10	—	—	13	13	14	29	88	86	116	379	405	—	393
C 90 3_81.2	81.2	9.8	—	—	12	12	13	29	88	86	115	379	405	—	392
C 90 3_88.2	88.2	7.1	—	—	9.7	9.6	11	26	85	83	113	376	402	—	389
C 90 3_96.2	96.2	6.9	—	—	9.4	9.4	11	26	85	83	112	376	402	—	389
C 90 3_107.0	107.0	5.7	—	—	8.4	8.4	9.6	25	84	82	—	—	—	—	388
C 90 3_116.7	116.7	5.5	—	—	8.3	8.2	9.5	24	84	82	—	—	—	—	388
C 90 3_134.1	134.1	3.5	—	—	6.4	6.3	7.6	22	82	80	—	—	—	—	386
C 90 3_146.3	146.3	3.4	—	—	6.3	6.2	7.5	22	82	80	—	—	—	—	386
C 90 3_157.8	157.8	2.5	—	—	5.4	5.3	6.6	21	81	79	—	—	—	—	385
C 90 3_172.1	172.1	2.4	—	—	5.3	5.2	6.5	21	81	79	—	—	—	—	385
C 90 4_212.4	212.4	4.2	—	—	7.0	7.0	8.3	23	83	80	—	—	—	—	14
C 90 4_231.7	231.7	4.1	—	—	7.0	6.9	8.2	23	82	80	—	—	—	—	14
C 90 4_268.5	268.5	2.8	—	—	5.7	5.6	6.9	22	81	79	—	—	—	—	13
C 90 4_292.9	292.9	2.8	—	—	5.7	2.6	6.9	22	81	79	—	—	—	—	13
C 90 4_339.0	339.0	2.0	3.4	3.4	4.8	4.8	6.0	21	80	78	—	—	—	—	12
C 90 4_369.8	369.8	2.0	3.4	3.4	4.8	4.8	6.0	21	80	78	—	—	—	—	12
C 90 4_419.0	419.0	1.4	2.9	2.9	4.3	4.2	5.5	20	80	78	—	—	—	—	12
C 90 4_457.1	457.1	1.4	2.9	2.9	4.3	4.2	5.5	20	80	78	—	—	—	—	12
C 90 4_534.2	534.2	0.90	2.4	2.4	3.8	3.7	5.0	20	79	77	—	—	—	—	11
C 90 4_582.8	582.8	0.90	2.4	2.4	3.8	3.7	5.0	20	79	77	—	—	—	—	11
C 90 4_652.8	652.8	0.70	2.1	2.1	3.5	3.5	4.7	20	79	77	—	—	—	—	11
C 90 4_712.2	712.2	0.70	2.1	2.1	3.5	3.5	4.7	20	79	77	—	—	—	—	11
C 90 4_773.6	773.6	0.50	2.0	2.0	3.4	3.3	4.6	—	—	—	—	—	—	—	9.7
C 90 4_844.0	844.0	0.50	2.0	2.0	3.4	3.3	4.6	—	—	—	—	—	—	—	9.6
C 90 4_922.3	922.3	0.40	1.8	1.8	3.2	3.2	4.5	—	—	—	—	—	—	—	9.5
C 90 4_1006	1006	0.40	1.8	1.8	3.2	3.2	4.5	—	—	—	—	—	—	—	9.4
C 90 4_1137	1137	0.30	1.7	1.7	3.1	3.0	4.3	—	—	—	—	—	—	—	9.3
C 90 4_1240	1240	0.30	1.7	1.7	3.1	3.0	4.3	—	—	—	—	—	—	—	9.3



C 100

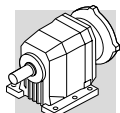
	i	J (•10 ⁻⁴) [kgm ²]													
			63	71	80	90	100 112	132	160	180	200	225	250	280	
C 100 2_4.9	4.9	—	—	—	—	—	—	—	—	—	674	960	987	970	972
C 100 2_5.3	5.3	—	—	—	—	—	—	—	—	—	647	933	960	943	944
C 100 2_6.5	6.5	—	—	—	—	—	—	—	—	—	481	767	794	777	778
C 100 2_7.1	7.1	—	—	—	—	—	—	—	—	—	465	751	778	761	763
C 100 2_8.4	8.4	—	—	—	—	—	—	—	—	—	365	651	678	660	662
C 100 2_9.0	9.0	—	—	—	—	—	—	—	—	—	355	641	668	651	653
C 100 2_10.1	10.1	—	—	—	—	—	—	—	—	—	291	577	604	587	589
C 100 2_10.9	10.9	—	—	—	—	—	—	—	—	—	285	570	597	580	582
C 100 2_12.5	12.5	—	—	—	—	—	—	—	224	222	233	521	550	539	529
C 100 2_13.5	13.5	—	—	—	—	—	—	—	220	218	228	517	545	532	524
C 100 2_15.2	15.2	122	—	—	—	—	—	82	141	200	199	472	499	528	514
C 100 2_16.5	16.5	119	—	—	—	—	—	138	197	195	206	496	525	511	504
C 100 2_18.7	18.7	97	—	—	—	—	—	116	175	173	203	474	501	488	480
C 100 2_20.2	20.2	95	—	—	—	—	—	114	173	171	201	471	499	486	478
C 100 2_22.2	22.2	73	—	—	—	—	—	92	102	150	179	448	477	463	456
C 100 2_24.1	24.1	72	—	—	—	—	—	91	150	148	178	447	476	462	455
C 100 2_29.6	29.6	50	—	—	—	—	54	69	129	127	156	425	454	440	433
C 100 3_34.3	34.3	—	—	—	—	—	—	—	148	146	155	439	465	471	461
C 100 3_36.9	36.9	—	—	—	—	—	—	—	145	143	152	436	462	468	458
C 100 3_42.9	42.9	44	—	—	—	—	—	63	123	120	130	415	441	451	437
C 100 3_46.2	46.2	43	—	—	—	—	—	61	121	118	128	413	439	452	435
C 100 3_53.3	53.3	33	—	—	—	—	—	51	111	109	139	403	429	432	424
C 100 3_57.4	57.4	31	—	—	—	—	—	50	110	107	138	401	427	431	423
C 100 3_64.5	64.5	24	—	—	—	—	—	43	103	101	130	394	420	422	415
C 100 3_69.4	69.4	24	—	—	—	—	—	43	102	100	129	393	419	421	414
C 100 3_79.4	79.4	16	—	—	—	—	20	35	95	92	122	385	411	413	407
C 100 3_85.6	85.6	16	—	—	—	—	19	35	94	92	121	385	411	413	406
C 100 3_92.7	92.7	15	—	—	—	—	18	34	93	91	120	384	410	412	405
C 100 3_99.8	99.8	14	—	—	—	—	18	33	93	90	119	383	409	411	404
C 100 3_111.9	111.9	9.9	—	—	—	—	14	29	88	86	—	—	—	—	392
C 100 3_120.5	120.5	9.6	—	—	—	—	14	29	88	86	—	—	—	—	392
C 100 3_139.7	139.7	6.0	—	—	—	—	10	25	84	82	—	—	—	—	388
C 100 3_150.4	150.4	5.8	—	—	—	—	9.8	25	84	82	—	—	—	—	388
C 100 4_162.1	162.1	13	—	—	16	16	17	32	100	89	—	—	—	—	23
C 100 4_185.4	185.4	9.6	—	—	13	12	14	29	88	86	—	—	—	—	20
C 100 4_199.6	199.6	8.5	—	—	12	12	14	28	88	86	—	—	—	—	20
C 100 4_244.2	244.2	5.7	—	—	8.5	8.5	9.8	25	84	82	—	—	—	—	16
C 100 4_263.0	263.0	5.6	—	—	8.5	8.4	9.7	25	84	82	—	—	—	—	16
C 100 4_300.5	300.5	4.2	—	—	7.1	7.1	8.4	23	83	80	—	—	—	—	15
C 100 4_323.6	323.6	4.2	—	—	7.1	7.0	8.3	23	83	80	—	—	—	—	14
C 100 4_380.5	380.5	3.1	4.5	4.5	5.9	5.5	7.1	22	81	79	—	—	—	—	13
C 100 4_409.8	409.8	3.0	4.5	4.5	5.9	5.5	7.1	22	81	79	—	—	—	—	13
C 100 4_466.7	466.7	2.0	3.5	3.5	4.9	4.8	6.1	20	80	78	—	—	—	—	12
C 100 4_502.6	502.6	2.0	3.5	3.4	4.8	4.8	6.1	20	80	78	—	—	—	—	12
C 100 4_582.6	582.6	1.4	2.9	2.9	4.3	4.2	5.5	20	80	77	—	—	—	—	12
C 100 4_627.4	627.4	1.4	2.9	2.9	4.3	4.2	5.5	20	80	77	—	—	—	—	12
C 100 4_720.3	720.3	1.0	2.5	2.5	3.9	3.4	5.1	20	79	77	—	—	—	—	11
C 100 4_775.7	775.7	1.0	2.5	2.5	3.9	3.4	5.1	20	79	77	—	—	—	—	11
C 100 4_843.3	843.3	0.80	2.3	2.3	3.7	3.6	4.9	—	—	—	—	—	—	—	9.9
C 100 4_908.2	908.2	0.80	2.3	2.3	3.7	3.6	4.9	—	—	—	—	—	—	—	9.9
C 100 4_1004	1004	0.60	2.1	2.0	3.4	3.4	4.7	—	—	—	—	—	—	—	9.7
C 100 4_1081	1081	0.60	2.1	2.0	3.4	3.4	4.7	—	—	—	—	—	—	—	9.7



29 RAPPORTS EXACTS

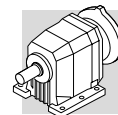
i _N	C12	C22	C32	C36	C41	C51	C61	C70	C80	C90	C100
2.5						2.62895					
2.8	2.76731	2.72212	2.87879	2.68687	2.65909		2.82011				
3.2	3.20743	3.32609		3.18182		3.30758					
3.5	3.65132	3.70709	3.40909	3.48617	3.61111		3.69925				
4.0			3.73518	4.20000							
4.5	4.31203	4.25831	4.50000	4.62201	4.66304	4.45370	4.55556	4.57143			
5.0	4.86842	4.76902	4.95215	5.27807						5.17231	4.92308
5.6	5.59868	5.59006	5.65508	5.84659	5.95263	5.63043		5.85034	5.64103	5.60333	5.33333
6.3	6.23158	6.08696	6.26420		6.36364		6.00176 6.74074	6.25455	6.11111	6.75824	6.52308
7.1		7.08300	7.16498	6.78114	7.06612	6.98684	7.48485	7.46032	7.04000	7.32143	7.06667
8.0	7.62201		8.48485	8.03030		7.75120		8.00433	7.62667	8.32615	8.35165
9.0	8.83422	8.65455	9.29644	8.79842	8.64198	8.79040	8.84211	9.52381	8.86447	9.02000	9.04762
10.0	10.05682	9.64593		10.60000	9.59596	9.75207	9.81818	10.20707	9.60317	10.36264	10.09231
11.2		11.08021	11.20000	11.66507	11.15942	11.83642	10.88889	11.20879	11.09402	11.22619	10.93333
12.5	11.87662	12.40909	12.32536	13.32086	12.39130	13.13131	12.09091	13.03030	12.01852	12.79060	12.45421
14.0	13.40909	14.54545	14.07487	14.75568	14.24561	14.96377	14.34568	14.09524	13.76410 14.91111	13.85648	13.49206
16.0	15.42045	15.83838	15.59091		15.81818	16.60079	15.92929	15.33566 16.70330	16.66272	15.97949	15.21368 16.48148
18.0	17.16364 18.38961	18.13636	18.18182	17.20779	17.79167	18.89035	17.65217		18.05128	17.31111 18.68047	18.66667
20.0	20.62937	20.02424	20.08081	19.00505	19.75568	20.95694 21.81606	19.60079	19.28485	20.53333	20.23718	20.22222
22.4	23.24242	21.45455	22.90909	22.13187	22.55556	23.35417 23.89242	22.35088	22.85315	22.24444	22.91795	22.24852
25.0	25.35537	24.27972	25.11515	26.20879	25.04545	25.90909	24.81818 26.77895		23.95266 25.94872	24.82778	24.10256
28.0	29.50000	27.15152 29.61983	26.90909	28.71572	28.31111 28.49003	27.44759 29.77315	27.41667 29.35385	27.71901		27.17160 29.43590	29.55556
31.5	32.77778	33.09091	29.76224 33.09091		31.22945 31.43636	30.05994 33.03030	30.44318 32.97778		31.33333		
35.5	37.00909	36.76768	36.09917	34.59560	33.38462 36.78930	36.38333 36.95862	34.22222 36.14872	34.74747		35.09848	34.29705 36.93529
40.0	42.31313		40.72727	38.07172	37.06993 40.32673	40.36364 40.47619	38.00000	41.26263	39.11111	39.40239	42.92328
45.0		43.27273	45.25253	43.47576	44.75207 46.96356	43.11538 46.72360	43.44691	44.70118	43.49074	42.98443	46.22507
50.0	47.60227	48.64646	52.43636	48.15865	51.47929	47.83217 51.40152	47.62450	52.16479	47.44444	50.30093	53.25397
56.0	55.16883	54.72727	59.39394	56.16170	58.65385	57.02479 58.98416	53.46087 58.60134	56.51186	57.29733	54.87374 59.20032	57.35043
63.0	66.15152	60.00000 63.27273	66.81818	62.02747	64.29364	64.59803		65.85315	62.50617	64.58217	64.46886
71.0		65.33333 74.81250	74.74747	70.76374	74.35897	72.92219	67.69123 74.20000	71.34091	70.50362	74.44537	69.42801
80.0		82.60000	82.55443	77.57802 83.11931	81.50888	79.86264	83.03333	81.41434	76.91304	81.21313	79.44444
90.0		88.50000	94.18182	91.93238	93.33333	92.96514	91.01731	88.19886	89.27047	88.22009	85.55556 92.67399
100.0		100.15385	103.25118	102.21429	102.30769	101.81319	103.64444	103.79138	97.38596	96.24009	99.80276





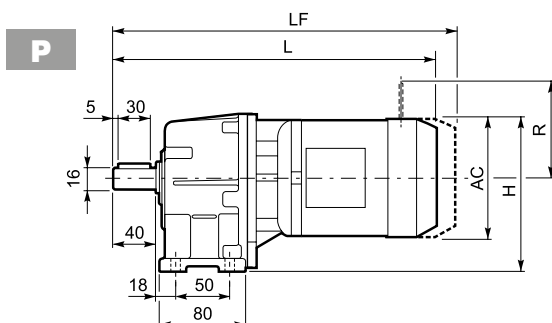
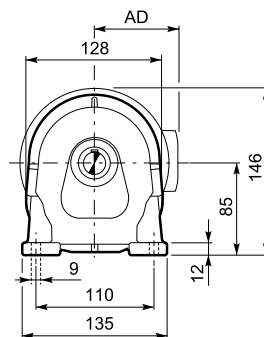
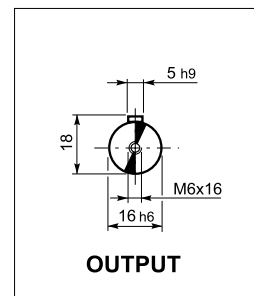
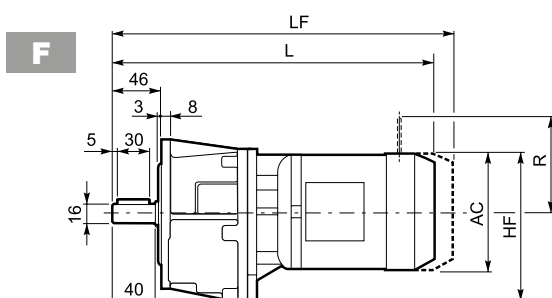
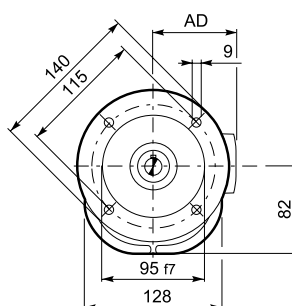
i _N	C12	C22	C32	C36	C41	C51	C61	C70	C80	C90	C100
112.2		112.00000	110.62626	111.50649	110.05917	113.60510	113.61026	112.44066	109.50347	107.00379 116.73140	111.90476
125.5		122.18182	122.35587	125.80220	120.64178	124.41758	128.14222	126.83497	119.45833		120.51282
140.0		136.50000	136.04040 148.40771	139.78022	132.86713 145.64282	134.62559 147.43872	140.46359	137.40455	136.68519 149.11111	134.13580 146.32997	139.68254
160.0		151.66667	167.43434	161.97033	164.10256	160.49861	150.03077 164.45680	150.30339 162.82867	168.99259	157.76199	150.42735 162.10526
180.0		178.50000	186.03816	183.46154	179.88166	175.77423	178.59394	179.18945	184.35556	172.10399	185.37037
200.0		200.66667		206.39423	190.76923 209.11243	197.87075	195.76643	194.12190	197.85897	212.38169	199.62963
225.0		225.75000	215.57172	230.88697		216.70330	217.40754	220.91375	215.84615	231.68911	
250.0		261.00000	244.17508	255.00183	239.94755	240.85197 263.77530	238.31211	239.32323 251.28438	261.85613	268.49591	244.21811 263.00412
280.0			274.69697	290.91758	263.01943		275.27766	272.22475	285.66123	292.90463	300.50725
315.0				318.93187	304.19580 333.44540	297.76563 326.10577	301.74667	317.86109	334.27376	338.95085	323.62319
355.0				341.71272			337.66889 370.13705	344.34951	364.66228	369.76457	380.49708
400.0				377.94421 420.21429	381.81818 418.53147	379.60764 415.73718	421.48741	409.39931	417.48199	419.04541	409.76608
450.0				458.41558	450.24207	463.88750	462.01504	443.51592	455.43490	457.14044	466.73611
500.0				517.18681	493.53457	508.03846	521.11170	512.03745	529.26678		502.63889
560.0				574.65201	543.54736	549.72115	571.21860	554.70724	577.38194	534.22163 582.78723	582.59259
630.0				665.87802	595.81153	602.04142 655.36932	610.12513 668.79101	606.78035 657.34538	664.32106	652.82863	627.40741
710.0				754.23077	671.32867 735.87951	717.74476	726.28202	735.97521	724.71389	712.17669	720.29630
800.0				848.50962	780.41958	807.97222	796.11683	797.30647	783.37099	773.62229 843.95159	775.70370 843.33333
900.0					855.45992	884.87179		922.59000	854.58654 945.71181	922.30089	908.20513
1000.0								999.47250 1069.05117	1031.68561	1006.14643	1003.88889
1125.0								1158.13876	1168.03704	1137.05888	1081.11111
1250.0									1274.22222	1240.42787	
1400.0								1362.26180 1475.78362	1357.84306 1481.28333		



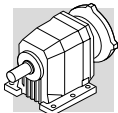


30 DIMENSIONS

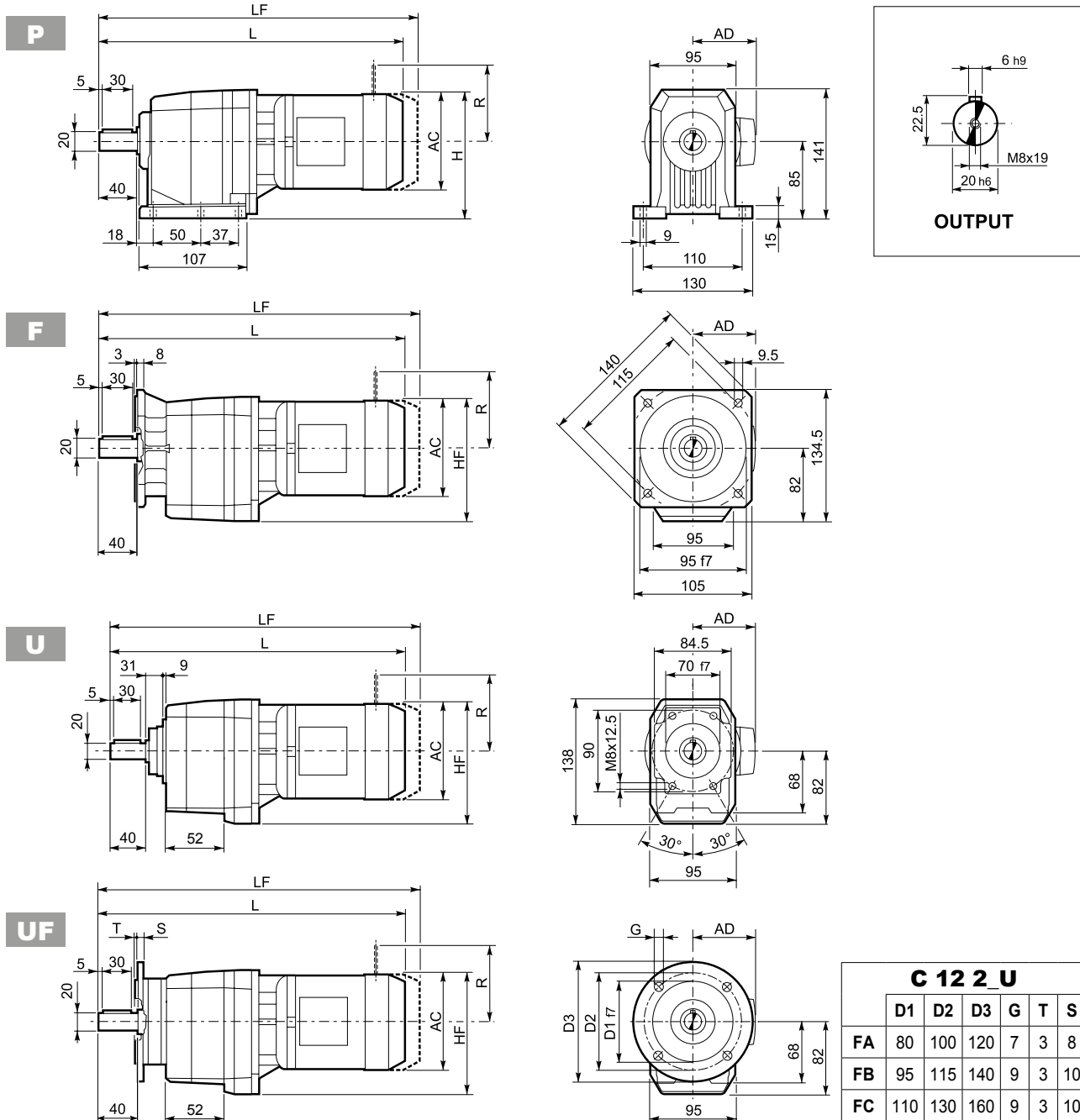
C 05...M/ME/MX/MXN



			Gearmotor - Without brake							Gearmotor - With brake								
			AC	H	HF	L		AD		M...FD				M...FDD				
						plastic	metal			LF		R	AD	LF			R	AD
														plastic	metal			
C 05 2	S0	M0	110	140	137	—	287	91	7	—	—	—	—	—	—	—	—	—
	S05	M05	121	145.5	142.5	—	332	95	8	398	10	96	122	—	—	—	—	—
		ME05	121	145.5	142.5	—	332	95	8	398	10	96	119	—	—	—	—	—
		MX05	121	145.5	142.5	—	332	95	8	398	10	96	119	—	—	—	—	—
	SX05	MXN05	122	146.5	142.5	378.5	356.5	136	9.8	—	—	—	—	425.5	391.2	11.1	106	136
	S1	M1	138	154	151	—	360.5	108	11	423	13	103	135	—	—	—	—	—
		ME1	138	154	151	—	360.5	108	11	423	13	103	135	—	—	—	—	—
		MX1	138	154	151	—	360.5	108	11	423	13	103	135	—	—	—	—	—
	SX10	MXN10	138	154	151	389.5	370	138	12.8	—	—	—	—	482	447.1	15.4	106	138

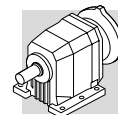


C 12...M/ME/MX/MXN



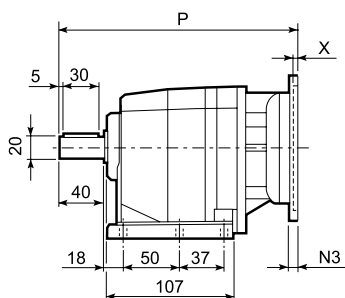
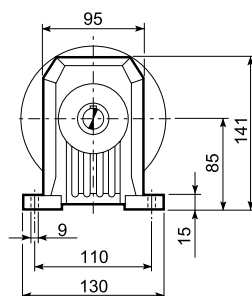
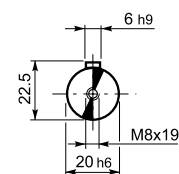
C 12 2 U						
	D1	D2	D3	G	T	S
FA	80	100	120	7	3	8
FB	95	115	140	9	3	10
FC	110	130	160	9	3	10

			Gearmotor - Without brake							Gearmotor - With brake								
			AC	H	HF	L		AD		M...FD				M...FDD				
						plastic	metal			LF		R	AD	LF			R	AD
														plastic	metal			
C 12 2	S05	M05	121	145.5	142.5	—	370.5	95	9	436.5	10	96	122	—	—	—	—	—
		ME05	121	145.5	142.5	—	370.5	95	9	436.5	10	96	122	—	—	—	—	—
		MX05	121	145.5	142.5	—	370.5	95	9	436.5	10	96	122	—	—	—	—	—
	SX05	MXN05	123	146.5	142.5	417	395	122.3	10.8	—	—	—	—	444	409.7	10.8	106	136
		M1	138	154	142.5	—	404.5	108	11	460.5	13	103	135	—	—	—	—	—
	S1	ME1	138	154	142.5	—	404.5	108	11.4	460.5	13	103	135	—	—	—	—	—
		MX1	138	154	142.5	—	404.5	108	11.4	460.5	13	103	135	—	—	—	—	—
		SX10	MXN10	138	154	142.5	433.5	414	123.3	13.8	—	—	—	—	469.5	434.6	13.8	106
	S2	M2S	156	163	160	—	428.5	119	15	498.5	18	129	146	—	—	—	—	—
		ME2S	156	163	160	—	428.5	119	18	498.5	21.9	129	143	—	—	—	—	—
		MX2S	156	163	160	—	472.5	119	20.1	544	19.9	129	143	—	—	—	—	—
	SX20	MXN20	158	164	160	526	509.7	132.8	22.3	—	—	—	—	567	528.8	22.3	115	148
		ME3S	195	182.5	179.5	—	471.5	142	21.5	552	24	160	155	—	—	—	—	—
	S3	MX3S	195	182.5	179.5	—	503.5	142	24.5	581	27	160	155	—	—	—	—	—
ME3L		195	182.5	179.5	—	503.5	142	22	579	28	160	155	—	—	—	—	—	
MX3L		195	182.5	179.5	—	547.5	142	28	623	36	160	155	—	—	—	—	—	



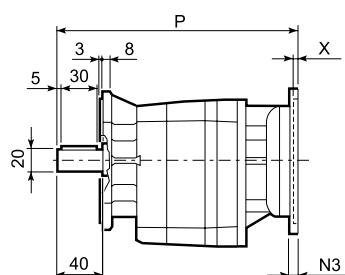
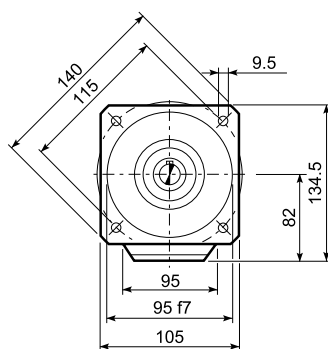
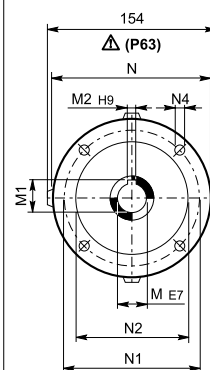
C 12...P (IEC)

P



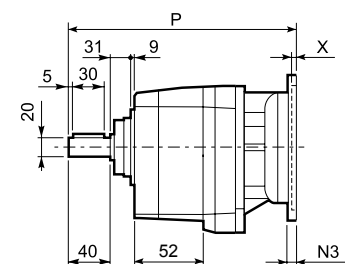
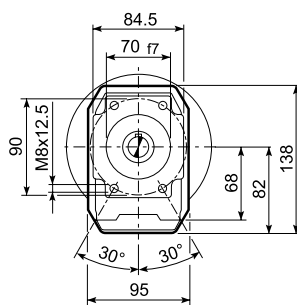
OUTPUT

F

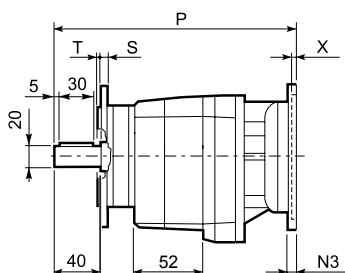
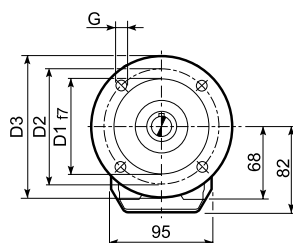


INPUT

U



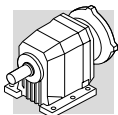
UF



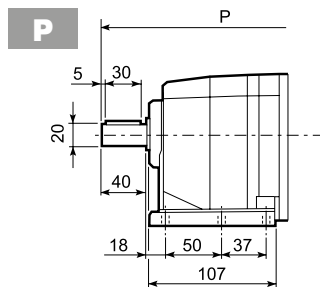
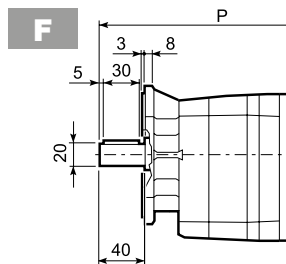
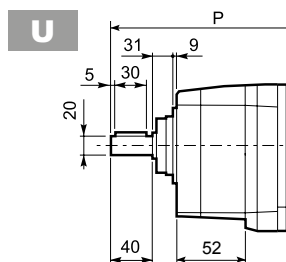
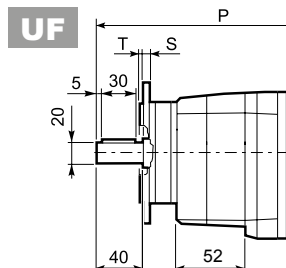
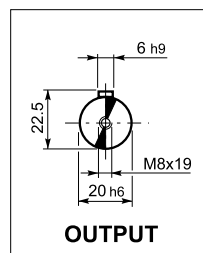
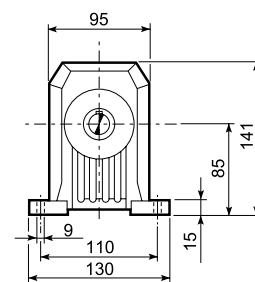
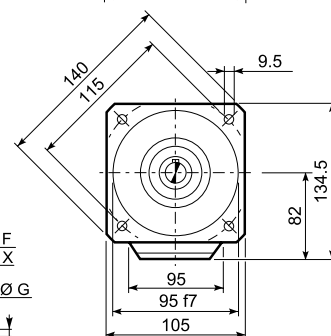
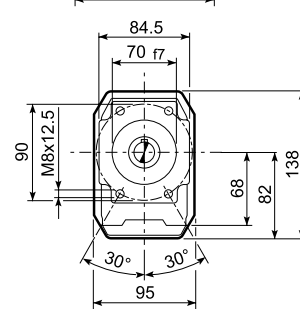
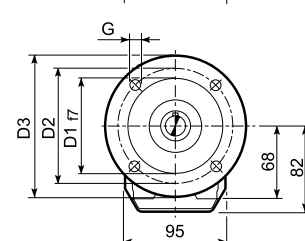
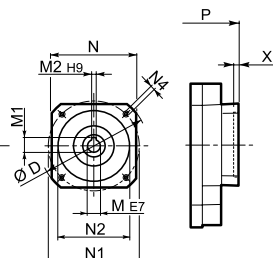
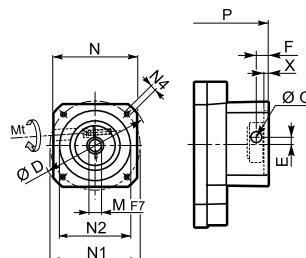
C 12 2 U

	D1	D2	D3	G	T	S
FA	80	100	120	7	3	8
FB	95	115	140	9	3	10
FC	110	130	160	9	3	10

		M	M1	M2	N	N1	N2	N3	N4	X	P	
C 12 2	P63	11	12.8	4	140	115	95	—	M8x19	4	244.5	6
C 12 2	P71	14	16.3	5	160	130	110	—	M8x16	4.5	244.5	6
C 12 2	P80	19	21.8	6	200	165	130	—	M10x14.5	4	264	7
C 12 2	P90	24	27.3	8	200	165	130	—	M10x14.5	4	264	7
C 12 2	P100	28	31.3	8	250	215	180	—	M12x16	4.5	274	11
C 12 2	P112	28	31.3	8	250	215	180	—	M12x16	4.5	274	11



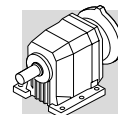
C 12...SK / SC



C 12 2 U						
	D1	D2	D3	G	T	S
FA	80	100	120	7	3	8
FB	95	115	140	9	3	10
FC	110	130	160	9	3	10

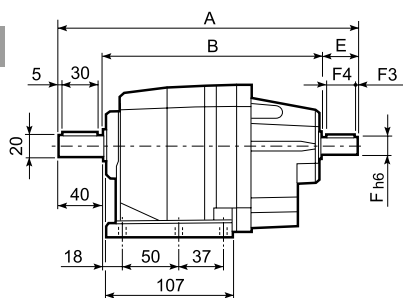
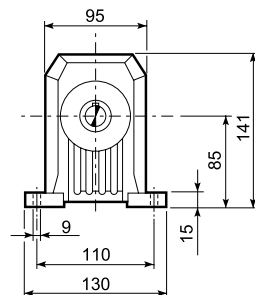
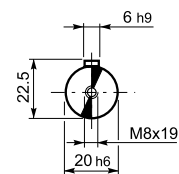
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C 12 2	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	216	6
C 12 2	SK60B	102	14	16.3	5	82	75	60	M5x10	4	223	5
C 12 2	SK80A	115	14	16.3	5	90	100	80	M6x12	4	223	5
C 12 2	SK80C	120	19	21.8	6	96	100	80	M6x12	4	264	7
C 12 2	SK95A	130	14	16.3	5	102	115	95	M8x12	4	264	6
C 12 2	SK95B	130	19	21.8	6	102	115	95	M8x12	4	264	7
C 12 2	SK95C	130	24	27.3	8	102	115	95	M8x12	4	264	7
C 12 2	SK110A	150	19	21.8	6	120	130	110	M8x12	5	264	7
C 12 2	SK110B	150	24	27.3	8	120	130	110	M8x12	5	264	7

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	
C 12 2	SC60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	243	7
C 12 2	SC60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	243	6
C 12 2	SC80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	243	6
C 12 2	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	287.5	8
C 12 2	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	287.5	7
C 12 2	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	287.5	8
C 12 2	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	287.5	8
C 12 2	SC110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	287.5	10
C 12 2	SC110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	287.5	10



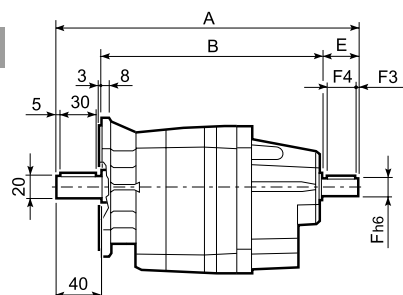
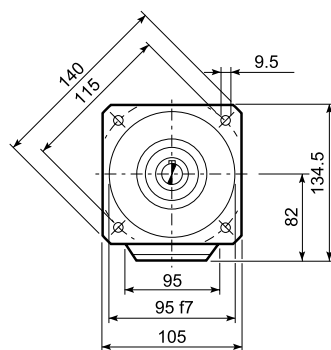
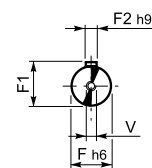
C 12...HS

P



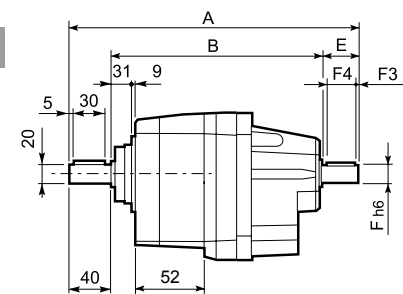
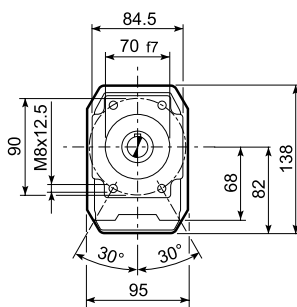
OUTPUT

F

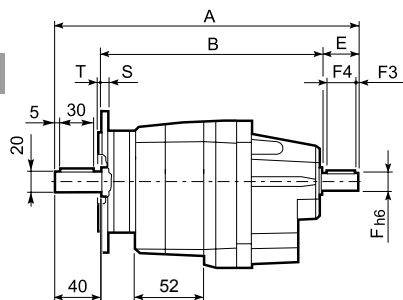
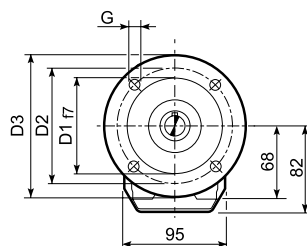


INPUT

U



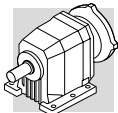
UF



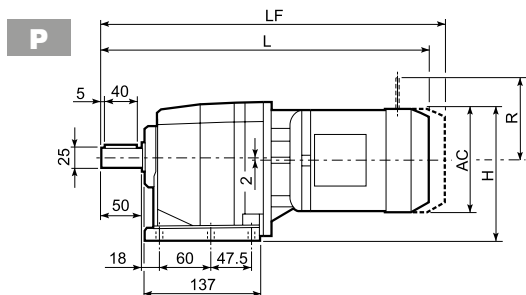
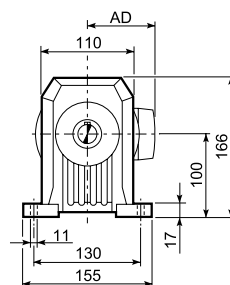
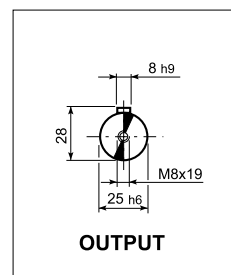
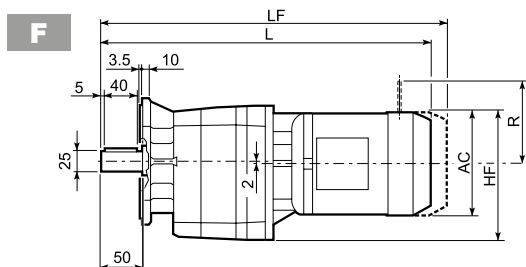
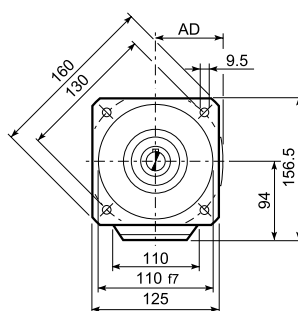
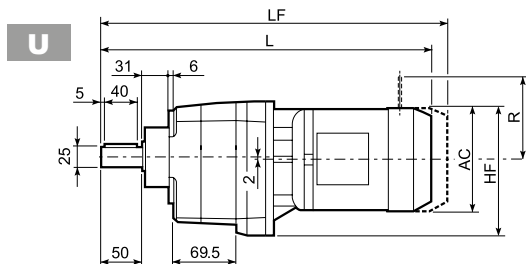
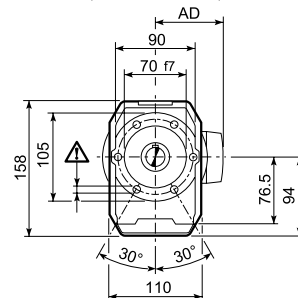
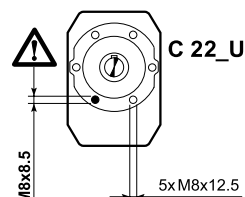
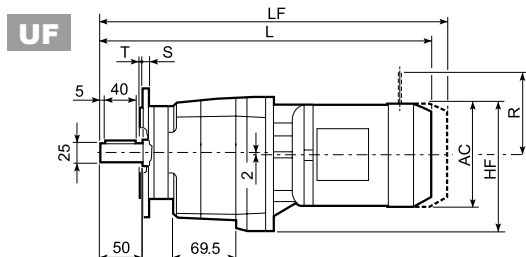
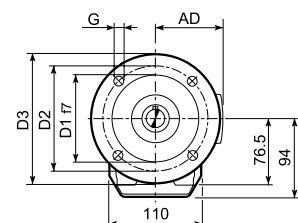
C 12 2 U

	D1	D2	D3	G	T	S
FA	80	100	120	7	3	8
FB	95	115	140	9	3	10
FC	110	130	160	9	3	10

		A	B	E	F	F1	F2	F3	F4	V	
C 12 2	HS	251.5	171.5	40	16	18	5	2.5	35	M6x16	7.8

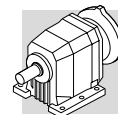


C 22...M/ME/MX/MXN



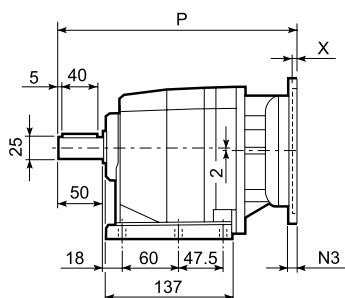
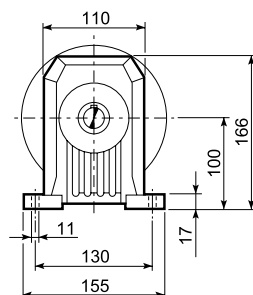
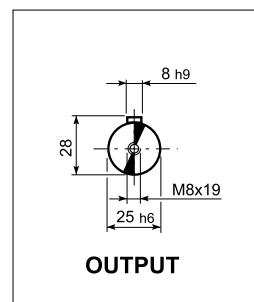
C 22_U						
	D1	D2	D3	G	T	S
FA	95	115	140	9	3	10
FB	110	130	160	9	3	10
FC	130	165	200	11	3.5	11

			Gearmotor - Without brake								Gearmotor - With brake												
			AC			H			HF			L		AD		M...FD				M...FDD			
												plastic	metal			LF		plastic	metal		R	AD	plastic
C 22 2	S05	M05	121	160.5	154.5	—	399	95	8	465	10	96	119	—	—	—	—	—	—	—			
		ME05	121	160.5	154.5	—	399	95	8	465	10	96	119	—	—	—	—	—	—	—			
		MX05	121	160.5	154.5	—	399	95	8	465	10	96	119	—	—	—	—	—	—	—			
	SX05	MXN05	123	161.5	154.5	445.5	423.5	122.3	9.8	—	—	—	—	472.5	438.2	10.9	106	136	—				
	S1	M1	138	169	163	—	428	108	11	489	14	103	135	—	—	—	—	—	—	—			
		ME1	138	169	163	—	428	108	11.4	489	14	103	135	—	—	—	—	—	—	—			
		MX1	138	169	163	—	428	108	11.4	489	14	103	135	—	—	—	—	—	—	—			
	SX10	MXN10	138	169	163	457	437.5	123.3	13.8	—	—	—	—	493	458.1	16.2	106	138	—				
	S2	M2S	156	178	170	—	456	119	16	527	19	129	146	—	—	—	—	—	—	—			
		ME2S	156	178	170	—	456	119	17.6	527	20.6	129	143	—	—	—	—	—	—	—			
		MX2S	156	178	170	—	500	119	21.1	572	24.4	129	143	—	—	—	—	—	—	—			
	SX20	MXN20	158	179	170	553.5	537.2	132.8	23.3	—	—	—	—	594.5	556.3	25.5	115	148	—				
	S3	ME3S	195	197.5	191.5	—	500	142	22.5	596	22.1	160	155	—	—	—	—	—	—	—			
		MX3S	195	197.5	191.5	—	532	142	25.5	622	25.1	160	155	—	—	—	—	—	—	—			
		ME3L	195	197.5	191.5	—	532	142	27	623	26.1	160	155	—	—	—	—	—	—	—			
	C 22 3	S05	M05	121	160.5	154.5	—	454.5	95	11	520.5	12	96	122	—	—	—	—	—	—	—		
			ME05	121	160.5	154.5	—	454.5	95	11	527.5	12	96	119	—	—	—	—	—	—	—		
			MX05	121	160.5	154.5	—	454.5	95	11	527.5	12	96	119	—	—	—	—	—	—	—		
SX05		MXN05	123	161.5	154.5	501	479	122.3	12.8	—	—	—	—	528	493.7	13.9	106	136	—				
S1		M1	138	169	163	—	483.5	108	13	544.5	15	103	135	—	—	—	—	—	—	—			
		ME1	138	169	163	—	483.5	108	13	544.5	15	103	135	—	—	—	—	—	—	—			
		MX1	138	169	163	—	483.5	108	13	544.5	15	103	135	—	—	—	—	—	—	—			
SX10		MXN10	138	169	163	512.5	493	123.3	15.4	—	—	—	—	548.5	513.6	17.8	106	138	—				
S2		ME2S	156	178	170	—	511.5	119	18	581.5	20.3	129	143	—	—	—	—	—	—	—			
		MX2S	156	178	170	—	555.5	119	23.1	627.5	24.1	129	143	—	—	—	—	—	—	—			
		SX20	MXN20	156	178	170	609	592.7	132.8	25.3	—	—	—	—	650	611.8	27.5	115	148	—			
S3		ME3S	195	197.5	191.5	—	555.5	142	24.5	651.5	25.1	160	155	—	—	—	—	—	—	—			
		MX3S	195	197.5	191.5	—	587.5	142	27.5	677.5	28.1	160	155	—	—	—	—	—	—	—			
		ME3L	195	197.5	191.5	—	587.5	142	29	678.5	29.1	160	155	—	—	—	—	—	—	—			
		MX3L	195	197.5	191.5	—	631.5	142	35	723.5	37	160	155	—	—	—	—	—	—	—			

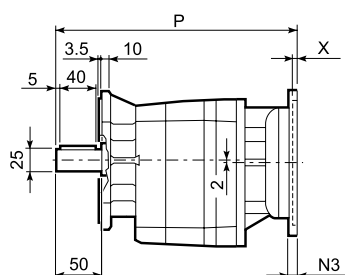
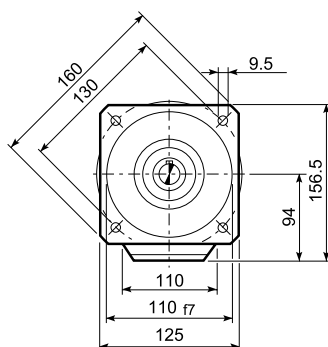
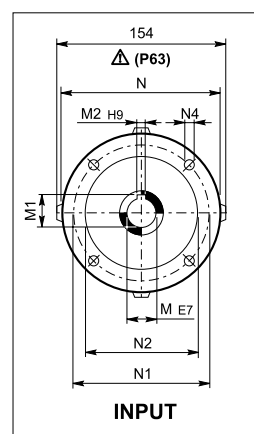


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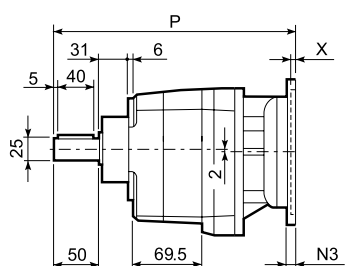
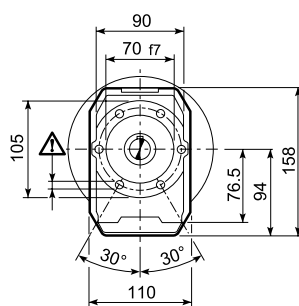
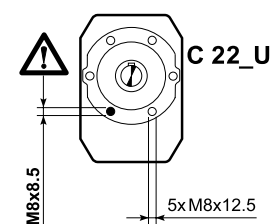
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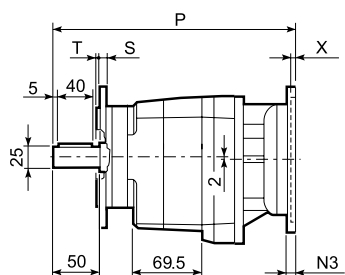
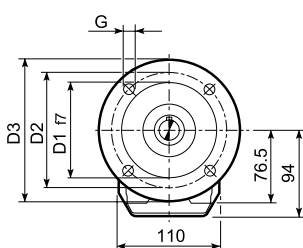
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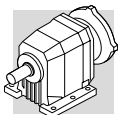


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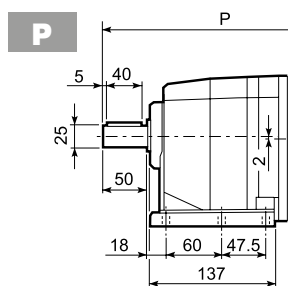
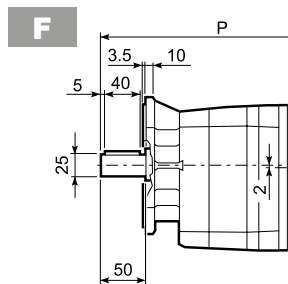
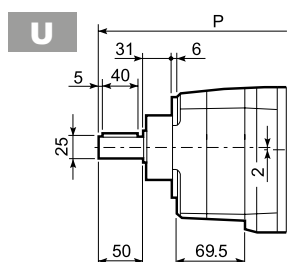
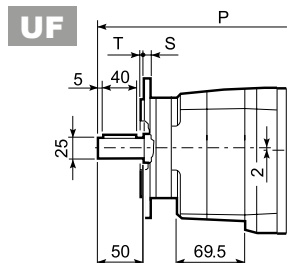
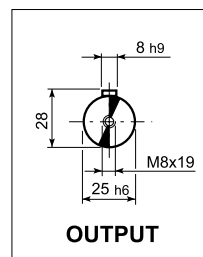
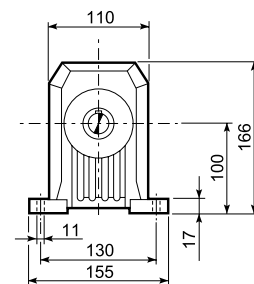
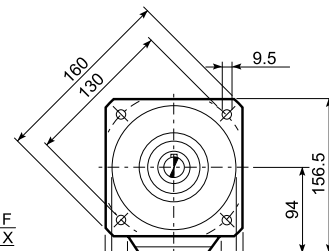
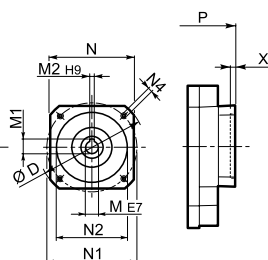


C 22_U						
	D1	D2	D3	G	T	S
FA	95	115	140	9	3	10
FB	110	130	160	9	3	10
FC	130	165	200	11	3.5	11

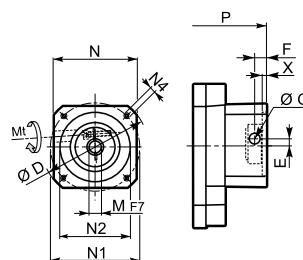
		M	M1	M2	N	N1	N2	N3	N4	X	P	
C 22 2	P63	11	12.8	4	140	115	95	—	M8x19	4	273	7
C 22 2	P71	14	16.3	5	160	130	110	—	M8x16	4.5	273	7
C 22 2	P80	19	21.8	6	200	165	130	—	M10x14.5	4	292.5	8
C 22 2	P90	24	27.3	8	200	165	130	—	M10x14.5	4	292.5	8
C 22 2	P100	28	31.3	8	250	215	180	—	M12x16	4.5	302.5	12
C 22 2	P112	28	31.3	8	250	215	180	—	M12x16	4.5	302.5	12
C 22 3	P63	11	12.8	4	140	115	95	—	M8x19	4	328.5	8
C 22 3	P71	14	16.3	5	160	130	110	—	M8x16	4.5	328.5	8
C 22 3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	348	9
C 22 3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	348	9
C 22 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	358	13
C 22 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	358	13



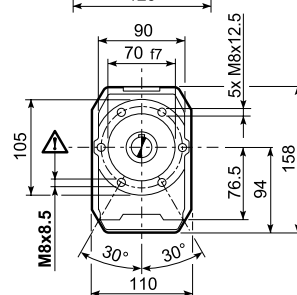
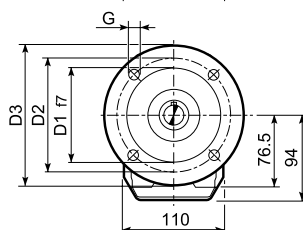
C 22...SK / SC



SK...



SC...

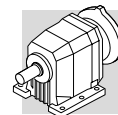


C 22_U						
	D1	D2	D3	G	T	S
FA	95	115	140	9	3	10
FB	110	130	160	9	3	10
FC	130	165	200	11	3.5	11

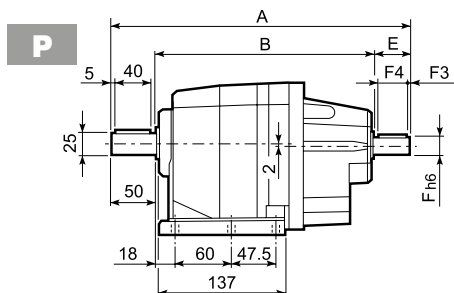
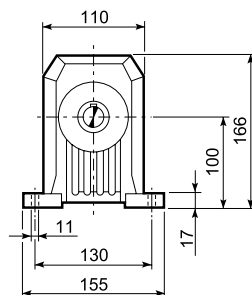
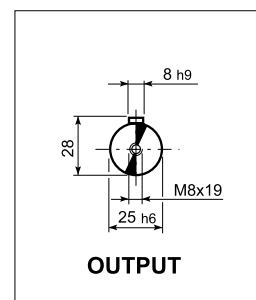
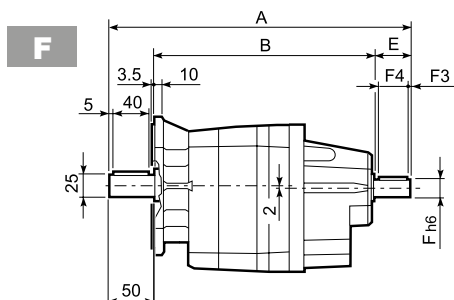
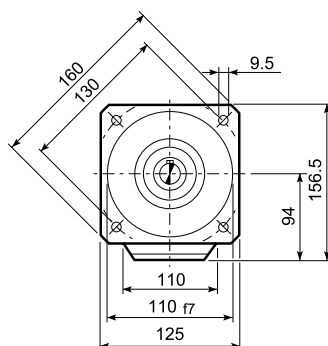
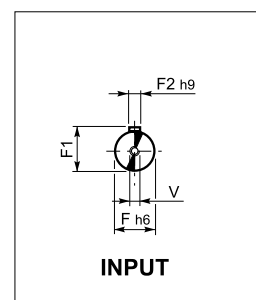
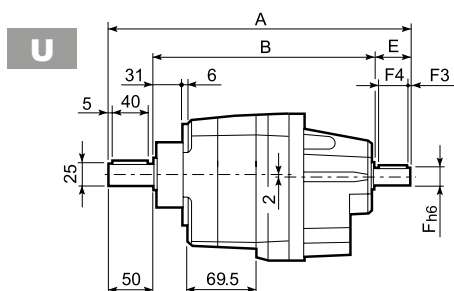
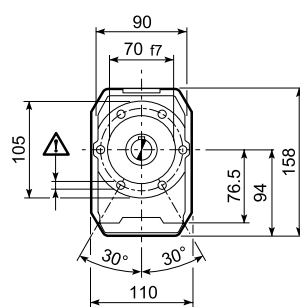
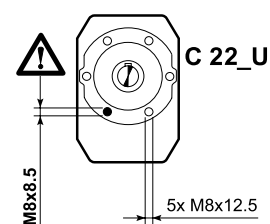
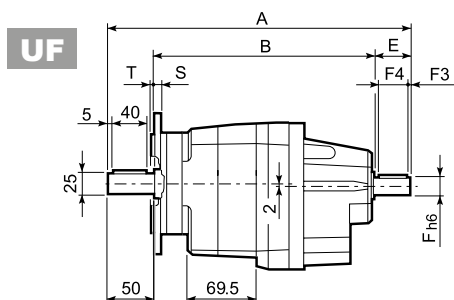
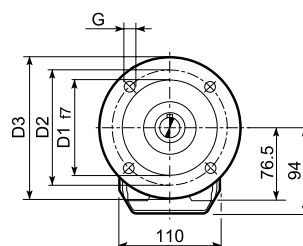
		D	M	M1	M2	N	N1	N2	N4	X	P		
											2x	3x	Kg
C 22 2/3	SK60A*	102	11	12.8	4	82	75	60	M5x10	3.5	224.5	300	6/9
C 22 2/3	SK60B*	102	14	16.3	5	82	75	60	M5x10	4	251.5	307	7/8
C 22 2/3	SK80A*	115	14	16.3	5	90	100	80	M6x12	4	251.5	307	7/8
C 22 2/3	SK80A*	120	19	21.8	6	96	100	80	M6x12	4	292.5	348	8/9
C 22 2/3	SK95A	130	14	16.3	5	102	115	95	M8x12	4	292.5	348	8/9
C 22 2/3	SK95B	130	19	21.8	6	102	115	95	M8x12	4	292.5	348	8/9
C 22 2/3	SK95C	130	24	27.3	8	102	115	95	M8x12	4	292.5	348	8/9
C 22 2/3	SK110A	150	19	21.8	6	120	130	110	M8x12	5	292.5	348	8/9
C 22 2/3	SK110B	150	24	27.3	8	120	130	110	M8x12	5	292.5	348	8/9

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		
													2x	3x	Kg
C 22 2/3	SC60A*	M6 15	102	7	12.5	12.5	11	82	75	60	M5x10	4	271.5	327	7/8
C 22 2/3	SC60B*	M6 15	102	7	12.5	12.5	14	82	75	60	M5x10	4	271.5	327	8/9
C 22 2/3	SC80A*	M6 15	115	6	12.5	12.5	14	90	100	80	M6x12	4	271.5	327	8/9
C 22 2/3	SC80C	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	316	371.5	9/10
C 22 2/3	SC95A	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	316	371.5	9/10
C 22 2/3	SC95B	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	316	371.5	9/10
C 22 2/3	SC95C	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	316	371.5	9/10
C 22 2/3	SC110A	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	316	371.5	10/11
C 22 2/3	SC110B	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	316	371.5	10/11

* Consulter notre service technique en donnant les détails concernant l'application

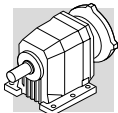


C 22...HS

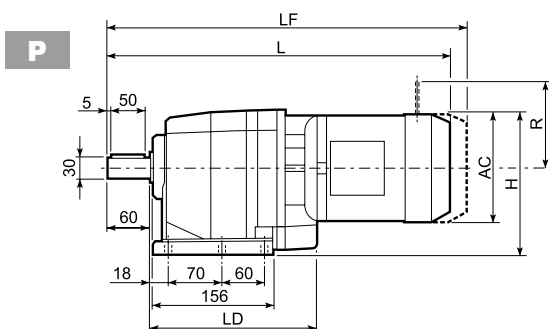
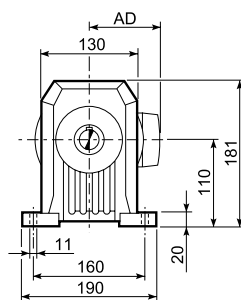
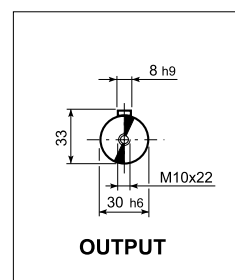
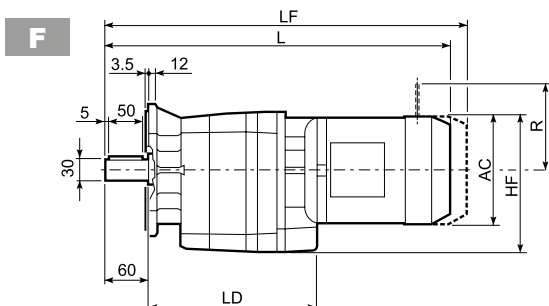
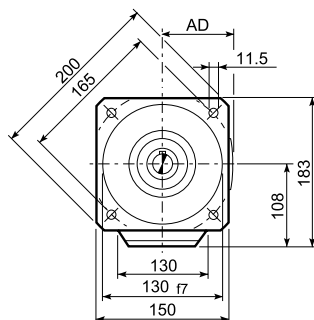
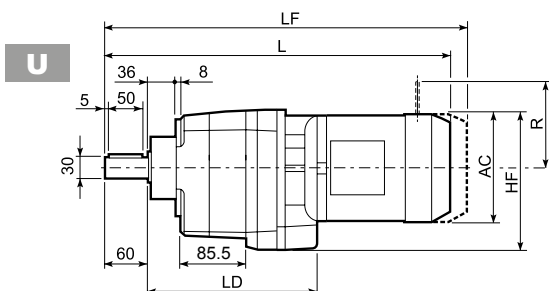
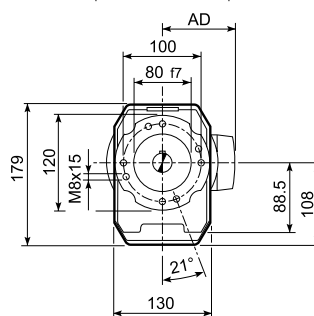
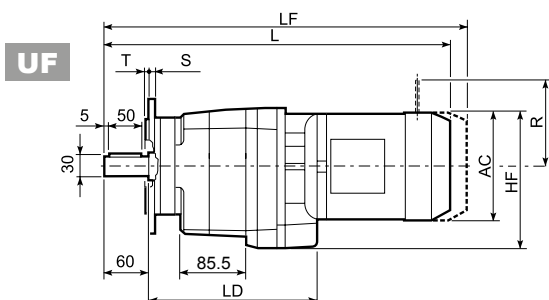
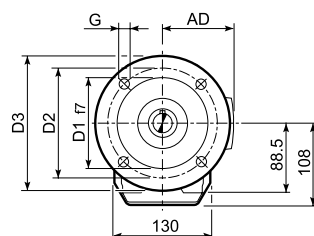


C 22_U						
	D1	D2	D3	G	T	S
FA	95	115	140	9	3	10
FB	110	130	160	9	3	10
FC	130	165	200	11	3.5	11

		A	B	E	F	F1	F2	F3	F4	V	
C 22 2	HS	323	233	40	19	21.5	6	2.5	35	M6x16	7.2
C 22 3		335.5	245.5	40	16	18	6	2.5	36	M6x16	7.5

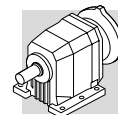


C 32...M/ME/MX/MXN



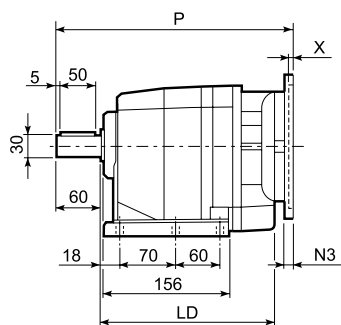
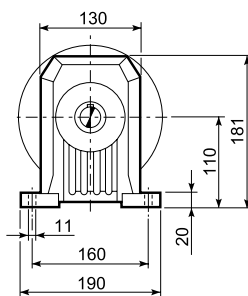
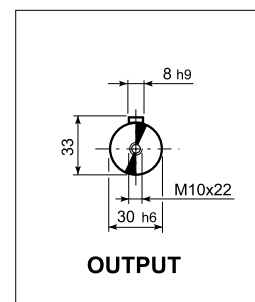
C 32_U						
	D1	D2	D3	G	T	S
FA	110	130	160	9	3	10
FB	130	165	200	11	3.5	11
FC	180	215	250	14	4	13

Gearmotor - Without brake										Gearmotor - With brake									
				AC	H	HF	L		LD	AD		LF		R	AD	M...FD		R	AD
							plastic	metal								plastic	metal		
C 32 2	S1	M1		138	179	177	—	462.5	205.5	108	14	523.5	16	103	135	—	—	—	—
		ME1		138	179	177	—	462.5	205.5	108	14	523.5	16	103	135	—	—	—	—
		MX1		138	179	177	—	462.5	205.5	108	14	523.5	16	103	135	—	—	—	—
	S2	MXN10		138	179	177	491	471.5	205.5	123.3	15.8	—	—	—	—	527	492.1	16.9	106
		M2S		156	188	186	—	490.5	217.5	119	18	561.5	21	129	146	—	—	—	—
		ME2S		156	188	186	—	490.5	217.5	119	19.6	560.5	23.2	129	143	—	—	—	—
		MX2S		156	188	186	—	534.5	217.5	119	23.1	606.5	27	129	143	—	—	—	—
	S3	ME3S		195	207.5	205.5	—	534.5	227.5	142	24.5	630.5	31	160	155	—	—	—	—
		MX3L	MX3S	195	207.5	205.5	—	566.5	227.5	142	32	656.5	35	160	155	—	—	—	—
		MX3L		195	207.5	205.5	—	610.5	227.5	142	38	702.5	36	160	155	—	—	—	—
C 32 3	S4	ME4	MX4	258	239	237	—	674.5	—	193	66	783.5	65	204	210	—	—	—	—
		ME4LB	MX4LA	258	239	237	—	709.5	—	193	74	807.5	87	226	210	—	—	—	—
		MX4LA		258	239	237	—	709.5	—	193	74	807.5	87	226	210	—	—	—	—
	S05	M05		121	170.5	168.5	—	491	—	95	13	557	15	96	122	—	—	—	—
		ME05		121	170.5	168.5	—	491	—	95	13	557	15	96	119	—	—	—	—
		MX05		121	170.5	168.5	—	491	—	95	13	557	15	96	119	—	—	—	—
	SX05	MXN05		123	171.5	168.5	537.5	515.5	—	122.3	14.8	—	—	—	—	564.5	530.2	15.9	106
		M1		138	179	177	—	520	—	108	15	581	17	103	135	—	—	—	—
		ME1		138	179	177	—	520	—	108	15	581	17	103	135	—	—	—	—
		MX1		138	179	177	—	520	—	108	15	581	17	103	135	—	—	—	—
C 32 3	SX10	MXN10		138	179	177	549	529.5	—	123.3	17.4	—	—	—	—	585	550.1	19.8	106
		M2S		156	188	186	—	548	—	119	18	618	26.2	129	143	—	—	—	—
		ME2S		156	188	186	—	592	—	119	23.1	664	30	129	143	—	—	—	—
	SX20	MXN20		158	189	186	645.5	629.2	—	132.8	25.3	—	—	—	—	686.5	648.3	27.5	115
		ME3S		195	207.5	205.5	—	592	—	142	25.5	688	34	160	155	—	—	—	—
		ME3L	MX3S	195	207.5	205.5	—	624	—	142	33	714	38	160	155	—	—	—	—
		MX3L		195	207.5	205.5	—	668	—	142	39	760	46	160	155	—	—	—	—
	S3	M1		138	179	177	—	520	—	108	15	581	17	103	135	—	—	—	—
		ME1		138	179	177	—	520	—	108	15	581	17	103	135	—	—	—	—
		MX1		138	179	177	—	520	—	108	15	581	17	103	135	—	—	—	—

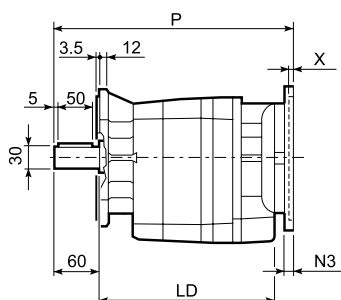
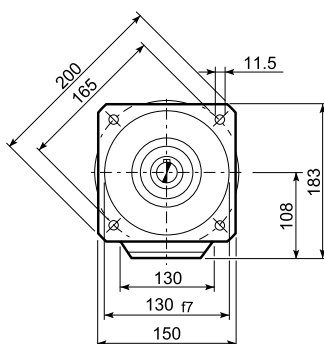
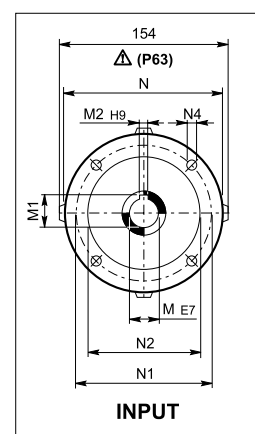


C 32...P(IEC)

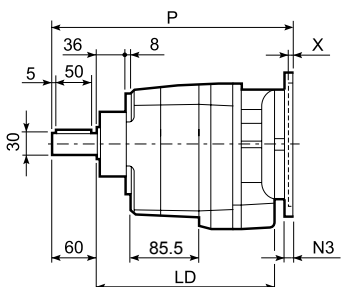
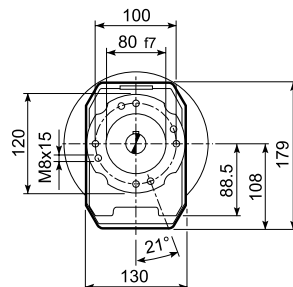
P



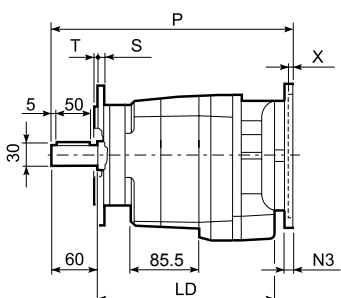
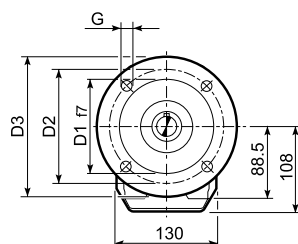
F



U



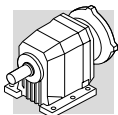
UF



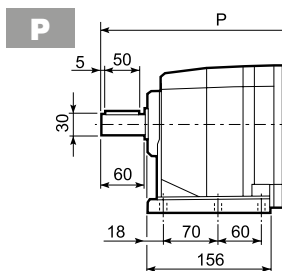
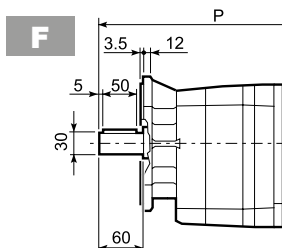
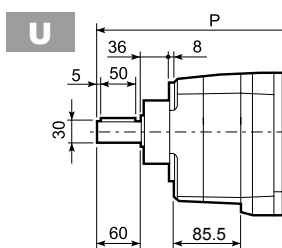
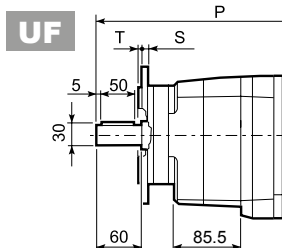
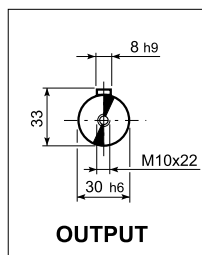
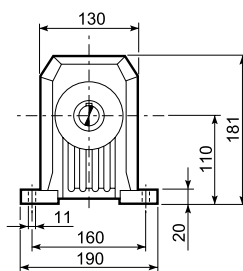
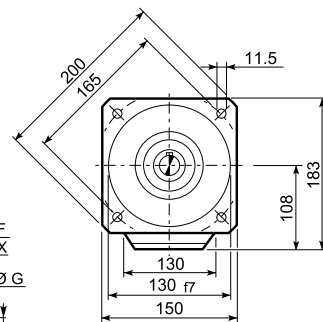
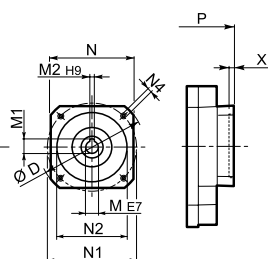
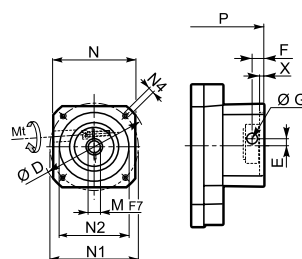
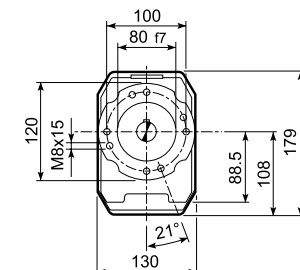
C 32_U

	D1	D2	D3	G	T	S
FA	110	130	160	9	3	10
FB	130	165	200	11	3.5	11
FC	180	215	250	14	4	13

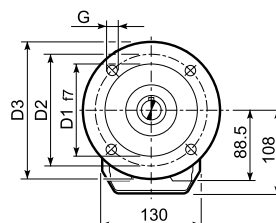
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	
C 32 2	P63	217.5	11	12.8	4	140	115	95	—	M8x19	4	307.5	9
C 32 2	P71	217.5	14	16.3	5	160	130	110	—	M8x16	4.5	307.5	9
C 32 2	P80	227.5	19	21.8	6	200	165	130	—	M10x14.5	4	327	10
C 32 2	P90	227.5	24	27.3	8	200	165	130	—	M10x14.5	4	327	10
C 32 2	P100	227.5	28	31.3	8	250	215	180	—	M12x16	4.5	337	14
C 32 2	P112	227.5	28	31.3	8	250	215	180	—	M12x16	4.5	337	14
C 32 2	P132	—	38	41.3	10	300	265	230	16	14	5	373	17
C 32 3	P63	—	11	12.8	4	140	115	95	—	M8x19	4	365	10
C 32 3	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	365	10
C 32 3	P80	—	19	21.8	6	200	165	130	—	M10x14.5	4	384.5	11
C 32 3	P90	—	24	27.3	8	200	165	130	—	M10x14.5	4	384.5	11
C 32 3	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	394.5	15
C 32 3	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	394.5	15



C 32...SK / SC

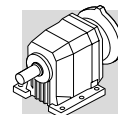


C 32_U						
	D1	D2	D3	G	T	S
FA	110	130	160	9	3	10
FB	130	165	200	11	3.5	11
FC	180	215	250	14	4	13



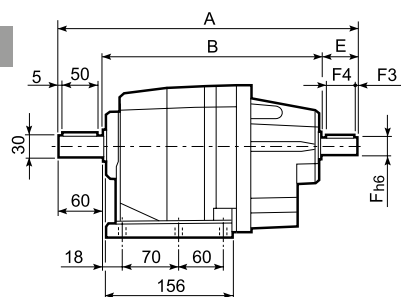
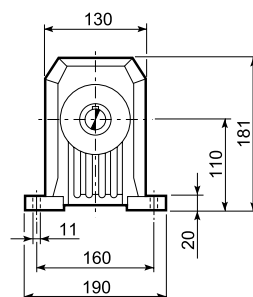
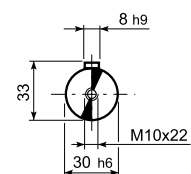
		D	M	M1	M2	N	N1	N2	N4	X	P		
											2x	3x	Kg
C 32 2/3	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	279	336.5	8/9
C 32 2/3	SK60B	102	14	16.3	5	82	75	60	M5x10	4	286	343.5	9/10
C 32 2/3	SK80A	115	14	16.3	5	90	100	80	M6x12	4	286	343.5	9/10
C 32 2/3	SK80C	120	19	21.8	6	96	100	80	M6x12	4	327	384.5	10/11
C 32 2/3	SK95A	130	14	16.3	5	102	115	95	M8x12	4	327	384.5	10/11
C 32 2/3	SK95B	130	19	21.8	6	102	115	95	M8x12	4	327	384.5	10/11
C 32 2/3	SK95C	130	24	27.3	8	102	115	95	M8x12	4	327	384.5	10/11
C 32 2/3	SK110A	150	19	21.8	6	120	130	110	M8x12	5	327	384.5	10/11
C 32 2/3	SK110B	150	24	27.3	8	120	130	110	M8x12	5	327	384.5	10/11
C 32 2	SK130A	188	24	27.3	8	142	165	130	M10x20	5	327	—	11

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		
													2x	3x	Kg
C 32 2/3	SC60A	M6 15	102	7	12.5	12.5	11	82	75	60	M5x10	4	306	363.5	9/10
C 32 2/3	SC60B	M6 15	102	7	12.5	12.5	14	82	75	60	M5x10	4	306	363.5	10/11
C 32 2/3	SC80A	M6 15	115	6	12.5	12.5	14	90	100	80	M6x12	4	306	363.5	10/11
C 32 2/3	SC80C	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	350.5	408	11/12
C 32 2/3	SC95A	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	350.5	408	11/12
C 32 2/3	SC95B	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	350.5	408	11/12
C 32 2/3	SC95C	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	350.5	408	11/12
C 32 2/3	SC 110A	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	350.5	408	12/13
C 32 2/3	SC 110B	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	350.5	408	12/13
C 32 2	SC 130A	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	350.5	—	13



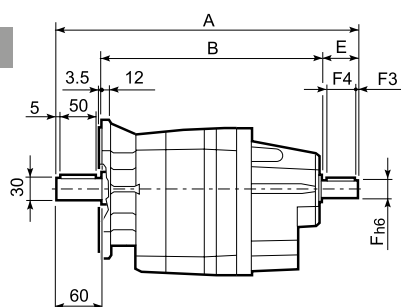
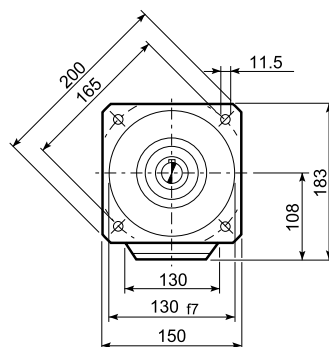
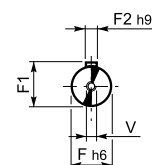
C 32...HS

P



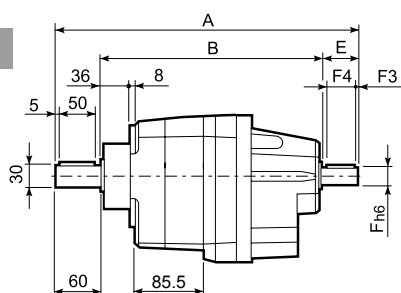
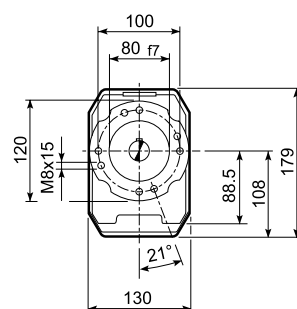
OUTPUT

F

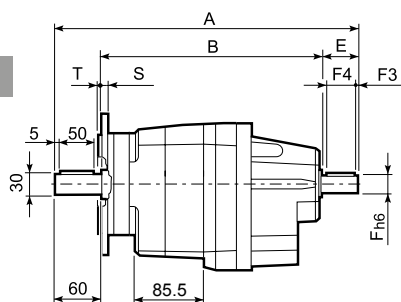
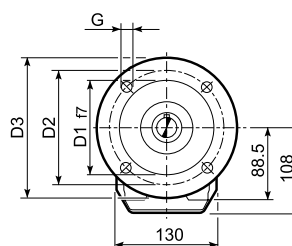


INPUT

U



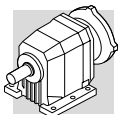
UF



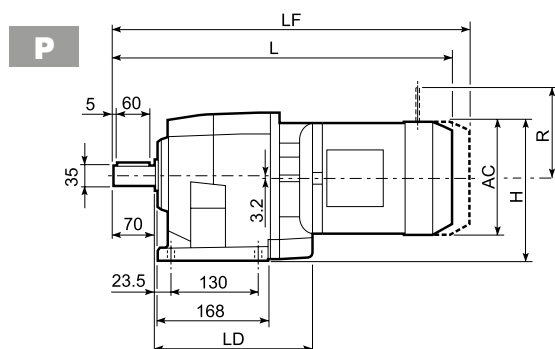
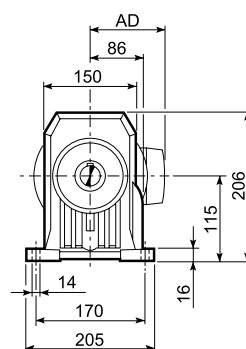
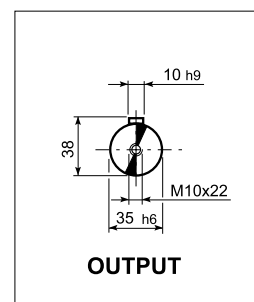
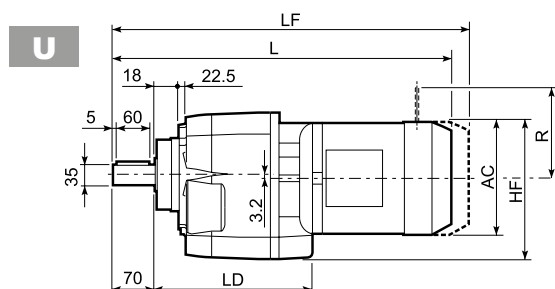
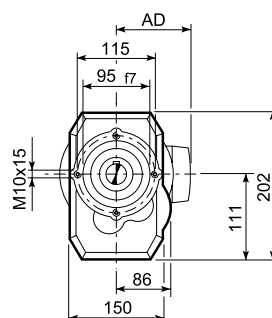
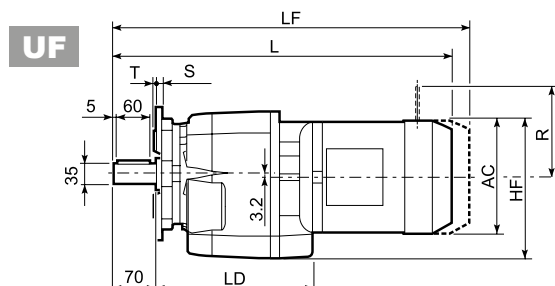
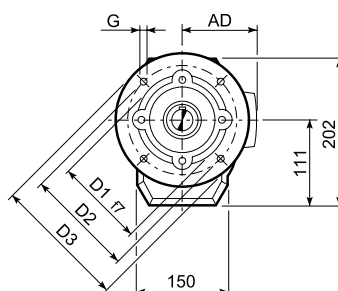
C 32_U

	D1	D2	D3	G	T	S
FA	110	130	160	9	3	10
FB	130	165	200	11	3.5	11
FC	180	215	250	14	4	13

		A	B	E	F	F1	F2	F3	F4	V	
C 32 2	HS	357.5	257.5	40	19	21.5	6	2.5	35	M6x16	11.1
C 32 3		372	272	40	16	18	5	2.5	35	M6x16	10.6

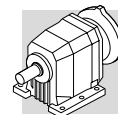


C 36...M/ME/MX/MXN



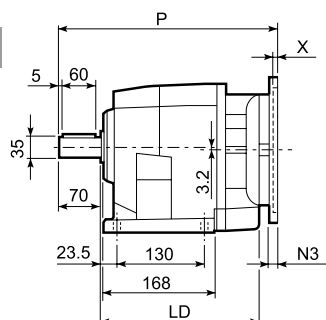
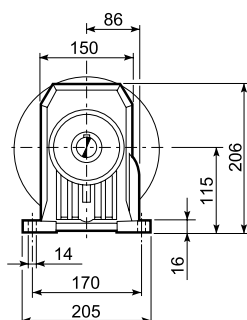
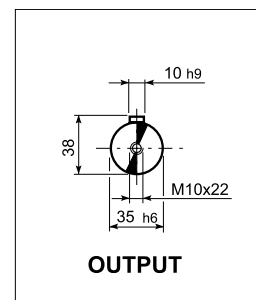
C 36_U						
	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	14

				Gearmotor - Without brake									Gearmotor - With brake									
				AC	H	HF	L		LD	AD		M...FD				M...FDD						
							plastic	metal				LF		R	AD	plastic	metal		R	AD		
C 36 2/3	S1	M1		138	184	177	—	481	214	108	20	542	21	103	135	—	—	—	—	—		
		ME1		138	184	177	—	481	214	108	19	542	21	103	135	—	—	—	—	—		
		MX1		138	184	177	—	481	214	108	19	542	21	103	135	—	—	—	—	—		
	S2	SX10	MXN10	138	184	177	510	490.5	214	123.3	21.4	—	—	—	—	546	511.1	23.5	106	138		
		ME2S		156	193	186	—	509	226	119	23	579	29.2	129	143	—	—	—	—	—		
		MX2S		156	193	186	—	553	226	119	28.1	625	33	129	155	—	—	—	—	—		
	S3	ME3S		195	212.5	205.5	—	553	236	142	29.5	649	37	160	155	—	—	—	—	—		
		ME3L	MX3S	195	212.5	205.5	—	585	236	142	37	675	41	160	155	—	—	—	—	—		
		MX3L		195	212.5	205.5	—	629	236	142	43	721	49	160	155	—	—	—	—	—		
	S4	ME4	MX4	258	244	240	—	693.5	—	193	71	802.5	83	204	210	—	—	—	—	—		
		ME4LB	MX4LA	258	244	240	—	728.5	—	193	79	826.5	93	204	210	—	—	—	—	—		
C 36 4	S05	M05		121	175.5	168.5	—	509.5	—	95	19	575.5	20	96	122	—	—	—	—	—		
		ME05		121	175.5	168.5	—	509.5	—	95	19	575.5	20	96	119	—	—	—	—	—		
		MX05		121	175.5	168.5	—	509.5	—	95	19	575.5	20	96	119	—	—	—	—	—		
	SX05	MXN05		123	176.5	168.5	556	534	—	122.3	20.8	—	—	—	—	583	548.7	21.9	106	136		
		M1		138	184	177	—	538.5	—	108	21	595.5	22	103	135	—	—	—	—	—		
		ME1		138	184	177	—	538.5	—	108	21	595.5	22	103	135	—	—	—	—	—		
	S1	MX1		138	184	177	—	538.5	—	108	21	595.5	22	103	135	—	—	—	—	—		
		SX10	MXN10	138	184	177	567.5	548	—	123.3	23.4	—	—	—	—	603.5	568.6	25.8	106	138		
		ME2S		156	193	186	—	566.5	—	119	24	636.5	30	129	143	—	—	—	—	—		
	S2	MX2S		156	193	186	—	610.5	—	119	29.1	682.5	34	129	155	—	—	—	—	—		
		SX20	MXN20	158	194	186	663.5	647.2	—	132.8	31.3	—	—	—	—	704.5	666.3	33.5	115	148		
		ME3S		195	212.5	205.5	—	610.5	—	142	31	706.5	38	160	155	—	—	—	—	—		
	S3	ME3L	MX3S	195	212.5	205.5	—	642.5	—	142	38	732.5	42	160	155	—	—	—	—	—		
		MX3L		195	212.5	205.5	—	686.5	—	142	44	778.5	50	160	155	—	—	—	—	—		

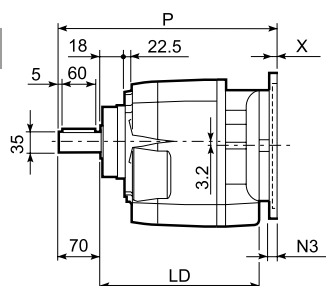
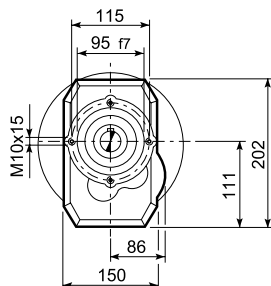
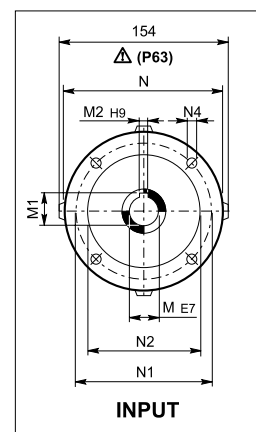


C 36...P(IEC)

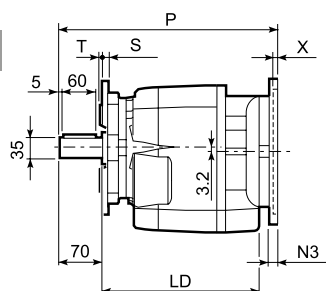
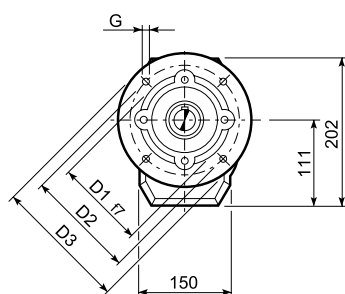
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U



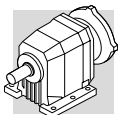
UF



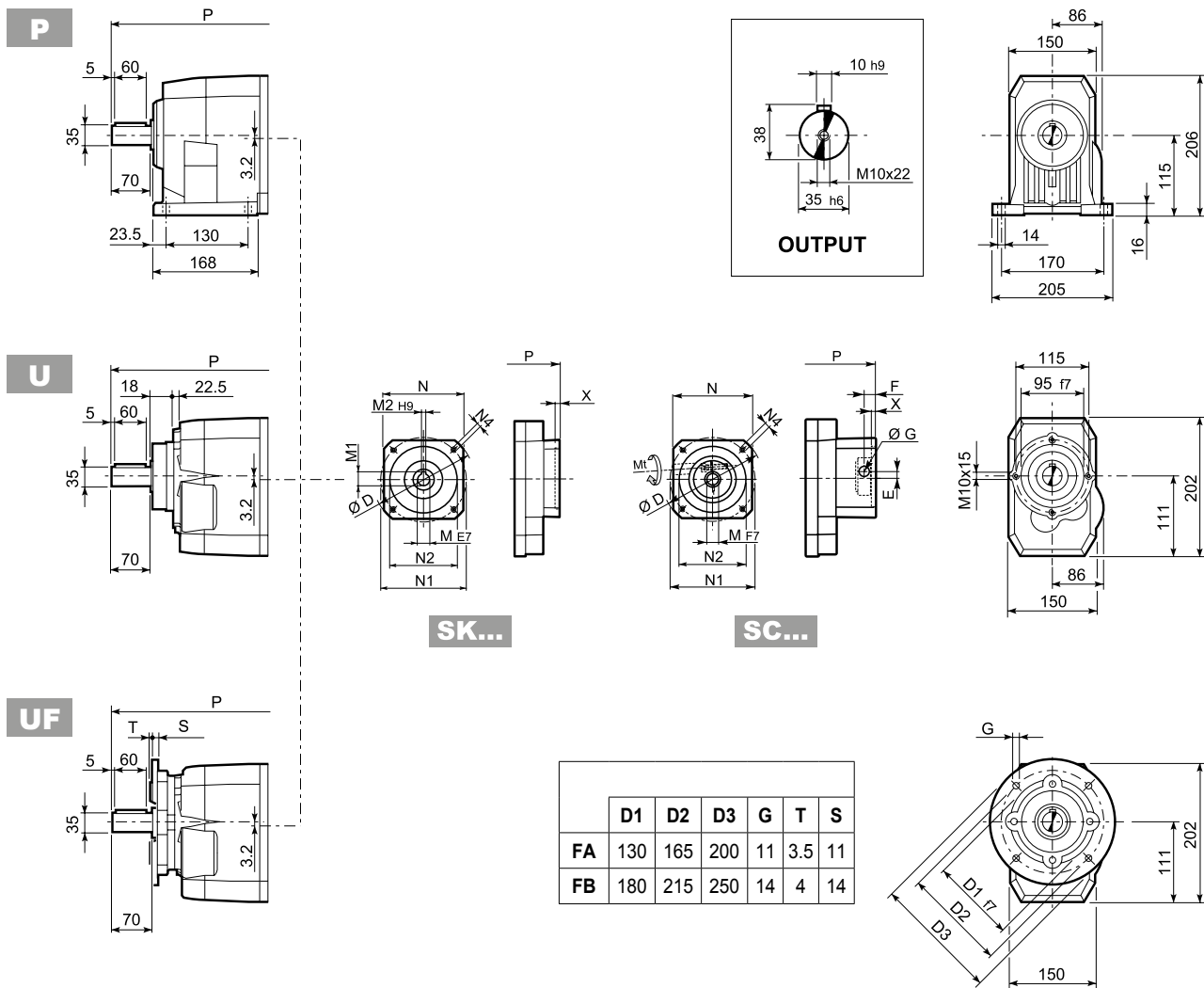
C 36 U

	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	14

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	
C 36 2/3	P63	226	11	12.8	4	140	115	95	—	M8x19	4	326	17
C 36 2/3	P71	226	14	16.3	5	160	130	110	—	M8x16	4.5	326	17
C 36 2/3	P80	236	19	21.8	6	200	165	130	—	M10x14.5	4	345.5	18
C 36 2/3	P90	236	24	27.3	8	200	165	130	—	M10x14.5	4	345.5	18
C 36 2/3	P100	236	28	31.3	8	250	215	180	—	M12x16	4.5	355.5	22
C 36 2/3	P112	236	28	31.3	8	250	215	180	—	M12x16	4.5	355.5	22
C 36 2/3	P132	—	38	41.3	10	300	265	230	16	14	5	392.5	25
C 36 4	P63	—	11	12.8	4	140	115	95	—	M8x19	4	383.5	20
C 36 4	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	383.5	20
C 36 4	P80	—	19	21.8	6	200	165	130	—	M10x14.5	4	403	21
C 36 4	P90	—	24	27.3	8	200	165	130	—	M10x14.5	4	403	21
C 36 4	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	413	25
C 36 4	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	413	25

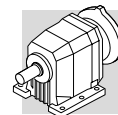


C 36...SK / SC



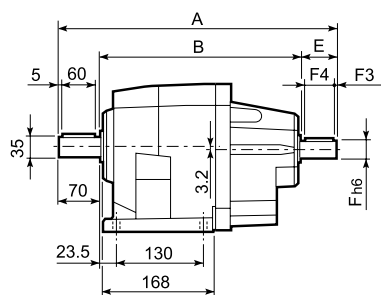
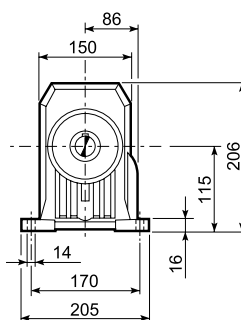
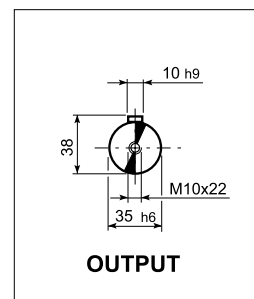
		D	M	M1	M2	N	N1	N2	N4	X	$\frac{2}{3}x$	$4x$	
C 36 2/3/4	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	297.5	355	16/16/19
C 36 2/3/4	SK60B	102	14	16.3	5	82	75	60	M5x10	4	304.5	362	17/17/20
C 36 2/3/4	SK80A	115	14	16.3	5	90	100	80	M6x12	4	304.5	362	18/18/21
C 36 2/3/4	SK80C	120	19	21.8	6	96	100	80	M6x12	4	304.5	403	18/18/21
C 36 2/3/4	SK95A	130	14	16.3	5	102	115	95	M8x12	4	345.5	403	18/18/21
C 36 2/3/4	SK95B	130	19	21.8	6	102	115	95	M8x12	4	345.5	403	18/18/21
C 36 2/3/4	SK95C	130	24	27.3	8	102	115	95	M8x12	4	345.5	403	18/18/21
C 36 2/3/4	SK110A	150	19	21.8	6	120	130	110	M8x12	5	345.5	403	18/18/21
C 36 2/3/4	SK110B	150	24	27.3	8	120	130	110	M8x12	5	345.5	403	18/18/21
C 36 2/3	SK130A	188	24	27.3	8	142	165	130	M10x20	5	345.5	—	19/19

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	$\frac{2}{3}x$	$4x$	
C 36 2/3/4	SC60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	324.5	382	17/17/20
C 36 2/3/4	SC60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	324.5	382	18/18/21
C 36 2/3/4	SC80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	324.5	426.5	18/18/21
C 36 2/3/4	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	369	426.5	19/19/22
C 36 2/3/4	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	369	426.5	19/19/22
C 36 2/3/4	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	369	426.5	19/19/22
C 36 2/3/4	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	369	426.5	19/19/22
C 36 2/3/4	SC110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	369	426.5	21/21/24
C 36 2/3/4	SC110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	369	426.5	21/21/24
C 36 2/3	SC130A	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	369	—	22/22

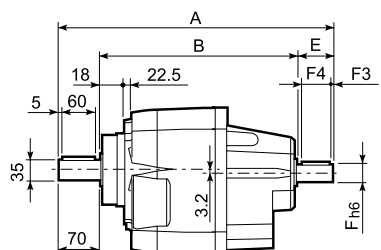
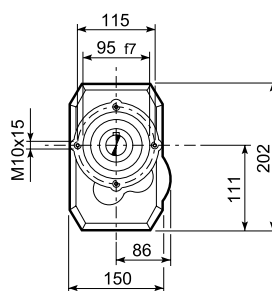
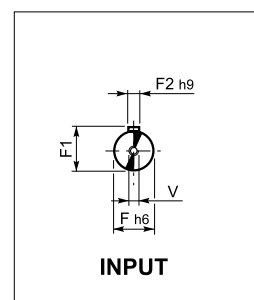


C 36...HS

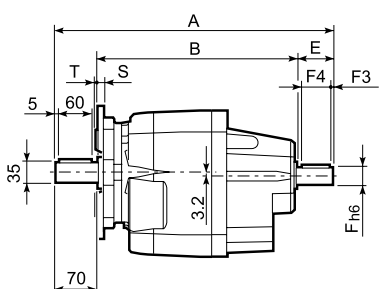
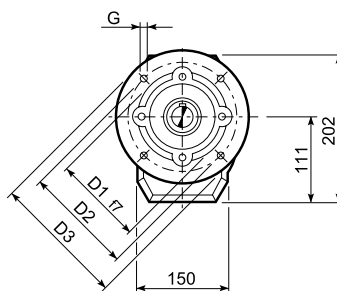
P



U



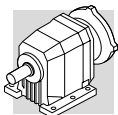
UF



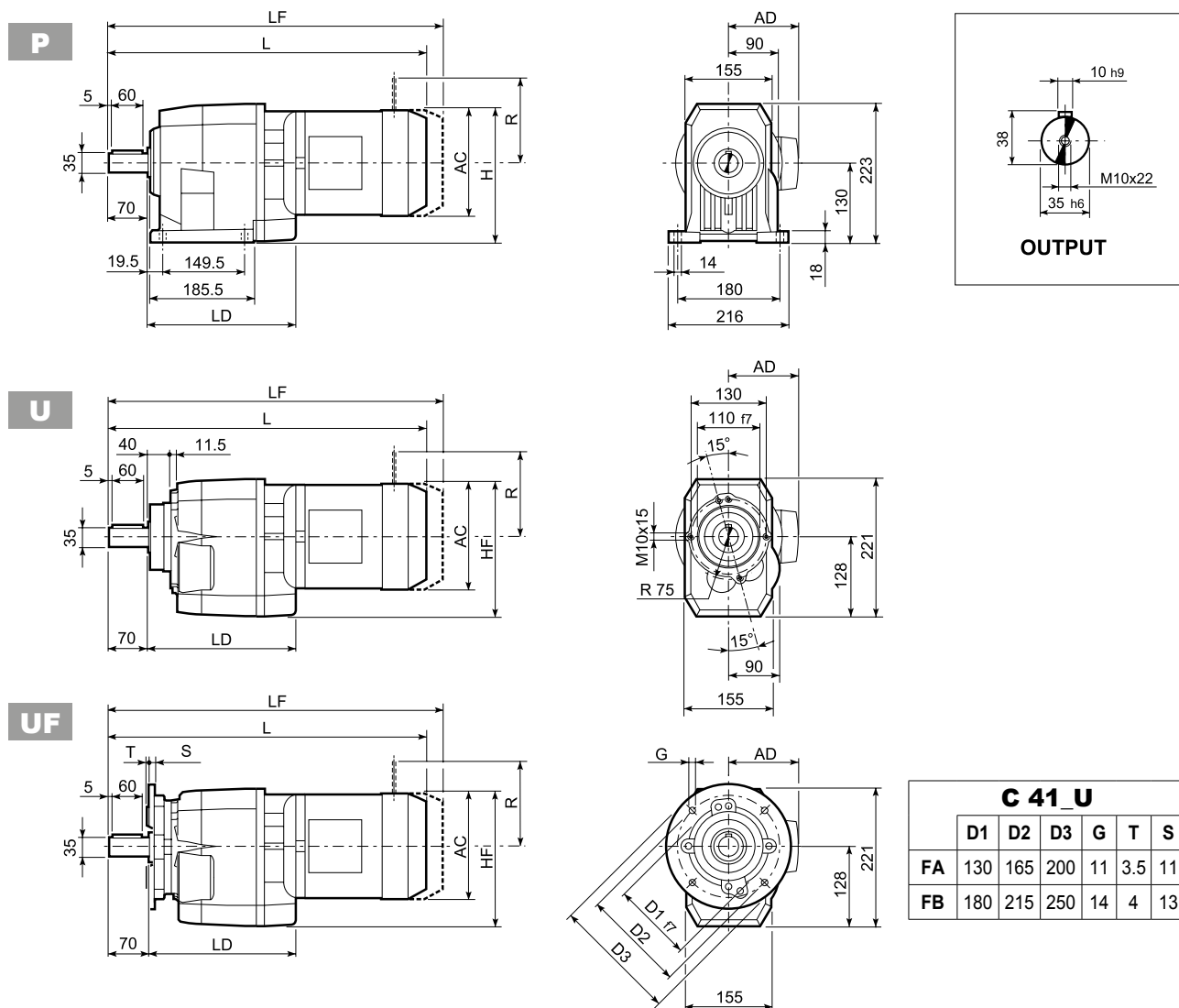
C 36 _ U

	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	14

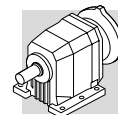
		A	B	E	F	F1	F2	F3	F4	V	
C 36 2	HS	415.5	295.5	50	24	27	8	2.5	45	M8x19	25.5
C 36 3		415.5	295.5	50	24	27	8	2.5	45	M8x19	25.5
C 36 4		390.5	280.5	40	16	18	5	2.5	36	M6x16	26.5



C 41...M/ME/MX/MXN

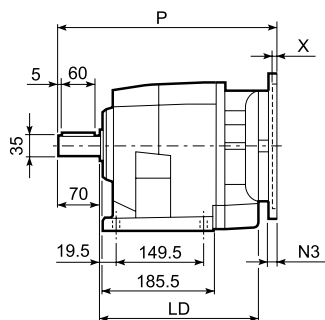
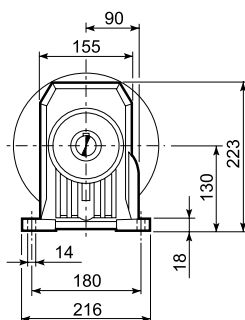
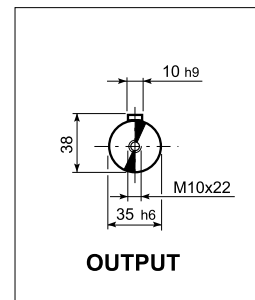


				Gearmotor - Without brake								Gearmotor - With brake									
				AC	H	HF	L		LD	AD		M...FD				M...FDD					
							plastic	metal				LF		R	AD	plastic	metal		R	AD	
C 41 2/3	S1	M1		138	199	197	—	491.5	220	108	25	552.5	28	103	135	—	—	—	—	—	
		ME1		138	199	197	—	491.5	220	108	24	552.5	28	103	135	—	—	—	—	—	
		MX1		138	199	197	—	491.5	220	108	24	552.5	28	103	135	—	—	—	—	—	
	S2	ME2S		156	208	206	—	519.5	235.5	119	31	576.5	34	129	143	—	—	—	—	—	
		MX2S		156	208	206	—	563.5	235.5	119	36	635.5	38	129	143	—	—	—	—	—	
		ME3S		195	227.5	225.5	—	563.5	251.5	142	38	659.5	41	160	155	—	—	—	—	—	
	S3	ME3L	MX3S	195	227.5	225.5	—	595.5	251.5	142	45	685.5	46	160	155	—	—	—	—	—	
		MX3L		195	227.5	225.5	—	639.5	251.5	142	51	701.5	54	160	155	—	—	—	—	—	
	S4	ME4	MX4	258	259	257	—	703.5	—	193	71	812.5	88	204	210	—	—	—	—	—	
		ME4LB	MX4LA	258	259	257	—	739	—	193	78	837	98	204	210	—	—	—	—	—	
C 41 4	S05	M05		121	245.5	243.5	—	524	—	95	27	590	28	96	122	—	—	—	—	—	
		ME05		121	245.5	243.5	—	524	—	95	27	590	28	96	119	—	—	—	—	—	
		MX05		121	245.5	243.5	—	524	—	95	27	590	28	96	119	—	—	—	—	—	
	SX05	MXN05		123	246.5	243.5	570.5	548.5	—	136	28.8	—	—	—	—	597.5	563.2	29.9	106	136	
	S1	M1		138	199	197	—	553	—	108	28	614	31	103	135	—	—	—	—	—	
		ME1		138	199	197	—	553	—	108	27	614	31	103	135	—	—	—	—	—	
		MX1		138	199	197	—	553	—	108	27	614	31	103	135	—	—	—	—	—	
	SX10	MXN10		138	199	197	582	562.5	—	137	29.4	—	—	—	—	618	583.1	31.8	106	138	
	S2	ME2S		156	208	206	—	581	—	119	34	651	37	129	143	—	—	—	—	—	
		MX2S		156	208	206	—	625	—	119	39	697	41	129	143	—	—	—	—	—	
	SX20	MXN20		158	209	206	677.5	661.2	—	146	41.2	—	—	—	—	718.5	680.3	43.4	115	148	
	S3	ME3S		195	227.5	225.5	—	625	—	142	41	721	44	160	155	—	—	—	—	—	
		ME3L	MX3S	195	227.5	225.5	—	657	—	142	48	747	49	160	155	—	—	—	—	—	
		MX3L		195	227.5	225.5	—	701	—	142	54	793	57	160	155	—	—	—	—	—	

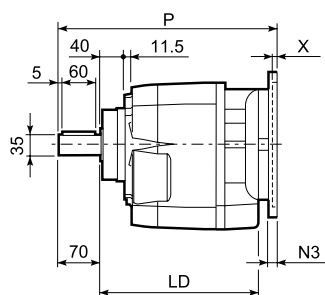
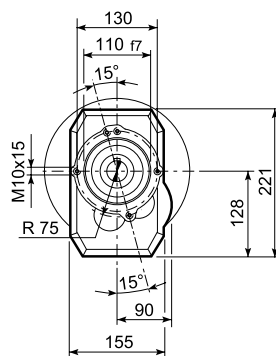
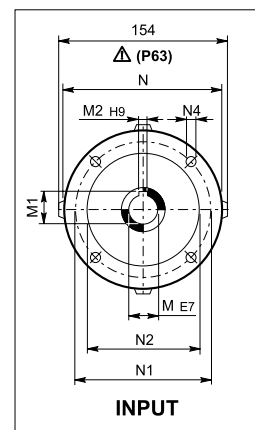


C 41...P(IEC)

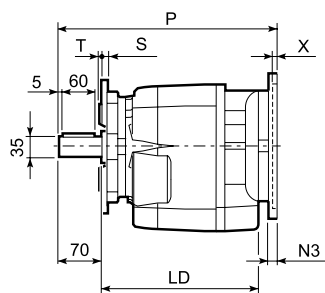
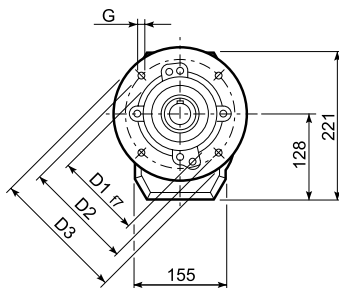
P



U



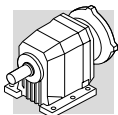
UF



C 41_U

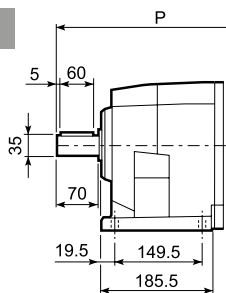
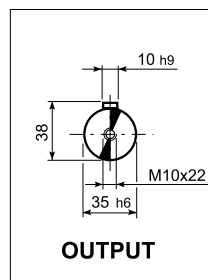
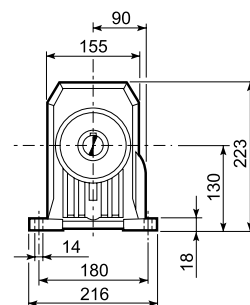
	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	13

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	
C 41 2/3	P63	235.5	11	12.8	4	140	115	95	—	M8x19	4	336.5	27
C 41 2/3	P71	235.5	14	16.3	5	160	130	110	—	M8x16	4.5	336.5	28
C 41 2/3	P80	251.5	19	21.8	6	200	165	130	—	M10x14.5	4	356	29
C 41 2/3	P90	251.5	24	27.3	8	200	165	130	—	M10x14.5	4	356	29
C 41 2/3	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	366	33
C 41 2/3	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	366	33
C 41 2/3	P132	—	38	41.3	10	300	265	230	16	14	5	402.5	35
C 41 4	P63	—	11	12.8	4	140	115	95	—	M8x19	4	395	30
C 41 4	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	395	31
C 41 4	P80	—	19	21.8	6	200	165	130	—	M10x14.5	4	414.5	32
C 41 4	P90	—	24	27.3	8	200	165	130	—	M10x14.5	4	414.5	32
C 41 4	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	424.5	36
C 41 4	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	424.5	36

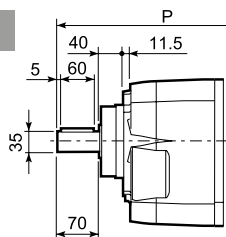
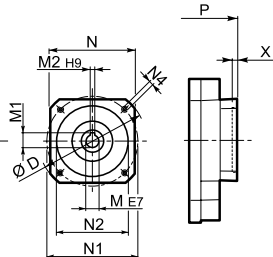


C 41...SK / SC

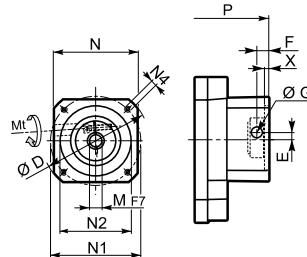
P



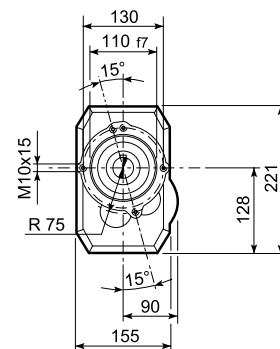
U



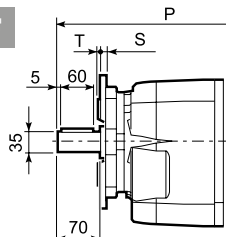
SK...



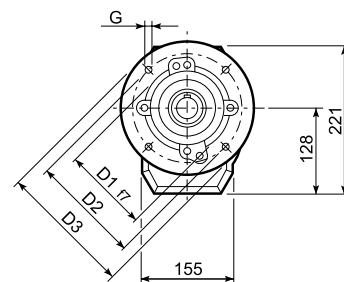
SC...



UF

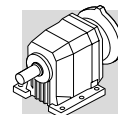


C 41_U					
	D1	D2	D3	G	T S
FA	130	165	200	11	3.5 11
FB	180	215	250	14	4 13



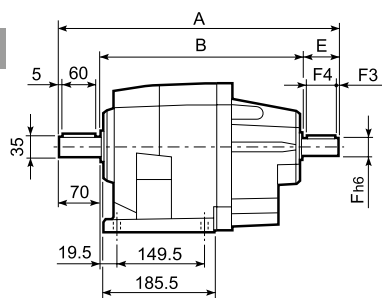
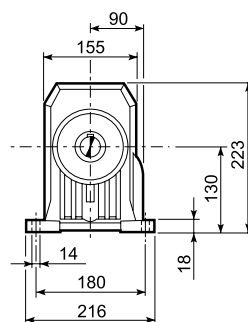
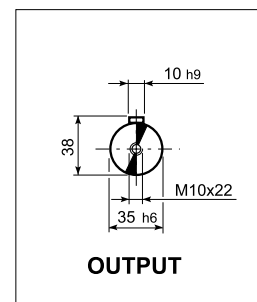
		D	M	M1	M2	N	N1	N2	N4	X	P		
											2/3x	4x	
C41 4	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	—	370	31
C41 4	SK60B	102	14	16.3	5	82	75	60	M5x10	4	—	377	32
C41 4	SK80A	115	14	16.3	5	90	100	80	M6x12	4	—	377	32
C41 2/3	SK80B	120	14	16.3	5	96	100	80	M6x12	4	356.5	—	29/29
C41 2/3/4	SK80C	120	19	21.8	6	96	100	80	M6x12	4	356.5	418	29/29/32
C41 2/3/4	SK95A	130	14	16.3	5	102	115	95	M8x12	4	356.5	418	29/29/32
C41 2/3/4	SK95B	130	19	21.8	6	102	115	95	M8x12	4	356.5	418	29/29/33
C41 2/3/4	SK95C	130	24	27.3	8	102	115	95	M8x12	4	356.5	418	29/29/36
C41 2/3/4	SK110A	150	19	21.8	6	120	130	110	M8x12	5	356.5	418	29/29/36
C41 2/3/4	SK110B	150	24	27.3	8	120	130	110	M8x12	5	356.5	418	29/29/36
C41 2/3	SK130A	188	24	27.3	8	142	165	130	M10x20	5	356.5	—	31/31
C41 2/3	SK130B	189	32	35.3	10	160	165	130	M10x20	5	403	—	33/33
C41 2/3	SK180A	240	32	35.3	10	192	215	180	M12x19	5	403	—	33/33
C41 2/3	SK180B	240	38	41.3	10	192	215	180	M12x19	5	403	—	38/38

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		
													2/3x	4x	
C41 4	SC60A	M6 15	102	7	12.5	12.5	11	82	75	60	M5x10	4	—	397	32
C41 4	SC60B	M6 15	102	7	12.5	12.5	14	82	75	60	M5x10	4	—	397	33
C41 4	SC80A	M6 15	115	6	12.5	12.5	14	90	100	80	M6x12	4	—	397	33
C41 2/3	SC80B	M6 15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	380	—	30/30
C41 2/3/4	SC80C	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	380	441.5	30/30/33
C41 2/3/4	SC95A	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	380	441.5	30/30/34
C41 2/3/4	SC95B	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	380	441.5	30/30/34
C41 2/3/4	SC95C	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	380	441.5	30/30/35
C41 2/3/4	SC110A	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	380	441.5	31/31/39
C41 2/3/4	SC110B	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	380	441.5	31/31/39
C41 2/3	SC130A	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	380	—	32/32
C41 2/3	SC130B	M8 36	189	20	17	17.75	32	160	165	130	M10x20	5	426	—	36/36
C41 2/3	SC180A	M8 36	240	20	17.5	17.75	32	192	215	180	M12x24	5	430	—	36/36
C41 2/3	SC180B	M8 36	240	20	17.5	17.75	38	192	215	180	M12x24	5	430	—	35/35

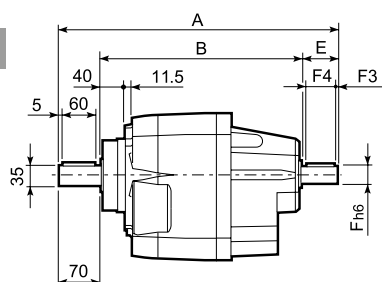
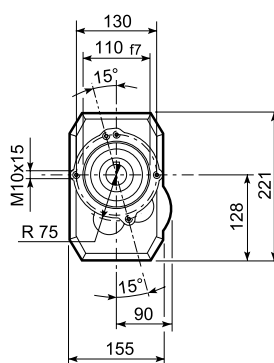
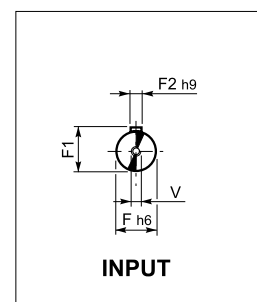


C 41...HS

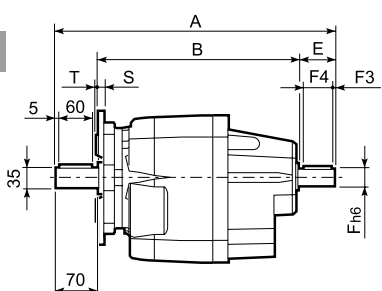
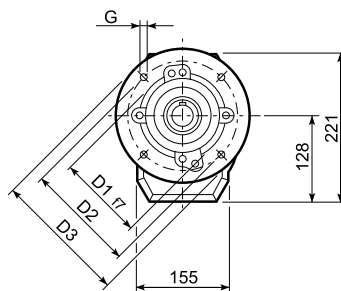
P



U



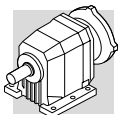
UF



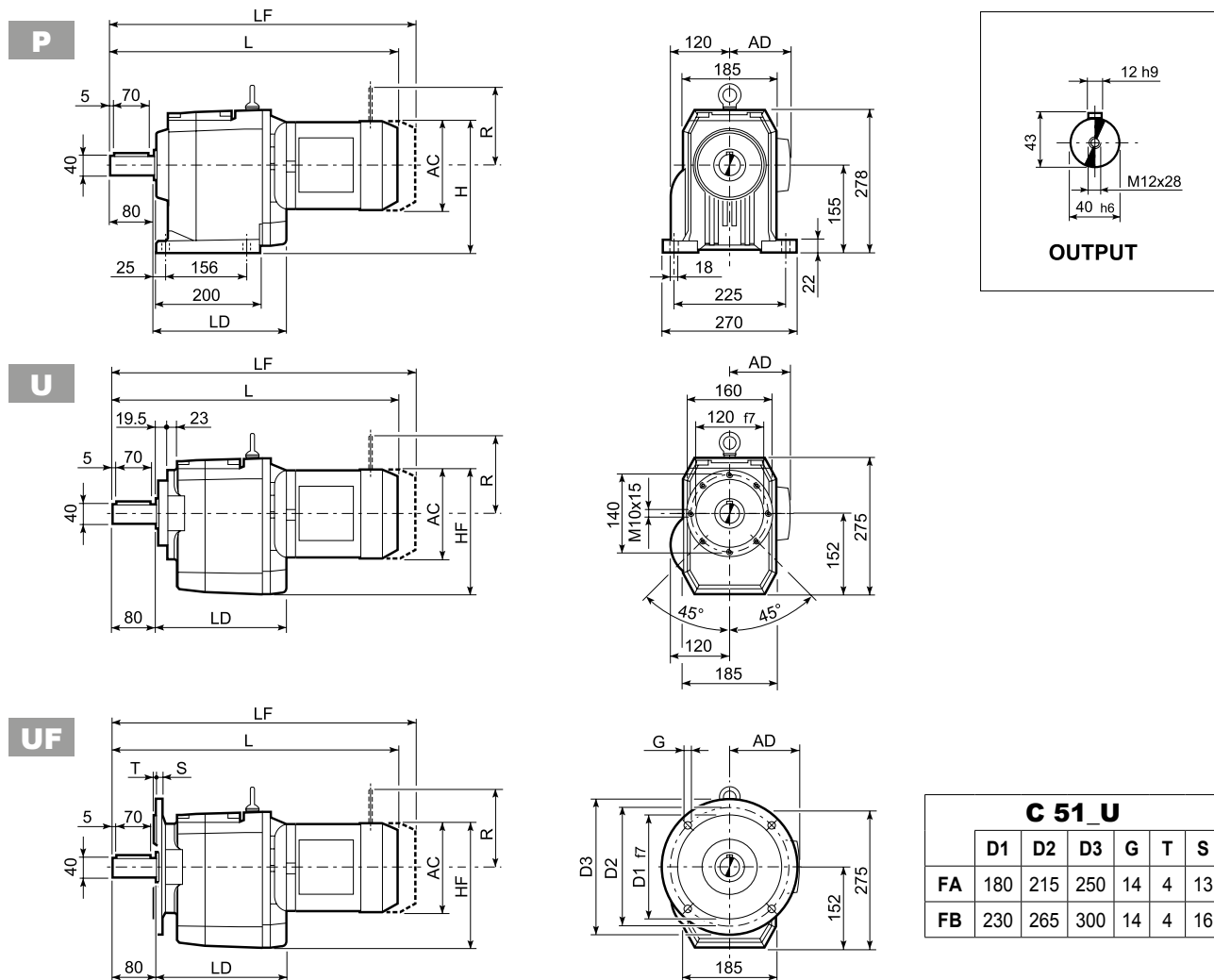
C 41 U

	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	13

		A	B	E	F	F1	F2	F3	F4	V	
C 41 2	HS	425.5	305.5	50	24	27	8	2.5	45	M8x19	30
C 41 3		425.5	305.5	50	24	27	8	2.5	45	M8x19	30
C 41 4		448	338	40	19	21.5	6	2.5	35	M6x16	33

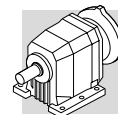


C 51...M/ME/MX/MXN



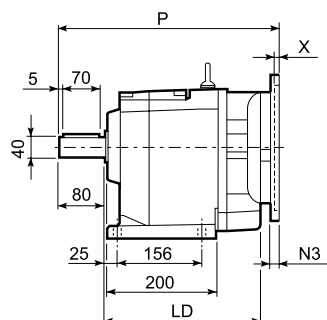
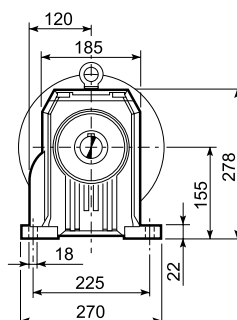
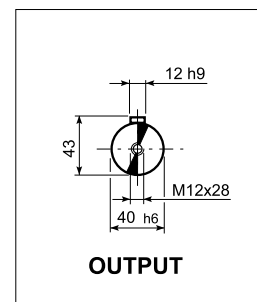
C 51_U						
	D1	D2	D3	G	T	S
FA	180	215	250	14	4	13
FB	230	265	300	14	4	16

				Gearmotor - Without brake								Gearmotor - With brake								
				AC	H	HF	L		LD	AD		M...FD				M...FDD				
							plastic	metal				LF		R	AD	LF			R	AD
																plastic	metal			
C 51 2/3	S1	M1		138	224	221	—	517.5	—	108	49	578.5	52	103	135	—	—	—	—	—
		ME1		138	224	221	—	517.5	—	108	48	578.5	52	103	135	—	—	—	—	—
		MX1		138	224	221	—	517.5	—	108	48	578.5	52	103	135	—	—	—	—	—
	S2	ME2S		156	233	230	—	545.5	252.5	119	53	615.5	58	129	143	—	—	—	—	—
		MX2S		156	233	230	—	589.5	252.5	119	53	661.5	62	129	143	—	—	—	—	—
	S3	ME3S		195	252.5	249.5	—	589.5	267.5	142	60	685.5	66	160	155	—	—	—	—	—
		ME3L	MX3S	195	252.5	249.5	—	621.5	267.5	142	65	711.5	70	160	155	—	—	—	—	—
		MX3L		195	252.5	249.5	—	665.5	267.5	142	65	757.5	78	160	155	—	—	—	—	—
	S4	ME4	MX4	258	284	281	—	729.5	—	193	99	838.5	112	204	210	—	—	—	—	—
		ME4LB	MX4LA	258	284	281	—	764.5	—	193	107	862.5	122	204	210	—	—	—	—	—
	S5	ME5S	MX5S	310	310	307	—	816	—	245	127	956	182	266	245	—	—	—	—	—
		ME5L	MX5L	310	310	307	—	860	—	245	143	994	193	266	245	—	—	—	—	—
C 51 4	S1	M1		138	224	221	—	589	—	108	52	650	55	103	135	—	—	—	—	—
		ME1		138	224	221	—	589	—	108	51	650	55	103	135	—	—	—	—	—
		MX1		138	224	221	—	589	—	108	51	650	55	103	135	—	—	—	—	—
	SX10	MXN10		138	224	221	618	598.5	—	137	53.4	—	—	—	—	654	619.1	55.8	106	138
	S2	ME2S		156	233	230	—	617	—	119	56	687	61	129	143	—	—	—	—	—
		MX2S		156	233	230	—	661	—	119	56	733	65	129	143	—	—	—	—	—
	S3	ME3S		195	252.5	249.5	—	661	—	142	63	757	69	160	155	—	—	—	—	—
		ME3L	MX3S	195	252.5	249.5	—	693	—	142	68	783	73	160	155	—	—	—	—	—
		MX3L		195	252.5	249.5	—	737	—	142	68	829	81	160	155	—	—	—	—	—

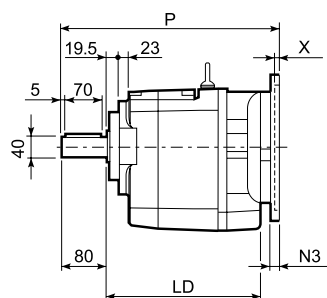
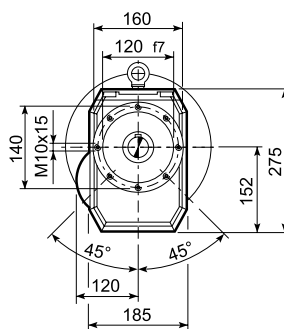
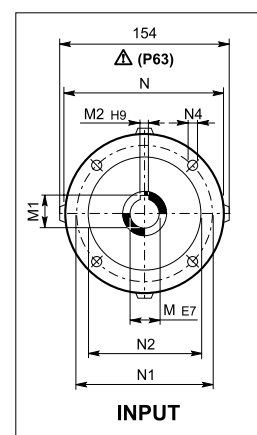


C 51...P(IEC)

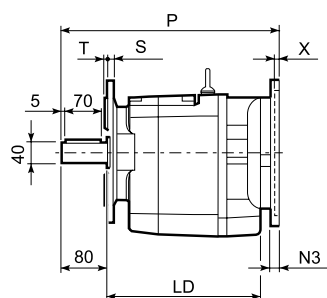
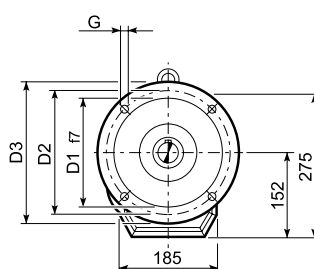
P



U



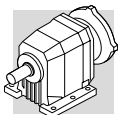
UF



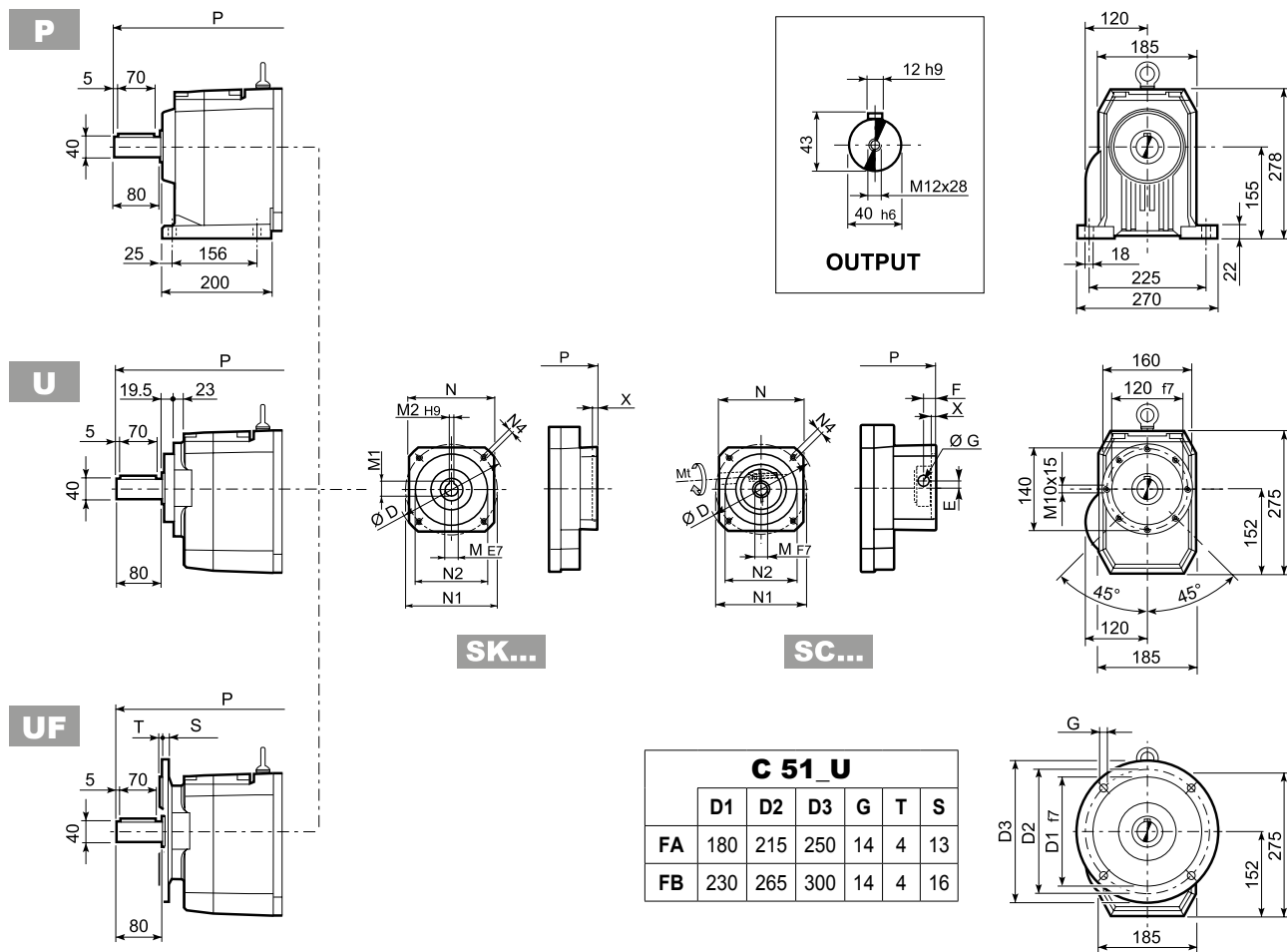
C 51_U

	D1	D2	D3	G	T	S
FA	180	215	250	14	4	13
FB	230	265	300	14	4	16

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 51 2/3	P63	252.5	11	12.8	4	140	115	95	—	M8x19	4	362.5	45
C 51 2/3	P71	252.5	14	16.3	5	160	130	110	—	M8x16	4.5	362.5	45
C 51 2/3	P80	267.5	19	21.8	6	200	165	130	—	M10x14.5	4	382	47
C 51 2/3	P90	267.5	24	27.3	8	200	165	130	—	M10x14.5	4	382	47
C 51 2/3	P100	252.5	28	31.3	8	250	215	180	—	M12x16	4.5	392	51
C 51 2/3	P112	252.5	28	31.3	8	250	215	180	—	M12x16	4.5	392	51
C 51 2/3	P132	252.5	38	41.3	10	300	265	230	16	14	5	428.5	54
C 51 2/3	P160	—	42	45.3	12	350	300	250	23	18	5.5	479	58
C 51 2/3	P180	—	48	51.8	14	350	300	250	23	18	5.5	479	58
C 51 4	P63	—	11	12.8	4	140	115	95	—	M8x19	4	434	47
C 51 4	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	434	47
C 51 4	P80	—	19	21.8	6	200	165	130	—	M10x14.5	4	453.5	49
C 51 4	P90	—	24	27.3	8	200	165	130	—	M10x14.5	4	463.5	49
C 51 4	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	463.5	53
C 51 4	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	463.5	53

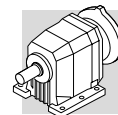


C 51...SK / SC



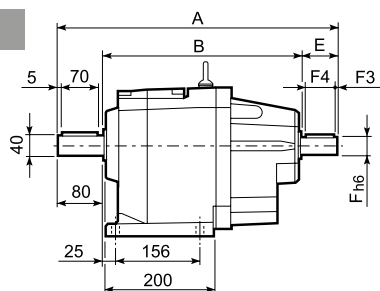
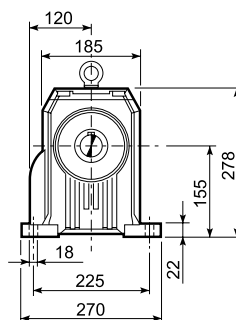
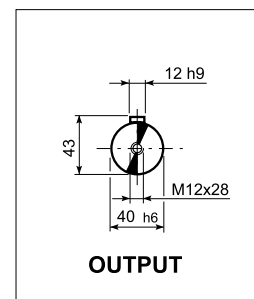
		D	M	M1	M2	N	N1	N2	N4	X	$\frac{2}{3}x$	$\frac{4}{x}$	
C 51 2/3	SK80B	120	14	16.3	5	96	100	80	M6x12	4	382	—	46/46
C 51 2/3/4	SK80C	120	19	21.8	6	96	100	80	M6x12	4	382	453.5	47/47/49
C 51 2/3/4	SK95A	130	14	16.3	5	102	115	95	M8x12	4	382	453.5	46/46/48
C 51 2/3/4	SK95B	130	19	21.8	6	102	115	95	M8x12	4	382	453.5	47/47/49
C 51 2/3/4	SK95C	130	24	27.3	8	102	115	95	M8x12	4	382	453.5	47/47/49
C 51 2/3/4	SK110A	150	19	21.8	6	120	130	110	M8x12	5	382	453.5	47/47/51
C 51 2/3/4	SK110B	150	24	27.3	8	120	130	110	M8x12	5	382	453.5	47/47/51
C 51 2/3/4	SK130A	188	24	27.3	8	142	165	130	M10x20	5	382	453.5	49/49/52
C 51 2/3	SK130B	189	32	35.3	10	160	165	130	M10x20	5	428.5	—	55/55
C 51 2/3	SK180A	240	32	35.3	10	192	215	180	M12x19	5	428.5	—	55/55
C 51 2/3	SK180B	240	38	41.3	10	192	215	180	M12x19	5	428.5	—	55/55

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	$\frac{2}{3}x$	$\frac{4}{x}$	
C 51 2/3	SC80B	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	405.5	—	47/47
C 51 2/3/4	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	405.5	477	48/48/50
C 51 2/3/4	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	405.5	477	47/47/49
C 51 2/3/4	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	405.5	477	48/48/50
C 51 2/3/4	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	405.5	477	48/48/50
C 51 2/3/4	SC110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	405.5	477	49/49/52
C 51 2/3/4	SC110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	405.5	477	49/49/52
C 51 2/3/4	SC130A	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	405.5	477	50/50/53
C 51 2/3	SC130B	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	451.5	—	54/54
C 51 2/3	SC180A	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	455.5	—	54/54
C 51 2/3	SC180B	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	455.5	—	54/54

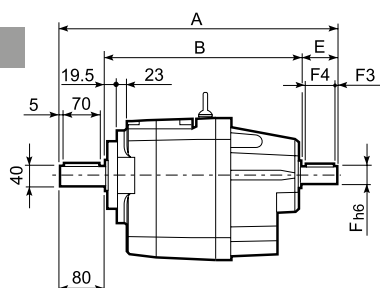
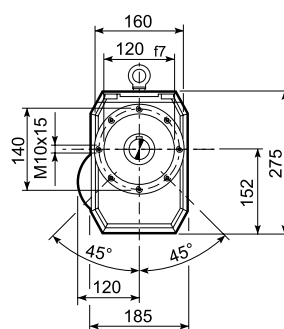
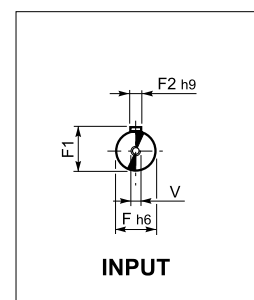


C 51...HS

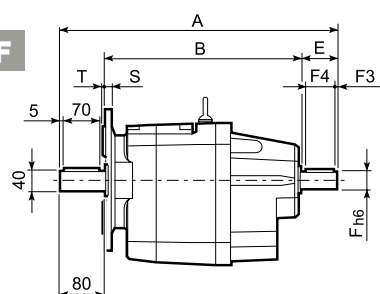
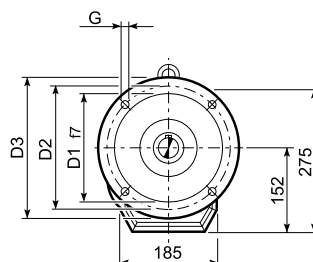
P



U



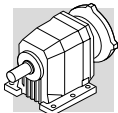
UF



C 51_U

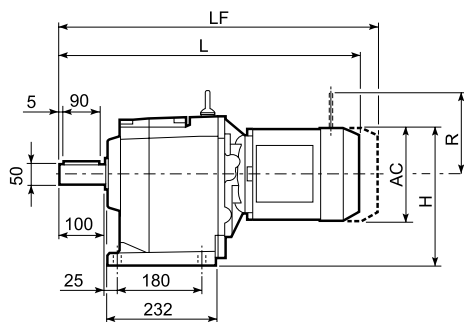
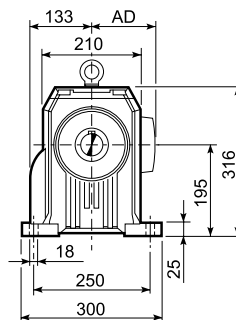
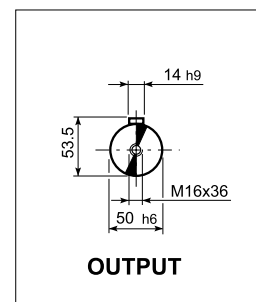
	D1	D2	D3	G	T	S
FA	180	215	250	14	4	13
FB	230	265	300	14	4	16

		A	B	E	F	F1	F2	F3	F4	V	
C 51 2	HS	451.5	322	50	24	24	8	2.5	45	M8x19	45
C 51 3		451.5	322	50	24	24	8	2.5	45	M8x19	45
C 51 4		484	364	40	19	21.5	6	2.5	35	M6x16	48

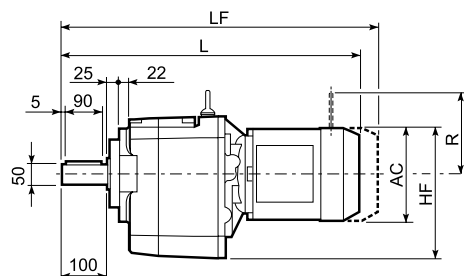
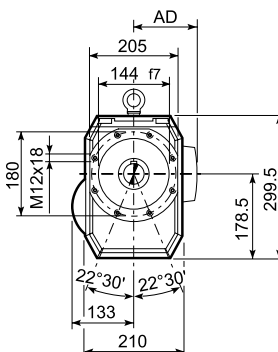


C 61...M/ME/MX

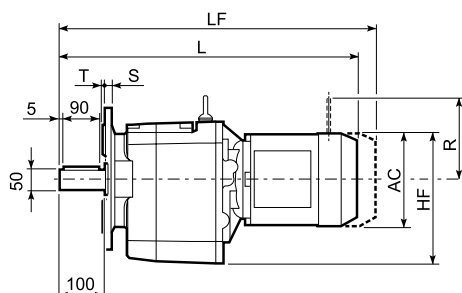
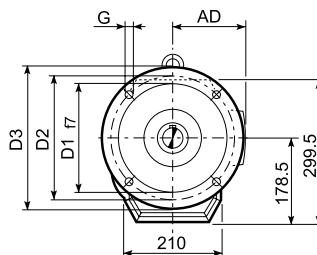
P



U



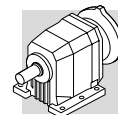
UF



C 61_U

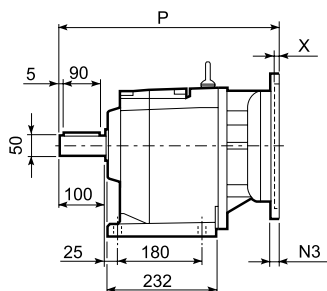
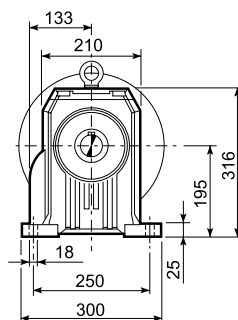
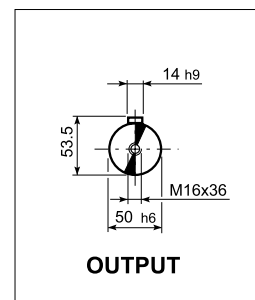
	D1	D2	D3	G	T	S
FA	230	265	300	14	4	16
FB	250	300	350	18	5	18

				Gearmotor - Without brake						Gearmotor - With brake			
										M...FD			
				AC	H	HF	L	AD		LF		R	AD
C 61 2/3	S2	ME2S		156	273	256.5	598.5	119	61	668.5	65	129	143
		MX2S		156	273	256.5	642.5	119	66	714.5	69	129	143
	S3	ME3S		195	292.5	276	642.5	142	68	738.5	73	160	155
		ME3L	MX3S	195	292.5	276	674.5	142	74	764.5	77	160	155
		MX3L		195	292.5	276	718.5	142	80	810.5	85	160	155
	S4	ME4	MX4	258	324	307.5	782.5	193	108	891.5	119	204	210
		ME4LB	MX4LA	258	324	307.5	817.5	193	116	915.5	129	204	210
	S5	ME5S	MX5S	310	350	333.5	869	245	136	1009	189	266	245
		ME5L	MX5L	310	350	333.5	913	245	152	1047	200	266	245
C 61 4	S1	M1		138	264	247.5	641	108	71	702	74	103	135
		ME1		138	264	247.5	641	108	70	702	74	103	135
		MX1		138	264	247.5	641	108	70	702	74	103	135
	S2	ME2S		156	273	256.5	669	119	75	739	80	129	143
		MX2S		156	273	256.5	713	119	80	785	84	129	143
	S3	ME3S		195	292.5	276	713	142	81	809	88	160	155
		ME3L	MX3S	195	292.5	276	745	142	87	835	92	160	155
		MX3L		195	292.5	276	789	142	93	881	100	160	155

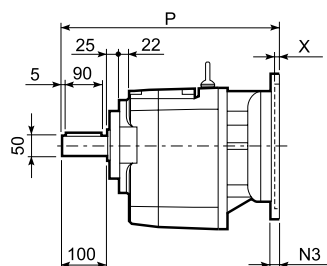
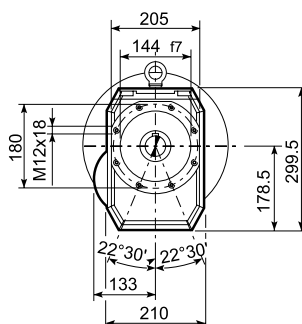
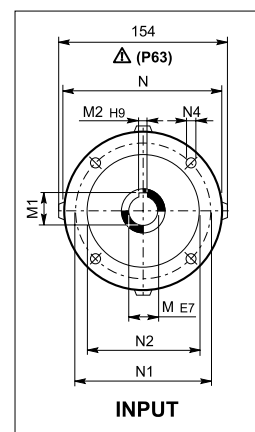


C 61...P(IEC)

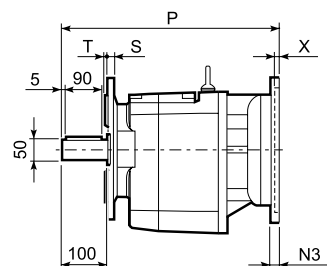
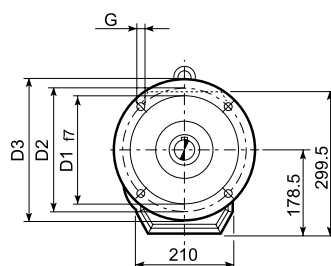
P



U



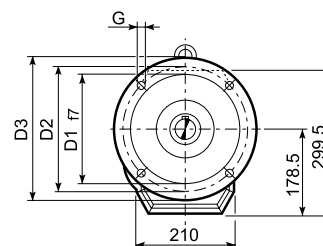
UF



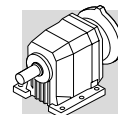
C 61_U

	D1	D2	D3	G	T	S
FA	230	265	300	14	4	16
FB	250	300	350	18	5	18

		M	M1	M2	N	N1	N2	N3	N4	X	P	
C 61 2/3	P63	11	12.8	4	140	115	95	—	M8x19	4	415.5	55
C 61 2/3	P71	14	16.3	5	160	130	110	—	M8x16	4.5	415.5	57
C 61 2/3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	435	61
C 61 2/3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	435	61
C 61 2/3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	444	65
C 61 2/3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	444	65
C 61 2/3	P132	38	41.3	10	300	265	230	16	14	5	481.5	68
C 61 2/3	P160	42	45.3	12	350	300	250	23	18	5.5	532	73
C 61 2/3	P180	48	51.8	14	350	300	250	23	18	5.5	532	73
C 61 4	P63	11	12.8	4	140	115	95	—	M8x19	4	486	61
C 61 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	489	63
C 61 4	P80	19	21.8	6	200	165	130	—	M10x14.5	4	505.5	67
C 61 4	P90	24	27.3	8	200	165	130	—	M10x14.5	4	505.5	67
C 61 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	515.5	71
C 61 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	515.5	71

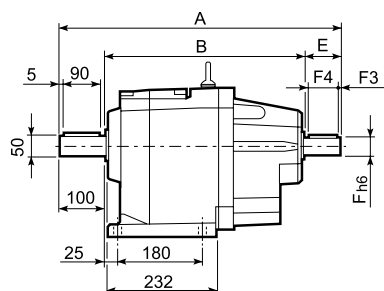
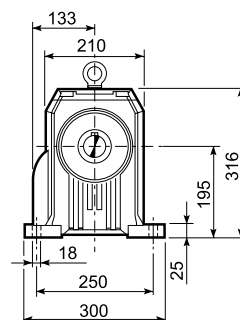
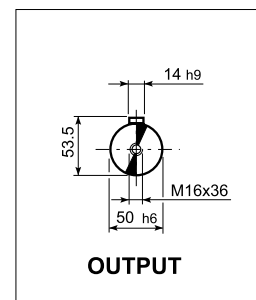


		 Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x 	4x 	
C 61 4	SC80B	M6 15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	—	529	63
C 61 2/3/4	SC80C	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	458.5	529	64/64/70
C 61 2/3/4	SC95A	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	458.5	529	61/61/68
C 61 2/3/4	SC95B	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	458.5	529	64/64/70
C 61 2/3/4	SC95C	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	458.5	529	64/64/70
C 61 2/3/4	SC110A	M6 15	140	16.5	16	17.75	19	120	130	110	M8x16	5	458.5	529	65/65/70
C 61 2/3/4	SC110B	M6 15	140	16.5	16	17.75	24	120	130	110	M8x16	5	458.5	529	65/65/70
C 61 2/3/4	SC130A	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	458.5	529	66/66/81
C 61 2/3	SC130B	M8 36	189	20	17	17.75	32	160	165	130	M10x20	5	504.5	—	75/75
C 61 2/3	SC180A	M8 36	240	20	17.5	17.75	32	192	215	180	M12x24	5	508.5	—	75/75
C 61 2/3	SC180B	M8 36	240	20	17.5	17.75	38	192	215	180	M12x24	5	508.5	—	69/69

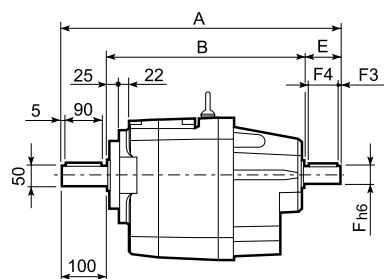
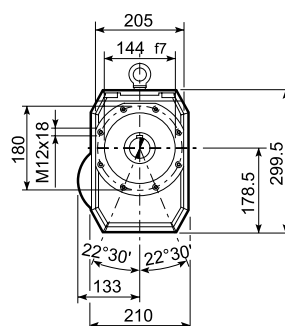
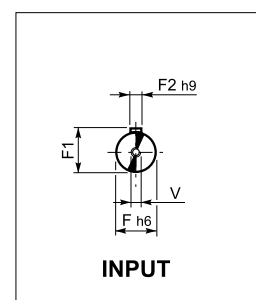


C 61...HS

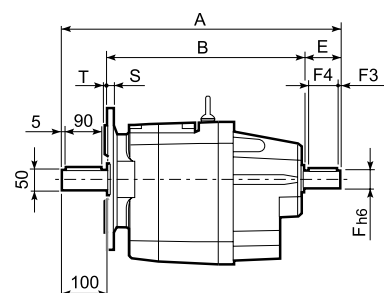
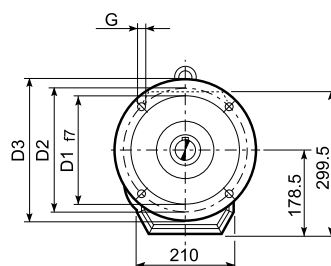
P



U



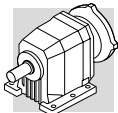
UF



C 61_U

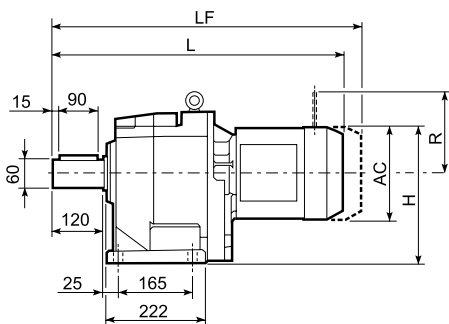
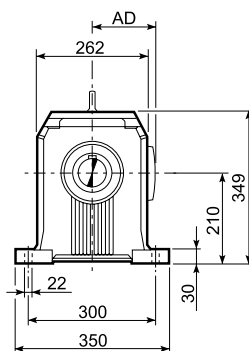
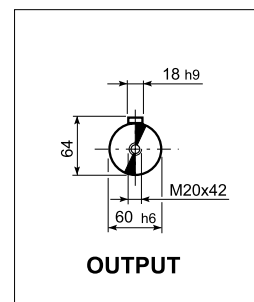
	D1	D2	D3	G	T	S
FA	230	265	300	14	4	16
FB	250	300	350	18	5	18

		A	B	E	F	F1	F2	F3	F4	V	
C 61 2	HS	532	372	60	28	31	8	5	50	M10x22	66
C 61 3		532	372	60	28	31	8	5	50	M10x22	66
C 61 4		575	425	50	24	27	8	2.5	45	M8x19	72

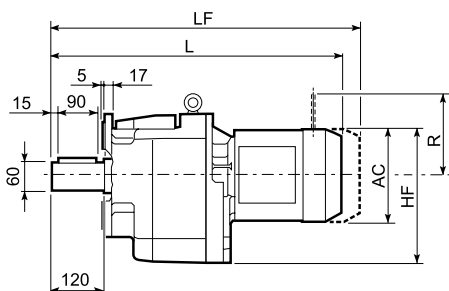
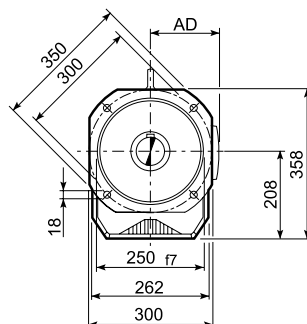


C 70...M/ME/MX

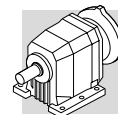
P



F

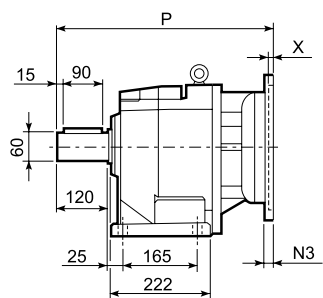
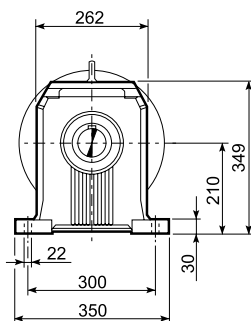
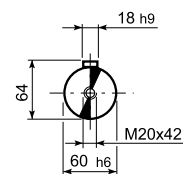


				Gearmotor - Without brake						Gearmotor - With brake			
				AC	H	HF	L	AD		M...FD			
										LF		R	AD
C 70 2/3	S2	ME2S		156	288	286	636.5	119	88	706.5	92	129	143
		MX2S		156	288	286	680.5	119	93	752.5	96	129	143
	S3	ME3S		195	307.5	305.5	680.5	142	95	776.5	100	160	155
		MX3S		195	307.5	305.5	715.5	142	98	805.5	103	160	155
		ME3L		195	307.5	305.5	712.5	142	101	803.5	104	160	155
		MX3L		195	307.5	305.5	756.5	142	107	857.5	112	160	155
	S4	ME4	MX4	258	339	337	820.5	193	135	929.5	146	204	210
		ME4LB	MX4LA	258	339	337	855.5	193	143	953.5	159	204	210
	S5	ME5S	MX5S	310	365	363	907	245	163	1047	216	266	245
		ME5L	MX5L	310	365	363	951	245	179	1085	227	266	245
C 70 4	S1	M1		138	279	277	659.5	108	88	720.5	91	103	135
		ME1		138	279	277	659.5	108	88	720.5	91	103	135
		MX1		138	279	277	659.5	108	88	720.5	91	103	135
	S2	ME2S		156	288	286	687.5	119	92	757.5	97	129	143
		MX2S		156	288	286	731.5	119	97	803.5	101	129	143
	S3	ME3S		195	307.5	305.5	731.5	142	99	827.5	105	160	155
		ME3L	MX3S	195	307.5	305.5	763.5	142	104	853.5	109	160	155
		MX3L		195	307.5	305.5	807.5	142	110	899.5	117	160	155
	S4	ME4	MX4	258	339	337	871.5	193	138	980.5	151	204	210
		ME4LB	MX4LA	258	339	337	906.5	193	146	1004.5	161	204	210



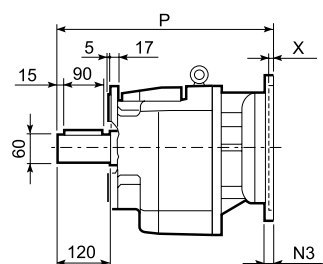
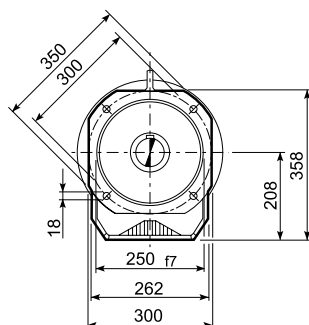
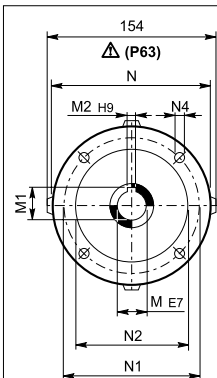
C 70...P(IEC)

P



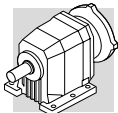
OUTPUT

F



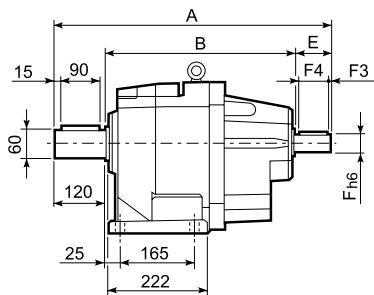
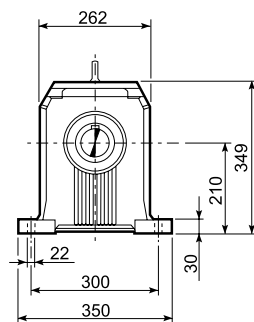
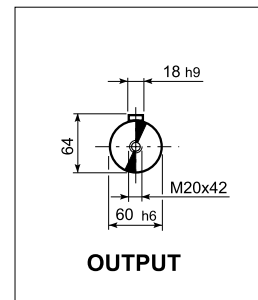
INPUT

		M	M1	M2	N	N1	N2	N3	N4	X	P	
C 70 2/3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	473	88
C 70 2/3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	473	88
C 70 2/3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	483	92
C 70 2/3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	483	92
C 70 2/3	P132	38	41.3	10	300	265	230	16	14	5	519.5	95
C 70 2/3	P160	42	45.3	12	350	300	250	23	18	6	575	107
C 70 2/3	P180	48	51.8	14	350	300	250	23	18	6	575	107
C 70 2	P200	55	59.3	16	400	350	300	—	M16x25	7	600	129
C 70 4	P63	11	12.8	4	140	115	95	—	M8x19	4	504.5	91
C 70 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	504.5	91
C 70 4	P80	19	21.8	6	200	165	130	—	M10x14.5	4	524	92
C 70 4	P90	24	27.3	8	200	165	130	—	M10x14.5	4	524	92
C 70 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	534	96
C 70 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	534	96
C 70 4	P132	38	41.3	10	300	265	230	16	14	5	570.5	98

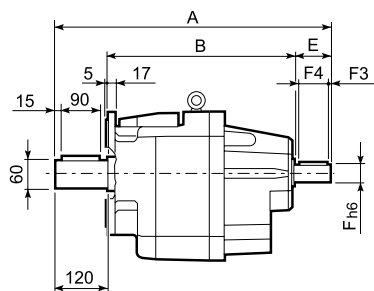
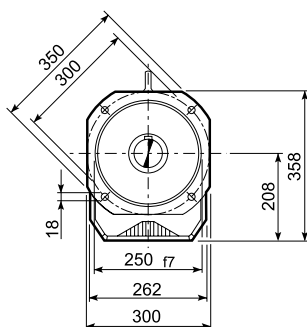
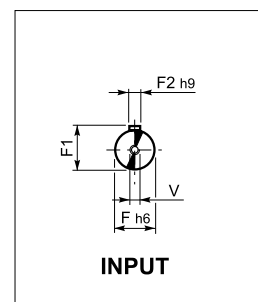


C 70...HS

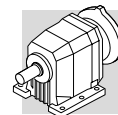
P



F

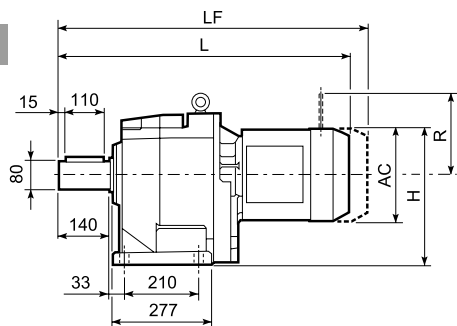
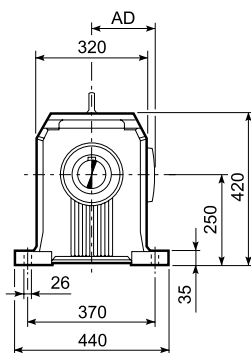
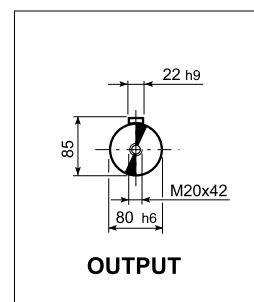


		A	B	E	F	F1	F2	F3	F4	V	
C 70 2	HS	657.5	427.5	110	42	45	12	10	90	M12x28	108
C 70 3		657.5	427.5	110	42	45	12	10	90	M12x28	108
C 70 4		593.5	423.5	50	24	27	8	2.5	45	M8x19	94

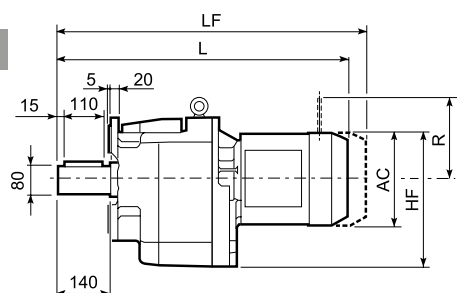
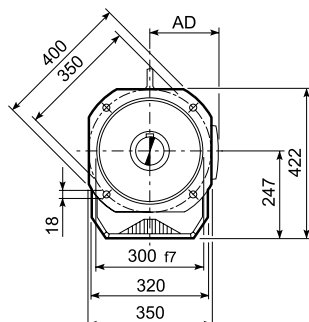


C 80...M/ME/MX

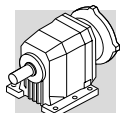
P



F

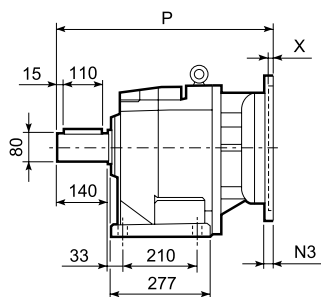
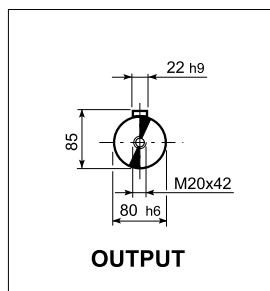


				Gearmotor - Without brake						Gearmotor - With brake			
										M...FD			
				AC	H	HF	L	AD		LF		R	AD
C 80 2/3	S3	ME3S		195	347.5	344.5	742.5	142	141	838.5	148	160	155
		ME3L	MX3S	195	347.5	344.5	774.5	142	146	864.5	152	160	155
		MX3L		195	347.5	344.5	818.5	142	152	910.5	160	160	155
	S4	ME4	MX4	258	379	376	882.5	193	180	991.5	194	204	210
		ME4LB	MX4LA	258	379	376	917.5	193	188	1015.5	204	204	210
	S5	ME5S	MX5S	310	405	402	969	245	208	1109	264	266	245
		ME5L	MX5L	310	405	402	1013	245	224	1147	275	266	245
C 80 4	S1	M1		138	319	316	733.5	108	133	794.5	111	103	135
		ME1		138	319	316	733.5	108	133	794.5	111	103	135
		MX1											
	S2	ME2S		156	328	325	761.5	119	137	831.5	117	129	143
		MX2S		156	328	325	805.5	119	142	877.5	121	129	143
	S3	ME3S		195	347.5	344.5	805.5	142	144	901.5	125	160	155
		ME3L	MX3S	195	347.5	344.5	837.5	142	149	927.5	129	160	155
		MX3L		195	347.5	344.5	881.5	142	155	973.5	137	160	155
	S4	ME4	MX4	258	379	376	945.5	193	183	1054.5	171	204	210
		ME4LB	MX4LA	258	379	376	980.5	193	191	1078.5	181	204	210

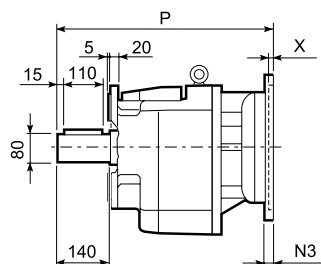
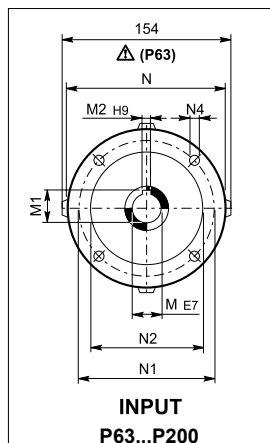
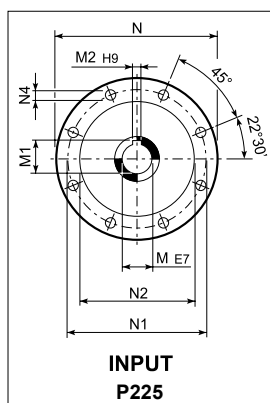


C 80...P(IEC)

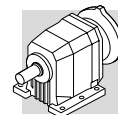
P



F

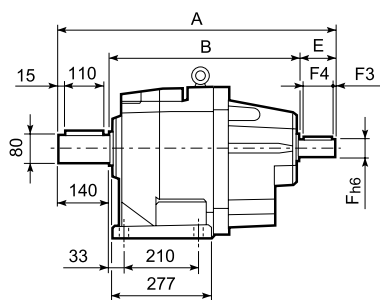
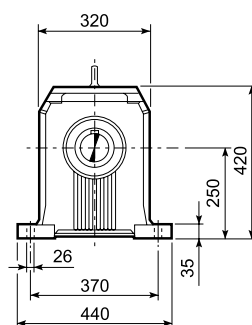
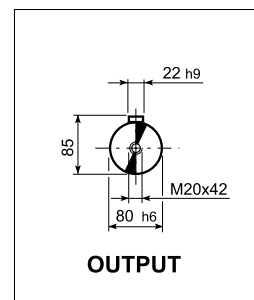


		M	M1	M2	N	N1	N2	N3	N4	X	P	
C 80 2/3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	533	135
C 80 2/3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	533	135
C 80 2/3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	543	139
C 80 2/3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	543	139
C 80 2/3	P132	38	41.3	10	300	265	230	16	14	5	579.5	141
C 80 2/3	P160	42	45.3	12	350	300	250	23	18	6	635	154
C 80 2/3	P180	48	51.8	14	350	300	250	23	18	6	635	154
C 80 2	P200	55	59.3	16	400	350	300	—	M16x25	7	660	176
C 80 2	P225	60	64.4	18	450	400	350	25	18	6	705.5	178
C 80 4	P63	11	12.8	4	140	115	95	—	M8x19	4	576.5	138
C 80 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	576.5	138
C 80 4	P80	19	21.8	6	200	165	130	—	M10x14.5	4	596	140
C 80 4	P90	24	27.3	8	200	165	130	—	M10x14.5	4	596	140
C 80 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	606	144
C 80 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	606	144
C 80 4	P132	38	41.3	10	300	265	230	16	M12x16	5	642.5	146

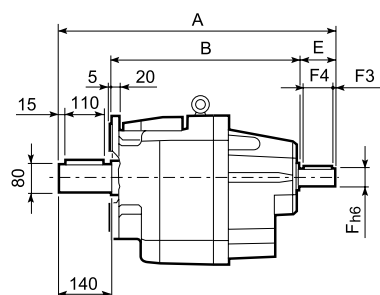
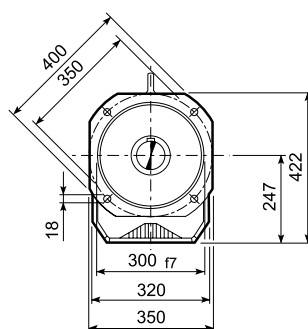
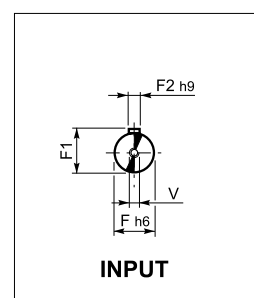


C 80...HS

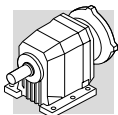
P



F

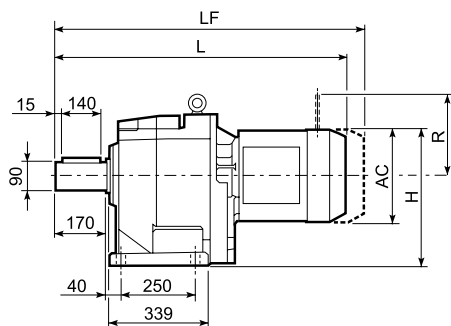
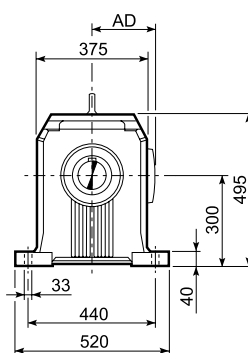
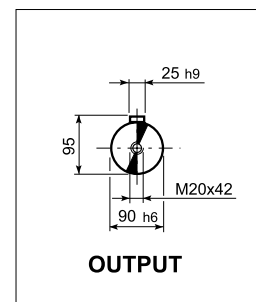


		A	B	E	F	F1	F2	F3	F4	V	
C 80 2	HS	718.5	468.5	110	42	45	12	10	90	M12x28	154
C 80 3		718.5	468.5	110	42	45	12	10	90	M12x28	154
C 80 4		666.5	476.5	50	24	27	8	2.5	45	M8x19	141

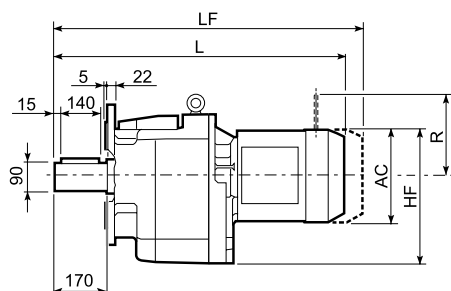
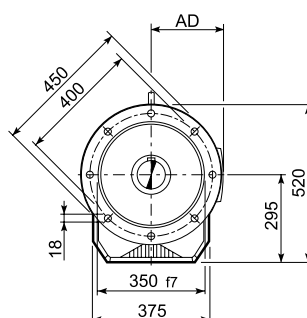


C 90...M/ME/MX

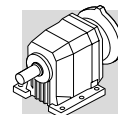
P



F

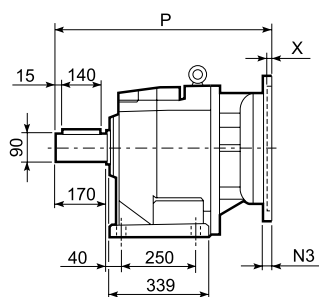
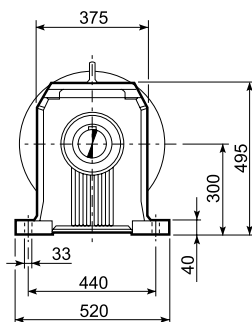
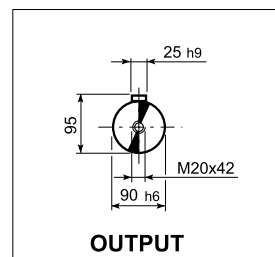


				Gearmotor - Without brake						Gearmotor - With brake			
										M...FD			
				AC	H	HF	L	AD		LF		R	AD
C 90 2/3	S3	ME3S		195	397.5	392.5	852	142	229.5	948	236.5	160	155
		ME3L	MX3S	195	397.5	392.5	884	142	236	974	240.5	160	155
		MX3L		195	397.5	392.5	987	142	242	1079	248.5	160	155
	S4	ME4	MX4	258	429	424	992	193	270	1101	282.5	204	210
		ME4LB	MX4LA	258	429	424	1027	193	278	1125	292.5	204	210
	S5	ME5S	MX5S	310	455	450	1078.5	245	298	1218.5	352.5	266	245
		ME5L	MX5L	310	455	450	1122.5	245	314	1256.5	363.5	266	245
C 90 4	S1	M1		138	369	364	862	108	226	923	228	103	135
		ME1		138	369	364	862	108	226	923	228	103	135
		MX1											
	S2	M2S		156	378	373	891	119	234	962	238	129	146
		ME2S		156	378	373	891	119	234	961	235.2	129	143
		MX2S		156	378	373	935	119	239.1	1007	239	129	143
	S3	ME3S		195	397.5	392.5	935	142	240.5	1031	243.1	160	155
		ME3L	MX3S	195	397.5	392.5	967	142	246	1057	247.1	160	155
		MX3L		195	397.5	392.5	1011	142	252	1103	255.1	160	155
	S4	ME4	MX4	258	429	424	1075	193	280	1184	289.1	204	210
		ME4LB	MX4LA	258	429	424	1126.5	193	288	1224.5	299.1	204	210

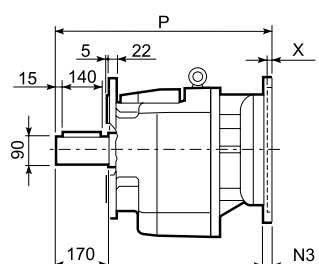
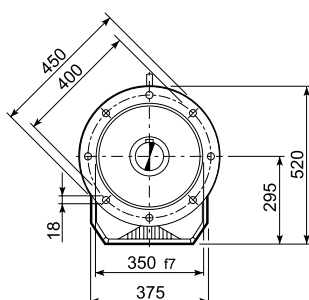
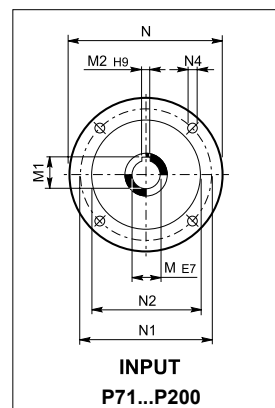
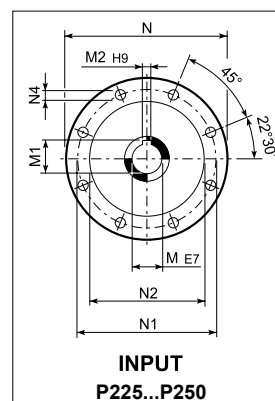


C 90...P(IEC)

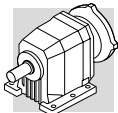
P



F

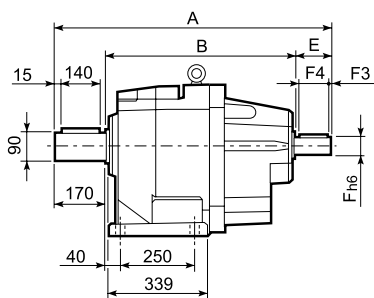
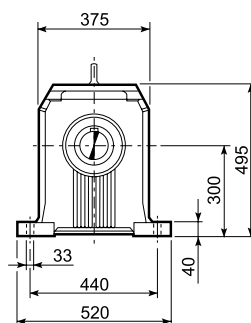
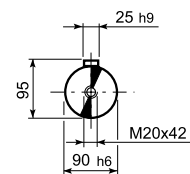


		M	M1	M2	N	N1	N2	N3	N4	X	P	
C 90 2/3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	644.5	229
C 90 2/3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	644.5	229
C 90 2/3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	654.5	234
C 90 2/3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	654.5	234
C 90 2/3	P132	38	41.3	10	300	265	230	16	14	5	691	236
C 90 2/3	P160	42	45.3	12	350	300	250	23	18	6	746.5	251
C 90 2/3	P180	48	51.8	14	350	300	250	23	18	6	746.5	251
C 90 2/3	P200	55	59.3	16	400	350	300	—	M16x25	7	771.5	272
C 90 2/3	P225	60	64.4	18	450	400	350	30	18	6	817	273
C 90 2/3	P250	65	69.4	18	550	500	450	30	18	6	847	295
C 90 4	P63	11	12.8	4	140	115	95	—	M8x19	4	707.5	236
C 90 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	707.5	236
C 90 4	P80	19	21.8	6	200	165	130	—	M10x14.5	4	727	238
C 90 4	P90	24	27.3	8	200	165	130	—	M10x14.5	4	727	238
C 90 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	737	242
C 90 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	737	242
C 90 4	P132	38	41.3	10	300	265	230	16	14	5	773.5	244
C 90 4	P160	42	45.3	12	350	300	250	23	18	5.5	824	248
C 90 4	P180	48	51.8	14	350	300	250	23	18	5.5	824	248



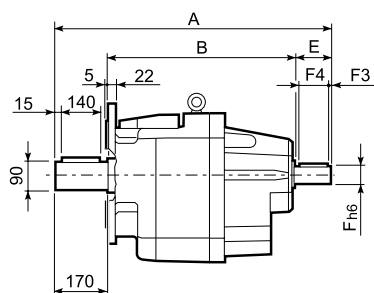
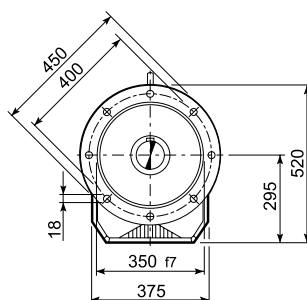
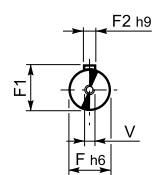
C 90...HS

P



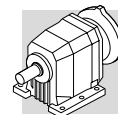
OUTPUT

F



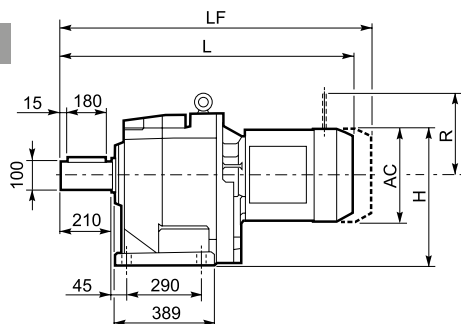
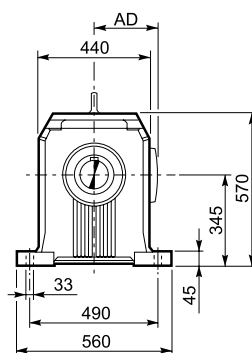
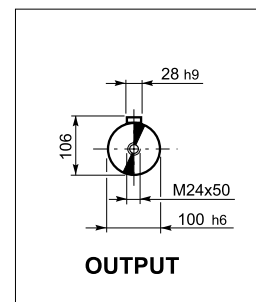
INPUT

		A	B	E	F	F1	F2	F3	F4	V	
C 90 2	HS	930.5	620.5	140	60	64	18	10	120	M16x36	273
C 90 3		930.5	620.5	140	60	64	18	10	120	M16x36	273
C 90 4		797	577	50	24	27	8	2.5	45	M8x19	240

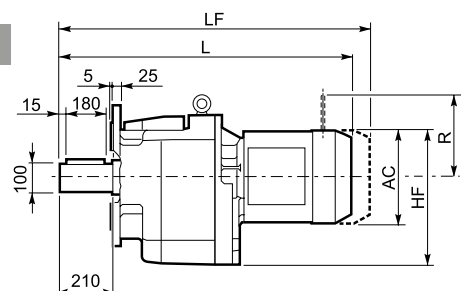
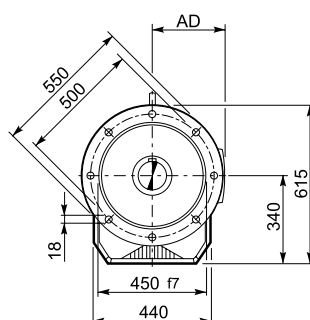


C 100...M/ME/MX

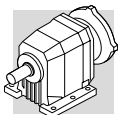
P



F

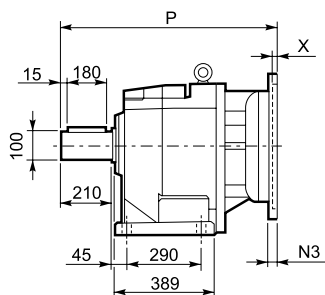
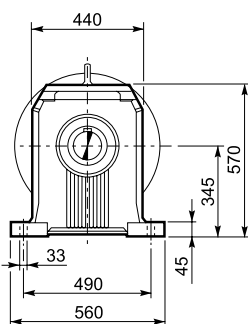
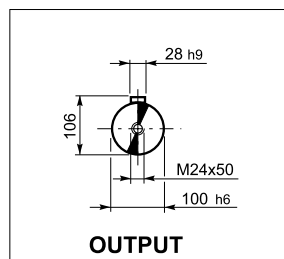


				Gearmotor - Without brake						Gearmotor - With brake			
										M...FD			
				AC	H	HF	L	AD		LF		R	AD
C 100 2/3	S4	ME4	MX4	258	474	469	1087	193	392	1196	405	204	210
		ME4LB	MX4LA	258	474	469	1122	193	400	1220	415	204	210
	S5	ME5S	MX5S	310	500	495	1173.5	245	420	1313.5	475	266	245
		ME5L	MX5L	310	500	495	1217.5	245	436	1351.5	486	266	245
C 100 4	S1	M1		138	414	409	956.5	108	346	1027.5	348	103	135
		ME1		138	414	409	956.5	108	346	1027.5	348	103	135
		MX1											
	S2	M2S		156	423	418	985.5	119	354	1056.5	357	129	146
		ME2S		156	423	418	985.5	119	354	1055.5	355	129	143
		MX2S		156	423	418	1029.5	119	359	1101.5	359	129	143
	S3	ME3S		195	442.5	437.5	1029.5	142	360	1125.5	363	160	150
		ME3L	MX3S	195	442.5	437.5	1061.5	142	366	1151.5	367	160	150
		MX3L		195	442.5	437.5	1105.5	142	372	1197.5	375	160	150
	S4	ME4	MX4	258	474	469	1169.5	193	400	1278.5	409	204	210
		ME4LB	MX4LA	258	474	469	1204.5	245	408	1338.5	419	204	210

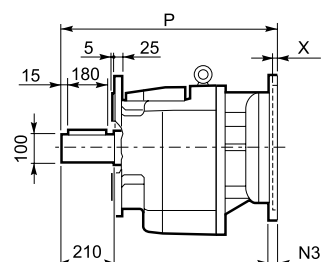
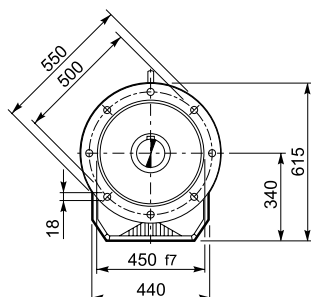
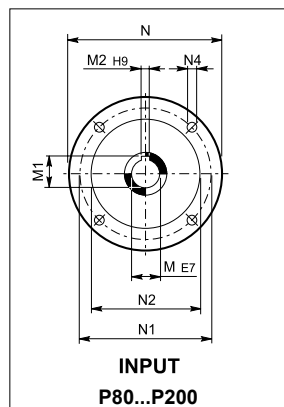
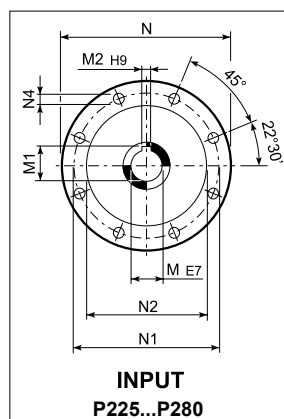


C 100...P(IEC)

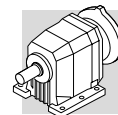
P



F

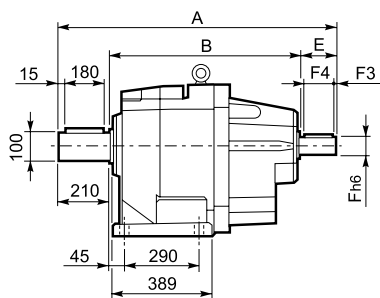
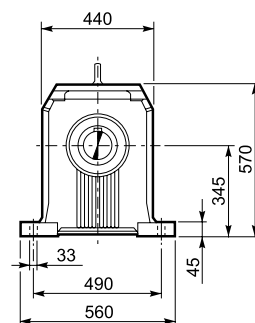
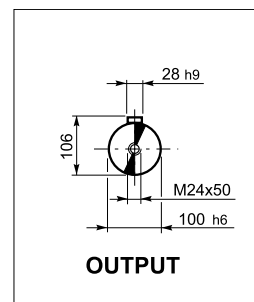


		M	M1	M2	N	N1	N2	N3	N4	X	P	
C 100 2/3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	749.5	364
C 100 2/3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	749.5	364
C 100 2/3	P132	38	41.3	10	300	265	230	16	14	5	786	367
C 100 2/3	P160	42	45.3	12	350	300	250	23	18	6	841.5	382
C 100 2/3	P180	48	51.8	14	350	300	250	23	18	6	841.5	382
C 100 2/3	P200	55	59.3	16	400	350	300	—	M16x25	7	866.5	403
C 100 2/3	P225	60	64.4	18	450	400	350	30	18	7	912	403
C 100 2/3	P250	65	69.4	18	550	500	450	30	18	7	942	426
C 100 2/3	P280	75	79.9	20	550	500	450	30	18	6	942	426
C 100 4	P63	11	12.8	4	140	115	95	—	M8x19	4	803	369
C 100 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	803	369
C 100 4	P80	19	21.8	6	200	165	130	—	M10x14.5	4	822.5	371
C 100 4	P90	24	27.3	8	200	165	130	—	M10x14.5	4	822.5	371
C 100 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	832.5	375
C 100 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	832.5	375
C 100 4	P132	38	41.3	10	300	265	230	16	14	5	869	377
C 100 4	P160	42	45.3	12	350	300	250	23	18	5.5	919.5	381
C 100 4	P180	48	51.8	14	350	300	250	23	18	5.5	919.5	381

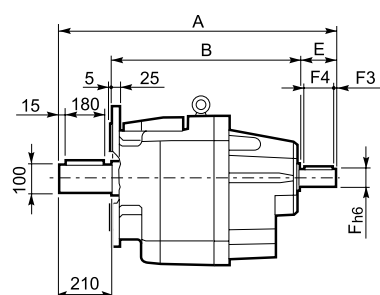
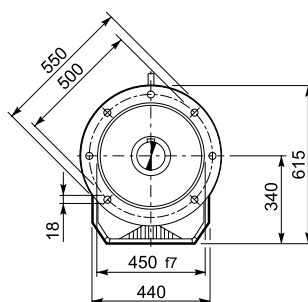
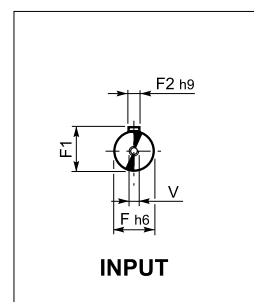


C 100...HS

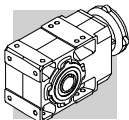
P



F



		A	B	E	F	F1	F2	F3	F4	V	
C 100 2	HS	1025.5	676	140	60	64	18	10	120	M16x36	409
C 100 3		1025.5	676	140	60	64	18	10	120	M16x36	409
C 100 4		892	632	50	24	27	8	2.5	45	M8x19	372



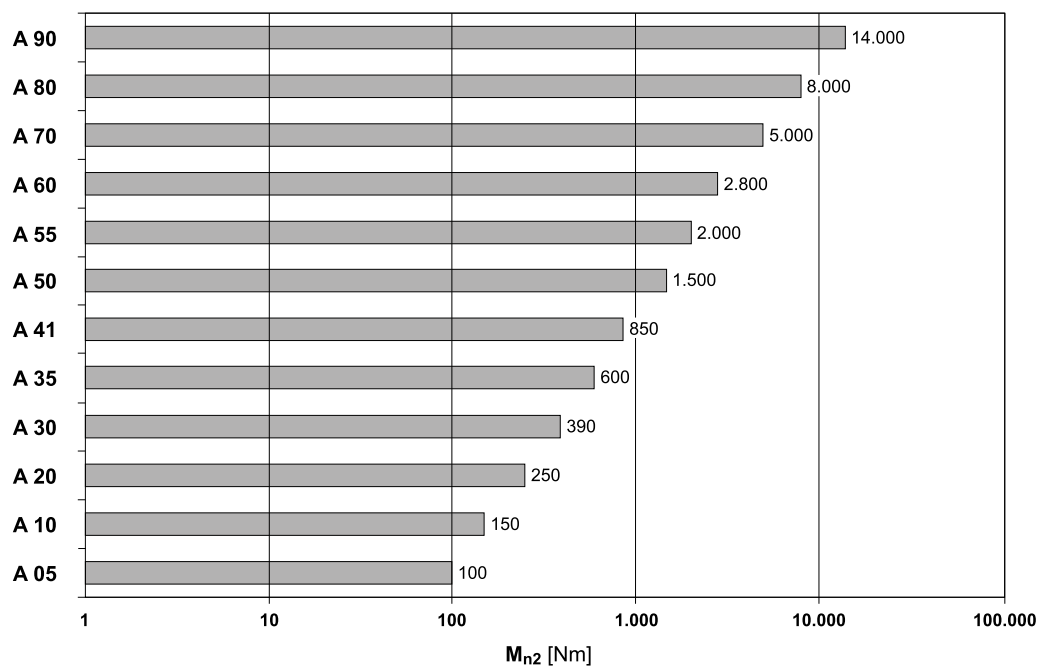
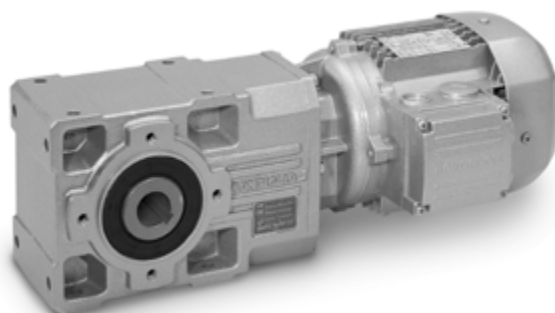
REDUCTEURS AVEC ARBRES ORTHOGONAUX SERIE A

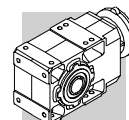
31 CARACTERISTIQUES DE CONSTRUCTION

Les principales caractéristiques de construction sont :

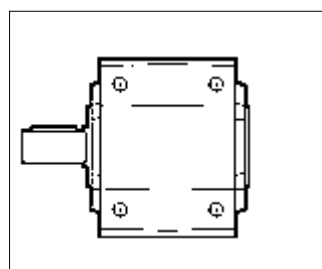
- modularité
- compacité
- montages universels
- rendements élevés
- faible niveau de bruit
- engrenages en acier allié cémentés et trempés
- carters en aluminium non peints dans les tailles 05, 10, 20, 30, carters en fonte à haute résistance peints dans les autres tailles
- arbres d'entrée et de sortie en acier à haute résistance.

(C 26)





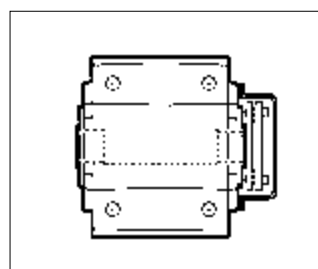
32 FORMES DE CONSTRUCTION



UR

Arbre lent sortant
d'un seul côté

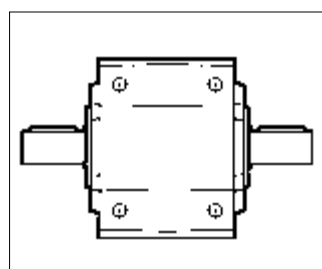
A 05 ... A 90



US

Arbre lent creux
et frette de serrage

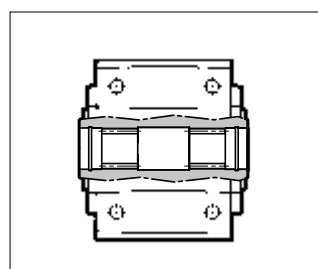
A 05 ... A 90



UD

Arbre lent sortant
des deux côtés

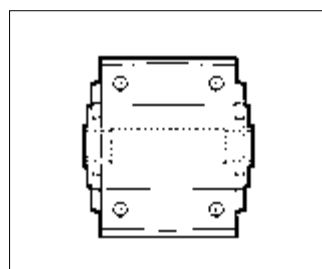
A 05 ... A 90



UV

Arbre creux
cannelé DIN 5480

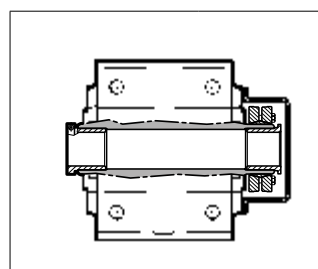
A 20 ... A 60



UH

Arbre lent creux
claveté

A 05 ... A 90



QF (Quick-fit)

Arbre creux avec
douilles d'adaptation
et frette de serrage

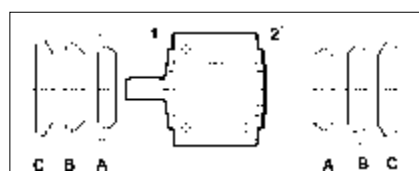
A 10 ... A 60

$M_{n2 \max}$ [Nm]	
A 35 QF35	550
A 55 QF55	1900

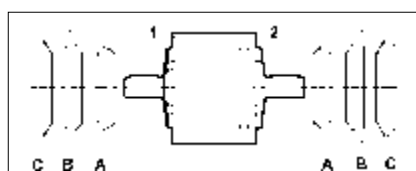
Formes de construction avec bride rapportée

Les schémas reportés définissent les brides applicables aux formes de construction standard et leur position (①,②).

UR F1...



UR F2...

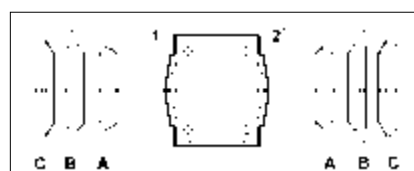


UD F1...

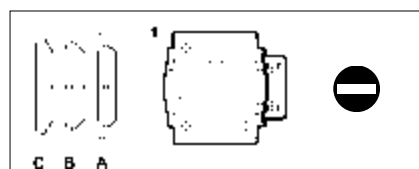
UD F2...

UH... F1...

UH... F2...



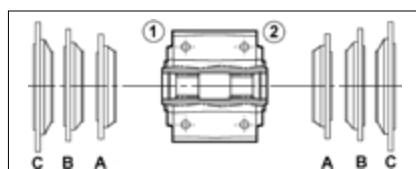
US F1...



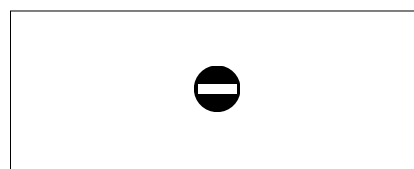
US F2...

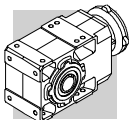
UV F1...

UV F2...



QF...





33 DESIGNATION

REDUCTEUR

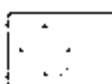
A 35 2 UH40 F1A 49.1 S1 VA

OPTIONS

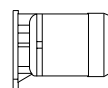
POSITION DE MONTAGE

B3 (Standard), **B6, B7, B8, VA, VB**

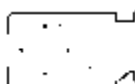
DESIGNATION ENTREE



S05 ... S5



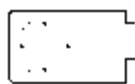
**M - ME -
MX - MXN**



IEC_ P63 ... P250



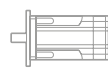
**BN - BE
BX - BXN**



SK_

SC_

S_



HS

RAPPORT DE REDUCTION

TAILLE ET POSITION BRIDE EN SORTIE
(spécifier si elle est demandée)

F = Version avec bride

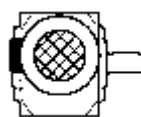
1, 2 = Position bride

A, B, C = Taille bride

FORME DE CONSTRUCTION

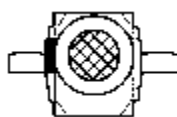


UH_



UR

(A 05...A 90)



UD

(A 05...A 90)



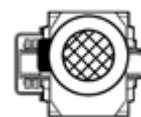
US

(A 05...A 90)



UV

(A 20...A 60)



QF

(A 10...A 60)

A 05	A 10	A 20	A 30	A 35	A 41	A 50	A 55	A 60	A 70	A 80	A 90
UH25	UH25	UH30	UH35	UH40	UH45	UH50	UH60	UH60	UH70	UH80	UH90
—	UH30	UH35	UH40	UH35	UH40	UH55	UH50	UH70	UH80	UH90	UH100

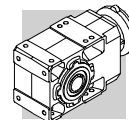
Nbre ETAGES DE REDUCTION

2 (A 05...A 60), **3** (A 20...A 90), **4** (A 50...A 90)

TAILLE REDUCTEUR

05, 10, 20, 30, 35, 41, 50, 55, 60, 70, 80, 90

TYPE: **A** = Réducteurs avec arbres orthogonaux



MOTEUR						FREIN						
M	1	LA	4	230/400-50	IP54 CLF		W	FD	7.5 R	SB	220 SA	
												OPTIONS
												ALIMENTATION FREIN
												TYPE REDRESSEUR AC/DC NB, SB, NBR, SBR, NR, SR
												LEVIER DE DEBLOCAGE FREIN R, RM
												COUPLE FREIN
												TYPE DE FREIN FD (frein c.c.) FDD (frein à courant continu haute performance)
												POSITION BOITE A BORNES W (défault), N, E, S
												FORME DE CONSTRUCTION — (moteur compact) B5 (moteur IEC)
												CLASSE ISOLATION CL F standard CL H option
												DEGRE DE PROTECTION IP54, IP55, IP56
												TENSION - FRÉQUENCE Par BXN/MXN voir la section “ Tension et fréquence ” dans le catalogue EVOX
												Nbre POLES 2, 4, 6
												TAILLE MOTEUR 0B ... 5LA (moteur compact) 63A ... 280SBK (moteur IEC)

TYPE MOTEUR

MX-MXN = 3phasé compact, classe IE3

BX-BXN = 3phasé IEC, classe IE3

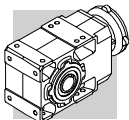
BY = 3phasé IEC, classe IE4

ME = 3phasé compact, classe IE2

BE = 3phasé IEC, classe IE2

M = 3phasé compact

BN = 3phasé IEC



33.1 Options réducteurs

LUBRIFICATION

Les réducteurs A05, A10, A20, A30, A35 et A41 sont généralement remplis d'huile en usine dans la version standard. Les réducteurs A50, A55, A60, A70, A80 et A90 sont généralement fournis non lubrifiés dans la version standard.

Cependant, pour toutes les tailles de réducteurs remplis d'huile en usine, il est possible de demander la fourniture avec plus de types d'huile, sélectionnables selon ce qui est défini dans le tableau suivant. L'option n'est pas disponible pour les réducteurs A50, A55, A60, A70, A80 et A90 dans les positions de montage B6 et B7

L'option n'est pas disponible pour le réducteur A602 en position de montage VB.

LUBRIFICATION	Type	Désignation	Producteur
LU ^[1]	Polyalphaoléfine (PAO)	OMALA S4 GX 150	
LY ^[1]	Polyalphaoléfine (PAO)	OMALA S4 GX 220	
LV ^[1]	Polyalphaoléfine (PAO)	OMALA S4 GX 320	
LW ^[1]	Polyalphaoléfine (PAO)	OMALA S4 GX 460	
LH	Polyglycol (PAG)	OMALA S4 WE 150	
LS	Polyglycol (PAG)	OMALA S4 WE 220	
LO*	Polyglycol (PAG)	OMALA S4 WE 320	
LK	Polyglycol (PAG)	OMALA S4 WE 460	
LN ^{[1] [2]}	Base minérale EP	OMALA S2 G 150	
LZ ^{[1] [2]}	Base minérale EP	OMALA S2 G 220	
LI ^{[1] [2]}	Base minérale EP	OMALA S2 G 320	
LJ ^{[1] [2]}	Base minérale EP	OMALA S2 G 460	
LA	Utilisation alimentaire	KLUBERSYNTH UH1 6-150	
LB	Utilisation alimentaire	KLUBERSYNTH UH1 6-220	
LC	Utilisation alimentaire	KLUBERSYNTH UH1 6-320	
LD	Utilisation alimentaire	KLUBERSYNTH UH1 6-460	

* Sauf indication contraire, les réducteurs A05, A10, A20, A30, A35 et A41 livrés avec une charge de lubrifiant utilisent de l'huile OMALA S4 WE 320.

[1] Utilisation non autorisée pour les réducteurs A 05...A 60.

[2] L'impiego dell'olio minerale è consentito nei motoriduttori con fattore di servizio $f_s \geq 1,30$.

SO

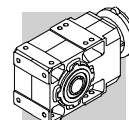
Les réducteurs A05, A10, A20, A30, A35 et A41, habituellement fournis avec lubrifiant, sont livrés sans huile.

DV

2 bagues d'étanchéité sur l'arbre rapide. (Disponible seulement sur les motoréducteurs compacts).

VV

Bague d'étanchéité en élastomère fluoré sur l'arbre rapide.



PV

Toutes les bagues d'étanchéité en élastomère fluoré.

TKL

Pour les réducteurs A70...A90, à utiliser dans les environnements caractérisés par la présence de poussières abrasives, sont disponibles pour l'arbre lent des joints de type Taconite constitués d'une combinaison de bagues d'étanchéité, de labyrinthes et d'une chambre de lubrification.

La présence de graisse doit être vérifiée pendant les opérations d'entretien périodiques.

Cette option prévoit bagues d'étanchéité en élastomère fluoré sur tous les axes.

Pour la position de montage B6 contacter le Service Technique de Bonfiglioli.

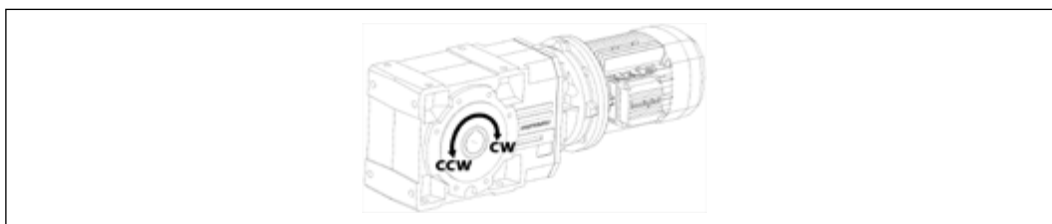
AL, AR

Sur demande, le réducteur peut être fourni avec un dispositif anti-retour permettant à l'arbre lent de tourner uniquement dans le sens spécifié lors de la commande. Le dispositif anti-retour exclut l'option RB.

Pour les motoréducteurs compacts, le dispositif anti-retour est également disponible en option du moteur (voir Options moteur).

Lors de la commande du réducteur, le sens de rotation libre doit être spécifié au moyen de l'option AR ou AL. Le tableau suivant indique les réducteurs sur lesquels le dispositif anti-retour peut être installé et permet de sélectionner l'option AR ou AL en fonction du sens de rotation libre souhaité sur l'arbre lent du réducteur (sens horaire ou antihoraire).

(C 27)



(C 28)

Option à sélectionner en fonction du sens de rotation libre requis sur l'arbre lent du réducteur le tableau se réfère au réducteur en position de montage B3, côté gauche vu du côté moteur (voir C27).
(CW : sens horaire, CCW : sens antihoraire)

	CW			CCW		
	2x	3x	4x	2x	3x	4x
05						
10						
20						
30	AL ¹⁾			AR ¹⁾		
35	AL ^{1) 2)}			AR ^{1) 2)}		
41	AL ³⁾			AR ³⁾		
50		AL	AL		AR	AR
55		AL	AL		AR	AR
60		AL	AL		AR	AR
70		AL	AL		AR	AR
80		AL	AL		AR	AR
90		AL	AL		AR	AR

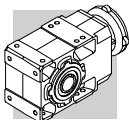
1) A 30 2 et A 35 2 : dispositif anti-retour non compatible avec les adaptateurs pour servomoteur de type S60A, S 60B, S_80A

2) A 35 2 : dispositif anti-retour non disponible pour les rapports 5.4 ... 11,8

3) A 41 2 : dispositif anti-retour non disponible pour les rapports 5.2 ... 10,1



REMARQUE : Lorsque le dispositif anti-retour intervient très souvent, vérifier que le couple de l'arbre de sortie, résultant de l'application de la charge, ne dépasse pas 70% du couple nominal M_{n2} du réducteur en question.



HDB

Pour les applications caractérisées par la présence de charges radiales particulièrement importantes et pour lesquelles la capacité radiale offerte par les réducteurs en exécution standard n'est pas suffisante, il est possible de commander certains réducteurs dotés d'une capacité radiale augmentée en précisant l'option HDB lors de la commande. Cette option est disponible pour les réducteurs à partir du A10 et jusqu'au A50, s'ils sont dotés d'un arbre lent cylindrique à simple ou double saillie. Les charges pouvant être supportées par les groupes en exécution renforcée sont indiquées dans le tableau suivant. Les valeurs font référence à l'application de forces au centre de l'arbre lent.

(C 29)

HDB	R_{N2}					
	A 10	A 20	A 30	A 35	A 41	A 50
$n_1 = 2800$	5500 N	6200 N	9600 N	12000 N	15000 N	20000 N
			8970 N @ i=5.4	10200 N @ i=5.4 10600 N @ i=6.4 11000 N @ i=7.0	11500 N @ i=5.2 12700 N @ i=7.1 13300 N @ i=8.3 13700 N @ i=9.2	19000 N @ i=7.7
$n_1 = 1400$	5500 N	6200 N	9600 N	12000 N	15000 N	20000 N
$n_1 = 900$	5500 N	6200 N	9600 N	12000 N	15000 N	20000 N
$n_1 = 500$	5500 N	6200 N	9600 N	12000 N	15000 N	20000 N

Les roulements renforcés permettent également l'application d'un pourcentage de charge axiale plus important, notamment :

$$A_{N2} = 0.35 \times R_{N2} \quad (24)$$

En l'absence d'une charge radiale, la charge axiale applicable est :

$$A_{N2} = 0.70 \times R_{N2} \quad (25)$$

En cas de forces appliquées simultanément sur les deux saillies de l'arbre lent, il est recommandé de contacter le Service Technique de Bonfiglioli pour la vérification.

IHB

Pour les applications où le rapport Couple nominal M_{n2} - Couple demandé M_{r2} du réducteur :

$$\frac{M_{n2}}{M_{r2}} \leq 1.5$$

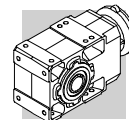
certaines réducteurs peuvent être demandées avec des roulements à capacité de charge accrue en spécifiant l'option **IHB** dans la commande. L'option IHB est disponible pour tous les réducteurs livrés avec adaptateur moteur IEC : P160 - P180 - P200.

Il est conseillé de contacter le Service Technique Bonfiglioli pour vérifier l'application.

RB

Les réducteurs des types A10, A20, A30, A35, A41, A50, A55 et A60, habituellement fournis avec un jeu angulaire standard, sont, dans ce cas, fournis avec un jeu angulaire réduit (exclut les options réducteurs AL et AR décrites dans le présent paragraphe).

Les valeurs correspondantes au jeu angulaire sont reportées dans le tableau suivant.



(C 30)

		standard		RB	
A05	i =	5.5_12.3 - $\ominus$ (10.6)	10.6_91.6 - $\ominus$ (12.3)	—	
	φ [°]	28	18		
A10	i =	5.5_12.3 - $\ominus$ (10.6)	10.6_91.6 - $\ominus$ (12.3)	5.5_12.3 - $\ominus$ (10.6)	10.6_91.6 - $\ominus$ (12.3)
	φ [°]	27	17	12	8
A20	i =	5.4_12 - $\ominus$ (10.3)	10.3_380.9 - $\ominus$ (12)	5.4_12 - $\ominus$ (10.3)	10.3_380.9 - $\ominus$ (12)
	φ [°]	23	15	11	7
A30	i =	5.4_11.8 - $\ominus$ (10.5)	10.5_400.8 - $\ominus$ (11.8)	5.4_11.8 - $\ominus$ (10.5)	10.5_400.8 - $\ominus$ (11.8)
	φ [°]	22	15	10	7
A35	i =	5.4_11.8	13.1_393.2	5.4_11.8	13.1_393.2
	φ [°]	20	11	9	6
A41	i =	5.2_11.7 - $\ominus$ (10.1)	10.1_376.8 - $\ominus$ (11.7)	5.2_11.7 - $\ominus$ (10.1)	10.1_376.8 - $\ominus$ (11.7)
	φ [°]	19	13	9	6
A50	i =	7.7_778.2		7.7_778.2	
	φ [°]	16		7	
A55	i =	4.9_19.2	23.8_793	4.9_19.2	23.8_793
	φ [°]	17	11	8	6
A60	i =	7.9_20.6	25.7_755.4	7.9_20.6	25.7_755.4
	φ [°]	12	9	5	4
A70	i =	9.4_21.3	23.5_1715	—	
	φ [°]	14	12		
A80	i =	9.8_20.9	22.6_1558	—	
	φ [°]	13	11		
A90	i =	9.7_21	22.3_1632	—	
	φ [°]	12	10		

Pour la cadence de livraison contacter le réseau de vente Bonfiglioli

BP

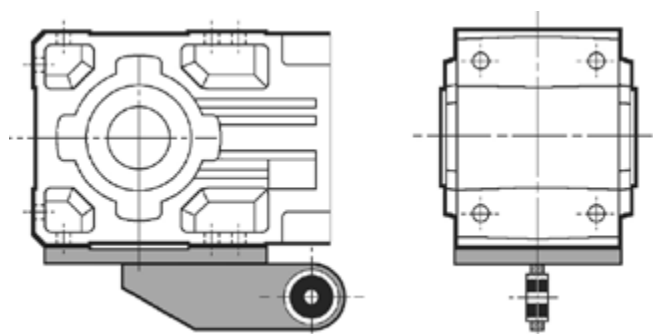
Les réducteurs, généralement fournis avec un reniflard ouvert, sont fournis avec un reniflard à soupape. L'étalonnage de la soupape peut varier de 0,10 à 0,15 bar selon le type de reniflard. La soupape s'ouvre à intervalles et permet l'évacuation de la pression interne empêchant les corps étrangers de pénétrer.

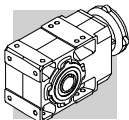
Pour la disponibilité des options, voir le chapitre «Positions de montage et fiches de service» du manuel d'installation, d'utilisation et d'entretien (disponible sur: www.bonfiglioli.com).

Si nécessaire, contactez le service technique de Bonfiglioli.

TA

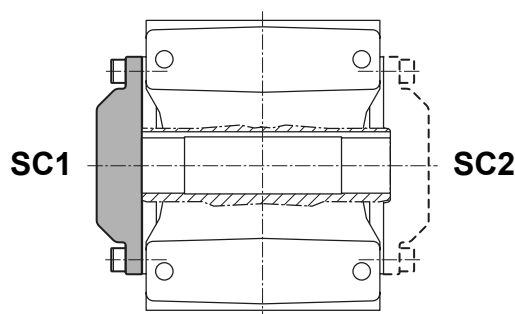
Les réducteurs A05... A60 sont fournis avec le bras de réaction assemblé comme illustré.





COUVERCLE DE PROTECTION

Les réducteurs sont fournis avec un couvercle de protection pour l'axe de sortie (matériau métallique).
Il est possible de demander le bras de réaction monté suivant plusieurs positions comme illustré (SC1, SC2).



L'applicabilité de l'option CAPUCHON DE PROTECTION est décrite dans le tableau suivant.

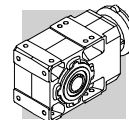
	COUVERCLE DE PROTECTION	
	SC1	SC2
A0.5...A90 UH...	X	X
A0.5...A90 UH...F1...	⊖	X
A0.5...A90 UH...F2...	X	⊖
A20...A60 UV...	X	X
A20...A60 UV...F1...	⊖	X
A20...A60 UV...F2...	X	⊖

STOCKAGE LONGUE DUREE

En présence de l'option Stockage longue durée, le produit configuré est fourni sans l'huile de lubrification standard mais avec un liquide de protection anticorrosion pour garantir l'intégrité et la pleine fonctionnalité du réducteur dans les cas où l'unité ne sera pas installée immédiatement mais doit être stockée pendant une longue période (installation au-delà de 6 mois à compter de la livraison). Les conditions de garantie sont valables 12 mois à compter de la mise en service (avec mise en service dans les 24 mois à compter de la livraison) ou 24 mois à compter de la livraison sans mise en service. Après 2 ans de stock, l'unité avec option Stockage longue durée doit être vérifiée par le centre d'assistance Bonfiglioli. En cas de produit mal conservé, une offre de Bonfiglioli sera émise pour une restauration complète. Une fois l'activité de récupération terminée avec succès, les conditions de garantie redémarrent à partir des 12 mois de mise en service (avec une mise en service dans les 24 mois à compter de la date de restauration) ou 24 mois à compter de la date de restauration.

Applicabilité de l'option Stockage longue durée :

Taille du réducteur	Applicabilité de l'option Stockage longue durée
A05 ... A41	Uniquement lorsque les options de lubrification ne sont pas actives (l'option SO est sélectionnée)
A51 ... A90	Uniquement lorsque les options de lubrification ne sont pas actives (LO, LH, LS, LK, LA, LB, LC, LD)



L'option Stockage longue durée peut être demandée en 2 versions :

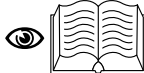
- **SLM Stockage longue durée_Huile minérale** : option avec huile de protection anti-corrosive compatible avec tous les lubrifiants à base d'huile minérale répertoriés dans le manuel Bonfiglioli "Installation, fonctionnement et entretien".
- **SLP Stockage longue durée_Huile Polyglycole** : option ayant une huile de protection anticorrosion compatible avec tous les lubrifiants à base d'huile polyglycol répertoriés dans le manuel Bonfiglioli "Installation, fonctionnement et maintenance".

Remarque : une seule version peut être sélectionnée. SLM et SLP ne peuvent pas coexister.

Lors de la configuration d'un réducteur ou d'un motoréducteur avec l'option Stockage longue durée, il est nécessaire de connaître le type d'huile de lubrification qui sera utilisée par le client pendant la période de fonctionnement (huile minérale ou polyglycol).

Avant de mettre en service un produit Bonfiglioli avec cette option, assurez-vous que l'activité de remplissage d'huile de lubrification s'effectue à travers le bouchon de remplissage spécifique déterminé par la position de montage indiquée sur la plaque.

En ce qui concerne les réducteurs à lubrification à vie (voir tableau ci-dessous), la quantité d'huile de lubrification à rajouter n'est pas indiquée dans le manuel Bonfiglioli "installation, utilisation et entretien" correspondant. Dans ce cas, si l'option Stockage longue durée est active, il est donc nécessaire de contacter le centre d'assistance Bonfiglioli pour recevoir cette information.

Taille du réducteur	Quantité de lubrifiant
A05 ... A41	 BONFIGLIOLI TECHNICAL SERVICE
A51 ... C90	

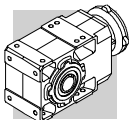
PROTECTION DE SURFACE

Lorsque qu'aucune classe de protection n'est requise, les surfaces (ferreuses) des réducteurs fournissent une protection minimale de classe C2 (UNI EN ISO 12944-2). Afin d'améliorer la résistance à la corrosion atmosphérique, les réducteurs peuvent être fournis avec une protection de surface **C3** et **C4**, obtenue par recouvrement complet.

(C 31)

PROTECTION DE SURFACE	Environnements typiques	Température maximum de surface	Classe de corrosivité en accord avec UNI EN ISO 12944-2
C3	Environnement urbains et industriels avec jusqu'à 100% d'humidité relative (pollution de l'air moyenne)	120°C	C3
C4	Zones industrielles, zones côtières, usines chimiques, avec jusqu'à 100% d'humidité relative (pollution de l'air élevée)	120°C	C4

Les réducteurs avec une protection optionnelle en classes **C3** ou **C4** sont disponibles dans plusieurs teintes. Si aucune teinte spécifique n'est requise (voir l'option "PEINTURE"), les réducteurs seront réalisés en RAL 7042. Les réducteurs peuvent également être fournis avec une protection de surface pour une corrosivité en classe **C5** en accord avec UNI EN ISO 12944-2. Contacter notre Service Technique pour plus de détails.



PEINTURE

Les réducteurs avec une protection optionnelle en classe C3 ou C4 sont disponibles dans les teintes indiquées dans la table suivante.

(C 32)

PEINTURE	Couleur	RAL numéro
RAL7042*	Gris traffic A	7042
RAL5010	Bleu gentiane	5010
RAL9005	Noir foncé	9005
RAL9006	Aluminium blanc	9006
RAL9010	Blanc pur	9010
RAL7035	Gris clair	7035
RAL7001	Gris Argenté	7001
RAL5015	Bleu ciel	5015
RAL7037	Gris poussiéreux	7037
RAL5024	Bleu pastel	5024

* Les réducteurs sont fournis dans cette teinte standard si rien n'est spécifié.

NOTE – Les options “PEINTURE” peuvent seulement être spécifiées en accord avec les options “PROTECTION DE SURFACE”.

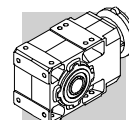
PREUVES DOCUMENTAIRES

AC - Certificat de conformité

Document dont la délivrance atteste de la conformité du produit à la commande et de la construction de celui-ci conformément aux procédures standard de traitement et de contrôle prévues par le système de Qualité Bonfiglioli Riduttori.

CC - Certificat de réception

La spécification implique la réalisation de vérifications de conformité à la commande, des contrôles visuels généraux et des vérifications instrumentales des dimensions d'accouplement. En outre, des contrôles généraux de fonctionnement à vide et des vérifications de la fonctionnalité des joints d'étanchéité sont réalisés en modalité statique et en fonctionnement. La vérification s'applique à un échantillon statistique du lot d'expédition.



33.3 Options moteurs

AL, AR

L'option dispositif anti-retour est disponible pour les moteurs M, ME et MX et n'est pas compatible avec l'option réducteur correspondante.

Lors de la commande du réducteur, le sens de rotation libre doit être spécifié au moyen de l'option AR ou AL. Le tableau suivant (C34) indique les réducteurs sur lesquels le dispositif anti-retour peut être installé et permet de sélectionner l'option AR ou AL en fonction du sens de rotation libre souhaité sur l'arbre lent du réducteur (sens horaire ou antihoraire).

(C 33)

Option à sélectionner en fonction du sens de rotation libre requis sur l'arbre lent du réducteur
 Le tableau se réfère au réducteur en position de montage B3, côté gauche vu du côté moteur (voir figure).
 (CW : sens horaire, CCW : sens antihoraire)

	CW			CCW		
	2x	3x	4x	2x	3x	4x
05	AL			AR		
10	AL			AR		
20	AL	AR		AR	AL	
30	AL	AR		AR	AL	
35	AL	AR		AR	AL	
41	AL	AR		AR	AL	
50	AL	AR	AL	AR	AL	AR
55	AR	AR	AL	AL	AL	AR
60	AL	AL	AR	AR	AR	AL
70		AL	AR		AR	AL
80		AL	AR		AR	AL
90		AL	AR		AR	AL

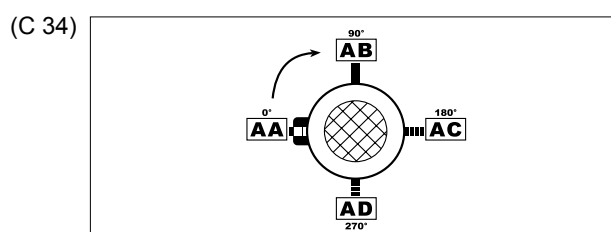
Pour de plus amples informations sur les options, consulter la section moteurs électriques.

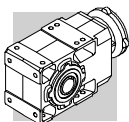
34 POSITIONS DE MONTAGE ET ORIENTATION BOITE A BORNES

Les orientations des boîtes à bornes des moteurs sont définies en regardant le moteur du côté ventilateur. L'orientation standard est indiquée en noir (W).

Position angulaire levier déblocage frein.

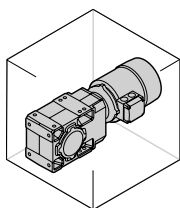
Dans les moteurs freins, ce levier (si requis) aura l'orientation standard de 90° par rapport à la boîte à bornes (position AB); spécifier avec options relatives si l'orientation désirée est différente.



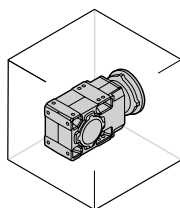


A ...

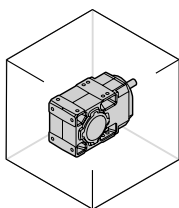
B3



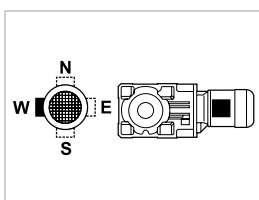
_S



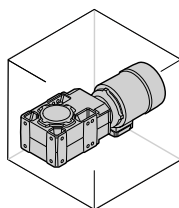
_P(IEC) _SK / _SC



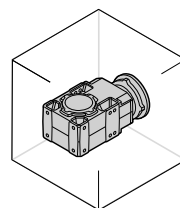
_HS



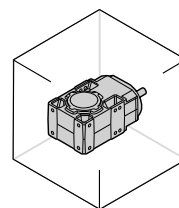
B6



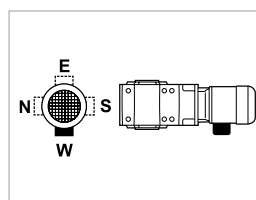
_S



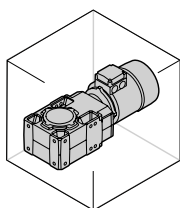
_P(IEC) _SK / _SC



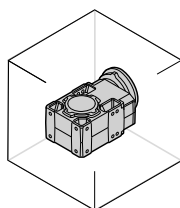
_HS



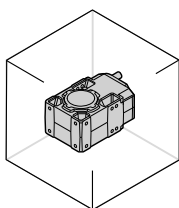
B7



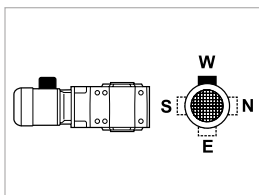
_S



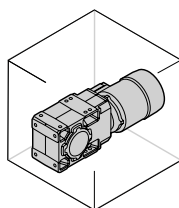
_P(IEC) _SK / _SC



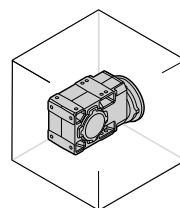
_HS



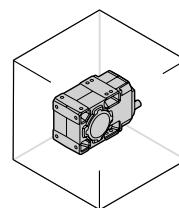
B8



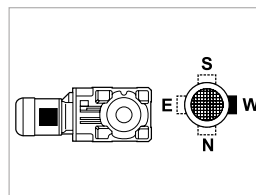
_S



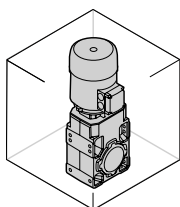
_P(IEC) _SK / _SC



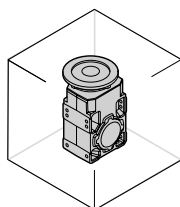
_HS



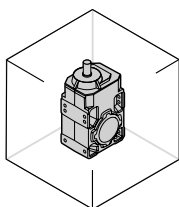
VA



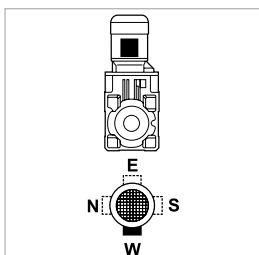
_S



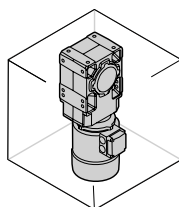
_P(IEC) _SK / _SC



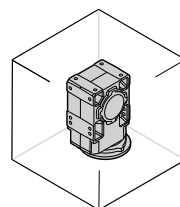
_HS



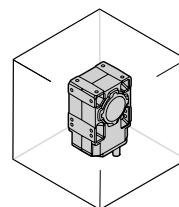
VB



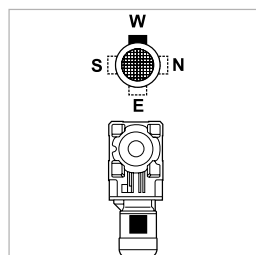
_S



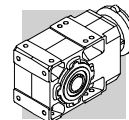
_P(IEC) _SK / _SC



_HS



W = Default



35 CHARGES RADIALES

Les organes de transmission calés sur les arbres d'entrée et/ou de sortie du réducteur génèrent des forces dont la résultante agit sur l'arbre dans le sens radial.

L'entité de ces charges doit être compatible avec la capacité d'endurance du système arbre-roulements du réducteur. Plus particulièrement, la valeur absolue de la charge appliquée (R_{c1} pour l'arbre d'entrée, R_{c2} pour l'arbre de sortie) doit être inférieure à la valeur nominale (R_{n1} pour l'arbre d'entrée, R_{n2} pour l'arbre de sortie) indiquée dans les tableaux des données techniques.

Dans les formules qui suivent, l'indice (1) se réfère à des valeurs relatives à l'arbre rapide, l'indice (2) concerne l'arbre lent.

La charge générée par une transmission extérieure peut être calculée, avec une bonne approximation, au moyen de la formule suivante :

$$R_{c1} [N] = \frac{2000 \cdot M_1 [Nm] \cdot K_r}{d [mm]} \quad ; \quad R_{c2} [N] = \frac{2000 \cdot M_2 [Nm] \cdot K_r}{d [mm]} \quad (26)$$

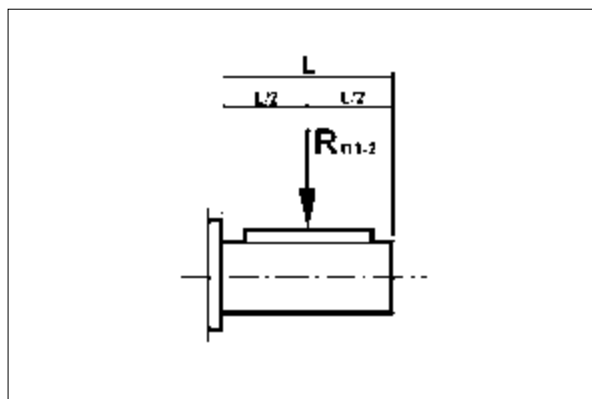
(C 35)

M₁ [Nm]	Couple appliqué à l'arbre rapide
M₂ [Nm]	Couple délivré par l'arbre lent
d [mm]	Diamètre primitif de l'organe monté sur l'arbre
K_r = 1	Transmission à chaîne

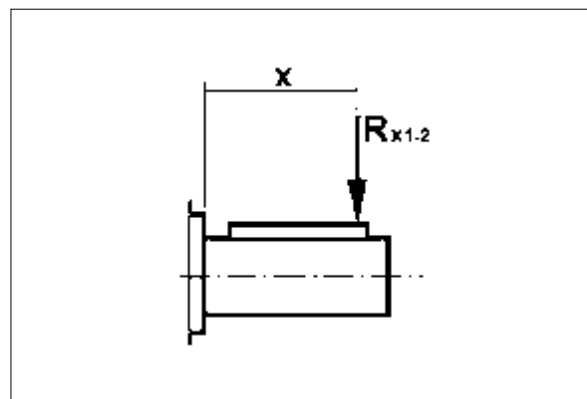
K_r = 1,25	Transmission à engrenage
K_r = 1,5	Transmission à courroie trapézoïdale
K_r = 2,0	Transmission à courroie plate

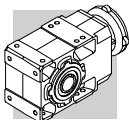
En fonction du point d'application de la charge sur l'arbre, la vérification de la compatibilité sera différente, plus particulièrement :

(C 36)



(C 37)





a) Application au milieu, tab. (C36)

La charge précédemment calculée doit être comparée avec la valeur nominale correspondante indiquée dans le catalogue, on doit vérifier :

$$Rc1 \leq Rn1 \quad [\text{arbre rapide}]$$

ou

$$Rc2 \leq Rn2 \quad [\text{arbre lent}]$$

b) Application déplacée du milieu, tab. (C37)

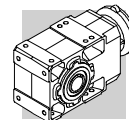
L'application de la charge à une distance "x" de la butée de l'arbre implique un nouveau calcul de la valeur admissible à cette distance.

La nouvelle valeur est indiquée par les symboles Rx1 (entrée) et Rx2 (sortie) ou peut être calculée d'après les valeurs de catalogue, respectivement Rn1 et Rn2, en élaborant le facteur :

$$\frac{a}{b+x} \quad (27)$$

(C 38)

	Constantes du réducteur					
	Arbre lent			Arbre rapide		
	a	b	c	a	b	c
A 05 2	116	86	450	—	—	—
A 10 2	123	101	600	21	1	300
A 20 2	150	120	750	40	20	350
A 20 3	150	120	750	21	1	300
A 30 2	168	138	900	38.5	18.5	350
A 30 3	168	138	900	21	1	300
A 35 2	182.5	147.5	950	38.5	18.5	350
A 35 3	182.5	147.5	950	21	1	300
A 41 2	198	158	1050	49.5	24.5	450
A 41 3	198	158	1050	40	20	350
A 50 2 - A 50 3	242.5	201.5	1300	49.5	24.5	450
A 50 4	242.5	201.5	1300	38.5	18.5	350
A 55 2 - A 55 3	231.5	179	1300	49.5	24.5	450
A 55 4	231.5	179	1300	38.5	18.5	350
A 60 2 - A 60 3	242.5	190	1550	55.5	25.5	600
A 60 4	242.5	190	1550	49.5	24.5	450
A 70 3	295.5	230.5	1900	86	31	1000
A 70 4	295.5	230.5	1900	49.5	24.5	450
A 80 3	345	280	2400	86	31	1000
A 80 4	345	280	2400	49.5	24.5	450
A 90 3	432	327	3000	116	46	1400
A 90 4	432	327	3000	49.5	24.5	450



La procédure de vérification comporte les pas successifs indiqués ici.

ARBRE RAPIDE

1. Calcul de :

$$R_{x1} = R_{n1} \cdot \frac{a}{b+x} \quad (28)$$

N.B. A condition que :

$$\frac{L}{2} \leq x \leq c \quad (29)$$

Ensuite, vérifier que :

$$R_{c1} \leq R_{x1} \quad (30)$$

ARBRE LENT

1. Calcul de :

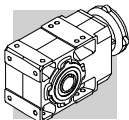
$$R_{x2} = R_{n2} \cdot \frac{a}{b+x} \quad (31)$$

N.B. A condition que :

$$\frac{L}{2} \leq x \leq c \quad (32)$$

Ensuite, vérifier que :

$$R_{c2} \leq R_{x2} \quad (33)$$



36 CHARGES AXIALES, A_{n1} , A_{n2}

Les valeurs de charge axiale admissible sur les arbres rapides $[A_{n1}]$ et lent $[A_{n2}]$ peuvent être calculées, en se référant à la valeur de charge radiale correspondante $[R_{n1}]$ et $[R_{n2}]$ au moyen des formules suivantes.

$$\begin{aligned} A_{n1} &= R_{n1} \cdot 0.2 \\ A_{n2} &= R_{n2} \cdot 0.2 \end{aligned} \quad (34)$$

Les valeurs de charge axiale admissible ainsi calculées se réfèrent au cas de forces axiales agissant en même temps que les charges radiales nominales.

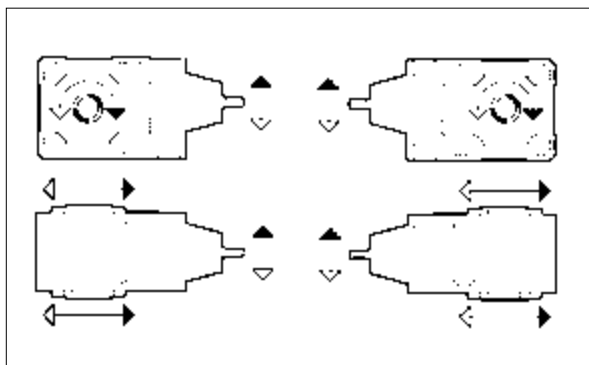
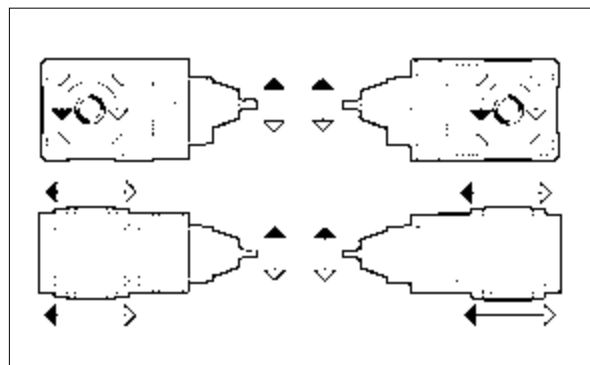
Dans le cas où la valeur de la charge radiale agissant sur l'arbre est nulle, l'on peut considérer la charge axiale admissible $[A_n]$ égale à 50% de la valeur de la charge radiale admissible $[R_n]$ sur le même arbre.

En présence de charges axiales excédant la valeur admissible, ou de forces axiales fortement supérieures aux charges radiales, il est conseillé de contacter le Service Technique Bonfiglioli Riduttori pour une vérification.

37 ROTATION ARBRES

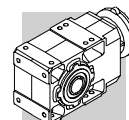
Dans les schémas reportés dans le tableau suivant sont indiqués les sens de rotation standard des réducteurs avec arbres orthogonaux à 2, 3 et 4 étages de réduction.

(C 39)



2x	A 05	A 10	A 20	A 30	A 35	A 41	A 50	A 60
3x	A 60	A 70	A 80	A 90				
4x	A 50	A 55						

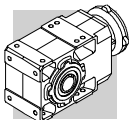
2x	A 55						
3x	A 20	A 30	A 35	A 41	A 50	A 55	
4x	A 60	A 70	A 80	A 90			



38 DONNEES TECHNIQUES MOTOREDUCTEURS

0.12 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				IEC		
					IE2	IE3		IE2	IE3	
1.7	588	2.5	778.2	20000				A504_778.2 P63 BE63A4	A504_778.2 P63 BX63A4	347
1.9	535	2.8	707.9	20000				A504_707.9 P63 BE63A4	A504_707.9 P63 BX63A4	347
2.1	477	3.1	631.2	20000				A504_631.2 P63 BE63A4	A504_631.2 P63 BX63A4	347
2.4	434	3.5	574.2	20000				A504_574.2 P63 BE63A4	A504_574.2 P63 BX63A4	347
3.4	310	1.2	400.8	9600	A303_400.8 S05 ME05A4	A303_400.8 S05 MX05A4	334	A303_400.8 P63 BE63A4	A303_400.8 P63 BX63A4	335
3.4	304	1.5	393.2	12000	A353_393.2 S05 ME05A4	A353_393.2 S05 MX05A4	338	A353_393.2 P63 BE63A4	A353_393.2 P63 BX63A4	339
3.6	291	2.9	376.8	15000	A413_376.8 S05 ME05A4	A413_376.8 S05 MX05A4	342	A413_376.8 P63 BE63A4	A413_376.8 P63 BX63A4	343
3.8	275	1.3	356.3	9600	A303_356.3 S05 ME05A4	A303_356.3 S05 MX05A4	334	A303_356.3 P63 BE63A4	A303_356.3 P63 BX63A4	335
4.0	262	2.0	339.3	12000	A353_339.3 S05 ME05A4	A353_339.3 S05 MX05A4	338	A353_339.3 P63 BE63A4	A353_339.3 P63 BX63A4	339
4.1	255	1.0	329.4	6200	A203_329.4 S05 ME05A4	A203_329.4 S05 MX05A4	330	A203_329.4 P63 BE63A4	A203_329.4 P63 BX63A4	331
4.2	251	3.4	324.2	15000	A413_324.2 S05 ME05A4	A413_324.2 S05 MX05A4	342	A413_324.2 P63 BE63A4	A413_324.2 P63 BX63A4	343
4.3	243	1.6	314.5	9600	A303_314.5 S05 ME05A4	A303_314.5 S05 MX05A4	334	A303_314.5 P63 BE63A4	A303_314.5 P63 BX63A4	335
4.4	236	2.5	305.4	12000	A353_305.4 S05 ME05A4	A353_305.4 S05 MX05A4	338	A353_305.4 P63 BE63A4	A353_305.4 P63 BX63A4	339
4.6	226	1.1	292.8	6200	A203_292.8 S05 ME05A4	A203_292.8 S05 MX05A4	330	A203_292.8 P63 BE63A4	A203_292.8 P63 BX63A4	331
5.0	210	1.8	271.5	9600	A303_271.5 S05 ME05A4	A303_271.5 S05 MX05A4	334	A303_271.5 P63 BE63A4	A303_271.5 P63 BX63A4	335
5.0	209	2.9	270.7	12000	A353_270.7 S05 ME05A4	A353_270.7 S05 MX05A4	338	A353_270.7 P63 BE63A4	A353_270.7 P63 BX63A4	339
5.2	201	1.2	260.5	6200	A203_260.5 S05 ME05A4	A203_260.5 S05 MX05A4	330	A203_260.5 P63 BE63A4	A203_260.5 P63 BX63A4	331
5.4	192	3.1	248.1	12000	A353_248.1 S05 ME05A4	A353_248.1 S05 MX05A4	338	A353_248.1 P63 BE63A4	A353_248.1 P63 BX63A4	339
5.5	189	2.0	244.3	9600	A303_244.3 S05 ME05A4	A303_244.3 S05 MX05A4	334	A303_244.3 P63 BE63A4	A303_244.3 P63 BX63A4	335
6.0	172	3.5	223.2	12000	A353_223.2 S05 ME05A4	A353_223.2 S05 MX05A4	338	A353_223.2 P63 BE63A4	A353_223.2 P63 BX63A4	339
6.1	171	1.5	221.3	6200	A203_221.3 S05 ME05A4	A203_221.3 S05 MX05A4	330	A203_221.3 P63 BE63A4	A203_221.3 P63 BX63A4	331
6.2	167	2.2	216.6	9600	A303_216.6 S05 ME05A4	A303_216.6 S05 MX05A4	334	A303_216.6 P63 BE63A4	A303_216.6 P63 BX63A4	335
6.8	154	1.6	199.2	6200	A203_199.2 S05 ME05A4	A203_199.2 S05 MX05A4	330	A203_199.2 P63 BE63A4	A203_199.2 P63 BX63A4	331
6.8	153	2.3	198.5	9600	A303_198.5 S05 ME05A4	A303_198.5 S05 MX05A4	334	A303_198.5 P63 BE63A4	A303_198.5 P63 BX63A4	335
7.6	138	2.5	178.5	9600	A303_178.5 S05 ME05A4	A303_178.5 S05 MX05A4	334	A303_178.5 P63 BE63A4	A303_178.5 P63 BX63A4	335
7.6	138	1.8	178.3	6200	A203_178.3 S05 ME05A4	A203_178.3 S05 MX05A4	330	A203_178.3 P63 BE63A4	A203_178.3 P63 BX63A4	331
8.3	126	1.9	163.4	6200	A203_163.4 S05 ME05A4	A203_163.4 S05 MX05A4	330	A203_163.4 P63 BE63A4	A203_163.4 P63 BX63A4	331
8.4	125	2.7	161.4	9600	A303_161.4 S05 ME05A4	A303_161.4 S05 MX05A4	334	A303_161.4 P63 BE63A4	A303_161.4 P63 BX63A4	335
9.0	116	2.8	150.7	9600	A303_150.7 S05 ME05A4	A303_150.7 S05 MX05A4	334	A303_150.7 P63 BE63A4	A303_150.7 P63 BX63A4	335
9.2	113	2.0	146.1	6200	A203_146.1 S05 ME05A4	A203_146.1 S05 MX05A4	330	A203_146.1 P63 BE63A4	A203_146.1 P63 BX63A4	331
9.8	106	3.0	137.4	9600	A303_137.4 S05 ME05A4	A303_137.4 S05 MX05A4	334	A303_137.4 P63 BE63A4	A303_137.4 P63 BX63A4	335
10.5	100	2.2	129.1	6200	A203_129.1 S05 ME05A4	A203_129.1 S05 MX05A4	330	A203_129.1 P63 BE63A4	A203_129.1 P63 BX63A4	331
11.2	93	2.3	120.5	6200	A203_120.5 S05 ME05A4	A203_120.5 S05 MX05A4	330	A203_120.5 P63 BE63A4	A203_120.5 P63 BX63A4	331
11.2	93	3.2	120.5	9600	A303_120.5 S05 ME05A4	A303_120.5 S05 MX05A4	334	A303_120.5 P63 BE63A4	A303_120.5 P63 BX63A4	335
12.4	84	2.4	109.2	6200	A203_109.2 S05 ME05A4	A203_109.2 S05 MX05A4	330	A203_109.2 P63 BE63A4	A203_109.2 P63 BX63A4	331
14.6	74	2.7	92.3	6200	A202_92.3 S05 ME05A4	A202_92.3 S05 MX05A4	330	A202_92.3 P63 BE63A4	A202_92.3 P63 BX63A4	331
14.7	73	1.4	91.6	4420	A052_91.6 S05 ME05A4	A052_91.6 S05 MX05A4	323	A052_91.6 P63 BE63A4	A052_91.6 P63 BX63A4	323
14.7	73	1.8	91.6	5500	A102_91.6 S05 ME05A4	A102_91.6 S05 MX05A4	326	A102_91.6 P63 BE63A4	A102_91.6 P63 BX63A4	327
16.9	64	3.3	79.9	6200	A202_79.9 S05 ME05A4	A202_79.9 S05 MX05A4	330	A202_79.9 P63 BE63A4	A202_79.9 P63 BX63A4	331
17.7	61	1.6	76.4	4230	A052_76.4 S05 ME05A4	A052_76.4 S05 MX05A4	323	A052_76.4 P63 BE63A4	A052_76.4 P63 BX63A4	323
17.7	61	2.5	76.4	5500	A102_76.4 S05 ME05A4	A102_76.4 S05 MX05A4	326	A102_76.4 P63 BE63A4	A102_76.4 P63 BX63A4	327
20.5	53	1.9	65.9	4070	A052_65.9 S05 ME05A4	A052_65.9 S05 MX05A4	323	A052_65.9 P63 BE63A4	A052_65.9 P63 BX63A4	323
20.5	53	2.8	65.9	5500	A102_65.9 S05 ME05A4	A102_65.9 S05 MX05A4	326	A102_65.9 P63 BE63A4	A102_65.9 P63 BX63A4	327
23.0	47	2.1	58.6	3950	A052_58.6 S05 ME05A4	A052_58.6 S05 MX05A4	323	A052_58.6 P63 BE63A4	A052_58.6 P63 BX63A4	323
23.0	47	3.2	58.6	5500	A102_58.6 S05 ME05A4	A102_58.6 S05 MX05A4	326	A102_58.6 P63 BE63A4	A102_58.6 P63 BX63A4	327
26.3	41	2.4	51.3	3810	A052_51.3 S05 ME05A4	A052_51.3 S05 MX05A4	323	A052_51.3 P63 BE63A4	A052_51.3 P63 BX63A4	323
29.7	36	2.8	45.4	3680	A052_45.4 S05 ME05A4	A052_45.4 S05 MX05A4	323	A052_45.4 P63 BE63A4	A052_45.4 P63 BX63A4	323
33.0	33	3.1	40.9	3570	A052_40.9 S05 ME05A4	A052_40.9 S05 MX05A4	323	A052_40.9 P63 BE63A4	A052_40.9 P63 BX63A4	323
38.0	28	3.6	35.1	3420	A052_35.1 S05 ME05A4	A052_35.1 S05 MX05A4	323	A052_35.1 P63 BE63A4	A052_35.1 P63 BX63A4	323
42.0	26	3.9	32.2	3340	A052_32.2 S05 ME05A4	A052_32.2 S05 MX05A4	323	A052_32.2 P63 BE63A4	A052_32.2 P63 BX63A4	323
47.0	23	4.4	28.6	3220	A052_28.6 S05 ME05A4	A052_28.6 S05 MX05A4	323	A052_28.6 P63 BE63A4	A052_28.6 P63 BX63A4	323
53.0	20	4.9	25.5	3110	A052_25.5 S05 ME05A4	A052_25.5 S05 MX05A4	323	A052_25.5 P63 BE63A4	A052_25.5 P63 BX63A4	323
57.0	19	5.3	23.8	3050	A052_23.8 S05 ME05A4	A052_23.8 S05 MX05A4	323	A052_23.8 P63 BE63A4	A052_23.8 P63 BX63A4	323
63.0	17	5.9	21.4	2950	A052_21.4 S05 ME05A4	A052_21.4 S05 MX05A4	323	A052_21.4 P63 BE63A4	A052_21.4 P63 BX63A4	323
73.0	15	6.7	18.6	2830	A052_18.6 S05 ME05A4	A052_18.6 S05 MX05A4	323	A052_18.6 P63 BE63A4	A052_18.6 P63 BX63A4	323
82.0	13	7.6	16.4	2730	A052_16.4 S05 ME05A4	A052_16.4 S05 MX05A4	323	A052_16.4 P63 BE63A4	A052_16.4 P63 BX63A4	323
97.0	11	9.0	13.9	2590	A052_13.9 S05 ME05A4	A052_13.9 S05 MX05A4	323	A052_13.9 P63 BE63A4	A052_13.9 P63 BX63A4	323

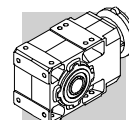


0.12 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				IEC		
					IE2	IE3		IE2	IE3	
110.0	10	10.2	12.3	2500	A052_12.3 S05 ME05A4	A052_12.3 S05 MX05A4	323	A052_12.3 P63 BE63A4	A052_12.3 P63 BX63A4	323
128.0	8	11.9	10.6	2380	A052_10.6 S05 ME05A4	A052_10.6 S05 MX05A4	323	A052_10.6 P63 BE63A4	A052_10.6 P63 BX63A4	323
140.0	8	13.0	9.6	2310	A052_9.6 S05 ME05A4	A052_9.6 S05 MX05A4	323	A052_9.6 P63 BE63A4	A052_9.6 P63 BX63A4	323
159.0	7	14.7	8.5	2220	A052_8.5 S05 ME05A4	A052_8.5 S05 MX05A4	323	A052_8.5 P63 BE63A4	A052_8.5 P63 BX63A4	323
187.0	6	17.4	7.2	2110	A052_7.2 S05 ME05A4	A052_7.2 S05 MX05A4	323	A052_7.2 P63 BE63A4	A052_7.2 P63 BX63A4	323
213	5.1	19.8	6.3	2020	A052_6.3 S05 ME05A4	A052_6.3 S05 MX05A4	323	A052_6.3 P63 BE63A4	A052_6.3 P63 BX63A4	323
247	4.4	21.8	5.5	1930	A052_5.5 S05 ME05A4	A052_5.5 S05 MX05A4	323	A052_5.5 P63 BE63A4	A052_5.5 P63 BX63A4	323

0.12 kW

n2 min-1	M2 Nm	S	i	Rn2 N	IE3	IEC IE3		
1.7	588.0	2.5	778.2	20000	A303_400.8 SX05 MXN05MA4	A504_778.2 P63 BXN63MA4	347	
1.9	535.0	2.8	707.9	20000		A504_707.9 P63 BXN63MA4	347	
2.1	477.0	3.1	631.2	20000		A504_631.2 P63 BXN63MA4	347	
2.4	434.0	3.5	574.2	20000		A504_574.2 P63 BXN63MA4	347	
3.4	310.0	1.2	400.8	9600		A303_400.8 P63 BXN63MA4	335	
3.4	304.0	1.5	393.2	12000	A353_393.2 SX05 MXN05MA4	338	A353_393.2 P63 BXN63MA4	339
3.6	291.0	2.9	376.8	15000	A413_376.8 SX05 MXN05MA4	342	A413_376.8 P63 BXN63MA4	343
3.8	275.0	1.3	356.3	9600	A303_356.3 SX05 MXN05MA4	334	A303_356.3 P63 BXN63MA4	335
4.0	262.0	2.0	339.3	12000	A353_339.3 SX05 MXN05MA4	338	A353_339.3 P63 BXN63MA4	339
4.1	255.0	1.0	329.4	6200	A203_329.4 SX05 MXN05MA4	330	A203_329.4 P63 BXN63MA4	331
4.2	251.0	3.4	324.2	15000	A413_324.2 SX05 MXN05MA4	342	A413_324.2 P63 BXN63MA4	343
4.3	243.0	1.6	314.5	9600	A303_314.5 SX05 MXN05MA4	334	A303_314.5 P63 BXN63MA4	335
4.4	236.0	2.5	305.4	12000	A353_305.4 SX05 MXN05MA4	338	A353_305.4 P63 BXN63MA4	339
4.6	226.0	1.1	292.8	6200	A203_292.8 SX05 MXN05MA4	330	A203_292.8 P63 BXN63MA4	331
5.0	210.0	1.8	271.5	9600	A303_271.5 SX05 MXN05MA4	334	A303_271.5 P63 BXN63MA4	335
5.0	209.0	2.9	270.7	12000	A353_270.7 SX05 MXN05MA4	338	A353_270.7 P63 BXN63MA4	339
5.2	201.0	1.2	260.5	6200	A203_260.5 SX05 MXN05MA4	330	A203_260.5 P63 BXN63MA4	331
5.4	192.0	3.1	248.1	12000	A353_248.1 SX05 MXN05MA4	338	A353_248.1 P63 BXN63MA4	339
5.5	189.0	2.0	244.3	9600	A303_244.3 SX05 MXN05MA4	334	A303_244.3 P63 BXN63MA4	335
6.0	172.0	3.5	223.2	12000	A353_223.2 SX05 MXN05MA4	338	A353_223.2 P63 BXN63MA4	339
6.1	171.0	1.5	221.3	6200	A203_221.3 SX05 MXN05MA4	330	A203_221.3 P63 BXN63MA4	331
6.2	167.0	2.2	216.6	9600	A303_216.6 SX05 MXN05MA4	334	A303_216.6 P63 BXN63MA4	335
6.8	154.0	1.6	199.2	6200	A203_199.2 SX05 MXN05MA4	330	A203_199.2 P63 BXN63MA4	331
6.8	153.0	2.3	198.5	9600	A303_198.5 SX05 MXN05MA4	334	A303_198.5 P63 BXN63MA4	335
7.6	138.0	2.5	178.5	9600	A303_178.5 SX05 MXN05MA4	334	A303_178.5 P63 BXN63MA4	335
7.6	138.0	1.8	178.3	6200	A203_178.3 SX05 MXN05MA4	330	A203_178.3 P63 BXN63MA4	331
8.3	126.0	1.9	163.4	6200	A203_163.4 SX05 MXN05MA4	330	A203_163.4 P63 BXN63MA4	331
8.4	125.0	2.7	161.4	9600	A303_161.4 SX05 MXN05MA4	334	A303_161.4 P63 BXN63MA4	335
9.0	116.0	2.8	150.7	9600	A303_150.7 SX05 MXN05MA4	334	A303_150.7 P63 BXN63MA4	335
9.2	113.0	2.0	146.1	6200	A203_146.1 SX05 MXN05MA4	330	A203_146.1 P63 BXN63MA4	331
9.8	106.0	3.0	137.4	9600	A303_137.4 SX05 MXN05MA4	334	A303_137.4 P63 BXN63MA4	335
10.5	100.0	2.2	129.1	6200	A203_129.1 SX05 MXN05MA4	330	A203_129.1 P63 BXN63MA4	331
11.2	93.0	2.3	120.5	6200	A203_120.5 SX05 MXN05MA4	330	A203_120.5 P63 BXN63MA4	331
11.2	93.0	3.2	120.5	9600	A303_120.5 SX05 MXN05MA4	334	A303_120.5 P63 BXN63MA4	335
12.4	84.0	2.4	109.2	6200	A203_109.2 SX05 MXN05MA4	330	A203_109.2 P63 BXN63MA4	331
14.6	74.0	2.7	92.3	6200	A202_92.3 SX05 MXN05MA4	330	A202_92.3 P63 BXN63MA4	331
14.7	73.0	1.4	91.6	4420	A052_91.6 SX05 MXN05MA4	323	A052_91.6 P63 BXN63MA4	323
14.7	73.0	1.8	91.6	5500	A102_91.6 SX05 MXN05MA4	326	A102_91.6 P63 BXN63MA4	327
16.9	64.0	3.3	79.9	6200	A202_79.9 SX05 MXN05MA4	330	A202_79.9 P63 BXN63MA4	331
17.7	61.0	1.6	76.4	4230	A052_76.4 SX05 MXN05MA4	323	A052_76.4 P63 BXN63MA4	323
17.7	61.0	2.5	76.4	5500	A102_76.4 SX05 MXN05MA4	326	A102_76.4 P63 BXN63MA4	327
20.5	53.0	1.9	65.9	4070	A052_65.9 SX05 MXN05MA4	323	A052_65.9 P63 BXN63MA4	323

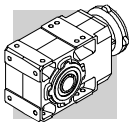


0.12 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
20.5	53.0	2.8	65.9	5500	A102_65.9 SX05 MXN05MA4	326 A102_65.9 P63 BXN63MA4
23.0	47.0	2.1	58.6	3950	A052_58.6 SX05 MXN05MA4	323 A052_58.6 P63 BXN63MA4
23.0	47.0	3.2	58.6	5500	A102_58.6 SX05 MXN05MA4	326 A102_58.6 P63 BXN63MA4
26.3	41.0	2.4	51.3	3810	A052_51.3 SX05 MXN05MA4	323 A052_51.3 P63 BXN63MA4
29.7	36.0	2.8	45.4	3680	A052_45.4 SX05 MXN05MA4	323 A052_45.4 P63 BXN63MA4
33.0	33.0	3.1	40.9	3570	A052_40.9 SX05 MXN05MA4	323 A052_40.9 P63 BXN63MA4
38.0	28.0	3.6	35.1	3420	A052_35.1 SX05 MXN05MA4	323 A052_35.1 P63 BXN63MA4
42.0	26.0	3.9	32.2	3340	A052_32.2 SX05 MXN05MA4	323 A052_32.2 P63 BXN63MA4
47.0	23.0	4.4	28.6	3220	A052_28.6 SX05 MXN05MA4	323 A052_28.6 P63 BXN63MA4
53.0	20.0	4.9	25.5	3110	A052_25.5 SX05 MXN05MA4	323 A052_25.5 P63 BXN63MA4
57.0	19.0	5.3	23.8	3050	A052_23.8 SX05 MXN05MA4	323 A052_23.8 P63 BXN63MA4
63.0	17.1	5.9	21.4	2950	A052_21.4 SX05 MXN05MA4	323 A052_21.4 P63 BXN63MA4
73.0	14.8	6.7	18.6	2830	A052_18.6 SX05 MXN05MA4	323 A052_18.6 P63 BXN63MA4
82.0	13.1	7.6	16.4	2730	A052_16.4 SX05 MXN05MA4	323 A052_16.4 P63 BXN63MA4
97.0	11.1	9.0	13.9	2590	A052_13.9 SX05 MXN05MA4	323 A052_13.9 P63 BXN63MA4
110.0	9.8	10.2	12.3	2500	A052_12.3 SX05 MXN05MA4	323 A052_12.3 P63 BXN63MA4
128.0	8.4	11.9	10.6	2380	A052_10.6 SX05 MXN05MA4	323 A052_10.6 P63 BXN63MA4
140.0	7.7	13.0	9.6	2310	A052_9.6 SX05 MXN05MA4	323 A052_9.6 P63 BXN63MA4
159.0	6.8	14.7	8.5	2220	A052_8.5 SX05 MXN05MA4	323 A052_8.5 P63 BXN63MA4
187.0	5.8	17.4	7.2	2110	A052_7.2 SX05 MXN05MA4	323 A052_7.2 P63 BXN63MA4
213.0	5.1	19.8	6.3	2020	A052_6.3 SX05 MXN05MA4	323 A052_6.3 P63 BXN63MA4
247.0	4.4	21.8	5.5	1930	A052_5.5 SX05 MXN05MA4	323 A052_5.5 P63 BXN63MA4

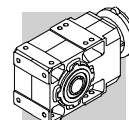
0.18 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC IE2	IE3
0.8	1989.0	2.5	1715.0	50000			A704_1715 P63 BE63B4	A704_1715 P63 BX63B4
0.8	1836.0	2.7	1583.0	50000			A704_1583 P63 BE63B4	A704_1583 P63 BX63B4
1.0	1561.0	3.2	1346.0	50000			A704_1346 P63 BE63B4	A704_1346 P63 BX63B4
1.1	1441.0	3.5	1242.0	50000			A704_1242 P63 BE63B4	A704_1242 P63 BX63B4
1.7	902.0	1.7	778.2	20000			A504_778.2 P63 BE63B4	A504_778.2 P63 BX63B4
1.7	876.0	3.2	755.4	30000			A604_755.4 P63 BE63B4	A604_755.4 P63 BX63B4
1.9	821.0	1.8	707.9	20000			A504_707.9 P63 BE63B4	A504_707.9 P63 BX63B4
1.9	809.0	3.5	697.3	30000			A604_697.3 P63 BE63B4	A604_697.3 P63 BX63B4
2.1	732.0	2.0	631.2	20000			A504_631.2 P63 BE63B4	A504_631.2 P63 BX63B4
2.3	666.0	2.3	574.2	20000			A504_574.2 P63 BE63B4	A504_574.2 P63 BX63B4
2.5	614.0	2.4	529.5	20000			A504_529.5 P63 BE63B4	A504_529.5 P63 BX63B4
2.7	559.0	2.7	481.6	20000			A504_481.6 P63 BE63B4	A504_481.6 P63 BX63B4
3.0	518.0	2.9	446.8	20000			A504_446.8 P63 BE63B4	A504_446.8 P63 BX63B4
3.2	471.0	3.2	406.4	20000			A504_406.4 P63 BE63B4	A504_406.4 P63 BX63B4
3.4	466.0	1.0	393.2	12000	A353_393.2 S05 ME05B4	A353_393.2 S05 MX05B4	338 A353_393.2 P63 BE63B4	A353_393.2 P63 BX63B4
3.5	447.0	1.9	376.8	15000	A413_376.8 S05 ME05B4	A413_376.8 S05 MX05B4	342 A413_376.8 P63 BE63B4	A413_376.8 P63 BX63B4
3.6	424.0	3.5	365.6	20000			A504_365.6 P63 BE63B4	A504_365.6 P63 BX63B4
3.7	422.0	0.9	356.3	9600	A303_356.3 S05 ME05B4	A303_356.3 S05 MX05B4	334 A303_356.3 P63 BE63B4	A303_356.3 P63 BX63B4
3.9	402.0	1.3	339.3	12000	A353_339.3 S05 ME05B4	A353_339.3 S05 MX05B4	338 A353_339.3 P63 BE63B4	A353_339.3 P63 BX63B4
4.1	384.0	2.2	324.2	15000	A413_324.2 S05 ME05B4	A413_324.2 S05 MX05B4	342 A413_324.2 P63 BE63B4	A413_324.2 P63 BX63B4
4.2	373.0	1.0	314.5	9600	A303_314.5 S05 ME05B4	A303_314.5 S05 MX05B4	334 A303_314.5 P63 BE63B4	A303_314.5 P63 BX63B4
4.3	362.0	1.7	305.4	12000	A353_305.4 S05 ME05B4	A353_305.4 S05 MX05B4	338 A353_305.4 P63 BE63B4	A353_305.4 P63 BX63B4
4.5	346.0	2.5	291.7	15000	A413_291.7 S05 ME05B4	A413_291.7 S05 MX05B4	342 A413_291.7 P63 BE63B4	A413_291.7 P63 BX63B4
4.9	322.0	1.2	271.5	9600	A303_271.5 S05 ME05B4	A303_271.5 S05 MX05B4	334 A303_271.5 P63 BE63B4	A303_271.5 P63 BX63B4
4.9	321	1.9	270.7	12000	A353_270.7 S05 ME05B4	A353_270.7 S05 MX05B4	338 A353_270.7 P63 BE63B4	A353_270.7 P63 BX63B4
5.0	311	2.7	262.5	15000	A413_262.5 S05 ME05B4	A413_262.5 S05 MX05B4	342 A413_262.5 P63 BE63B4	A413_262.5 P63 BX63B4
5.3	294	2.0	248.1	12000	A353_248.1 S05 ME05B4	A353_248.1 S05 MX05B4	338 A353_248.1 P63 BE63B4	A353_248.1 P63 BX63B4
5.4	290	1.3	244.3	9600	A303_244.3 S05 ME05B4	A303_244.3 S05 MX05B4	334 A303_244.3 P63 BE63B4	A303_244.3 P63 BX63B4



0.18 kW

n ₂	M ₂	S	i	R _{n2}				IEC			
min ⁻¹	Nm			N	IE2	IE3		IE2	IE3		
5.5	285	3.0	240.6	15000	A413_240.6 S05 ME05B4	A413_240.6 S05 MX05B4	342	A413_240.6 P63 BE63B4	A413_240.6 P63 BX63B4	343	
5.9	265	2.3	223.2	12000	A353_223.2 S05 ME05B4	A353_223.2 S05 MX05B4	338	A353_223.2 P63 BE63B4	A353_223.2 P63 BX63B4	339	
6.0	262	1.0	221.3	6200	A203_221.3 S05 ME05B4	A203_221.3 S05 MX05B4	330	A203_221.3 P63 BE63B4	A203_221.3 P63 BX63B4	331	
6.1	258	3.3	217.4	15000	A413_217.4 S05 ME05B4	A413_217.4 S05 MX05B4	342	A413_217.4 P63 BE63B4	A413_217.4 P63 BX63B4	343	
6.1	257	1.4	216.6	9600	A303_216.6 S05 ME05B4	A303_216.6 S05 MX05B4	334	A303_216.6 P63 BE63B4	A303_216.6 P63 BX63B4	335	
6.5	239	2.5	201.8	12000	A353_201.8 S05 ME05B4	A353_201.8 S05 MX05B4	338	A353_201.8 P63 BE63B4	A353_201.8 P63 BX63B4	339	
6.6	236	1.1	199.2	6200	A203_199.2 S05 ME05B4	A203_199.2 S05 MX05B4	330	A203_199.2 P63 BE63B4	A203_199.2 P63 BX63B4	331	
6.6	235	1.5	198.5	9600	A303_198.5 S05 ME05B4	A303_198.5 S05 MX05B4	334	A303_198.5 P63 BE63B4	A303_198.5 P63 BX63B4	335	
7.0	223	2.7	188.3	12000	A353_188.3 S05 ME05B4	A353_188.3 S05 MX05B4	338	A353_188.3 P63 BE63B4	A353_188.3 P63 BX63B4	339	
7.4	212	1.6	178.5	9600	A303_178.5 S05 ME05B4	A303_178.5 S05 MX05B4	334	A303_178.5 P63 BE63B4	A303_178.5 P63 BX63B4	335	
7.4	211	1.2	178.3	6200	A203_178.3 S05 ME05B4	A203_178.3 S05 MX05B4	330	A203_178.3 P63 BE63B4	A203_178.3 P63 BX63B4	331	
7.7	204	2.9	171.8	12000	A353_171.8 S05 ME05B4	A353_171.8 S05 MX05B4	338	A353_171.8 P63 BE63B4	A353_171.8 P63 BX63B4	339	
8.1	194	1.2	163.4	6200	A203_163.4 S05 ME05B4	A203_163.4 S05 MX05B4	330	A203_163.4 P63 BE63B4	A203_163.4 P63 BX63B4	331	
8.2	191	1.8	161.4	9600	A303_161.4 S05 ME05B4	A303_161.4 S05 MX05B4	334	A303_161.4 P63 BE63B4	A303_161.4 P63 BX63B4	335	
8.8	179	1.8	150.7	9600	A303_150.7 S05 ME05B4	A303_150.7 S05 MX05B4	334	A303_150.7 P63 BE63B4	A303_150.7 P63 BX63B4	335	
8.8	179	3.4	150.6	12000	A353_150.6 S05 ME05B4	A353_150.6 S05 MX05B4	338	A353_150.6 P63 BE63B4	A353_150.6 P63 BX63B4	339	
9.0	173	1.3	146.1	6200	A203_146.1 S05 ME05B4	A203_146.1 S05 MX05B4	330	A203_146.1 P63 BE63B4	A203_146.1 P63 BX63B4	331	
9.6	163	1.9	137.4	9600	A303_137.4 S05 ME05B4	A303_137.4 S05 MX05B4	334	A303_137.4 P63 BE63B4	A303_137.4 P63 BX63B4	335	
10.2	153	1.4	129.1	6200	A203_129.1 S05 ME05B4	A203_129.1 S05 MX05B4	330	A203_129.1 P63 BE63B4	A203_129.1 P63 BX63B4	331	
11.0	143	1.5	120.5	6200	A203_120.5 S05 ME05B4	A203_120.5 S05 MX05B4	330	A203_120.5 P63 BE63B4	A203_120.5 P63 BX63B4	331	
11.0	143	2.1	120.5	9600	A303_120.5 S05 M05B4	A303_120.5 S05 MX05B4	334	A303_120.5 P63 BN63B4	A303_120.5 P63 BX63B4	335	
12.1	129	1.6	109.2	6200	A203_109.2 S05 M05B4	A203_109.2 S05 MX05B4	330	A203_109.2 P63 BN63B4	A203_109.2 P63 BX63B4	331	
12.1	129	2.3	109.1	9600	A303_109.1 S05 M05B4	A303_109.1 S05 MX05B4	334	A303_109.1 P63 BN63B4	A303_109.1 P63 BX63B4	335	
13.5	119	2.5	97.5	9600				A302_97.5 P63 BN63B4	A302_97.5 P63 BX63B4	335	
14.3	113	1.8	92.3	6200	A202_92.3 S05 M05B4	A202_92.3 S05 MX05B4	330	A202_92.3 P63 BN63B4	A202_92.3 P63 BX63B4	331	
14.4	112	0.9	91.6	4120	A052_91.6 S05 ME05B4	A052_91.6 S05 MX05B4	323	A052_91.6 P63 BE63B4	A052_91.6 P63 BX63B4	323	
14.4	112	1.2	91.6	5500	A102_91.6 S05 ME05B4	A102_91.6 S05 MX05B4	326	A102_91.6 P63 BE63B4	A102_91.6 P63 BX63B4	327	
15.2	106	3.0	86.7	9600				A302_86.7 P63 BE63B4	A302_86.7 P63 BX63B4	335	
16.5	98	2.1	79.9	6200	A202_79.9 S05 ME05B4	A202_79.9 S05 MX05B4	330	A202_79.9 P63 BE63B4	A202_79.9 P63 BX63B4	331	
17.3	94	1.1	76.4	3980	A052_76.4 S05 ME05B4	A052_76.4 S05 MX05B4	323	A052_76.4 P63 BE63B4	A052_76.4 P63 BX63B4	323	
17.3	94	1.6	76.4	5500	A102_76.4 S05 ME05B4	A102_76.4 S05 MX05B4	326	A102_76.4 P63 BE63B4	A102_76.4 P63 BX63B4	327	
18.6	87	2.4	71.0	6200	A202_71.0 S05 ME05B4	A202_71.0 S05 MX05B4	330	A202_71.0 P63 BE63B4	A202_71.0 P63 BX63B4	331	
20.0	81	1.2	65.9	3860	A052_65.9 S05 ME05B4	A052_65.9 S05 MX05B4	323	A052_65.9 P63 BE63B4	A052_65.9 P63 BX63B4	323	
20.0	81	1.9	65.9	5500	A102_65.9 S05 ME05B4	A102_65.9 S05 MX05B4	326	A102_65.9 P63 BE63B4	A102_65.9 P63 BX63B4	327	
20.9	77	3.2	63.1	6200	A202_63.1 S05 ME05B4	A202_63.1 S05 MX05B4	330	A202_63.1 P63 BE63B4	A202_63.1 P63 BX63B4	331	
22.5	72	1.4	58.6	3760	A052_58.6 S05 ME05B4	A052_58.6 S05 MX05B4	323	A052_58.6 P63 BE63B4	A052_58.6 P63 BX63B4	323	
22.5	72	2.1	58.6	5500	A102_58.6 S05 ME05B4	A102_58.6 S05 MX05B4	326	A102_58.6 P63 BE63B4	A102_58.6 P63 BX63B4	327	
25.8	63	1.6	51.3	3640	A052_51.3 S05 ME05B4	A052_51.3 S05 MX05B4	323	A052_51.3 P63 BE63B4	A052_51.3 P63 BX63B4	323	
25.8	63	2.4	51.3	5500	A102_51.3 S05 ME05B4	A102_51.3 S05 MX05B4	326	A102_51.3 P63 BE63B4	A102_51.3 P63 BX63B4	327	
29.1	56	1.8	45.4	3540	A052_45.4 S05 ME05B4	A052_45.4 S05 MX05B4	323	A052_45.4 P63 BE63B4	A052_45.4 P63 BX63B4	323	
29.1	56	2.7	45.4	5500	A102_45.4 S05 ME05B4	A102_45.4 S05 MX05B4	326	A102_45.4 P63 BE63B4	A102_45.4 P63 BX63B4	327	
32.0	50	2.0	40.9	3440	A052_40.9 S05 ME05B4	A052_40.9 S05 MX05B4	323	A052_40.9 P63 BE63B4	A052_40.9 P63 BX63B4	323	
32.0	50	3.0	40.9	5500	A102_40.9 S05 ME05B4	A102_40.9 S05 MX05B4	326	A102_40.9 P63 BE63B4	A102_40.9 P63 BX63B4	327	
38.0	43	2.3	35.1	3310	A052_35.1 S05 ME05B4	A052_35.1 S05 MX05B4	323	A052_35.1 P63 BE63B4	A052_35.1 P63 BX63B4	323	
38.0	43	3.5	35.1	5380	A102_35.1 S05 ME05B4	A102_35.1 S05 MX05B4	326	A102_35.1 P63 BE63B4	A102_35.1 P63 BX63B4	327	
41.0	39	2.5	32.2	3240	A052_32.2 S05 ME05B4	A052_32.2 S05 MX05B4	323	A052_32.2 P63 BE63B4	A052_32.2 P63 BX63B4	323	
46.0	35	2.9	28.6	3130	A052_28.6 S05 ME05B4	A052_28.6 S05 MX05B4	323	A052_28.6 P63 BE63B4	A052_28.6 P63 BX63B4	323	
52.0	31	3.2	25.5	3040	A052_25.5 S05 ME05B4	A052_25.5 S05 MX05B4	323	A052_25.5 P63 BE63B4	A052_25.5 P63 BX63B4	323	
56.0	29	3.4	23.8	2980	A052_23.8 S05 ME05B4	A052_23.8 S05 MX05B4	323	A052_23.8 P63 BE63B4	A052_23.8 P63 BX63B4	323	
62.0	26	3.8	21.4	2890	A052_21.4 S05 ME05B4	A052_21.4 S05 MX05B4	323	A052_21.4 P63 BE63B4	A052_21.4 P63 BX63B4	323	
71.0	23	4.4	18.6	2780	A052_18.6 S05 ME05B4	A052_18.6 S05 MX05B4	323	A052_18.6 P63 BE63B4	A052_18.6 P63 BX63B4	323	
80.0	20	5.0	16.4	2680	A052_16.4 S05 ME05B4	A052_16.4 S05 MX05B4	323	A052_16.4 P63 BE63B4	A052_16.4 P63 BX63B4	323	
95.0	17.1	5.9	13.9	2550	A052_13.9 S05 ME05B4	A052_13.9 S05 MX05B4	323	A052_13.9 P63 BE63B4	A052_13.9 P63 BX63B4	323	
107.0	15.1	6.6	12.3	2460	A052_12.3 S05 ME05B4	A052_12.3 S05 MX05B4	323	A052_12.3 P63 BE63B4	A052_12.3 P63 BX63B4	323	
125.0	12.9	7.7	10.6	2350	A052_10.6 S05 ME05B4	A052_10.6 S05 MX05B4	323	A052_10.6 P63 BE63B4	A052_10.6 P63 BX63B4	323	
137.0	11.8	8.5	9.6	2280	A052_9.6 S05 ME05B4	A052_9.6 S05 MX05B4	323	A052_9.6 P63 BE63B4	A052_9.6 P63 BX63B4	323	
155.0	10.4	9.6	8.5	2200	A052_8.5 S05 ME05B4	A052_8.5 S05 MX05B4	323	A052_8.5 P63 BE63B4	A052_8.5 P63 BX63B4	323	

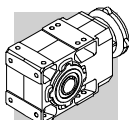


0.18 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N						
					IE2	IE3		IE2	IE3	
183.0	8.8	11.3	7.2	2090	A052_7.2 S05 ME05B4	A052_7.2 S05 MX05B4	323	A052_7.2 P63 BE63B4	A052_7.2 P63 BX63B4	323
208.0	7.8	12.9	6.3	2010	A052_6.3 S05 ME05B4	A052_6.3 S05 MX05B4	323	A052_6.3 P63 BE63B4	A052_6.3 P63 BX63B4	323
242.0	6.7	14.2	5.5	1920	A052_5.5 S05 ME05B4	A052_5.5 S05 MX05B4	323	A052_5.5 P63 BE63B4	A052_5.5 P63 BX63B4	323

0.18 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3		IEC IE3	
0.8	1989	2.5	1715	50000			A704_1715 P63 BXN63MB4	359
0.8	1836	2.7	1583	50000			A704_1583 P63 BXN63MB4	359
1.0	1561	3.2	1346	50000			A704_1346 P63 BXN63MB4	359
1.1	1441	3.5	1242	50000			A704_1242 P63 BXN63MB4	359
1.7	902	1.7	778.2	20000			A504_778.2 P63 BXN63MB4	347
1.7	876	3.2	755.4	30000			A604_755.4 P63 BXN63MB4	355
1.9	821	1.8	707.9	20000			A504_707.9 P63 BXN63MB4	347
1.9	809	3.5	697.3	30000			A604_697.3 P63 BXN63MB4	355
2.1	732	2.0	631.2	20000			A504_631.2 P63 BXN63MB4	347
2.3	666	2.3	574.2	20000			A504_574.2 P63 BXN63MB4	347
2.5	614	2.4	529.5	20000			A504_529.5 P63 BXN63MB4	347
2.7	559	2.7	481.6	20000			A504_481.6 P63 BXN63MB4	347
3.0	518	2.9	446.8	20000			A504_446.8 P63 BXN63MB4	347
3.2	471	3.2	406.4	20000			A504_406.4 P63 BXN63MB4	347
3.4	466	1.0	393.2	12000	A353_393.2 SX05 MXN05MB4	338	A353_393.2 P63 BXN63MB4	339
3.5	447	1.9	376.8	15000	A413_376.8 SX05 MXN05MB4	342	A413_376.8 P63 BXN63MB4	343
3.6	424	3.5	365.6	20000			A504_365.6 P63 BXN63MB4	347
3.7	422	0.9	356.3	9600	A303_356.3 SX05 MXN05MB4	334	A303_356.3 P63 BXN63MB4	335
3.9	402	1.3	339.3	12000	A353_339.3 SX05 MXN05MB4	338	A353_339.3 P63 BXN63MB4	339
4.1	384	2.2	324.2	15000	A413_324.2 SX05 MXN05MB4	342	A413_324.2 P63 BXN63MB4	343
4.2	373	1.0	314.5	9600	A303_314.5 SX05 MXN05MB4	334	A303_314.5 P63 BXN63MB4	335
4.3	362	1.7	305.4	12000	A353_305.4 SX05 MXN05MB4	338	A353_305.4 P63 BXN63MB4	339
4.5	346	2.5	291.7	15000	A413_291.7 SX05 MXN05MB4	342	A413_291.7 P63 BXN63MB4	343
4.9	322	1.2	271.5	9600	A303_271.5 SX05 MXN05MB4	334	A303_271.5 P63 BXN63MB4	335
4.9	321	1.9	270.7	12000	A353_270.7 SX05 MXN05MB4	338	A353_270.7 P63 BXN63MB4	339
5.0	311	2.7	262.5	15000	A413_262.5 SX05 MXN05MB4	342	A413_262.5 P63 BXN63MB4	343
5.3	294	2.0	248.1	12000	A353_248.1 SX05 MXN05MB4	338	A353_248.1 P63 BXN63MB4	339
5.4	290	1.3	244.3	9600	A303_244.3 SX05 MXN05MB4	334	A303_244.3 P63 BXN63MB4	335
5.5	285	3.0	240.6	15000	A413_240.6 SX05 MXN05MB4	342	A413_240.6 P63 BXN63MB4	343
5.9	265	2.3	223.2	12000	A353_223.2 SX05 MXN05MB4	338	A353_223.2 P63 BXN63MB4	339
6.0	262	1.0	221.3	6200	A203_221.3 SX05 MXN05MB4	330	A203_221.3 P63 BXN63MB4	331
6.1	258	3.3	217.4	15000	A413_217.4 SX05 MXN05MB4	342	A413_217.4 P63 BXN63MB4	343
6.1	257	1.4	216.6	9600	A303_216.6 SX05 MXN05MB4	334	A303_216.6 P63 BXN63MB4	335
6.5	239	2.5	201.8	12000	A353_201.8 SX05 MXN05MB4	338	A353_201.8 P63 BXN63MB4	339
6.6	236	1.1	199.2	6200	A203_199.2 SX05 MXN05MB4	330	A203_199.2 P63 BXN63MB4	331
6.6	235	1.5	198.5	9600	A303_198.5 SX05 MXN05MB4	334	A303_198.5 P63 BXN63MB4	335
7.0	223	2.7	188.3	12000	A353_188.3 SX05 MXN05MB4	338	A353_188.3 P63 BXN63MB4	339
7.4	212	1.6	178.5	9600	A303_178.5 SX05 MXN05MB4	334	A303_178.5 P63 BXN63MB4	335
7.4	211	1.2	178.3	6200	A203_178.3 SX05 MXN05MB4	330	A203_178.3 P63 BXN63MB4	331
7.7	204	2.9	171.8	12000	A353_171.8 SX05 MXN05MB4	338	A353_171.8 P63 BXN63MB4	339
8.1	194	1.2	163.4	6200	A203_163.4 SX05 MXN05MB4	330	A203_163.4 P63 BXN63MB4	331
8.2	191	1.8	161.4	9600	A303_161.4 SX05 MXN05MB4	334	A303_161.4 P63 BXN63MB4	335
8.8	179	1.8	150.7	9600	A303_150.7 SX05 MXN05MB4	334	A303_150.7 P63 BXN63MB4	335
8.8	179	3.4	150.6	12000	A353_150.6 SX05 MXN05MB4	338	A353_150.6 P63 BXN63MB4	339
9.0	173	1.3	146.1	6200	A203_146.1 SX05 MXN05MB4	330	A203_146.1 P63 BXN63MB4	331
9.6	163	1.9	137.4	9600	A303_137.4 SX05 MXN05MB4	334	A303_137.4 P63 BXN63MB4	335

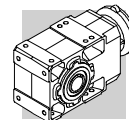


0.18 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
10.2	153	1.4	129.1	6200	A203_129.1 SX05 MXN05MB4	330 A203_129.1 P63 BXN63MB4
11.0	143	1.5	120.5	6200	A203_120.5 SX05 MXN05MB4	330 A203_120.5 P63 BXN63MB4
11.0	143	2.1	120.5	9600	A303_120.5 SX05 MXN05MB4	334 A303_120.5 P63 BXN63MB4
12.1	129	1.6	109.2	6200	A203_109.2 SX05 MXN05MB4	330 A203_109.2 P63 BXN63MB4
12.1	129	2.3	109.1	9600	A303_109.1 SX05 MXN05MB4	334 A303_109.1 P63 BXN63MB4
13.5	119	2.5	97.5	9600		A302_97.5 P63 BXN63MB4
14.3	113	1.8	92.3	6200	A202_92.3 SX05 MXN05MB4	330 A202_92.3 P63 BXN63MB4
14.4	112	0.9	91.6	4120	A052_91.6 SX05 MXN05MB4	323 A052_91.6 P63 BXN63MB4
14.4	112	1.2	91.6	5500	A102_91.6 SX05 MXN05MB4	326 A102_91.6 P63 BXN63MB4
15.2	106	3.0	86.7	9600		A302_86.7 P63 BXN63MB4
16.5	98	2.1	79.9	6200	A202_79.9 SX05 MXN05MB4	330 A202_79.9 P63 BXN63MB4
17.3	94	1.1	76.4	3980	A052_76.4 SX05 MXN05MB4	323 A052_76.4 P63 BXN63MB4
17.3	94	1.6	76.4	5500	A102_76.4 SX05 MXN05MB4	326 A102_76.4 P63 BXN63MB4
18.6	87	2.4	71.0	6200	A202_71.0 SX05 MXN05MB4	330 A202_71.0 P63 BXN63MB4
20.0	81	1.2	65.9	3860	A052_65.9 SX05 MXN05MB4	323 A052_65.9 P63 BXN63MB4
20.0	81	1.9	65.9	5500	A102_65.9 SX05 MXN05MB4	326 A102_65.9 P63 BXN63MB4
20.9	77	3.2	63.1	6200	A202_63.1 SX05 MXN05MB4	330 A202_63.1 P63 BXN63MB4
22.5	72	1.4	58.6	3760	A052_58.6 SX05 MXN05MB4	323 A052_58.6 P63 BXN63MB4
22.5	72	2.1	58.6	5500	A102_58.6 SX05 MXN05MB4	326 A102_58.6 P63 BXN63MB4
25.8	63	1.6	51.3	3640	A052_51.3 SX05 MXN05MB4	323 A052_51.3 P63 BXN63MB4
25.8	63	2.4	51.3	5500	A102_51.3 SX05 MXN05MB4	326 A102_51.3 P63 BXN63MB4
29.1	56	1.8	45.4	3540	A052_45.4 SX05 MXN05MB4	323 A052_45.4 P63 BXN63MB4
29.1	56	2.7	45.4	5500	A102_45.4 SX05 MXN05MB4	326 A102_45.4 P63 BXN63MB4
32.0	50	2.0	40.9	3440	A052_40.9 SX05 MXN05MB4	323 A052_40.9 P63 BXN63MB4
32.0	50	3.0	40.9	5500	A102_40.9 SX05 MXN05MB4	326 A102_40.9 P63 BXN63MB4
38.0	43	2.3	35.1	3310	A052_35.1 SX05 MXN05MB4	323 A052_35.1 P63 BXN63MB4
38.0	43	3.5	35.1	5380	A102_35.1 SX05 MXN05MB4	326 A102_35.1 P63 BXN63MB4
41.0	39	2.5	32.2	3240	A052_32.2 SX05 MXN05MB4	323 A052_32.2 P63 BXN63MB4
46.0	35	2.9	28.6	3130	A052_28.6 SX05 MXN05MB4	323 A052_28.6 P63 BXN63MB4
52.0	31	3.2	25.5	3040	A052_25.5 SX05 MXN05MB4	323 A052_25.5 P63 BXN63MB4
56.0	29	3.4	23.8	2980	A052_23.8 SX05 MXN05MB4	323 A052_23.8 P63 BXN63MB4
62.0	26	3.8	21.4	2890	A052_21.4 SX05 MXN05MB4	323 A052_21.4 P63 BXN63MB4
71.0	23	4.4	18.6	2780	A052_18.6 SX05 MXN05MB4	323 A052_18.6 P63 BXN63MB4
80.0	20	5.0	16.4	2680	A052_16.4 SX05 MXN05MB4	323 A052_16.4 P63 BXN63MB4
95.0	17.1	5.9	13.9	2550	A052_13.9 SX05 MXN05MB4	323 A052_13.9 P63 BXN63MB4
107.0	15.1	6.6	12.3	2460	A052_12.3 SX05 MXN05MB4	323 A052_12.3 P63 BXN63MB4
125.0	12.9	7.7	10.6	2350	A052_10.6 SX05 MXN05MB4	323 A052_10.6 P63 BXN63MB4
137.0	11.8	8.5	9.6	2280	A052_9.6 SX05 MXN05MB4	323 A052_9.6 P63 BXN63MB4
155.0	10.4	9.6	8.5	2200	A052_8.5 SX05 MXN05MB4	323 A052_8.5 P63 BXN63MB4
183.0	8.8	11.3	7.2	2090	A052_7.2 SX05 MXN05MB4	323 A052_7.2 P63 BXN63MB4
208.0	7.8	12.9	6.3	2010	A052_6.3 SX05 MXN05MB4	323 A052_6.3 P63 BXN63MB4
242.0	6.7	14.2	5.5	1920	A052_5.5 SX05 MXN05MB4	323 A052_5.5 P63 BXN63MB4

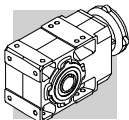
0.25 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC IE2	IEC IE3
0.8	2642	1.9	1715.0	50000			A704_1715 P71 BE71A4	A704_1715 P71 BX71A4
0.9	2439	2.1	1583.0	50000			A704_1583 P71 BE71A4	A704_1583 P71 BX71A4
0.9	2400	3.3	1558.0	65000			A804_1558 P71 BE71A4	A804_1558 P71 BX71A4
1.0	2073	2.4	1346.0	50000			A704_1346 P71 BE71A4	A704_1346 P71 BX71A4
1.1	1914	2.6	1242.0	50000			A704_1242 P71 BE71A4	A704_1242 P71 BX71A4
1.2	1789	2.8	1161.0	50000			A704_1161 P71 BE71A4	A704_1161 P71 BX71A4
1.3	1652	3.0	1072.0	50000			A704_1072 P71 BE71A4	A704_1072 P71 BX71A4



0.25 kW

n ₂	M ₂	S	i	R _{n2}				IEC	
min-1	Nm			N	IE2	IE3		IE2	IE3
1.5	1427	3.5	926.5	50000				A704_926.5 P71 BE71A4	A704_926.5 P71 BX71A4
1.8	1199	1.3	778.2	20000				A504_778.2 P71 BE71A4	A504_778.2 P71 BX71A4
1.8	1164	2.4	755.4	30000				A604_755.4 P71 BE71A4	A604_755.4 P71 BX71A4
1.9	1091	1.4	707.9	20000				A504_707.9 P71 BE71A4	A504_707.9 P71 BX71A4
2.0	1074	2.6	697.3	30000				A604_697.3 P71 BE71A4	A604_697.3 P71 BX71A4
2.2	978	2.9	634.6	30000				A604_634.6 P71 BE71A4	A604_634.6 P71 BX71A4
2.2	972	1.5	631.2	20000				A504_631.2 P71 BE71A4	A504_631.2 P71 BX71A4
2.4	902	3.1	585.8	30000				A604_585.8 P71 BE71A4	A604_585.8 P71 BX71A4
2.4	885	1.7	574.2	20000				A504_574.2 P71 BE71A4	A504_574.2 P71 BX71A4
2.5	835	3.4	542.0	30000				A604_542.0 P71 BE71A4	A604_542.0 P71 BX71A4
2.6	816	1.8	529.5	20000				A504_529.5 P71 BE71A4	A504_529.5 P71 BX71A4
2.9	742	2.0	481.6	20000				A504_481.6 P71 BE71A4	A504_481.6 P71 BX71A4
3.1	688	2.2	446.8	20000				A504_446.8 P71 BE71A4	A504_446.8 P71 BX71A4
3.4	626	2.4	406.4	20000				A504_406.4 P71 BE71A4	A504_406.4 P71 BX71A4
3.6	611	1.4	376.8	15000	A413_376.8 S1 ME1SA4	A413_376.8 S1 MX1SA4	342	A413_376.8 P71 BE71A4	A413_376.8 P71 BX71A4
3.8	563	2.7	365.6	20000				A504_365.6 P71 BE71A4	A504_365.6 P71 BX71A4
3.9	550	0.9	339.3	12000	A353_339.3 S1 ME1SA4	A353_339.3 S1 MX1SA4	338	A353_339.3 P71 BE71A4	A353_339.3 P71 BX71A4
4.1	526	1.6	324.2	15000	A413_324.2 S1 ME1SA4	A413_324.2 S1 MX1SA4	342	A413_324.2 P71 BE71A4	A413_324.2 P71 BX71A4
4.1	512	2.9	332.6	20000				A504_332.6 P71 BE71A4	A504_332.6 P71 BX71A4
4.4	495	1.2	305.4	12000	A353_305.4 S1 ME1SA4	A353_305.4 S1 MX1SA4	338	A353_305.4 P71 BE71A4	A353_305.4 P71 BX71A4
4.7	460	1.8	291.7	15000	A413_291.7 S1 ME1SA4	A413_291.7 S1 MX1SA4	342	A413_291.7 P71 BE71A4	A413_291.7 P71 BX71A4
4.8	442	3.4	286.8	20000				A504_286.8 P71 BE71A4	A504_286.8 P71 BX71A4
4.9	440	0.9	271.5	9600	A303_271.5 S1 ME1SA4	A303_271.5 S1 MX1SA4	334	A303_271.5 P71 BE71A4	A303_271.5 P71 BX71A4
5.0	439	1.4	270.7	12000	A353_270.7 S1 ME1SA4	A353_270.7 S1 MX1SA4	338	A353_270.7 P71 BE71A4	A353_270.7 P71 BX71A4
5.1	426	2.0	262.5	15000	A413_262.5 S1 ME1SA4	A413_262.5 S1 MX1SA4	342	A413_262.5 P71 BE71A4	A413_262.5 P71 BX71A4
5.4	403	1.5	248.1	12000	A353_248.1 S1 ME1SA4	A353_248.1 S1 MX1SA4	338	A353_248.1 P71 BE71A4	A353_248.1 P71 BX71A4
5.6	385	1.0	244.3	9600	A303_244.3 S1 ME1SA4	A303_244.3 S1 MX1SA4	334	A303_244.3 P71 BE71A4	A303_244.3 P71 BX71A4
5.7	379	2.2	240.6	15000	A413_240.6 S1 ME1SA4	A413_240.6 S1 MX1SA4	342	A413_240.6 P71 BE71A4	A413_240.6 P71 BX71A4
6.0	362	1.7	223.2	12000	A353_223.2 S1 ME1SA4	A353_223.2 S1 MX1SA4	338	A353_223.2 P71 BE71A4	A353_223.2 P71 BX71A4
6.2	353	2.4	217.4	15000	A413_217.4 S1 ME1SA4	A413_217.4 S1 MX1SA4	342	A413_217.4 P71 BE71A4	A413_217.4 P71 BX71A4
6.2	351	1.0	216.6	9600	A303_216.6 S1 ME1SA4	A303_216.6 S1 MX1SA4	334	A303_216.6 P71 BE71A4	A303_216.6 P71 BX71A4
6.6	327	1.8	201.8	12000	A353_201.8 S1 ME1SA4	A353_201.8 S1 MX1SA4	338	A353_201.8 P71 BE71A4	A353_201.8 P71 BX71A4
7.0	313	1.1	198.5	9600	A303_198.5 S1 ME1SA4	A303_198.5 S1 MX1SA4	334	A303_198.5 P71 BE71A4	A303_198.5 P71 BX71A4
7.0	311	2.7	197.5	15000	A413_197.5 S1 ME1SA4	A413_197.5 S1 MX1SA4	342	A413_197.5 P71 BE71A4	A413_197.5 P71 BX71A4
7.1	306	2.0	188.3	12000	A353_188.3 S1 ME1SA4	A353_188.3 S1 MX1SA4	338	A353_188.3 P71 BE71A4	A353_188.3 P71 BX71A4
7.3	299	2.8	184.4	15000	A413_184.4 S1 ME1SA4	A413_184.4 S1 MX1SA4	342	A413_184.4 P71 BE71A4	A413_184.4 P71 BX71A4
7.5	290	1.2	178.5	9600	A303_178.5 S1 ME1SA4	A303_178.5 S1 MX1SA4	334	A303_178.5 P71 BE71A4	A303_178.5 P71 BX71A4
7.8	279	2.2	171.8	12000	A353_171.8 S1 ME1SA4	A353_171.8 S1 MX1SA4	338	A353_171.8 P71 BE71A4	A353_171.8 P71 BX71A4
8.4	257	0.9	163.4	6200	A203_163.4 S1 ME1SA4	A203_163.4 S1 MX1SA4	330	A203_163.4 P71 BE71A4	A203_163.4 P71 BX71A4
8.5	254	1.3	161.4	9600	A303_161.4 S1 ME1SA4	A303_161.4 S1 MX1SA4	334	A303_161.4 P71 BE71A4	A303_161.4 P71 BX71A4
8.9	244	1.4	150.7	9600	A303_150.7 S1 ME1SA4	A303_150.7 S1 MX1SA4	334	A303_150.7 P71 BE71A4	A303_150.7 P71 BX71A4
8.9	244	2.5	150.6	12000	A353_150.6 S1 ME1SA4	A353_150.6 S1 MX1SA4	338	A353_150.6 P71 BE71A4	A353_150.6 P71 BX71A4
9.2	237	1.0	146.1	6200	A203_146.1 S1 ME1SA4	A203_146.1 S1 MX1SA4	330	A203_146.1 P71 BE71A4	A203_146.1 P71 BX71A4
9.8	221	2.6	136.3	12000	A353_136.3 S1 ME1SA4	A353_136.3 S1 MX1SA4	338	A353_136.3 P71 BE71A4	A353_136.3 P71 BX71A4
10.0	216	1.5	137.4	9600	A303_137.4 S1 ME1SA4	A303_137.4 S1 MX1SA4	334	A303_137.4 P71 BE71A4	A303_137.4 P71 BX71A4
10.7	203	1.1	129.1	6200	A203_129.1 S1 ME1SA4	A203_129.1 S1 MX1SA4	330	A203_129.1 P71 BE71A4	A203_129.1 P71 BX71A4
11.1	196	1.1	120.5	6200	A203_120.5 S1 ME1SA4	A203_120.5 S1 MX1SA4	330	A203_120.5 P71 BE71A4	A203_120.5 P71 BX71A4
11.1	195	1.5	120.5	9600	A303_120.5 S1 ME1SA4	A303_120.5 S1 MX1SA4	334	A303_120.5 P71 BE71A4	A303_120.5 P71 BX71A4
11.5	190	3.0	116.9	12000	A353_116.9 S1 ME1SA4	A353_116.9 S1 MX1SA4	338	A353_116.9 P71 BE71A4	A353_116.9 P71 BX71A4
12.6	172	1.2	109.2	6200	A203_109.2 S1 ME1SA4	A203_109.2 S1 MX1SA4	330	A203_109.2 P71 BE71A4	A203_109.2 P71 BX71A4
12.7	172	1.7	109.1	9600	A303_109.1 S1 ME1SA4	A303_109.1 S1 MX1SA4	334	A303_109.1 P71 BE71A4	A303_109.1 P71 BX71A4
12.7	171	3.1	105.5	12000	A353_105.5 S1 ME1SA4	A353_105.5 S1 MX1SA4	338	A353_105.5 P71 BE71A4	A353_105.5 P71 BX71A4
14.2	159	1.9	97.5	9600				A302_97.5 P71 BN71A4	A302_97.5 P71 BE71A4
14.4	156	3.5	95.6	12000				A352_95.6 P71 BN71A4	A352_95.6 P71 BE71A4
14.5	155	1.3	92.3	6200	A202_92.3 S1 ME1SA4	A202_92.3 S1 MX1SA4	330	A202_92.3 P71 BE71A4	A202_92.3 P71 BX71A4
15.9	141	2.3	86.7	9600				A302_86.7 P71 BE71A4	A302_86.7 P71 BX71A4
16.8	134	1.6	79.9	6200	A202_79.9 S1 ME1SA4	A202_79.9 S1 MX1SA4	330	A202_79.9 P71 BE71A4	A202_79.9 P71 BX71A4

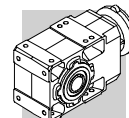


0.25 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				IEC		
					IE2	IE3		IE2	IE3	
17.5	128	1.2	76.4	5500	A102_76.4 S1 ME1SA4	A102_76.4 S1 MX1SA4	326	A102_76.4 P71 BE71A4	A102_76.4 P71 BX71A4	327
18.0	125	2.8	76.5	9600				A302_76.5 P71 BE71A4	A302_76.5 P71 BX71A4	335
19.4	116	1.8	71.0	6200	A202_71.0 S1 ME1SA4	A202_71.0 S1 MX1SA4	330	A202_71.0 P71 BE71A4	A202_71.0 P71 BX71A4	331
20.3	110	0.9	65.9	3610	A052_65.9 S1 ME1SA4	A052_65.9 S1 MX1SA4	323	A052_65.9 P71 BE71A4	A052_65.9 P71 BX71A4	323
20.3	110	1.4	65.9	5500	A102_65.9 S1 ME1SA4	A102_65.9 S1 MX1SA4	326	A102_65.9 P71 BE71A4	A102_65.9 P71 BX71A4	327
21.2	106	2.3	63.1	6200	A202_63.1 S1 ME1SA4	A202_63.1 S1 MX1SA4	330	A202_63.1 P71 BE71A4	A202_63.1 P71 BX71A4	331
22.9	98	1.0	58.6	3540	A052_58.6 S1 ME1SA4	A052_58.6 S1 MX1SA4	323	A052_58.6 P71 BE71A4	A052_58.6 P71 BX71A4	323
23.5	95	1.6	58.6	5500	A102_58.6 S1 ME1SA4	A102_58.6 S1 MX1SA4	326	A102_58.6 P71 BE71A4	A102_58.6 P71 BX71A4	327
25.0	90	2.8	53.7	6200	A202_53.7 S1 ME1SA4	A202_53.7 S1 MX1SA4	330	A202_53.7 P71 BE71A4	A202_53.7 P71 BX71A4	331
26.1	86	1.2	51.3	3450	A052_51.3 S1 ME1SA4	A052_51.3 S1 MX1SA4	323	A052_51.3 P71 BE71A4	A052_51.3 P71 BX71A4	323
26.1	86	1.7	51.3	5500	A102_51.3 S1 ME1SA4	A102_51.3 S1 MX1SA4	326	A102_51.3 P71 BE71A4	A102_51.3 P71 BX71A4	327
28.6	79	3.2	48.3	6180	A202_48.3 S1 ME1SA4	A202_48.3 S1 MX1SA4	330	A202_48.3 P71 BE71A4	A202_48.3 P71 BX71A4	331
29.5	76	1.3	45.4	3370	A052_45.4 S1 ME1SA4	A052_45.4 S1 MX1SA4	323	A052_45.4 P71 BE71A4	A052_45.4 P71 BX71A4	323
29.5	76	2.0	45.4	5500	A102_45.4 S1 ME1SA4	A102_45.4 S1 MX1SA4	326	A102_45.4 P71 BE71A4	A102_45.4 P71 BX71A4	327
33.0	68	1.5	40.9	3290	A052_40.9 S1 ME1SA4	A052_40.9 S1 MX1SA4	323	A052_40.9 P71 BE71A4	A052_40.9 P71 BX71A4	323
34.0	66	2.3	40.9	5500	A102_40.9 S1 ME1SA4	A102_40.9 S1 MX1SA4	326	A102_40.9 P71 BE71A4	A102_40.9 P71 BX71A4	327
38.0	59	1.7	35.1	3180	A052_35.1 S1 ME1SA4	A052_35.1 S1 MX1SA4	323	A052_35.1 P71 BE71A4	A052_35.1 P71 BX71A4	323
38.0	59	2.5	35.1	5260	A102_35.1 S1 ME1SA4	A102_35.1 S1 MX1SA4	326	A102_35.1 P71 BE71A4	A102_35.1 P71 BX71A4	327
42.0	54	1.9	32.2	3120	A052_32.2 S1 ME1SA4	A052_32.2 S1 MX1SA4	323	A052_32.2 P71 BE71A4	A052_32.2 P71 BX71A4	323
43.0	52	2.9	32.2	5500	A102_32.2 S1 ME1SA4	A102_32.2 S1 MX1SA4	326	A102_32.2 P71 BE71A4	A102_32.2 P71 BX71A4	327
47.0	48	2.1	28.6	3030	A052_28.6 S1 ME1SA4	A052_28.6 S1 MX1SA4	323	A052_28.6 P71 BE71A4	A052_28.6 P71 BX71A4	323
47.0	48	3.1	28.6	4970	A102_28.6 S1 ME1SA4	A102_28.6 S1 MX1SA4	326	A102_28.6 P71 BE71A4	A102_28.6 P71 BX71A4	327
53.0	43	2.3	25.5	2940	A052_25.5 S1 ME1SA4	A052_25.5 S1 MX1SA4	323	A052_25.5 P71 BE71A4	A052_25.5 P71 BX71A4	323
56.0	40	2.5	23.8	2890	A052_23.8 S1 ME1SA4	A052_23.8 S1 MX1SA4	323	A052_23.8 P71 BE71A4	A052_23.8 P71 BX71A4	323
63.0	36	2.8	21.4	2810	A052_21.4 S1 ME1SA4	A052_21.4 S1 MX1SA4	323	A052_21.4 P71 BE71A4	A052_21.4 P71 BX71A4	323
72.0	31	3.2	18.6	2710	A052_18.6 S1 ME1SA4	A052_18.6 S1 MX1SA4	323	A052_18.6 P71 BE71A4	A052_18.6 P71 BX71A4	323
84.0	27	3.7	16.4	2620	A052_16.4 S1 ME1SA4	A052_16.4 S1 MX1SA4	323	A052_16.4 P71 BE71A4	A052_16.4 P71 BX71A4	323
99.0	23	4.4	13.9	2500	A052_13.9 S1 ME1SA4	A052_13.9 S1 MX1SA4	323	A052_13.9 P71 BE71A4	A052_13.9 P71 BX71A4	323
112.0	20	5.0	12.3	2420	A052_12.3 S1 ME1SA4	A052_12.3 S1 MX1SA4	323	A052_12.3 P71 BE71A4	A052_12.3 P71 BX71A4	323
131.0	17.2	5.8	10.6	2310	A052_10.6 S1 ME1SA4	A052_10.6 S1 MX1SA4	323	A052_10.6 P71 BE71A4	A052_10.6 P71 BX71A4	323
144.0	15.7	6.4	9.6	2260	A052_9.6 S1 ME1SA4	A052_9.6 S1 MX1SA4	323	A052_9.6 P71 BE71A4	A052_9.6 P71 BX71A4	323
162.0	13.9	7.2	8.5	2180	A052_8.5 S1 ME1SA4	A052_8.5 S1 MX1SA4	323	A052_8.5 P71 BE71A4	A052_8.5 P71 BX71A4	323
191.0	11.7	8.5	7.2	2070	A052_7.2 S1 ME1SA4	A052_7.2 S1 MX1SA4	323	A052_7.2 P71 BE71A4	A052_7.2 P71 BX71A4	323
218.0	10.3	9.7	6.3	1990	A052_6.3 S1 ME1SA4	A052_6.3 S1 MX1SA4	323	A052_6.3 P71 BE71A4	A052_6.3 P71 BX71A4	323
252.0	8.9	10.7	5.5	1900	A052_5.5 S1 ME1SA4	A052_5.5 S1 MX1SA4	323	A052_5.5 P71 BE71A4	A052_5.5 P71 BX71A4	323

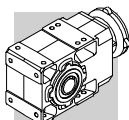
0.25 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC	IE3
0.8	2642	1.9	1715	50000		A704_1715 P71 BXN71MA4	359
0.9	2439	2.1	1583	50000		A704_1583 P71 BXN71MA4	359
0.9	2400	3.3	1558	65000		A804_1558 P71 BXN71MA4	362
1.0	2073	2.4	1346	50000		A704_1346 P71 BXN71MA4	359
1.1	1914	2.6	1242	50000		A704_1242 P71 BXN71MA4	359
1.2	1789	2.8	1161	50000		A704_1161 P71 BXN71MA4	359
1.3	1652	3.0	1072	50000		A704_1072 P71 BXN71MA4	359
1.5	1427	3.5	926.5	50000		A704_926.5 P71 BXN71MA4	359
1.8	1199	1.3	778.2	20000		A504_778.2 P71 BXN71MA4	347
1.8	1164	2.4	755.4	30000		A604_755.4 P71 BXN71MA4	355
1.9	1091	1.4	707.9	20000		A504_707.9 P71 BXN71MA4	347
2.0	1074	2.6	697.3	30000		A604_697.3 P71 BXN71MA4	355
2.2	978	2.9	634.6	30000		A604_634.6 P71 BXN71MA4	355
2.2	972	1.5	631.2	20000		A504_631.2 P71 BXN71MA4	347



0.25 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
2.4	902	3.1	585.8	30000		A604_585.8 P71 BXN71MA4 355
2.4	885	1.7	574.2	20000		A504_574.2 P71 BXN71MA4 347
2.5	835	3.4	542.0	30000		A604_542.0 P71 BXN71MA4 355
2.6	816	1.8	529.5	20000		A504_529.5 P71 BXN71MA4 347
2.9	742	2.0	481.6	20000		A504_481.6 P71 BXN71MA4 347
3.1	688	2.2	446.8	20000		A504_446.8 P71 BXN71MA4 347
3.4	626	2.4	406.4	20000		A504_406.4 P71 BXN71MA4 347
3.6	611	1.4	376.8	15000	A413_376.8 SX10 MXN10MA4 342	A413_376.8 P71 BXN71MA4 343
3.8	563	2.7	366	20000		A504_365.6 P71 BXN71MA4 347
3.9	550	0.9	339	12000	A353_339.3 SX10 MXN10MA4 338	A353_339.3 P71 BXN71MA4 339
4.1	526	1.6	324	15000	A413_324.2 SX10 MXN10MA4 342	A413_324.2 P71 BXN71MA4 343
4.1	512	2.9	333	20000		A504_332.6 P71 BXN71MA4 347
4.4	495	1.2	305	12000	A353_305.4 SX10 MXN10MA4 338	A353_305.4 P71 BXN71MA4 339
4.7	460	1.8	292	15000	A413_291.7 SX10 MXN10MA4 342	A413_291.7 P71 BXN71MA4 343
4.8	442	3.4	287	20000		A504_286.8 P71 BXN71MA4 347
4.9	440	0.9	272	9600	A303_271.5 SX10 MXN10MA4 334	A303_271.5 P71 BXN71MA4 335
5.0	439	1.4	271	12000	A353_270.7 SX10 MXN10MA4 338	A353_270.7 P71 BXN71MA4 339
5.1	426	2	263	15000	A413_262.5 SX10 MXN10MA4 342	A413_262.5 P71 BXN71MA4 343
5.4	403	1.5	248	12000	A353_248.1 SX10 MXN10MA4 338	A353_248.1 P71 BXN71MA4 339
5.6	385	1	244	9600	A303_244.3 SX10 MXN10MA4 334	A303_244.3 P71 BXN71MA4 335
5.7	379	2.2	241	15000	A413_240.6 SX10 MXN10MA4 342	A413_240.6 P71 BXN71MA4 343
6.0	362	1.7	223	12000	A353_223.2 SX10 MXN10MA4 338	A353_223.2 P71 BXN71MA4 339
6.2	353	2.4	217	15000	A413_217.4 SX10 MXN10MA4 342	A413_217.4 P71 BXN71MA4 343
6.2	351	1	217	9600	A303_216.6 SX10 MXN10MA4 334	A303_216.6 P71 BXN71MA4 335
6.6	327	1.8	202	12000	A353_201.8 SX10 MXN10MA4 338	A353_201.8 P71 BXN71MA4 339
7.0	313	1.1	199	9600	A303_198.5 SX10 MXN10MA4 334	A303_198.5 P71 BXN71MA4 335
7.0	311	2.7	198	15000	A413_197.5 SX10 MXN10MA4 342	A413_197.5 P71 BXN71MA4 343
7.1	306	2	188	12000	A353_188.3 SX10 MXN10MA4 338	A353_188.3 P71 BXN71MA4 339
7.3	299	2.8	184	15000	A413_184.4 SX10 MXN10MA4 342	A413_184.4 P71 BXN71MA4 343
7.5	290	1.2	179	9600	A303_178.5 SX10 MXN10MA4 334	A303_178.5 P71 BXN71MA4 335
7.8	279	2.2	172	12000	A353_171.8 SX10 MXN10MA4 338	A353_171.8 P71 BXN71MA4 339
8.4	257	0.9	163	6200	A203_163.4 SX10 MXN10MA4 330	A203_163.4 P71 BXN71MA4 331
8.5	254	1.3	161	9600	A303_161.4 SX10 MXN10MA4 334	A303_161.4 P71 BXN71MA4 335
8.9	244	1.4	151	9600	A303_150.7 SX10 MXN10MA4 334	A303_150.7 P71 BXN71MA4 335
8.9	244	2.5	151	12000	A353_150.6 SX10 MXN10MA4 338	A353_150.6 P71 BXN71MA4 339
9.2	237	1	146	6200	A203_146.1 SX10 MXN10MA4 330	A203_146.1 P71 BXN71MA4 331
9.8	221	2.6	136	12000	A353_136.3 SX10 MXN10MA4 338	A353_136.3 P71 BXN71MA4 339
10.0	216	1.5	137	9600	A303_137.4 SX10 MXN10MA4 334	A303_137.4 P71 BXN71MA4 335
10.7	203	1.1	129	6200	A203_129.1 SX10 MXN10MA4 330	A203_129.1 P71 BXN71MA4 331
11.1	196	1.1	121	6200	A203_120.5 SX10 MXN10MA4 330	A203_120.5 P71 BXN71MA4 331
11.1	195	1.5	121	9600	A303_120.5 SX10 MXN10MA4 334	A303_120.5 P71 BXN71MA4 335
11.5	190	3	117	12000	A353_116.9 SX10 MXN10MA4 338	A353_116.9 P71 BXN71MA4 339
12.6	172	1.2	109	6200	A203_109.2 SX10 MXN10MA4 330	A203_109.2 P71 BXN71MA4 331
12.7	172	1.7	109	9600	A303_109.1 SX10 MXN10MA4 334	A303_109.1 P71 BXN71MA4 335
12.7	171	3.1	106	12000	A353_105.5 SX10 MXN10MA4 338	A353_105.5 P71 BXN71MA4 339
14.2	159	1.9	98	9600		A302_97.5 P71 BXN71MA4 335
14.4	156	3.5	96	12000		A352_95.6 P71 BXN71MA4 339
14.5	155	1.3	92	6200	A202_92.3 SX10 MXN10MA4 330	A202_92.3 P71 BXN71MA4 331
15.9	141	2.3	87	9600		A302_86.7 P71 BXN71MA4 335
16.8	134	1.6	80	6200	A202_79.9 SX10 MXN10MA4 330	A202_79.9 P71 BXN71MA4 331
17.5	128	1.2	76	5500	A102_76.4 SX10 MXN10MA4 326	A102_76.4 P71 BXN71MA4 327
18.0	125	2.8	77	9600		A302_76.5 P71 BXN71MA4 335
19.4	116	1.8	71	6200	A202_71.0 SX10 MXN10MA4 330	A202_71.0 P71 BXN71MA4 331
20.3	110	0.9	66	3610		A052_65.9 P71 BXN71MA4 323
20.3	110	1.4	66	5500	A102_65.9 SX10 MXN10MA4 326	A102_65.9 P71 BXN71MA4 327
21.2	106	2.3	63	6200	A202_63.1 SX10 MXN10MA4 330	A202_63.1 P71 BXN71MA4 331
22.9	98	1	59	3540		A052_58.6 P71 BXN71MA4 323

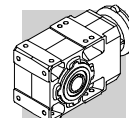


0.25 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
23.5	95	1.6	59	5500	A102_58.6 SX10 MXN10MA4	326 A102_58.6 P71 BXN71MA4
25.0	90	2.8	54	6200	A202_53.7 SX10 MXN10MA4	330 A202_53.7 P71 BXN71MA4
26.1	86	1.2	51	3450		A052_51.3 P71 BXN71MA4
26.1	86	1.7	51	5500	A102_51.3 SX10 MXN10MA4	326 A102_51.3 P71 BXN71MA4
28.6	79	3.2	48	6180	A202_48.3 SX10 MXN10MA4	330 A202_48.3 P71 BXN71MA4
29.5	76	1.3	45	3370		A052_45.4 P71 BXN71MA4
29.5	76	2	45	5500	A102_45.4 SX10 MXN10MA4	326 A102_45.4 P71 BXN71MA4
33.0	68	1.5	41	3290		A052_40.9 P71 BXN71MA4
34.0	66	2.3	41	5500	A102_40.9 SX10 MXN10MA4	326 A102_40.9 P71 BXN71MA4
38.0	59	1.7	35	3180		A052_35.1 P71 BXN71MA4
38.0	59	2.5	35	5260	A102_35.1 SX10 MXN10MA4	326 A102_35.1 P71 BXN71MA4
42.0	54	1.9	32	3120		A052_32.2 P71 BXN71MA4
43.0	52	2.9	32	5500	A102_32.2 SX10 MXN10MA4	326 A102_32.2 P71 BXN71MA4
47.0	48	2.1	29	3030	A102_28.6 SX10 MXN10MA4	326 A102_28.6 P71 BXN71MA4
47	48.0	3.1	28.6	4970	A102_28.6 SX10 MXN10MA4	326 A102_28.6 P71 BXN71MA4
53	43.0	2.3	25.5	2940		A052_25.5 P71 BXN71MA4
56	40.0	2.5	23.8	2890		A052_23.8 P71 BXN71MA4
63	36.0	2.8	21.4	2810		A052_21.4 P71 BXN71MA4
72	31.0	3.2	18.6	2710		A052_18.6 P71 BXN71MA4
84	27.0	3.7	16.4	2620		A052_16.4 P71 BXN71MA4
99	23.0	4.4	13.9	2500		A052_13.9 P71 BXN71MA4
112	20.0	5.0	12.3	2420		A052_12.3 P71 BXN71MA4
131	17.2	5.8	10.6	2310		A052_10.6 P71 BXN71MA4
144	15.7	6.4	9.6	2260		A052_9.6 P71 BXN71MA4
162	13.9	7.2	8.5	2180		A052_8.5 P71 BXN71MA4
191	11.7	8.5	7.2	2070		A052_7.2 P71 BXN71MA4
218	10.3	9.7	6.3	1990		A052_6.3 P71 BXN71MA4
252	8.9	10.7	5.5	1900		A052_5.5 P71 BXN71MA4

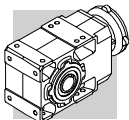
0.37 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC IE2	IEC IE3
0.8	3939.0	1.3	1715.0	50000	A704_1715 S1 ME1SB4	A704_1715 S1 MX1SB4	358 A704_1715 P71 BE71B4	A704_1715 P71 BX71B4
0.9	3636.0	1.4	1583.0	50000	A704_1583 S1 ME1SB4	A704_1583 S1 MX1SB4	358 A704_1583 P71 BE71B4	A704_1583 P71 BX71B4
0.9	3577.0	2.2	1558.0	65000	A804_1558 S1 ME1SB4	A804_1558 S1 MX1SB4	361 A804_1558 P71 BE71B4	A804_1558 P71 BX71B4
1.0	3302.0	2.4	1438.0	65000	A804_1438 S1 ME1SB4	A804_1438 S1 MX1SB4	361 A804_1438 P71 BE71B4	A804_1438 P71 BX71B4
1.0	3091.0	1.6	1346.0	50000	A704_1346 S1 ME1SB4	A704_1346 S1 MX1SB4	358 A704_1346 P71 BE71B4	A704_1346 P71 BX71B4
1.0	3077.0	2.6	1340.0	65000	A804_1340 S1 ME1SB4	A804_1340 S1 MX1SB4	361 A804_1340 P71 BE71B4	A804_1340 P71 BX71B4
1.1	2853.0	1.8	1242.0	50000	A704_1242 S1 ME1SB4	A704_1242 S1 MX1SB4	358 A704_1242 P71 BE71B4	A704_1242 P71 BX71B4
1.1	2841.0	2.8	1237.0	65000	A804_1237 S1 ME1SB4	A804_1237 S1 MX1SB4	361 A804_1237 P71 BE71B4	A804_1237 P71 BX71B4
1.2	2668.0	1.9	1161.0	50000	A704_1161 S1 ME1SB4	A704_1161 S1 MX1SB4	358 A704_1161 P71 BE71B4	A704_1161 P71 BX71B4
1.3	2492.0	3.2	1085.0	65000	A804_1085 S1 ME1SB4	A804_1085 S1 MX1SB4	361 A804_1085 P71 BE71B4	A804_1085 P71 BX71B4
1.3	2462.0	2.0	1072.0	50000	A704_1072 S1 ME1SB4	A704_1072 S1 MX1SB4	358 A704_1072 P71 BE71B4	A704_1072 P71 BX71B4
1.4	2300.0	3.5	1001.0	65000	A804_1001 S1 ME1SB4	A804_1001 S1 MX1SB4	361 A804_1001 P71 BE71B4	A804_1001 P71 BX71B4
1.5	2128.0	2.3	926.5	50000	A704_926.5 S1 ME1SB4	A704_926.5 S1 MX1SB4	358 A704_926.5 P71 BE71B4	A704_926.5 P71 BX71B4
1.6	1964.0	2.5	855.3	50000	A704_855.3 S1 ME1SB4	A704_855.3 S1 MX1SB4	358 A704_855.3 P71 BE71B4	A704_855.3 P71 BX71B4
1.8	1754.0	2.8	763.9	50000	A704_763.9 S1 ME1SB4	A704_763.9 S1 MX1SB4	358 A704_763.9 P71 BE71B4	A704_763.9 P71 BX71B4
1.8	1735.0	1.6	755.4	30000	A604_755.4 S1 ME1SB4	A604_755.4 S1 MX1SB4	354 A604_755.4 P71 BE71B4	A604_755.4 P71 BX71B4
1.9	1626.0	0.9	707.9	20000	A504_707.9 S1 ME1SB4	A504_707.9 S1 MX1SB4	346 A504_707.9 P71 BE71B4	A504_707.9 P71 BX71B4
1.9	1619.0	3.1	705.1	50000	A704_705.1 S1 ME1SB4	A704_705.1 S1 MX1SB4	358 A704_705.1 P71 BE71B4	A704_705.1 P71 BX71B4
2.0	1601.0	1.7	697.3	30000	A604_697.3 S1 ME1SB4	A604_697.3 S1 MX1SB4	354 A604_697.3 P71 BE71B4	A604_697.3 P71 BX71B4
2.1	1481.0	3.4	644.6	50000	A704_644.6 S1 ME1SB4	A704_644.6 S1 MX1SB4	358 A704_644.6 P71 BE71B4	A704_644.6 P71 BX71B4
2.2	1457.0	1.9	634.6	30000	A604_634.6 S1 ME1SB4	A604_634.6 S1 MX1SB4	354 A604_634.6 P71 BE71B4	A604_634.6 P71 BX71B4



0.37 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N				IEC		
					IE2	IE3		IE2	IE3	
2.2	1450.0	1.0	631.2	20000	A504_631.2 S1 ME1SB4	A504_631.2 S1 MX1SB4	346	A504_631.2 P71 BE71B4	A504_631.2 P71 BX71B4	347
2.3	1345.0	2.1	585.8	30000	A604_585.8 S1 ME1SB4	A604_585.8 S1 MX1SB4	354	A604_585.8 P71 BE71B4	A604_585.8 P71 BX71B4	355
2.4	1319.0	1.1	574.2	20000	A504_574.2 S1 ME1SB4	A504_574.2 S1 MX1SB4	346	A504_574.2 P71 BE71B4	A504_574.2 P71 BX71B4	347
2.5	1245.0	2.2	542.0	30000	A604_542.0 S1 ME1SB4	A604_542.0 S1 MX1SB4	354	A604_542.0 P71 BE71B4	A604_542.0 P71 BX71B4	355
2.6	1216.0	1.2	529.5	20000	A504_529.5 S1 ME1SB4	A504_529.5 S1 MX1SB4	346	A504_529.5 P71 BE71B4	A504_529.5 P71 BX71B4	347
2.7	1149.0	2.4	500.3	30000	A604_500.3 S1 ME1SB4	A604_500.3 S1 MX1SB4	354	A604_500.3 P71 BE71B4	A604_500.3 P71 BX71B4	355
2.8	1106.0	1.4	481.6	20000	A504_481.6 S1 ME1SB4	A504_481.6 S1 MX1SB4	346	A504_481.6 P71 BE71B4	A504_481.6 P71 BX71B4	347
3.1	1026.0	1.5	446.8	20000	A504_446.8 S1 ME1SB4	A504_446.8 S1 MX1SB4	346	A504_446.8 P71 BE71B4	A504_446.8 P71 BX71B4	347
3.1	1007.0	2.8	438.4	30000	A604_438.4 S1 ME1SB4	A604_438.4 S1 MX1SB4	354	A604_438.4 P71 BE71B4	A604_438.4 P71 BX71B4	355
3.4	933.0	1.6	406.4	20000	A504_406.4 S1 ME1SB4	A504_406.4 S1 MX1SB4	346	A504_406.4 P71 BE71B4	A504_406.4 P71 BX71B4	347
3.4	929.0	3.0	404.7	30000	A604_404.7 S1 ME1SB4	A604_404.7 S1 MX1SB4	354	A604_404.7 P71 BE71B4	A604_404.7 P71 BX71B4	355
3.6	885.0	1.0	376.8	15000	A413_376.8 S1 ME1SB4	A413_376.8 S1 MX1SB4	342	A413_376.8 P71 BE71B4	A413_376.8 P71 BX71B4	343
3.7	840.0	1.8	365.6	20000	A504_365.6 S1 ME1SB4	A504_365.6 S1 MX1SB4	346	A504_365.6 P71 BE71B4	A504_365.6 P71 BX71B4	347
3.9	807.0	3.5	351.2	30000	A604_351.2 S1 ME1SB4	A604_351.2 S1 MX1SB4	354	A604_351.2 P71 BE71B4	A604_351.2 P71 BX71B4	355
4.1	764.0	2.0	332.6	20000	A504_332.6 S1 ME1SB4	A504_332.6 S1 MX1SB4	346	A504_332.6 P71 BE71B4	A504_332.6 P71 BX71B4	347
4.2	761.0	1.1	324.2	15000	A413_324.2 S1 ME1SB4	A413_324.2 S1 MX1SB4	342	A413_324.2 P71 BE71B4	A413_324.2 P71 BX71B4	343
4.7	685.0	1.2	291.7	15000	A413_291.7 S1 ME1SB4	A413_291.7 S1 MX1SB4	342	A413_291.7 P71 BE71B4	A413_291.7 P71 BX71B4	343
4.8	659.0	2.3	286.8	20000	A504_286.8 S1 ME1SB4	A504_286.8 S1 MX1SB4	346	A504_286.8 P71 BE71B4	A504_286.8 P71 BX71B4	347
5.1	636.0	0.9	270.7	12000	A353_270.7 S1 ME1SB4	A353_270.7 S1 MX1SB4	338	A353_270.7 P71 BE71B4	A353_270.7 P71 BX71B4	339
5.2	616.0	1.4	262.5	15000	A413_262.5 S1 ME1SB4	A413_262.5 S1 MX1SB4	342	A413_262.5 P71 BE71B4	A413_262.5 P71 BX71B4	343
5.3	599.0	2.5	260.9	20000	A504_260.9 S1 ME1SB4	A504_260.9 S1 MX1SB4	346	A504_260.9 P71 BE71B4	A504_260.9 P71 BX71B4	347
5.5	583.0	1.0	248.1	12000	A353_248.1 S1 ME1SB4	A353_248.1 S1 MX1SB4	338	A353_248.1 P71 BE71B4	A353_248.1 P71 BX71B4	339
5.7	565.0	1.5	240.6	15000	A413_240.6 S1 ME1SB4	A413_240.6 S1 MX1SB4	342	A413_240.6 P71 BE71B4	A413_240.6 P71 BX71B4	343
5.9	533.0	2.8	232.0	20000	A504_232.0 S1 ME1SB4	A504_232.0 S1 MX1SB4	346	A504_232.0 P71 BE71B4	A504_232.0 P71 BX71B4	347
6.1	524.0	1.1	223.2	12000	A353_223.2 S1 ME1SB4	A353_223.2 S1 MX1SB4	338	A353_223.2 P71 BE71B4	A353_223.2 P71 BX71B4	339
6.3	511	1.7	217.4	15000	A413_217.4 S1 ME1SB4	A413_217.4 S1 MX1SB4	342	A413_217.4 P71 BE71B4	A413_217.4 P71 BX71B4	343
6.5	485	3.1	211.0	20000	A504_211.0 S1 ME1SB4	A504_211.0 S1 MX1SB4	346	A504_211.0 P71 BE71B4	A504_211.0 P71 BX71B4	347
6.8	474	1.3	201.8	12000	A353_201.8 S1 ME1SB4	A353_201.8 S1 MX1SB4	338	A353_201.8 P71 BE71B4	A353_201.8 P71 BX71B4	339
6.9	464	1.8	197.5	15000	A413_197.5 S1 ME1SB4	A413_197.5 S1 MX1SB4	342	A413_197.5 P71 BE71B4	A413_197.5 P71 BX71B4	343
7.2	448	3.4	190.6	20000	A503_190.6 S1 ME1SB4	A503_190.6 S1 MX1SB4	346	A503_190.6 P71 BE71B4	A503_190.6 P71 BX71B4	347
7.3	442	1.4	188.3	12000	A353_188.3 S1 ME1SB4	A353_188.3 S1 MX1SB4	338	A353_188.3 P71 BE71B4	A353_188.3 P71 BX71B4	339
7.4	433	2.0	184.4	15000	A413_184.4 S1 ME1SB4	A413_184.4 S1 MX1SB4	342	A413_184.4 P71 BE71B4	A413_184.4 P71 BX71B4	343
8.0	403	1.5	171.8	12000	A353_171.8 S1 ME1SB4	A353_171.8 S1 MX1SB4	338	A353_171.8 P71 BE71B4	A353_171.8 P71 BX71B4	339
9.1	354	0.9	150.7	9600	A303_150.7 S1 ME1SB4	A303_150.7 S1 MX1SB4	334	A303_150.7 P71 BE71B4	A303_150.7 P71 BX71B4	335
9.1	354	1.7	150.6	12000	A353_150.6 S1 ME1SB4	A353_150.6 S1 MX1SB4	338	A353_150.6 P71 BE71B4	A353_150.6 P71 BX71B4	339
9.3	345	2.5	146.9	15000	A413_146.9 S1 ME1SB4	A413_146.9 S1 MX1SB4	342	A413_146.9 P71 BE71B4	A413_146.9 P71 BX71B4	343
10.0	323	1.0	137.4	9600	A303_137.4 S1 ME1SB4	A303_137.4 S1 MX1SB4	334	A303_137.4 P71 BE71B4	A303_137.4 P71 BX71B4	335
10.0	320	1.8	136.3	12000	A353_136.3 S1 ME1SB4	A353_136.3 S1 MX1SB4	338	A353_136.3 P71 BE71B4	A353_136.3 P71 BX71B4	339
11.4	283	1.1	120.5	9600	A303_120.5 S1 ME1SB4	A303_120.5 S1 MX1SB4	334	A303_120.5 P71 BE71B4	A303_120.5 P71 BX71B4	335
11.7	275	2.0	116.9	12000	A353_116.9 S1 ME1SB4	A353_116.9 S1 MX1SB4	338	A353_116.9 P71 BE71B4	A353_116.9 P71 BX71B4	339
11.8	272	3.1	115.9	15000	A413_115.9 S1 ME1SB4	A413_115.9 S1 MX1SB4	342	A413_115.9 P71 BE71B4	A413_115.9 P71 BX71B4	343
12.6	256	1.2	109.1	9600	A303_109.1 S1 ME1SB4	A303_109.1 S1 MX1SB4	334	A303_109.1 P71 BE71B4	A303_109.1 P71 BX71B4	335
13.0	248	2.1	105.5	12000	A353_105.5 S1 ME1SB4	A353_105.5 S1 MX1SB4	338	A353_105.5 P71 BE71B4	A353_105.5 P71 BX71B4	339
14.1	237	1.3	97.5	9600				A302_97.5 P71 BE71B4	A302_97.5 P71 BX71B4	335
14.3	232	2.3	95.6	12000	A352_95.6 S1 ME1SB4	A352_95.6 S1 MX1SB4	338	A352_95.6 P71 BE71B4	A352_95.6 P71 BX71B4	339
15.8	210	1.5	86.7	9600				A302_86.7 P71 BE71B4	A302_86.7 P71 BX71B4	335
16.6	200	3.0	82.5	12000	A352_82.5 S1 ME1SB4	A352_82.5 S1 MX1SB4	338	A352_82.5 P71 BE71B4	A352_82.5 P71 BX71B4	339
17.2	194	1.1	79.9	6200				A202_79.9 P71 BE71B4	A202_79.9 P71 BX71B4	331
17.9	186	1.9	76.5	9600	A302_76.5 S1 ME1SB4	A302_76.5 S1 MX1SB4	334	A302_76.5 P71 BE71B4	A302_76.5 P71 BX71B4	335
18.4	180	3.3	74.3	12000	A352_74.3 S1 ME1SB4	A352_74.3 S1 MX1SB4	338	A352_74.3 P71 BE71B4	A352_74.3 P71 BX71B4	339
19.3	172	1.2	71.0	6200				A202_71.0 P71 BE71B4	A202_71.0 P71 BX71B4	331
20.7	160	2.4	66.0	9350	A302_66.0 S1 ME1SB4	A302_66.0 S1 MX1SB4	334	A302_66.0 P71 BE71B4	A302_66.0 P71 BX71B4	335
20.8	160	0.9	65.9	5500				A102_65.9 P71 BE71B4	A102_65.9 P71 BX71B4	327
21.7	153	1.6	63.1	6200	A202_63.1 S1 ME1SB4	A202_63.1 S1 MX1SB4	330	A202_63.1 P71 BE71B4	A202_63.1 P71 BX71B4	331
23.1	144	2.8	59.4	9080	A302_59.4 S1 ME1SB4	A302_59.4 S1 MX1SB4	334	A302_59.4 P71 BE71B4	A302_59.4 P71 BX71B4	335
23.4	142	1.1	58.6	5500				A102_58.6 P71 BE71B4	A102_58.6 P71 BX71B4	327
25.5	130	1.9	53.7	6090	A202_53.7 S1 ME1SB4	A202_53.7 S1 MX1SB4	330	A202_53.7 P71 BE71B4	A202_53.7 P71 BX71B4	331

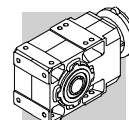


0.37 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				IEC		
					IE2	IE3		IE2	IE3	
26.0	128	3.2	52.7	8790	A302_52.7 S1 ME1SB4	A302_52.7 S1 MX1SB4	334	A302_52.7 P71 BE71B4	A302_52.7 P71 BX71B4	335
26.7	124	1.2	51.3	5490	A102_51.3 S1 ME1SB4	A102_51.3 S1 MX1SB4	326	A102_51.3 P71 BE71B4	A102_51.3 P71 BX71B4	327
28.4	117	2.1	48.3	5940	A202_48.3 S1 ME1SB4	A202_48.3 S1 MX1SB4	330	A202_48.3 P71 BE71B4	A202_48.3 P71 BX71B4	331
28.4	117	3.5	48.3	8580	A302_48.3 S1 ME1SB4	A302_48.3 S1 MX1SB4	334	A302_48.3 P71 BE71B4	A302_48.3 P71 BX71B4	335
30.0	110	0.9	45.4	3060	A052_45.4 S1 ME1SB4	A052_45.4 S1 MX1SB4	323	A052_45.4 P71 BE71B4	A052_45.4 P71 BX71B4	323
30.0	110	1.4	45.4	5350	A102_45.4 S1 ME1SB4	A102_45.4 S1 MX1SB4	326	A102_45.4 P71 BE71B4	A102_45.4 P71 BX71B4	327
32.0	105	2.4	43.2	5780	A202_43.2 S1 ME1SB4	A202_43.2 S1 MX1SB4	330	A202_43.2 P71 BE71B4	A202_43.2 P71 BX71B4	331
34.0	99	1.0	40.9	3020	A052_40.9 S1 ME1SB4	A052_40.9 S1 MX1SB4	323	A052_40.9 P71 BE71B4	A052_40.9 P71 BX71B4	323
34.0	99	1.5	40.9	5500	A102_40.9 S1 ME1SB4	A102_40.9 S1 MX1SB4	326	A102_40.9 P71 BE71B4	A102_40.9 P71 BX71B4	327
35.0	96	2.6	39.6	5650	A202_39.6 S1 ME1SB4	A202_39.6 S1 MX1SB4	330	A202_39.6 P71 BE71B4	A202_39.6 P71 BX71B4	331
39.0	86	2.9	35.4	5480	A202_35.4 S1 ME1SB4	A202_35.4 S1 MX1SB4	330	A202_35.4 P71 BE71B4	A202_35.4 P71 BX71B4	331
39.0	85	1.2	35.1	2950	A052_35.1 S1 ME1SB4	A052_35.1 S1 MX1SB4	323	A052_35.1 P71 BE71B4	A052_35.1 P71 BX71B4	323
39.0	85	1.8	35.1	5040	A102_35.1 S1 ME1SB4	A102_35.1 S1 MX1SB4	326	A102_35.1 P71 BE71B4	A102_35.1 P71 BX71B4	327
43.0	78	1.3	32.2	2900	A052_32.2 S1 ME1SB4	A052_32.2 S1 MX1SB4	323	A052_32.2 P71 BE71B4	A052_32.2 P71 BX71B4	323
43.0	78	1.9	32.2	5500	A102_32.2 S1 ME1SB4	A102_32.2 S1 MX1SB4	326	A102_32.2 P71 BE71B4	A102_32.2 P71 BX71B4	327
44.0	76	3.3	31.3	5310	A202_31.3 S1 ME1SB4	A202_31.3 S1 MX1SB4	330	A202_31.3 P71 BE71B4	A202_31.3 P71 BX71B4	331
47.0	71	3.5	29.2	5210	A202_29.2 S1 ME1SB4	A202_29.2 S1 MX1SB4	330	A202_29.2 P71 BE71B4	A202_29.2 P71 BX71B4	331
48.0	69	1.4	28.6	2840	A052_28.6 S1 ME1SB4	A052_28.6 S1 MX1SB4	323	A052_28.6 P71 BE71B4	A052_28.6 P71 BX71B4	323
48.0	69	2.2	28.6	4790	A102_28.6 S1 ME1SB4	A102_28.6 S1 MX1SB4	326	A102_28.6 P71 BE71B4	A102_28.6 P71 BX71B4	327
54.0	62	1.6	25.5	2770	A052_25.5 S1 ME1SB4	A052_25.5 S1 MX1SB4	323	A052_25.5 P71 BE71B4	A052_25.5 P71 BX71B4	323
54.0	62	2.4	25.5	5500	A102_25.5 S1 ME1SB4	A102_25.5 S1 MX1SB4	326	A102_25.5 P71 BE71B4	A102_25.5 P71 BX71B4	327
58.0	58	1.7	23.8	2730	A052_23.8 S1 ME1SB4	A052_23.8 S1 MX1SB4	323	A052_23.8 P71 BE71B4	A052_23.8 P71 BX71B4	323
58.0	58	2.6	23.8	4570	A102_23.8 S1 ME1SB4	A102_23.8 S1 MX1SB4	326	A102_23.8 P71 BE71B4	A102_23.8 P71 BX71B4	327
64.0	52	1.9	21.4	2670	A052_21.4 S1 ME1SB4	A052_21.4 S1 MX1SB4	323	A052_21.4 P71 BE71B4	A052_21.4 P71 BX71B4	323
64.0	52	2.9	21.4	5270	A102_21.4 S1 ME1SB4	A102_21.4 S1 MX1SB4	326	A102_21.4 P71 BE71B4	A102_21.4 P71 BX71B4	327
74.0	45	2.2	18.6	2590	A052_18.6 S1 ME1SB4	A052_18.6 S1 MX1SB4	323	A052_18.6 P71 BE71B4	A052_18.6 P71 BX71B4	323
74.0	45	3.3	18.6	4270	A102_18.6 S1 ME1SB4	A102_18.6 S1 MX1SB4	326	A102_18.6 P71 BE71B4	A102_18.6 P71 BX71B4	327
83.0	40	2.5	16.4	2510	A052_16.4 S1 ME1SB4	A052_16.4 S1 MX1SB4	323	A052_16.4 P71 BE71B4	A052_16.4 P71 BX71B4	323
98.0	34	3.0	13.9	2410	A052_13.9 S1 ME1SB4	A052_13.9 S1 MX1SB4	323	A052_13.9 P71 BE71B4	A052_13.9 P71 BX71B4	323
111.0	30	3.3	12.3	2350	A052_12.3 S1 ME1SB4	A052_12.3 S1 MX1SB4		A052_12.3 P71 BE71B4	A052_12.3 P71 BX71B4	323
130.0	26	3.9	10.6	2240	A052_10.6 S1 ME1SB4	A052_10.6 S1 MX1SB4		A052_10.6 P71 BE71B4	A052_10.6 P71 BX71B4	323
142.0	23	4.3	9.6	2190	A052_9.6 S1 ME1SB4	A052_9.6 S1 MX1SB4		A052_9.6 P71 BE71B4	A052_9.6 P71 BX71B4	323
161	21.0	4.8	8.5	2120	A052_8.5 S1 ME1SB4	A052_8.5 S1 MX1SB4	323	A052_8.5 P71 BE71B4	A052_8.5 P71 BX71B4	323
190	17.5	5.7	7.2	2030	A052_7.2 S1 ME1SB4	A052_7.2 S1 MX1SB4	323	A052_7.2 P71 BE71B4	A052_7.2 P71 BX71B4	323
216	15.4	6.5	6.3	1950	A052_6.3 S1 ME1SB4	A052_6.3 S1 MX1SB4	323	A052_6.3 P71 BE71B4	A052_6.3 P71 BX71B4	323
251	13.3	7.2	5.5	1870	A052_5.5 S1 ME1SB4	A052_5.5 S1 MX1SB4	323	A052_5.5 P71 BE71B4	A052_5.5 P71 BX71B4	323

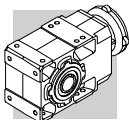
0.37 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC	IE3
0.8	3939	1.3	1715.0	50000		A704_1715 P71 BXN71MB4	359
0.9	3636	1.4	1583.0	50000		A704_1583 P71 BXN71MB4	359
0.9	3577	2.2	1558.0	65000		A804_1558 P71 BXN71MB4	362
1.0	3302	2.4	1438.0	65000		A804_1438 P71 BXN71MB4	362
1.0	3091	1.6	1346.0	50000		A704_1346 P71 BXN71MB4	359
1.0	3077	2.6	1340.0	65000		A804_1340 P71 BXN71MB4	362
1.1	2853	1.8	1242.0	50000		A704_1242 P71 BXN71MB4	359
1.1	2841	2.8	1237.0	65000		A804_1237 P71 BXN71MB4	362
1.2	2668	1.9	1161.0	50000		A704_1161 P71 BXN71MB4	359
1.3	2492	3.2	1085.0	65000		A804_1085 P71 BXN71MB4	362
1.3	2462	2.0	1072.0	50000		A704_1072 P71 BXN71MB4	359
1.4	2300	3.5	1001.0	65000		A804_1001 P71 BXN71MB4	362
1.5	2128	2.3	926.5	50000		A704_926.5 P71 BXN71MB4	359
1.6	1964	2.5	855.3	50000		A704_855.3 P71 BXN71MB4	359



0.37 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
1.8	1754	2.8	763.9	50000		A704_763.9 P71 BXN71MB4 359
1.8	1735	1.6	755.4	30000	A504_707.9 SX10 MXN10MB4	A604_755.4 P71 BXN71MB4 355
1.9	1626	0.9	707.9	20000		A504_707.9 P71 BXN71MB4 347
1.9	1619	3.1	705.1	50000		A704_705.1 P71 BXN71MB4 359
2.0	1601	1.7	697.3	30000		A604_697.3 P71 BXN71MB4 355
2.1	1481	3.4	644.6	50000		A704_644.6 P71 BXN71MB4 359
2.2	1457	1.9	634.6	30000	A504_631.2 SX10 MXN10MB4	A604_634.6 P71 BXN71MB4 355
2.2	1450	1.0	631.2	20000		A504_631.2 P71 BXN71MB4 347
2.3	1345	2.1	585.8	30000		A604_585.8 P71 BXN71MB4 355
2.4	1319	1.1	574.2	20000	A504_574.2 SX10 MXN10MB4	A504_574.2 P71 BXN71MB4 347
2.5	1245	2.2	542.0	30000		A604_542.0 P71 BXN71MB4 355
2.6	1216	1.2	529.5	20000	A504_529.5 SX10 MXN10MB4	A504_529.5 P71 BXN71MB4 347
2.7	1149	2.4	500.3	30000		A604_500.3 P71 BXN71MB4 355
2.8	1106	1.4	481.6	20000	A504_481.6 SX10 MXN10MB4	A504_481.6 P71 BXN71MB4 347
3.1	1026	1.5	446.8	20000	A504_446.8 SX10 MXN10MB4	A504_446.8 P71 BXN71MB4 347
3.1	1007	2.8	438.4	30000		A604_438.4 P71 BXN71MB4 355
3.4	933	1.6	406.4	20000	A504_406.4 SX10 MXN10MB4	A504_406.4 P71 BXN71MB4 347
3.4	929	3.0	404.7	30000		A604_404.7 P71 BXN71MB4 355
3.6	885	1.0	376.8	15000	A413_376.8 SX10 MXN10MB4	A413_376.8 P71 BXN71MB4 343
3.7	840	1.8	365.6	20000	A504_365.6 SX10 MXN10MB4	A504_365.6 P71 BXN71MB4 347
3.9	807	3.5	351.2	30000		A604_351.2 P71 BXN71MB4 355
4.1	764	2.0	332.6	20000	A504_332.6 SX10 MXN10MB4	A504_332.6 P71 BXN71MB4 347
4.2	761	1.1	324.2	15000	A413_324.2 SX10 MXN10MB4	A413_324.2 P71 BXN71MB4 343
4.7	685	1.2	291.7	15000	A413_291.7 SX10 MXN10MB4	A413_291.7 P71 BXN71MB4 343
4.8	659	2.3	286.8	20000	A504_286.8 SX10 MXN10MB4	A504_286.8 P71 BXN71MB4 347
5.1	636	0.9	270.7	12000	A353_270.7 SX10 MXN10MB4	A353_270.7 P71 BXN71MB4 339
5.2	616	1.4	262.5	15000	A413_262.5 SX10 MXN10MB4	A413_262.5 P71 BXN71MB4 343
5.3	599	2.5	260.9	20000	A504_260.9 SX10 MXN10MB4	A504_260.9 P71 BXN71MB4 347
5.5	583	1.0	248.1	12000	A353_248.1 SX10 MXN10MB4	A353_248.1 P71 BXN71MB4 339
5.7	565	1.5	240.6	15000	A413_240.6 SX10 MXN10MB4	A413_240.6 P71 BXN71MB4 343
5.9	533	2.8	232.0	20000	A504_232.0 SX10 MXN10MB4	A504_232.0 P71 BXN71MB4 347
6.1	524	1.1	223.2	12000	A353_223.2 SX10 MXN10MB4	A353_223.2 P71 BXN71MB4 339
6.3	511	1.7	217.4	15000	A413_217.4 SX10 MXN10MB4	A413_217.4 P71 BXN71MB4 343
6.5	485	3.1	211.0	20000	A504_211.0 SX10 MXN10MB4	A504_211.0 P71 BXN71MB4 347
6.8	474	1.3	201.8	12000	A353_201.8 SX10 MXN10MB4	A353_201.8 P71 BXN71MB4 339
6.9	464	1.8	197.5	15000	A413_197.5 SX10 MXN10MB4	A413_197.5 P71 BXN71MB4 343
7.2	448	3.4	190.6	20000		A503_190.6 P71 BXN71MB4 347
7.3	442	1.4	188.3	12000	A353_188.3 SX10 MXN10MB4	A353_188.3 P71 BXN71MB4 339
7.4	433	2.0	184.4	15000	A413_184.4 SX10 MXN10MB4	A413_184.4 P71 BXN71MB4 343
8.0	403	1.5	171.8	12000	A353_171.8 SX10 MXN10MB4	A353_171.8 P71 BXN71MB4 339
9.1	354	0.9	150.7	9600	A303_150.7 SX10 MXN10MB4	A303_150.7 P71 BXN71MB4 335
9.1	354	1.7	150.6	12000	A353_150.6 SX10 MXN10MB4	A353_150.6 P71 BXN71MB4 339
9.3	345.0	2.5	146.9	15000	A413_146.9 SX10 MXN10MB4	A413_146.9 P71 BXN71MB4 343
10.0	323.0	1.0	137.4	9600	A303_137.4 SX10 MXN10MB4	A303_137.4 P71 BXN71MB4 335
10.0	320.0	1.8	136.3	12000	A353_136.3 SX10 MXN10MB4	A353_136.3 P71 BXN71MB4 339
11.4	283.0	1.1	120.5	9600	A303_120.5 SX10 MXN10MB4	A303_120.5 P71 BXN71MB4 335
11.7	275.0	2.0	116.9	12000	A353_116.9 SX10 MXN10MB4	A353_116.9 P71 BXN71MB4 339
11.8	272.0	3.1	115.9	15000	A413_115.9 SX10 MXN10MB4	A413_115.9 P71 BXN71MB4 343
12.6	256.0	1.2	109.1	9600	A303_109.1 SX10 MXN10MB4	A303_109.1 P71 BXN71MB4 335
13.0	248.0	2.1	105.5	12000	A353_105.5 SX10 MXN10MB4	A353_105.5 P71 BXN71MB4 339
14.1	237.0	1.3	97.5	9600		A302_97.5 P71 BXN71MB4 335
14.3	232.0	2.3	95.6	12000	A352_95.6 SX10 MXN10MB4	A352_95.6 P71 BXN71MB4 339
15.8	210.0	1.5	86.7	9600		A302_86.7 P71 BXN71MB4 335
16.6	200.0	3.0	82.5	12000	A352_82.5 SX10 MXN10MB4	A352_82.5 P71 BXN71MB4 339
17.2	194.0	1.1	79.9	6200		A202_79.9 P71 BXN71MB4 331
17.9	186.0	1.9	76.5	9600	A302_76.5 SX10 MXN10MB4	A302_76.5 P71 BXN71MB4 335
18.4	180.0	3.3	74.3	12000	A352_74.3 SX10 MXN10MB4	A352_74.3 P71 BXN71MB4 339
19.3	172.0	1.2	71.0	6200		A202_71.0 P71 BXN71MB4 331
20.7	160.0	2.4	66.0	9350	A302_66.0 SX10 MXN10MB4	A302_66.0 P71 BXN71MB4 335
20.8	160.0	0.9	65.9	5500		A102_65.9 P71 BXN71MB4 327
21.7	153.0	1.6	63.1	6200	A202_63.1 SX10 MXN10MB4	A202_63.1 P71 BXN71MB4 331

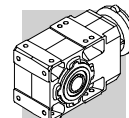


0.37 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
23.1	144.0	2.8	59.4	9080	A302_59.4 SX10 MXN10MB4	334 A302_59.4 P71 BXN71MB4
23.4	142.0	1.1	58.6	5500		A102_58.6 P71 BXN71MB4
25.5	130.0	1.9	53.7	6090	A202_53.7 SX10 MXN10MB4	A202_53.7 P71 BXN71MB4
26.0	128.0	3.2	52.7	8790	A302_52.7 SX10 MXN10MB4	A302_52.7 P71 BXN71MB4
26.7	124.0	1.2	51.3	5490	A102_51.3 SX10 MXN10MB4	A102_51.3 P71 BXN71MB4
28.4	117.0	2.1	48.3	5940	A202_48.3 SX10 MXN10MB4	A202_48.3 P71 BXN71MB4
28.4	117.0	3.5	48.3	8580	A302_48.3 SX10 MXN10MB4	A302_48.3 P71 BXN71MB4
30.0	110.0	0.9	45.4	3060		A052_45.4 P71 BXN71MB4
30.0	110.0	1.4	45.4	5350	A102_45.4 SX10 MXN10MB4	A102_45.4 P71 BXN71MB4
32.0	105.0	2.4	43.2	5780	A202_43.2 SX10 MXN10MB4	A202_43.2 P71 BXN71MB4
34.0	99.0	1.0	40.9	3020		A052_40.9 P71 BXN71MB4
34.0	99.0	1.5	40.9	5500	A102_40.9 SX10 MXN10MB4	A102_40.9 P71 BXN71MB4
35.0	96.0	2.6	39.6	5650	A202_39.6 SX10 MXN10MB4	A202_39.6 P71 BXN71MB4
39.0	86.0	2.9	35.4	5480	A202_35.4 SX10 MXN10MB4	A202_35.4 P71 BXN71MB4
39.0	85.0	1.2	35.1	2950		A052_35.1 P71 BXN71MB4
39.0	85.0	1.8	35.1	5040	A102_35.1 SX10 MXN10MB4	A102_35.1 P71 BXN71MB4
43.0	78.0	1.3	32.2	2900		A052_32.2 P71 BXN71MB4
43.0	78.0	1.9	32.2	5500	A102_32.2 SX10 MXN10MB4	A102_32.2 P71 BXN71MB4
44.0	76.0	3.3	31.3	5310	A202_31.3 SX10 MXN10MB4	A202_31.3 P71 BXN71MB4
47.0	71.0	3.5	29.2	5210	A202_29.2 SX10 MXN10MB4	A202_29.2 P71 BXN71MB4
48.0	69.0	1.4	28.6	2840		A052_28.6 P71 BXN71MB4
48.0	69.0	2.2	28.6	4790	A102_28.6 SX10 MXN10MB4	A102_28.6 P71 BXN71MB4
54.0	62.0	1.6	25.5	2770		A052_25.5 P71 BXN71MB4
54.0	62.0	2.4	25.5	5500	A102_25.5 SX10 MXN10MB4	A102_25.5 P71 BXN71MB4
58.0	58.0	1.7	23.8	2730		A052_23.8 P71 BXN71MB4
58.0	58.0	2.6	23.8	4570	A102_23.8 SX10 MXN10MB4	A102_23.8 P71 BXN71MB4
64.0	52.0	1.9	21.4	2670		A052_21.4 P71 BXN71MB4
64.0	52.0	2.9	21.4	5270	A102_21.4 SX10 MXN10MB4	A102_21.4 P71 BXN71MB4
74.0	45.0	2.2	18.6	2590		A052_18.6 P71 BXN71MB4
74.0	45.0	3.3	18.6	4270	A102_18.6 SX10 MXN10MB4	A102_18.6 P71 BXN71MB4
83.0	40.0	2.5	16.4	2510		A052_16.4 P71 BXN71MB4
98.0	34.0	3.0	13.9	2410		A052_13.9 P71 BXN71MB4
111.0	30.0	3.3	12.3	2350		A052_12.3 P71 BXN71MB4
130.0	26.0	3.9	10.6	2240		A052_10.6 P71 BXN71MB4
142.0	23.0	4.3	9.6	2190		A052_9.6 P71 BXN71MB4
161.0	21.0	4.8	8.5	2120		A052_8.5 P71 BXN71MB4
190.0	17.5	5.7	7.2	2030		A052_7.2 P71 BXN71MB4
216.0	15.4	6.5	6.3	1950		A052_6.3 P71 BXN71MB4
251.0	13.3	7.2	5.5	1870		A052_5.5 P71 BXN71MB4

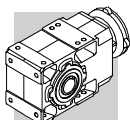
0.55 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC IE2	IE3
0.8	5813	0.9	1715	50000	A704_1715 S2 ME2SA4	A704_1715 S2 MX2SA4	358 A704_1715 P80 BE80A4	A704_1715 P80 BX80A4
0.9	5532	2.5	1632	75000	A904_1632 S2 ME2SA4	A904_1632 S2 MX2SA4	364 A904_1632 P80 BE80A4	A904_1632 P80 BX80A4
0.9	5365	0.9	1583	50000	A704_1583 S2 ME2SA4	A704_1583 S2 MX2SA4	358 A704_1583 P80 BE80A4	A704_1583 P80 BX80A4
0.9	5279	1.5	1558	65000	A804_1558 S2 ME2SA4	A804_1558 S2 MX2SA4	361 A804_1558 P80 BE80A4	A804_1558 P80 BX80A4
0.9	5070	2.8	1507	75000	A904_1507 S2 ME2SA4	A904_1507 S2 MX2SA4	364 A904_1507 P80 BE80A4	A904_1507 P80 BX80A4
1.0	4873	1.6	1438	65000	A804_1438 S2 ME2SA4	A804_1438 S2 MX2SA4	361 A804_1438 P80 BE80A4	A804_1438 P80 BX80A4
1.0	4561	1.1	1346	50000	A704_1346 S2 ME2SA4	A704_1346 S2 MX2SA4	358 A704_1346 P80 BE80A4	A704_1346 P80 BX80A4
1.0	4541	1.8	1340	65000	A804_1340 S2 ME2SA4	A804_1340 S2 MX2SA4	361 A804_1340 P80 BE80A4	A804_1340 P80 BX80A4
1.0	4455	3.1	1324	75000	A904_1324 S2 ME2SA4	A904_1324 S2 MX2SA4	364 A904_1324 P80 BE80A4	A904_1324 P80 BX80A4
1.1	4211	1.2	1242	50000	A704_1242 S2 ME2SA4	A704_1242 S2 MX2SA4	358 A704_1242 P80 BE80A4	A704_1242 P80 BX80A4
1.1	4192	1.9	1237	65000	A804_1237 S2 ME2SA4	A804_1237 S2 MX2SA4	361 A804_1237 P80 BE80A4	A804_1237 P80 BX80A4
1.1	4112	3.4	1222	75000	A904_1222 S2 ME2SA4	A904_1222 S2 MX2SA4	364 A904_1222 P80 BE80A4	A904_1222 P80 BX80A4
1.2	3937	1.3	1161	50000	A704_1161 S2 ME2SA4	A704_1161 S2 MX2SA4	358 A704_1161 P80 BE80A4	A704_1161 P80 BX80A4
1.3	3677	2.2	1085	65000	A804_1085 S2 ME2SA4	A804_1085 S2 MX2SA4	361 A804_1085 P80 BE80A4	A804_1085 P80 BX80A4
1.3	3634	1.4	1072	50000	A704_1072 S2 ME2SA4	A704_1072 S2 MX2SA4	358 A704_1072 P80 BE80A4	A704_1072 P80 BX80A4



0.55 kW

n ₂	M ₂	S	i	R _{n2}	IEC			IEC		
min ⁻¹	Nm			N	IE2	IE3		IE2	IE3	
1.4	3394	2.4	1001	65000	A804_1001 S2 ME2SA4	A804_1001 S2 MX2SA4	361	A804_1001 P80 BE80A4	A804_1001 P80 BX80A4	362
1.5	3140	1.6	926.5	50000	A704_926.5 S2 ME2SA4	A704_926.5 S2 MX2SA4	358	A704_926.5 P80 BE80A4	A704_926.5 P80 BX80A4	359
1.5	3046	2.6	898.7	65000	A804_898.7 S2 ME2SA4	A804_898.7 S2 MX2SA4	361	A804_898.7 P80 BE80A4	A804_898.7 P80 BX80A4	362
1.6	2899	1.7	855.3	50000	A704_855.3 S2 ME2SA4	A704_855.3 S2 MX2SA4	358	A704_855.3 P80 BE80A4	A704_855.3 P80 BX80A4	359
1.7	2811	2.8	829.5	65000	A804_829.5 S2 ME2SA4	A804_829.5 S2 MX2SA4	361	A804_829.5 P80 BE80A4	A804_829.5 P80 BX80A4	362
1.8	2589	1.9	763.9	50000	A704_763.9 S2 ME2SA4	A704_763.9 S2 MX2SA4	358	A704_763.9 P80 BE80A4	A704_763.9 P80 BX80A4	359
1.8	2583	3.1	762.1	65000	A804_762.1 S2 ME2SA4	A804_762.1 S2 MX2SA4	361	A804_762.1 P80 BE80A4	A804_762.1 P80 BX80A4	362
1.8	2560	1.1	755.4	30000	A604_755.4 S2 ME2SA4	A604_755.4 S2 MX2SA4	354	A604_755.4 P80 BE80A4	A604_755.4 P80 BX80A4	355
2.0	2390	2.1	705.1	50000	A704_705.1 S2 ME2SA4	A704_705.1 S2 MX2SA4	358	A704_705.1 P80 BE80A4	A704_705.1 P80 BX80A4	359
2.0	2384	3.4	703.5	65000	A804_703.5 S2 ME2SA4	A804_703.5 S2 MX2SA4	361	A804_703.5 P80 BE80A4	A804_703.5 P80 BX80A4	362
2.0	2363	1.2	697.3	30000	A604_697.3 S2 ME2SA4	A604_697.3 S2 MX2SA4	354	A604_697.3 P80 BE80A4	A604_697.3 P80 BX80A4	355
2.1	2185	2.3	644.6	50000	A704_644.6 S2 ME2SA4	A704_644.6 S2 MX2SA4	358	A704_644.6 P80 BE80A4	A704_644.6 P80 BX80A4	359
2.2	2151	1.3	634.6	30000	A604_634.6 S2 ME2SA4	A604_634.6 S2 MX2SA4	354	A604_634.6 P80 BE80A4	A604_634.6 P80 BX80A4	355
2.3	2017	2.5	595	50000	A704_595.0 S2 ME2SA4	A704_595.0 S2 MX2SA4	358	A704_595.0 P80 BE80A4	A704_595.0 P80 BX80A4	359
2.4	1985	1.4	585.8	30000	A604_585.8 S2 ME2SA4	A604_585.8 S2 MX2SA4	354	A604_585.8 P80 BE80A4	A604_585.8 P80 BX80A4	355
2.5	1837	1.5	542	30000	A604_542.0 S2 ME2SA4	A604_542.0 S2 MX2SA4	354	A604_542.0 P80 BE80A4	A604_542.0 P80 BX80A4	355
2.7	1747	2.9	515.4	50000	A704_515.4 S2 ME2SA4	A704_515.4 S2 MX2SA4	358	A704_515.4 P80 BE80A4	A704_515.4 P80 BX80A4	359
2.8	1696	1.7	500.3	30000	A604_500.3 S2 ME2SA4	A604_500.3 S2 MX2SA4	354	A604_500.3 P80 BE80A4	A604_500.3 P80 BX80A4	355
2.9	1632	0.9	481.6	20000	A504_481.6 S2 ME2SA4	A504_481.6 S2 MX2SA4	346	A504_481.6 P80 BE80A4	A504_481.6 P80 BX80A4	347
2.9	1612	3.1	475.8	50000	A704_475.8 S2 ME2SA4	A704_475.8 S2 MX2SA4	358	A704_475.8 P80 BE80A4	A704_475.8 P80 BX80A4	359
3.1	1514	1.0	446.8	20000	A504_446.8 S2 ME2SA4	A504_446.8 S2 MX2SA4	346	A504_446.8 P80 BE80A4	A504_446.8 P80 BX80A4	347
3.1	1486	1.9	438.4	30000	A604_438.4 S2 ME2SA4	A604_438.4 S2 MX2SA4	354	A604_438.4 P80 BE80A4	A604_438.4 P80 BX80A4	355
3.4	1378	1.1	406.4	20000	A504_406.4 S2 ME2SA4	A504_406.4 S2 MX2SA4	346	A504_406.4 P80 BE80A4	A504_406.4 P80 BX80A4	347
3.4	1372	2.0	404.7	30000	A604_404.7 S2 ME2SA4	A604_404.7 S2 MX2SA4	354	A604_404.7 P80 BE80A4	A604_404.7 P80 BX80A4	355
3.8	1239	1.2	365.6	20000	A504_365.6 S2 ME2SA4	A504_365.6 S2 MX2SA4	346	A504_365.6 P80 BE80A4	A504_365.6 P80 BX80A4	347
3.9	1190	2.4	351.2	30000	A604_351.2 S2 ME2SA4	A604_351.2 S2 MX2SA4	354	A604_351.2 P80 BE80A4	A604_351.2 P80 BX80A4	355
4.1	1127	1.3	332.6	20000	A504_332.6 S2 ME2SA4	A504_332.6 S2 MX2SA4	346	A504_332.6 P80 BE80A4	A504_332.6 P80 BX80A4	347
4.3	1099	2.5	324.2	30000	A604_324.2 S2 ME2SA4	A604_324.2 S2 MX2SA4	354	A604_324.2 P80 BE80A4	A604_324.2 P80 BX80A4	355
4.8	972	1.5	286.8	20000	A504_286.8 S2 ME2SA4	A504_286.8 S2 MX2SA4	346	A504_286.8 P80 BE80A4	A504_286.8 P80 BX80A4	347
4.8	970	2.9	286.3	30000	A604_286.3 S2 ME2SA4	A604_286.3 S2 MX2SA4	354	A604_286.3 P80 BE80A4	A604_286.3 P80 BX80A4	355
5.2	896	3.1	264.3	30000	A604_264.3 S2 ME2SA4	A604_264.3 S2 MX2SA4	354	A604_264.3 P80 BE80A4	A604_264.3 P80 BX80A4	355
5.3	910	0.9	262.5	15000	A413_262.5 S2 ME2SA4	A413_262.5 S2 MX2SA4	342	A413_262.5 P80 BE80A4	A413_262.5 P80 BX80A4	343
5.3	884	1.7	260.9	20000	A504_260.9 S2 ME2SA4	A504_260.9 S2 MX2SA4	346	A504_260.9 P80 BE80A4	A504_260.9 P80 BX80A4	347
5.7	834	1.0	240.6	15000	A413_240.6 S2 ME2SA4	A413_240.6 S2 MX2SA4	342	A413_240.6 P80 BE80A4	A413_240.6 P80 BX80A4	343
5.9	786	1.9	232.0	20000	A504_232.0 S2 ME2SA4	A504_232.0 S2 MX2SA4	346	A504_232.0 P80 BE80A4	A504_232.0 P80 BX80A4	347
6.3	753	1.1	217.4	15000	A413_217.4 S2 ME2SA4	A413_217.4 S2 MX2SA4	342	A413_217.4 P80 BE80A4	A413_217.4 P80 BX80A4	343
6.5	715	2.1	211.0	20000	A504_211.0 S2 ME2SA4	A504_211.0 S2 MX2SA4	346	A504_211.0 P80 BE80A4	A504_211.0 P80 BX80A4	347
7.0	685	1.2	197.5	15000	A413_197.5 S2 ME2SA4	A413_197.5 S2 MX2SA4	342	A413_197.5 P80 BE80A4	A413_197.5 P80 BX80A4	343
7.1	673	3.0	194.2	30000	A553_194.2 S2 ME2SA4	A553_194.2 S2 MX2SA4	350	A553_194.2 P80 BE80A4	A553_194.2 P80 BX80A4	351
7.2	660	2.3	190.6	20000	A503_190.6 S2 ME2SA4	A503_190.6 S2 ME2SA4	346	A503_190.6 P80 BE80A4	A503_190.6 P80 BX80A4	347
7.3	653	0.9	188.3	12000	A353_188.3 S2 MX2SA4	A353_188.3 S2 ME2SA4	338	A353_188.3 P80 BE80A4	A353_188.3 P80 BX80A4	339
7.5	639	1.3	184.4	15000	A413_184.4 S2 ME2SA4	A413_184.4 S2 ME2SA4	342	A413_184.4 P80 BE80A4	A413_184.4 P80 BX80A4	343
7.9	607	3.3	175.0	30000	A553_175.0 S2 MX2SA4	A553_175.0 S2 ME2SA4	350	A553_175.0 P80 BE80A4	A553_175.0 P80 BX80A4	351
8.0	601	2.5	173.4	20000	A503_173.4 S2 MX2SA4	A503_173.4 S2 ME2SA4	346	A503_173.4 P80 BE80A4	A503_173.4 P80 BX80A4	347
8.0	595	1.0	171.8	12000	A353_171.8 S2 MX2SA4	A353_171.8 S2 ME2SA4	338	A353_171.8 P80 BE80A4	A353_171.8 P80 BX80A4	339
9.0	532	2.8	154.6	20000	A503_154.6 S2 MX2SA4	A503_154.6 S2 ME2SA4	346	A503_154.6 P80 BE80A4	A503_154.6 P80 BX80A4	347
9.2	522	1.1	150.6	12000	A353_150.6 S2 ME2SA4	A353_150.6 S2 ME2SA4	338	A353_150.6 P80 BE80A4	A353_150.6 P80 BX80A4	339
9.4	509	1.7	146.9	15000	A413_146.9 S2 MX2SA4	A413_146.9 S2 ME2SA4	342	A413_146.9 P80 BE80A4	A413_146.9 P80 BX80A4	343
9.9	484	3.1	140.6	20000	A503_140.6 S2 MX2SA4	A503_140.6 S2 ME2SA4	346	A503_140.6 P80 BE80A4	A503_140.6 P80 BX80A4	347
10.1	472	1.2	136.3	12000	A353_136.3 S2 MX2SA4	A353_136.3 S2 ME2SA4	338	A353_136.3 P80 BE80A4	A353_136.3 P80 BX80A4	339
10.7	446	3.4	129.7	20000	A503_129.7 S2 MX2SA4	A503_129.7 S2 ME2SA4	346	A503_129.7 P80 BE80A4	A503_129.7 P80 BX80A4	347
11.8	405	1.4	116.9	12000	A353_116.9 S2 MX2SA4	A353_116.9 S2 ME2SA4	338	A353_116.9 P80 BE80A4	A353_116.9 P80 BX80A4	339
11.9	402	2.1	115.9	15000	A413_115.9 S2 ME2SA4	A413_115.9 S2 ME2SA4	342	A413_115.9 P80 BE80A4	A413_115.9 P80 BX80A4	343
13.1	366	1.4	105.5	12000	A353_105.5 S2 MX2SA4	A353_105.5 S2 ME2SA4	338	A353_105.5 P80 BE80A4	A353_105.5 P80 BX80A4	339
14.2	349	0.9	97.5	9600				A302_97.5 P80 BE80A4	A302_97.5 P80 BX80A4	335
14.4	342	1.6	95.6	12000	A352_95.6 S2 MX2SA4	A352_95.6 S2 ME2SA4	338	A352_95.6 P80 BE80A4	A352_95.6 P80 BX80A4	339
14.9	321	2.5	92.8	15000	A413_92.8 S2 MX2SA4	A413_92.8 S2 ME2SA4	342	A413_92.8 P80 BE80A4	A413_92.8 P80 BX80A4	343
15.9	310	1.0	86.7	9420				A302_86.7 P80 BE80A4	A302_86.7 P80 BX80A4	335
16.7	295	2.0	82.5	12000	A352_82.5 S2 MX2SA4	A352_82.5 S2 ME2SA4	338	A352_82.5 P80 BE80A4	A352_82.5 P80 BX80A4	339
17.4	284	3.0	79.2	15000	A412_79.2 S2 MX2SA4	A412_79.2 S2 ME2SA4	342	A412_79.2 P80 BE80A4	A412_79.2 P80 BX80A4	343
18.0	274	1.3	76.5	9180	A302_76.5 S2 MX2SA4	A302_76.5 S2 ME2SA4	334	A302_76.5 P80 BE80A4	A302_76.5 P80 BX80A4	335
18.6	266	2.3	74.3	12000	A352_74.3 S2 MX2SA4	A352_74.3 S2 ME2SA4	338	A352_74.3 P80 BE80A4	A352_74.3 P80 BX80A4	339
19.4	255	3.3	71.3	15000	A412_71.3 S2 MX2SA4	A412_71.3 S2 ME2SA4	342	A412_71.3 P80 BE80A4	A412_71.3 P80 BX80A4	343
20.9	236	1.6	66.0	8880	A302_66.0 S2 MX2SA4	A302_66.0 S2 ME2SA4	334	A302_66.0 P80 BE80A4	A302_66.0 P80 BX80A4	335
21.0	236	2.5	65.8	12000	A352_65.8 S2 MX2SA4	A352_65.8 S2 ME2SA4	338	A352_65.8 P80 BE80A4	A352_65.8 P80 BX80A4	339

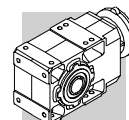


0.55 kW

n ₂	M ₂	S	i	R _{n2}				IEC		
min ⁻¹	Nm			N	IE2	IE3		IE2	IE3	
21.9	226	1.1	63.1	5840	A202_63.1 S2 MX2SA4	A202_63.1 S2 ME2SA4	330	A202_63.1 P80 BE80A4	A202_63.1 P80 BX80A4	331
22.9	216	2.8	60.4	12000	A352_60.4 S2 MX2SA4	A352_60.4 S2 ME2SA4	338	A352_60.4 P80 BE80A4	A352_60.4 P80 BX80A4	339
23.2	213	1.9	59.4	8660	A302_59.4 S2 MX2SA4	A302_59.4 S2 ME2SA4	334	A302_59.4 P80 BE80A4	A302_59.4 P80 BX80A4	335
25.4	194	3.1	54.3	12000	A352_54.3 S2 MX2SA4	A352_54.3 S2 ME2SA4	338	A352_54.3 P80 BE80A4	A352_54.3 P80 BX80A4	339
25.7	192	1.3	53.7	5670	A202_53.7 S2 MX2SA4	A202_53.7 S2 ME2SA4	330	A202_53.7 P80 BE80A4	A202_53.7 P80 BX80A4	331
26.2	189	2.2	52.7	8410	A302_52.7 S2 MX2SA4	A302_52.7 S2 ME2SA4	334	A302_52.7 P80 BE80A4	A302_52.7 P80 BX80A4	335
28.1	176	3.4	49.1	12000	A352_49.1 S2 MX2SA4	A352_49.1 S2 ME2SA4	338	A352_49.1 P80 BE80A4	A352_49.1 P80 BX80A4	339
28.6	173	1.4	48.3	5560	A202_48.3 S2 MX2SA4	A202_48.3 S2 ME2SA4	330	A202_48.3 P80 BE80A4	A202_48.3 P80 BX80A4	331
28.6	173	2.4	48.3	8230	A302_48.3 S2 MX2SA4	A302_48.3 S2 ME2SA4	334	A302_48.3 P80 BE80A4	A302_48.3 P80 BX80A4	335
30.0	163	0.9	45.4	4910	A102_45.4 S2 MX2SA4	A102_45.4 S2 ME2SA4	326	A102_45.4 P80 BE80A4	A102_45.4 P80 BX80A4	327
32.0	155	2.6	43.4	8010	A302_43.4 S2 MX2SA4	A302_43.4 S2 ME2SA4	334	A302_43.4 P80 BE80A4	A302_43.4 P80 BX80A4	335
32.0	155	1.6	43.2	5440	A202_43.2 S2 MX2SA4	A202_43.2 S2 ME2SA4	330	A202_43.2 P80 BE80A4	A202_43.2 P80 BX80A4	331
34.0	146	1.0	40.9	5500	A102_40.9 S2 MX2SA4	A102_40.9 S2 ME2SA4	326	A102_40.9 P80 BE80A4	A102_40.9 P80 BX80A4	327
35.0	142	1.8	39.6	5340	A202_39.6 S2 MX2SA4	A202_39.6 S2 ME2SA4	330	A202_39.6 P80 BE80A4	A202_39.6 P80 BX80A4	331
35.0	141	2.9	39.3	7800	A302_39.3 S2 MX2SA4	A302_39.3 S2 ME2SA4	334	A302_39.3 P80 BE80A4	A302_39.3 P80 BX80A4	335
38.0	131	3.1	36.6	7660	A302_36.6 S2 MX2SA4	A302_36.6 S2 ME2SA4	334	A302_36.6 P80 BE80A4	A302_36.6 P80 BX80A4	335
39.0	127	2.0	35.4	5200	A202_35.4 S2 MX2SA4	A202_35.4 S2 ME2SA4	330	A202_35.4 P80 BE80A4	A202_35.4 P80 BX80A4	331
39.0	126	1.2	35.1	4700	A102_35.1 S2 MX2SA4	A102_35.1 S2 ME2SA4	326	A102_35.1 P80 BE80A4	A102_35.1 P80 BX80A4	327
41.0	120	3.4	33.4	7480	A302_33.4 S2 MX2SA4	A302_33.4 S2 ME2SA4	334	A302_33.4 P80 BE80A4	A302_33.4 P80 BX80A4	335
43.0	115	1.3	32.2	5490	A102_32.2 S2 MX2SA4	A102_32.2 S2 ME2SA4	326	A102_32.2 P80 BE80A4	A102_32.2 P80 BX80A4	327
44.0	112	2.2	31.3	5060	A202_31.3 S2 MX2SA4	A202_31.3 S2 ME2SA4	330	A202_31.3 P80 BE80A4	A202_31.3 P80 BX80A4	331
47.0	105	2.4	29.2	4970	A202_29.2 S2 MX2SA4	A202_29.2 S2 ME2SA4	330	A202_29.2 P80 BE80A4	A202_29.2 P80 BX80A4	331
48.0	102	1	28.6	2550	A052_28.6 S2 MX2SA4	A052_28.6 S2 ME2SA4	323	A052_28.6 P80 BE80A4	A052_28.6 P80 BX80A4	323
48.0	102	1.5	28.6	4510	A102_28.6 S2 MX2SA4	A102_28.6 S2 ME2SA4	326	A102_28.6 P80 BE80A4	A102_28.6 P80 BX80A4	327
52.0	95	2.6	26.5	4850	A202_26.5 S2 MX2SA4	A202_26.5 S2 ME2SA4	330	A202_26.5 P80 BE80A4	A202_26.5 P80 BX80A4	331
54.0	91	1.1	25.5	2510	A052_25.5 S2 MX2SA4	A052_25.5 S2 ME2SA4	323	A052_25.5 P80 BE80A4	A052_25.5 P80 BX80A4	323
54.0	91	1.6	25.5	5230	A102_25.5 S2 MX2SA4	A102_25.5 S2 ME2SA4	326	A102_25.5 P80 BE80A4	A102_25.5 P80 BX80A4	327
58.0	85	1.2	23.8	2490	A052_23.8 S2 MX2SA4	A052_23.8 S2 ME2SA4	323	A052_23.8 P80 BE80A4	A052_23.8 P80 BX80A4	323
58.0	85	1.8	23.8	4330	A102_23.8 S2 MX2SA4	A102_23.8 S2 ME2SA4	326	A102_23.8 P80 BE80A4	A102_23.8 P80 BX80A4	327
60.0	83	3	23.1	4690	A202_23.1 S2 MX2SA4	A202_23.1 S2 ME2SA4	330	A202_23.1 P80 BE80A4	A202_23.1 P80 BX80A4	331
65.0	76	1.3	21.4	2450	A052_21.4 S2 MX2SA4	A052_21.4 S2 ME2SA4	323	A052_21.4 P80 BE80A4	A052_21.4 P80 BX80A4	323
65.0	76	2	21.4	5020	A102_21.4 S2 MX2SA4	A102_21.4 S2 ME2SA4	326	A102_21.4 P80 BE80A4	A102_21.4 P80 BX80A4	327
65.0	76	3.3	21.2	4590	A202_21.2 S2 MX2SA4	A202_21.2 S2 ME2SA4	330	A202_21.2 P80 BE80A4	A202_21.2 P80 BX80A4	331
74.0	66	1.5	18.6	2400	A052_18.6 S2 MX2SA4	A052_18.6 S2 ME2SA4	323	A052_18.6 P80 BE80A4	A052_18.6 P80 BX80A4	323
74.0	66	2.3	18.6	4090	A102_18.6 S2 MX2SA4	A102_18.6 S2 ME2SA4	326	A102_18.6 P80 BE80A4	A102_18.6 P80 BX80A4	327
84.0	59	1.7	16.4	2340	A052_16.4 S2 MX2SA4	A052_16.4 S2 ME2SA4	323	A052_16.4 P80 BE80A4	A052_16.4 P80 BX80A4	323
84.0	59	2.5	16.4	4710	A102_16.4 S2 MX2SA4	A102_16.4 S2 ME2SA4	326	A102_16.4 P80 BE80A4	A102_16.4 P80 BX80A4	327
99.0	50	2	13.9	2270	A052_13.9 S2 MX2SA4	A052_13.9 S2 ME2SA4	323	A052_13.9 P80 BE80A4	A052_13.9 P80 BX80A4	323
99.0	50	3	13.9	3800	A102_13.9 S2 MX2SA4	A102_13.9 S2 ME2SA4	326	A102_13.9 P80 BE80A4	A102_13.9 P80 BX80A4	327
112.0	44.0	2.3	12.3	2220	A052_12.3 S2 ME2SA4	A052_12.3 S2 MX2SA4	323	A052_12.3 P80 BE80A4	A052_12.3 P80 BX80A4	323
112.0	44.0	3.2	12.3	3670	A102_12.3 S2 ME2SA4	A102_12.3 S2 MX2SA4	326	A102_12.3 P80 BE80A4	A102_12.3 P80 BX80A4	327
131.0	38.0	2.6	10.6	2130	A052_10.6 S2 ME2SA4	A052_10.6 S2 MX2SA4	323	A052_10.6 P80 BE80A4	A052_10.6 P80 BX80A4	323
144.0	34.0	2.9	9.6	2100	A052_9.6 S2 ME2SA4	A052_9.6 S2 MX2SA4	323	A052_9.6 P80 BE80A4	A052_9.6 P80 BX80A4	323
162.0	30.0	3.3	8.5	2030	A052_8.5 S2 ME2SA4	A052_8.5 S2 MX2SA4	323	A052_8.5 P80 BE80A4	A052_8.5 P80 BX80A4	323
191.0	26.0	3.9	7.2	1950	A052_7.2 S2 ME2SA4	A052_7.2 S2 MX2SA4	323	A052_7.2 P80 BE80A4	A052_7.2 P80 BX80A4	323
218.0	23.0	4.4	6.3	1880	A052_6.3 S2 ME2SA4	A052_6.3 S2 MX2SA4	323	A052_6.3 P80 BE80A4	A052_6.3 P80 BX80A4	323
252.0	19.6	4.9	5.5	1810	A052_5.5 S2 ME2SA4	A052_5.5 S2 MX2SA4	323	A052_5.5 P80 BE80A4	A052_5.5 P80 BX80A4	323

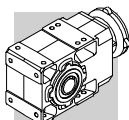
0.55 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC	IE3
0.8	5813.0	0.9	1715.0	50000		A704_1715 P80 BXN80MA4	359
0.9	5532.0	2.5	1632.0	75000		A904_1632 P80 BXN80MA4	365
0.9	5365.0	0.9	1583.0	50000		A704_1583 P80 BXN80MA4	359
0.9	5279.0	1.5	1558.0	65000		A804_1558 P80 BXN80MA4	362
0.9	5070.0	2.8	1507.0	75000		A904_1507 P80 BXN80MA4	365
1.0	4873.0	1.6	1438.0	65000		A804_1438 P80 BXN80MA4	362
1.0	4561.0	1.1	1346.0	50000		A704_1346 P80 BXN80MA4	359
1.0	4541.0	1.8	1340.0	65000		A804_1340 P80 BXN80MA4	362
1.0	4455.0	3.1	1324.0	75000		A904_1324 P80 BXN80MA4	365
1.1	4211.0	1.2	1242.0	50000		A704_1242 P80 BXN80MA4	359



0.55 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
1.1	4192.0	1.9	1237.0	65000		A804_1237 P80 BXN80MA4 362
1.1	4112.0	3.4	1222.0	75000		A904_1222 P80 BXN80MA4 365
1.2	3937.0	1.3	1161.0	50000		A704_1161 P80 BXN80MA4 359
1.3	3677.0	2.2	1085.0	65000		A804_1085 P80 BXN80MA4 362
1.3	3634.0	1.4	1072.0	50000		A704_1072 P80 BXN80MA4 359
1.4	3394.0	2.4	1001.0	65000		A804_1001 P80 BXN80MA4 362
1.5	3140.0	1.6	926.5	50000		A704_926.5 P80 BXN80MA4 359
1.5	3046	2.6	898.7	65000		A804_898.7 P80 BXN80MA4 362
1.6	2899	1.7	855.3	50000		A704_855.3 P80 BXN80MA4 359
1.7	2811	2.8	829.5	65000		A804_829.5 P80 BXN80MA4 362
1.8	2589	1.9	763.9	50000		A704_763.9 P80 BXN80MA4 359
1.8	2583	3.1	762.1	65000		A804_762.1 P80 BXN80MA4 362
1.8	2560	1.1	755.4	30000		A604_755.4 P80 BXN80MA4 355
2.0	2390	2.1	705.1	50000		A704_705.1 P80 BXN80MA4 359
2.0	2384	3.4	703.5	65000		A804_703.5 P80 BXN80MA4 362
2.0	2363	1.2	697.3	30000		A604_697.3 P80 BXN80MA4 355
2.1	2185	2.3	644.6	50000		A704_644.6 P80 BXN80MA4 359
2.2	2151	1.3	634.6	30000		A604_634.6 P80 BXN80MA4 355
2.3	2017	2.5	595.0	50000		A704_595.0 P80 BXN80MA4 359
2.4	1985	1.4	585.8	30000		A604_585.8 P80 BXN80MA4 355
2.5	1837	1.5	542.0	30000		A604_542.0 P80 BXN80MA4 355
2.7	1747	2.9	515.4	50000		A704_515.4 P80 BXN80MA4 359
2.8	1696	1.7	500.3	30000		A604_500.3 P80 BXN80MA4 355
2.9	1632	0.9	481.6	20000		A504_481.6 P80 BXN80MA4 347
2.9	1612	3.1	475.8	50000		A704_475.8 P80 BXN80MA4 359
3.1	1514	1.0	446.8	20000		A504_446.8 P80 BXN80MA4 347
3.1	1486	1.9	438.4	30000		A604_438.4 P80 BXN80MA4 355
3.4	1378	1.1	406.4	20000		A504_406.4 P80 BXN80MA4 347
3.4	1372	2.0	404.7	30000		A604_404.7 P80 BXN80MA4 355
3.8	1239	1.2	365.6	20000		A504_365.6 P80 BXN80MA4 347
3.9	1190	2.4	351.2	30000		A604_351.2 P80 BXN80MA4 355
4.1	1127	1.3	332.6	20000		A504_332.6 P80 BXN80MA4 347
4.3	1099	2.5	324.2	30000		A604_324.2 P80 BXN80MA4 355
4.8	972	1.5	286.8	20000		A504_286.8 P80 BXN80MA4 347
4.8	970	2.9	286.3	30000		A604_286.3 P80 BXN80MA4 355
5.2	896	3.1	264.3	30000	A413_262.5 S20 MXN20MA4 342	A604_264.3 P80 BXN80MA4 355
5.3	910	0.9	262.5	15000		A413_262.5 P80 BXN80MA4 343
5.3	884	1.7	260.9	20000		A504_260.9 P80 BXN80MA4 347
5.7	834	1.0	240.6	15000	A413_240.6 S20 MXN20MA4 342	A413_240.6 P80 BXN80MA4 343
5.9	786	1.9	232.0	20000		A504_232.0 P80 BXN80MA4 347
6.3	753	1.1	217.4	15000	A413_217.4 S20 MXN20MA4 342	A413_217.4 P80 BXN80MA4 343
6.5	715	2.1	211.0	20000		A504_211.0 P80 BXN80MA4 347
7.0	685	1.2	197.5	15000	A413_197.5 S20 MXN20MA4 342	A413_197.5 P80 BXN80MA4 343
7.1	673	3.0	194.2	30000		A553_194.2 P80 BXN80MA4 351
7.2	660	2.3	190.6	20000		A503_190.6 P80 BXN80MA4 347
7.3	653	0.9	188.3	12000	A353_188.3 S20 MXN20MA4 338	A353_188.3 P80 BXN80MA4 339
7.5	639	1.3	184.4	15000	A413_184.4 S20 MXN20MA4 342	A413_184.4 P80 BXN80MA4 343
7.9	607	3.3	175.0	30000		A553_175.0 P80 BXN80MA4 351
8.0	601	2.5	173.4	20000		A503_173.4 P80 BXN80MA4 347
8.0	595	1.0	171.8	12000	A353_171.8 S20 MXN20MA4 338	A353_171.8 P80 BXN80MA4 339
9.0	532	2.8	154.6	20000		A503_154.6 P80 BXN80MA4 347
9.2	522	1.1	150.6	12000	A353_150.6 S20 MXN20MA4 338	A353_150.6 P80 BXN80MA4 339
9.4	509	1.7	146.9	15000	A413_146.9 S20 MXN20MA4 342	A413_146.9 P80 BXN80MA4 343
9.9	484	3.1	140.6	20000		A503_140.6 P80 BXN80MA4 347
10.1	472	1.2	136.3	12000	A353_136.3 S20 MXN20MA4 338	A353_136.3 P80 BXN80MA4 339
10.7	446	3.4	129.7	20000		A503_129.7 P80 BXN80MA4 347
11.8	405	1.4	116.9	12000	A353_116.9 S20 MXN20MA4 338	A353_116.9 P80 BXN80MA4 339
11.9	402	2.1	115.9	15000	A413_115.9 S20 MXN20MA4 342	A413_115.9 P80 BXN80MA4 343
13.1	366	1.4	105.5	12000	A353_105.5 S20 MXN20MA4 338	A353_105.5 P80 BXN80MA4 339
14.2	349	0.9	97.5	9600		A302_97.5 P80 BXN80MA4 335
14.4	342	1.6	95.6	12000		A352_95.6 P80 BXN80MA4 339
14.9	321	2.5	92.8	15000	A413_92.8 S20 MXN20MA4 342	A413_92.8 P80 BXN80MA4 343
15.9	310	1.0	86.7	9420		A302_86.7 P80 BXN80MA4 335
16.7	295	2.0	82.5	12000		A352_82.5 P80 BXN80MA4 339
17.4	284	3.0	79.2	15000		A412_79.2 P80 BXN80MA4 343

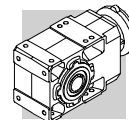


0.55 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
18.0	274	1.3	76.5	9180		A302_76.5 P80 BXN80MA4 335
18.6	266	2.3	74.3	12000		A352_74.3 P80 BXN80MA4 339
19.4	255	3.3	71.3	15000		A412_71.3 P80 BXN80MA4 343
20.9	236	1.6	66.0	8880		A302_66.0 P80 BXN80MA4 335
21.0	236	2.5	65.8	12000		A352_65.8 P80 BXN80MA4 339
21.9	226	1.1	63.1	5840	A202_63.1 S20 MXN20MA4 330	A202_63.1 P80 BXN80MA4 331
22.9	216	2.8	60.4	12000		A352_60.4 P80 BXN80MA4 339
23.2	213.0	1.9	59.4	8660		A302_59.4 P80 BXN80MA4 335
25.4	194.0	3.1	54.3	12000		A352_54.3 P80 BXN80MA4 339
25.7	192.0	1.3	53.7	5670	A202_53.7 S20 MXN20MA4 330	A202_53.7 P80 BXN80MA4 331
26.2	189.0	2.2	52.7	8410		A302_52.7 P80 BXN80MA4 335
28.1	176.0	3.4	49.1	12000		A352_49.1 P80 BXN80MA4 339
28.6	173.0	1.4	48.3	5560	A202_48.3 S20 MXN20MA4 330	A202_48.3 P80 BXN80MA4 331
28.6	173.0	2.4	48.3	8230		A302_48.3 P80 BXN80MA4 335
30.0	163.0	0.9	45.4	4910	A102_45.4 S20 MXN20MA4 326	A102_45.4 P80 BXN80MA4 327
32.0	155.0	2.6	43.4	8010		A302_43.4 P80 BXN80MA4 335
32.0	155.0	1.6	43.2	5440	A202_43.2 S20 MXN20MA4 330	A202_43.2 P80 BXN80MA4 331
34.0	146.0	1.0	40.9	5500	A102_40.9 S20 MXN20MA4 326	A102_40.9 P80 BXN80MA4 327
35.0	142.0	1.8	39.6	5340	A202_39.6 S20 MXN20MA4 330	A202_39.6 P80 BXN80MA4 331
35.0	141.0	2.9	39.3	7800		A302_39.3 P80 BXN80MA4 335
38.0	131.0	3.1	36.6	7660		A302_36.6 P80 BXN80MA4 335
39.0	127.0	2.0	35.4	5200	A202_35.4 S20 MXN20MA4 330	A202_35.4 P80 BXN80MA4 331
39.0	126.0	1.2	35.1	4700	A102_35.1 S20 MXN20MA4 326	A102_35.1 P80 BXN80MA4 327
41.0	120.0	3.4	33.4	7480		A302_33.4 P80 BXN80MA4 335
43.0	115.0	1.3	32.2	5490	A102_32.2 S20 MXN20MA4 326	A102_32.2 P80 BXN80MA4 327
44.0	112.0	2.2	31.3	5060	A202_31.3 S20 MXN20MA4 330	A202_31.3 P80 BXN80MA4 331
47.0	105.0	2.4	29.2	4970	A202_29.2 S20 MXN20MA4 330	A202_29.2 P80 BXN80MA4 331
48.0	102.0	1.0	28.6	2550		A052_28.6 P80 BXN80MA4 323
48.0	102.0	1.5	28.6	4510	A102_28.6 S20 MXN20MA4 326	A102_28.6 P80 BXN80MA4 327
52.0	95.0	2.6	26.5	4850	A202_26.5 S20 MXN20MA4 330	A202_26.5 P80 BXN80MA4 331
54.0	91.0	1.1	25.5	2510		A052_25.5 P80 BXN80MA4 323
54.0	91.0	1.6	25.5	5230	A102_25.5 S20 MXN20MA4 326	A102_25.5 P80 BXN80MA4 327
58.0	85.0	1.2	23.8	2490		A052_23.8 P80 BXN80MA4 323
58.0	85.0	1.8	23.8	4330	A102_23.8 S20 MXN20MA4 326	A102_23.8 P80 BXN80MA4 327
60.0	83.0	3.0	23.1	4690	A202_23.1 S20 MXN20MA4 330	A202_23.1 P80 BXN80MA4 331
65.0	76.0	1.3	21.4	2450		A052_21.4 P80 BXN80MA4 323
65.0	76.0	2.0	21.4	5020	A102_21.4 S20 MXN20MA4 326	A102_21.4 P80 BXN80MA4 327
65.0	76.0	3.3	21.2	4590	A202_21.2 S20 MXN20MA4 330	A202_21.2 P80 BXN80MA4 331
74.0	66.0	1.5	18.6	2400		A052_18.6 P80 BXN80MA4 323
74.0	66.0	2.3	18.6	4090	A102_18.6 S20 MXN20MA4 326	A102_18.6 P80 BXN80MA4 327
84.0	59.0	1.7	16.4	2340		A052_16.4 P80 BXN80MA4 323
84.0	59.0	2.5	16.4	4710	A102_16.4 S20 MXN20MA4 326	A102_16.4 P80 BXN80MA4 327
99.0	50.0	2.0	13.9	2270		A052_13.9 P80 BXN80MA4 323
99.0	50.0	3.0	13.9	3800	A102_13.9 S20 MXN20MA4 326	A102_13.9 P80 BXN80MA4 327
112.0	44.0	2.3	12.3	2220		A052_12.3 P80 BXN80MA4 323
112.0	44.0	3.2	12.3	3670	A102_12.3 S20 MXN20MA4 326	A102_12.3 P80 BXN80MA4 327
131.0	38.0	2.6	10.6	2130		A052_10.6 P80 BXN80MA4 323
144.0	34.0	2.9	9.6	2100		A052_9.6 P80 BXN80MA4 323
162.0	30.0	3.3	8.5	2030		A052_8.5 P80 BXN80MA4 323
191.0	26.0	3.9	7.2	1950		A052_7.2 P80 BXN80MA4 323
218.0	23.0	4.4	6.3	1880		A052_6.3 P80 BXN80MA4 323
252.0	19.6	4.9	5.5	1810		A052_5.5 P80 BXN80MA4 323

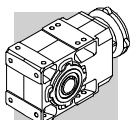
0.75 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC IE2	IE3
0.58	11068	1.3	1632	75000	A904_1632 S3 ME3SA6	364	A904_1632 P90 BE90S6	365
0.62	10220	1.4	1507	75000	A904_1507 S3 ME3SA6	364	A904_1507 P90 BE90S6	365
0.71	8979	1.6	1324	75000	A904_1324 S3 ME3SA6	364	A904_1324 P90 BE90S6	365
0.77	8287	1.7	1222	75000	A904_1222 S3 ME3SA6	364	A904_1222 P90 BE90S6	365



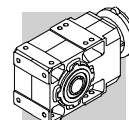
0.75 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2		IE3		IEC	
					IE2	IE3	IE2	IE3	IE2	IE3
0.88	7264	1.9	1632	75000	A904_1632 S2 ME2SB4	A904_1632 S2 MX2SB4	364	A904_1632 P80 BE80B4	A904_1632 P80 BX80B4	365
0.92	6932	1.2	1558	65000	A804_1558 S2 ME2SB4	A804_1558 S2 MX2SB4	361	A804_1558 P80 BE80B4	A804_1558 P80 BX80B4	362
0.95	6705	2.1	1507	75000	A904_1507 S2 ME2SB4	A904_1507 S2 MX2SB4	364	A904_1507 P80 BE80B4	A904_1507 P80 BX80B4	365
0.99	6398	1.3	1438	65000	A804_1438 S2 ME2SB4	A804_1438 S2 MX2SB4	361	A804_1438 P80 BE80B4	A804_1438 P80 BX80B4	362
1.1	5963	1.3	1340	65000	A804_1340 S2 ME2SB4	A804_1340 S2 MX2SB4	361	A804_1340 P80 BE80B4	A804_1340 P80 BX80B4	362
1.1	5892	2.4	1324	75000	A904_1324 S2 ME2SB4	A904_1324 S2 MX2SB4	364	A904_1324 P80 BE80B4	A904_1324 P80 BX80B4	365
1.2	5528	0.9	1242	50000	A704_1242 S2 ME2SB4	A704_1242 S2 MX2SB4	358	A704_1242 P80 BE80B4	A704_1242 P80 BX80B4	359
1.2	5504	1.5	1237	65000	A804_1237 S2 ME2SB4	A804_1237 S2 MX2SB4	361	A804_1237 P80 BE80B4	A804_1237 P80 BX80B4	362
1.2	5439	2.6	1222	75000	A904_1222 S2 ME2SB4	A904_1222 S2 MX2SB4	364	A904_1222 P80 BE80B4	A904_1222 P80 BX80B4	365
1.2	5169	1.0	1161	50000	A704_1161 S2 ME2SB4	A704_1161 S2 MX2SB4	358	A704_1161 P80 BE80B4	A704_1161 P80 BX80B4	359
1.3	4942	2.8	1111	75000	A904_1111 S2 ME2SB4	A904_1111 S2 MX2SB4	364	A904_1111 P80 BE80B4	A904_1111 P80 BX80B4	365
1.3	4828	1.7	1085	65000	A804_1085 S2 ME2SB4	A804_1085 S2 MX2SB4	361	A804_1085 P80 BE80B4	A804_1085 P80 BX80B4	362
1.3	4771	1.0	1072	50000	A704_1072 S2 ME2SB4	A704_1072 S2 MX2SB4	358	A704_1072 P80 BE80B4	A704_1072 P80 BX80B4	359
1.4	4562	3.1	1025	75000	A904_1025 S2 ME2SB4	A904_1025 S2 MX2SB4	364	A904_1025 P80 BE80B4	A904_1025 P80 BX80B4	365
1.4	4456	1.8	1001	65000	A804_1001 S2 ME2SB4	A804_1001 S2 MX2SB4	361	A804_1001 P80 BE80B4	A804_1001 P80 BX80B4	362
1.5	4170	3.4	937.2	75000	A904_937.2 S2 ME2SB4	A904_937.2 S2 MX2SB4	364	A904_937.2 P80 BE80B4	A904_937.2 P80 BX80B4	365
1.5	4123	1.2	926.5	50000	A704_926.5 S2 ME2SB4	A704_926.5 S2 MX2SB4	358	A704_926.5 P80 BE80B4	A704_926.5 P80 BX80B4	359
1.6	3999	2.0	898.7	65000	A804_898.7 S2 ME2SB4	A804_898.7 S2 MX2SB4	361	A804_898.7 P80 BE80B4	A804_898.7 P80 BX80B4	362
1.7	3806	1.3	855.3	50000	A704_855.3 S2 ME2SB4	A704_855.3 S2 MX2SB4	358	A704_855.3 P80 BE80B4	A704_855.3 P80 BX80B4	359
1.7	3691	2.2	829.5	65000	A804_829.5 S2 ME2SB4	A804_829.5 S2 MX2SB4	361	A804_829.5 P80 BE80B4	A804_829.5 P80 BX80B4	362
1.9	3399	1.5	763.9	50000	A704_763.9 S2 ME2SB4	A704_763.9 S2 MX2SB4	358	A704_763.9 P80 BE80B4	A704_763.9 P80 BX80B4	359
1.9	3391	2.4	762.1	65000	A804_762.1 S2 ME2SB4	A804_762.1 S2 MX2SB4	361	A804_762.1 P80 BE80B4	A804_762.1 P80 BX80B4	362
2.0	3138	1.6	705.1	50000	A704_705.1 S2 ME2SB4	A704_705.1 S2 MX2SB4	358	A704_705.1 P80 BE80B4	A704_705.1 P80 BX80B4	359
2.0	3130	2.6	703.5	65000	A804_703.5 S2 ME2SB4	A804_703.5 S2 MX2SB4	361	A804_703.5 P80 BE80B4	A804_703.5 P80 BX80B4	362
2.1	3103	0.9	697.3	30000	A604_697.3 S2 ME2SB4	A604_697.3 S2 MX2SB4	354	A604_697.3 P80 BE80B4	A604_697.3 P80 BX80B4	355
2.2	2869	1.7	644.6	50000	A704_644.6 S2 ME2SB4	A704_644.6 S2 MX2SB4	358	A704_644.6 P80 BE80B4	A704_644.6 P80 BX80B4	359
2.3	2824	1.0	634.6	30000	A604_634.6 S2 ME2SB4	A604_634.6 S2 MX2SB4	354	A604_634.6 P80 BE80B4	A604_634.6 P80 BX80B4	355
2.4	2702	3.0	607.2	65000	A804_607.2 S2 ME2SB4	A804_607.2 S2 MX2SB4	361	A804_607.2 P80 BE80B4	A804_607.2 P80 BX80B4	362
2.4	2648	1.9	595.0	50000	A704_595.0 S2 ME2SB4	A704_595.0 S2 MX2SB4	358	A704_595.0 P80 BE80B4	A704_595.0 P80 BX80B4	359
2.4	2607	1.1	585.8	30000	A604_585.8 S2 ME2SB4	A604_585.8 S2 MX2SB4	354	A604_585.8 P80 BE80B4	A604_585.8 P80 BX80B4	355
2.6	2494	3.2	560.5	65000	A804_560.5 S2 ME2SB4	A804_560.5 S2 MX2SB4	361	A804_560.5 P80 BE80B4	A804_560.5 P80 BX80B4	362
2.6	2412	1.2	542.0	30000	A604_542.0 S2 ME2SB4	A604_542.0 S2 MX2SB4	354	A604_542.0 P80 BE80B4	A604_542.0 P80 BX80B4	355
2.8	2294	2.2	515.4	50000	A704_515.4 S2 ME2SB4	A704_515.4 S2 MX2SB4	358	A704_515.4 P80 BE80B4	A704_515.4 P80 BX80B4	359
2.9	2226	1.3	500.3	30000	A604_500.3 S2 ME2SB4	A604_500.3 S2 MX2SB4	354	A604_500.3 P80 BE80B4	A604_500.3 P80 BX80B4	355
3.0	2117	2.4	475.8	50000	A704_475.8 S2 ME2SB4	A704_475.8 S2 MX2SB4	358	A704_475.8 P80 BE80B4	A704_475.8 P80 BX80B4	359
3.3	1951	1.4	438.4	30000	A604_438.4 S2 ME2SB4	A604_438.4 S2 MX2SB4	354	A604_438.4 P80 BE80B4	A604_438.4 P80 BX80B4	355
3.5	1842	1.1	414.0	30000	A554_414.0 S2 ME2SB4	A554_414.0 S2 MX2SB4	350	A554_414.0 P80 BE80B4	A554_414.0 P80 BX80B4	351
3.5	1801	1.6	404.7	30000	A604_404.7 S2 ME2SB4	A604_404.7 S2 MX2SB4	354	A604_404.7 P80 BE80B4	A604_404.7 P80 BX80B4	355
3.6	1781	2.8	400.2	50000	A704_400.2 S2 ME2SB4	A704_400.2 S2 MX2SB4	358	A704_400.2 P80 BE80B4	A704_400.2 P80 BX80B4	359
3.9	1644	3.0	369.4	50000	A704_369.4 S2 ME2SB4	A704_369.4 S2 MX2SB4	358	A704_369.4 P80 BE80B4	A704_369.4 P80 BX80B4	359
3.9	1627	0.9	365.6	20000	A504_365.6 S2 ME2SB4	A504_365.6 S2 MX2SB4	346	A504_365.6 P80 BE80B4	A504_365.6 P80 BX80B4	347
4.1	1563	1.8	351.2	30000	A604_351.2 S2 ME2SB4	A604_351.2 S2 MX2SB4	354	A604_351.2 P80 BE80B4	A604_351.2 P80 BX80B4	355
4.3	1480	1.0	332.6	20000	A504_332.6 S2 ME2SB4	A504_332.6 S2 MX2SB4	346	A504_332.6 P80 BE80B4	A504_332.6 P80 BX80B4	347
4.4	1445	1.4	324.7	30000	A554_324.7 S2 ME2SB4	A554_324.7 S2 MX2SB4	350	A554_324.7 P80 BE80B4	A554_324.7 P80 BX80B4	351
4.4	1443	1.9	324.2	30000	A604_324.2 S2 ME2SB4	A604_324.2 S2 MX2SB4	354	A604_324.2 P80 BE80B4	A604_324.2 P80 BX80B4	355
4.5	1408	3.6	316.4	50000	A704_316.4 S2 ME2SB4	A704_316.4 S2 MX2SB4	358	A704_316.4 P80 BE80B4	A704_316.4 P80 BX80B4	359
5.0	1276	1.2	286.8	20000	A504_286.8 S2 ME2SB4	A504_286.8 S2 MX2SB4	346	A504_286.8 P80 BE80B4	A504_286.8 P80 BX80B4	347
5.0	1274	2.2	286.3	30000	A604_286.3 S2 ME2SB4	A604_286.3 S2 MX2SB4	354	A604_286.3 P80 BE80B4	A604_286.3 P80 BX80B4	355
5.4	1176	2.4	264.3	30000	A604_264.3 S2 ME2SB4	A604_264.3 S2 MX2SB4	354	A604_264.3 P80 BE80B4	A604_264.3 P80 BX80B4	355
5.4	1169	1.7	262.6	30000	A554_262.6 S2 ME2SB4	A554_262.6 S2 MX2SB4	350	A554_262.6 P80 BE80B4	A554_262.6 P80 BX80B4	351
5.5	1161	1.3	260.9	20000	A504_260.9 S2 ME2SB4	A504_260.9 S2 MX2SB4	346	A504_260.9 P80 BE80B4	A504_260.9 P80 BX80B4	347
6.2	1032	1.5	232.0	20000	A504_232.0 S2 ME2SB4	A504_232.0 S2 MX2SB4	346	A504_232.0 P80 BE80B4	A504_232.0 P80 BX80B4	347
6.3	1006	2.8	226.1	30000	A604_226.1 S2 ME2SB4	A604_226.1 S2 MX2SB4	354	A604_226.1 P80 BE80B4	A604_226.1 P80 BX80B4	355
6.8	939	1.6	211.0	20000	A504_211.0 S2 ME2SB4	A504_211.0 S2 MX2SB4	346	A504_211.0 P80 BE80B4	A504_211.0 P80 BX80B4	347
6.9	929	3.0	208.7	30000	A604_208.7 S2 ME2SB4	A604_208.7 S2 MX2SB4	354	A604_208.7 P80 BE80B4	A604_208.7 P80 BX80B4	355
6.9	926	2.1	208.1	30000	A554_208.1 S2 ME2SB4	A554_208.1 S2 MX2SB4	350	A554_208.1 P80 BE80B4	A554_208.1 P80 BX80B4	351
7.2	899	0.9	197.5	15000	A413_197.5 S2 ME2SB4	A413_197.5 S2 MX2SB4	342	A413_197.5 P80 BE80B4	A413_197.5 P80 BX80B4	343
7.4	884	2.3	194.2	30000	A553_194.2 S2 ME2SB4	A553_194.2 S2 MX2SB4	350	A553_194.2 P80 BE80B4	A553_194.2 P80 BX80B4	351
7.5	867	1.7	190.6	20000	A503_190.6 S2 ME2SB4	A503_190.6 S2 MX2SB4	346	A503_190.6 P80 BE80B4	A503_190.6 P80 BX80B4	347
7.7	845	3.3	185.8	30000	A603_185.8 S2 ME2SB4	A603_185.8 S2 MX2SB4	354	A603_185.8 P80 BE80B4	A603_185.8 P80 BX80B4	355
7.8	839	1.0	184.4	15000	A413_184.4 S2 ME2SB4	A413_184.4 S2 MX2SB4	342	A413_184.4 P80 BE80B4	A413_184.4 P80 BX80B4	343
8.2	796	2.5	175.0	30000	A553_175.0 S2 ME2SB4	A553_175.0 S2 MX2SB4	350	A553_175.0 P80 BE80B4	A553_175.0 P80 BX80B4	351
8.2	789	1.9	173.4	20000	A503_173.4 S2 ME2SB4	A503_173.4 S2 MX2SB4	346	A503_173.4 P80 BE80B4	A503_173.4 P80 BX80B4	347
8.3	780	3.6	171.5	30000	A603_171.5 S2 ME2SB4	A603_171.5 S2 MX2SB4	354	A603_171.5 P80 BE80B4	A603_171.5 P80 BX80B4	355
8.9	730	2.7	160.4	30000	A553_160.4 S2 ME2SB4	A553_160.4 S2 MX2SB4	350	A553_160.4 P80 BE80B4	A553_160.4 P80 BX80B4	351



0.75 kW

n2	M2	S	i	Rn2				IEC		
min-1	Nm			N	IE2	IE3		IE2	IE3	
9.3	703	2.1	154.6	20000	A503_154.6 S2 ME2SB4	A503_154.6 S2 MX2SB4	346	A503_154.6 P80 BE80B4	A503_154.6 P80 BX80B4	347
9.7	668	1.3	146.9	15000	A413_146.9 S2 ME2SB4	A413_146.9 S2 MX2SB4	342	A413_146.9 P80 BE80B4	A413_146.9 P80 BX80B4	343
9.7	668	3.0	146.8	30000	A553_146.8 S2 ME2SB4	A553_146.8 S2 MX2SB4	350	A553_146.8 P80 BE80B4	A553_146.8 P80 BX80B4	351
10.2	640	2.3	140.6	20000	A503_140.6 S2 ME2SB4	A503_140.6 S2 MX2SB4	346	A503_140.6 P80 BE80B4	A503_140.6 P80 BX80B4	347
10.5	620	0.9	136.3	12000	A353_136.3 S2 ME2SB4	A353_136.3 S2 MX2SB4	338	A353_136.3 P80 BE80B4	A353_136.3 P80 BX80B4	339
10.8	604	3.3	132.7	30000	A553_132.7 S2 ME2SB4	A553_132.7 S2 MX2SB4	350	A553_132.7 P80 BE80B4	A553_132.7 P80 BX80B4	351
11.0	590	2.5	129.7	20000	A503_129.7 S2 ME2SB4	A503_129.7 S2 MX2SB4	346	A503_129.7 P80 BE80B4	A503_129.7 P80 BX80B4	347
11.5	564	3.5	123.9	30000	A553_123.9 S2 ME2SB4	A553_123.9 S2 MX2SB4	350	A553_123.9 P80 BE80B4	A553_123.9 P80 BX80B4	351
12.1	537	2.8	118.0	20000	A503_118.0 S2 ME2SB4	A503_118.0 S2 MX2SB4	346	A503_118.0 P80 BE80B4	A503_118.0 P80 BX80B4	347
12.2	532	1.1	116.9	12000	A353_116.9 S2 ME2SB4	A353_116.9 S2 MX2SB4	338	A353_116.9 P80 BE80B4	A353_116.9 P80 BX80B4	339
12.3	527	1.6	115.9	15000	A413_115.9 S2 ME2SB4	A413_115.9 S2 MX2SB4	342	A413_115.9 P80 BE80B4	A413_115.9 P80 BX80B4	343
13.1	498	3.0	109.4	20000	A503_109.4 S2 ME2SB4	A503_109.4 S2 MX2SB4	346	A503_109.4 P80 BE80B4	A503_109.4 P80 BX80B4	347
13.5	480	1.1	105.5	12000	A353_105.5 S2 ME2SB4	A353_105.5 S2 MX2SB4	338	A353_105.5 P80 BE80B4	A353_105.5 P80 BX80B4	339
14.4	453	3.3	99.5	20000	A503_99.5 S2 ME2SB4	A503_99.5 S2 MX2SB4	346	A503_99.5 P80 BE80B4	A503_99.5 P80 BX80B4	347
15.0	450	1.2	95.6	12000	A352_95.6 S2 ME2SB4	A352_95.6 S2 MX2SB4	338	A352_95.6 P80 BE80B4	A352_95.6 P80 BX80B4	339
15.4	422	1.9	92.8	15000	A413_92.8 S2 ME2SB4	A413_92.8 S2 MX2SB4	342	A413_92.8 P80 BE80B4	A413_92.8 P80 BX80B4	343
17.3	388	1.5	82.5	12000	A352_82.5 S2 ME2SB4	A352_82.5 S2 MX2SB4	338	A352_82.5 P80 BE80B4	A352_82.5 P80 BX80B4	339
18.0	372	2.3	79.2	15000	A412_79.2 S2 ME2SB4	A412_79.2 S2 MX2SB4	342	A412_79.2 P80 BE80B4	A412_79.2 P80 BX80B4	343
18.7	360	1.0	76.5	8580	A302_76.5 S2 ME2SB4	A302_76.5 S2 MX2SB4	334	A302_76.5 P80 BE80B4	A302_76.5 P80 BX80B4	335
19.3	349	1.7	74.3	12000	A352_74.3 S2 ME2SB4	A352_74.3 S2 MX2SB4	338	A352_74.3 P80 BE80B4	A352_74.3 P80 BX80B4	339
20.1	335	2.5	71.3	15000	A412_71.3 S2 ME2SB4	A412_71.3 S2 MX2SB4	342	A412_71.3 P80 BE80B4	A412_71.3 P80 BX80B4	343
21.7	310	1.3	66.0	8360	A302_66.0 S2 ME2SB4	A302_66.0 S2 MX2SB4	334	A302_66.0 P80 BE80B4	A302_66.0 P80 BX80B4	335
21.7	309	1.9	65.8	12000	A352_65.8 S2 ME2SB4	A352_65.8 S2 MX2SB4	338	A352_65.8 P80 BE80B4	A352_65.8 P80 BX80B4	339
22.3	302	2.8	64.2	15000	A412_64.2 S2 ME2SB4	A412_64.2 S2 MX2SB4	342	A412_64.2 P80 BE80B4	A412_64.2 P80 BX80B4	343
23.7	284	2.1	60.4	12000	A352_60.4 S2 ME2SB4	A352_60.4 S2 MX2SB4	338	A352_60.4 P80 BE80B4	A352_60.4 P80 BX80B4	339
24.1	279	1.4	59.4	8190	A302_59.4 S2 ME2SB4	A302_59.4 S2 MX2SB4	334	A302_59.4 P80 BE80B4	A302_59.4 P80 BX80B4	335
24.3	276	3.1	58.8	15000	A412_58.8 S2 ME2SB4	A412_58.8 S2 MX2SB4	342	A412_58.8 P80 BE80B4	A412_58.8 P80 BX80B4	343
26.3	255	2.4	54.3	12000	A352_54.3 S2 ME2SB4	A352_54.3 S2 MX2SB4	338	A352_54.3 P80 BE80B4	A352_54.3 P80 BX80B4	339
26.7	252	1.0	53.7	5210	A202_53.7 S2 ME2SB4	A202_53.7 S2 MX2SB4	330	A202_53.7 P80 BE80B4	A202_53.7 P80 BX80B4	331
26.9	250	3.4	53.1	15000	A412_53.1 S2 ME2SB4	A412_53.1 S2 MX2SB4	342	A412_53.1 P80 BE80B4	A412_53.1 P80 BX80B4	343
27.1	248	1.7	52.7	7990	A302_52.7 S2 ME2SB4	A302_52.7 S2 MX2SB4	334	A302_52.7 P80 BE80B4	A302_52.7 P80 BX80B4	335
29.1	231	2.6	49.1	12000	A352_49.1 S2 ME2SB4	A352_49.1 S2 MX2SB4	338	A352_49.1 P80 BE80B4	A352_49.1 P80 BX80B4	339
29.6	227	1.1	48.3	5140	A202_48.3 S2 ME2SB4	A202_48.3 S2 MX2SB4	330	A202_48.3 P80 BE80B4	A202_48.3 P80 BX80B4	331
29.6	227	1.8	48.3	7840	A302_48.3 S2 ME2SB4	A302_48.3 S2 MX2SB4	334	A302_48.3 P80 BE80B4	A302_48.3 P80 BX80B4	335
31	215	2.8	45.8	12000	A352_45.8 S2 ME2SB4	A352_45.8 S2 MX2SB4	338	A352_45.8 P80 BE80B4	A352_45.8 P80 BX80B4	339
33	204	2.0	43.4	7660	A302_43.4 S2 ME2SB4	A302_43.4 S2 MX2SB4	334	A302_43.4 P80 BE80B4	A302_43.4 P80 BX80B4	335
33	203	1.2	43.2	5060	A202_43.2 S2 ME2SB4	A202_43.2 S2 MX2SB4	330	A202_43.2 P80 BE80B4	A202_43.2 P80 BX80B4	331
34	196	3.1	41.8	11900	A352_41.8 S2 ME2SB4	A352_41.8 S2 MX2SB4	338	A352_41.8 P80 BE80B4	A352_41.8 P80 BX80B4	339
36	186	1.3	39.6	4990	A202_39.6 S2 ME2SB4	A202_39.6 S2 MX2SB4	330	A202_39.6 P80 BE80B4	A202_39.6 P80 BX80B4	331
36	185	2.2	39.3	7480	A302_39.3 S2 ME2SB4	A302_39.3 S2 MX2SB4	334	A302_39.3 P80 BE80B4	A302_39.3 P80 BX80B4	335
39	172	2.4	36.6	7360	A302_36.6 S2 ME2SB4	A302_36.6 S2 MX2SB4	334	A302_36.6 P80 BE80B4	A302_36.6 P80 BX80B4	335
39	172	3.5	36.6	11500	A352_36.6 S2 ME2SB4	A352_36.6 S2 MX2SB4	338	A352_36.6 P80 BE80B4	A352_36.6 P80 BX80B4	339
40	167	1.5	35.4	4890	A202_35.4 S2 ME2SB4	A202_35.4 S2 MX2SB4	330	A202_35.4 P80 BE80B4	A202_35.4 P80 BX80B4	331
41	165	0.9	35.1	4320	A102_35.1 S2 ME2SB4	A102_35.1 S2 MX2SB4	326	A102_35.1 P80 BE80B4	A102_35.1 P80 BX80B4	327
43	157	2.6	33.4	7200	A302_33.4 S2 ME2SB4	A302_33.4 S2 MX2SB4	334	A302_33.4 P80 BE80B4	A302_33.4 P80 BX80B4	335
44	151	1.0	32.2	5080	A102_32.2 S2 ME2SB4	A102_32.2 S2 MX2SB4	326	A102_32.2 P80 BE80B4	A102_32.2 P80 BX80B4	327
46	147	1.7	31.3	4780	A202_31.3 S2 ME2SB4	A202_31.3 S2 MX2SB4	330	A202_31.3 P80 BE80B4	A202_31.3 P80 BX80B4	331
49	138	3.0	29.3	6960	A302_29.3 S2 ME2SB4	A302_29.3 S2 MX2SB4	334	A302_29.3 P80 BE80B4	A302_29.3 P80 BX80B4	335
49	137	1.8	29.2	4710	A202_29.2 S2 ME2SB4	A202_29.2 S2 MX2SB4	330	A202_29.2 P80 BE80B4	A202_29.2 P80 BX80B4	331
50	134	1.1	28.6	4200	A102_28.6 S2 ME2SB4	A102_28.6 S2 MX2SB4	326	A102_28.6 P80 BE80B4	A102_28.6 P80 BX80B4	327
54	125	3.3	26.5	6790	A302_26.5 S2 ME2SB4	A302_26.5 S2 MX2SB4	334	A302_26.5 P80 BE80B4	A302_26.5 P80 BX80B4	335
54	124	2.0	26.5	4620	A202_26.5 S2 ME2SB4	A202_26.5 S2 MX2SB4	330	A202_26.5 P80 BE80B4	A202_26.5 P80 BX80B4	331
56	120	1.3	25.5	4900	A102_25.5 S2 ME2SB4	A102_25.5 S2 MX2SB4	326	A102_25.5 P80 BE80B4	A102_25.5 P80 BX80B4	327
60	112	0.9	23.8	2200	A052_23.8 S2 ME2SB4	A052_23.8 S2 MX2SB4	323	A052_23.8 P80 BE80B4	A052_23.8 P80 BX80B4	323
60	112	1.3	23.8	4070	A102_23.8 S2 ME2SB4	A102_23.8 S2 MX2SB4	326	A102_23.8 P80 BE80B4	A102_23.8 P80 BX80B4	327
62	109	2.3	23.1	4480	A202_23.1 S2 ME2SB4	A202_23.1 S2 MX2SB4	330	A202_23.1 P80 BE80B4	A202_23.1 P80 BX80B4	331
67	100	1.0	21.4	2210	A052_21.4 S2 ME2SB4	A052_21.4 S2 MX2SB4	323	A052_21.4 P80 BE80B4	A052_21.4 P80 BX80B4	323
67	100	1.5	21.4	4740	A102_21.4 S2 ME2SB4	A102_21.4 S2 MX2SB4	326	A102_21.4 P80 BE80B4	A102_21.4 P80 BX80B4	327
67	100	2.5	21.2	4390	A202_21.2 S2 ME2SB4	A202_21.2 S2 MX2SB4	330	A202_21.2 P80 BE80B4	A202_21.2 P80 BX80B4	331
77	87	1.1	18.6	2190	A052_18.6 S2 ME2SB4	A052_18.6 S2 MX2SB4	323	A052_18.6 P80 BE80B4	A052_18.6 P80 BX80B4	323
77	87	1.7	18.6	3880	A102_18.6 S2 ME2SB4	A102_18.6 S2 MX2SB4	326	A102_18.6 P80 BE80B4	A102_18.6 P80 BX80B4	327
79	85	2.9	18.1	4230	A202_18.1 S2 ME2SB4	A202_18.1 S2 MX2SB4	330	A202_18.1 P80 BE80B4	A202_18.1 P80 BX80B4	331
87	77	1.3	16.4	2160	A052_16.4 S2 ME2SB4	A052_16.4 S2 MX2SB4	323	A052_16.4 P80 BE80B4	A052_16.4 P80 BX80B4	323
87	77	1.9	16.4	4490	A102_16.4 S2 ME2SB4	A102_16.4 S2 MX2SB4	326	A102_16.4 P80 BE80B4	A102_16.4 P80 BX80B4	327
88	76	3.3	16.2	4110	A202_16.2 S2 ME2SB4	A202_16.2 S2 MX2SB4	330	A202_16.2 P80 BE80B4	A202_16.2 P80 BX80B4	331

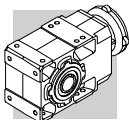


0.75 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC	IE2	IE3
103	65	1.5	13.9	2110	A052_13.9 S2 ME2SB4	A052_13.9 S2 MX2SB4	323	A052_13.9 P80 BE80B4	A052_13.9 P80 BX80B4
103	65	2.3	13.9	3640	A102_13.9 S2 ME2SB4	A102_13.9 S2 MX2SB4	326	A102_13.9 P80 BE80B4	A102_13.9 P80 BX80B4
116	58	1.7	12.3	2080	A052_12.3 S2 ME2SB4	A052_12.3 S2 MX2SB4	323	A052_12.3 P80 BE80B4	A052_12.3 P80 BX80B4
116	58	2.4	12.3	3530	A102_12.3 S2 ME2SB4	A102_12.3 S2 MX2SB4	326	A102_12.3 P80 BE80B4	A102_12.3 P80 BX80B4
135	50	2.0	10.6	2010	A052_10.6 S2 ME2SB4	A052_10.6 S2 MX2SB4	323	A052_10.6 P80 BE80B4	A052_10.6 P80 BX80B4
135	50	3.0	10.6	3400	A102_10.6 S2 ME2SB4	A102_10.6 S2 MX2SB4	326	A102_10.6 P80 BE80B4	A102_10.6 P80 BX80B4
149	45	2.2	9.6	1990	A052_9.6 S2 ME2SB4	A052_9.6 S2 MX2SB4	323	A052_9.6 P80 BE80B4	A052_9.6 P80 BX80B4
149	45	3.1	9.6	3320	A102_9.6 S2 ME2SB4	A102_9.6 S2 MX2SB4	326	A102_9.6 P80 BE80B4	A102_9.6 P80 BX80B4
168	40	2.5	8.5	1940	A052_8.5 S2 ME2SB4	A052_8.5 S2 MX2SB4	323	A052_8.5 P80 BE80B4	A052_8.5 P80 BX80B4
168	40	3.5	8.5	3820	A102_8.5 S2 ME2SB4	A102_8.5 S2 MX2SB4	326	A102_8.5 P80 BE80B4	A102_8.5 P80 BX80B4
198	34	3.0	7.2	1870	A052_7.2 S2 ME2SB4	A052_7.2 S2 MX2SB4	323	A052_7.2 P80 BE80B4	A052_7.2 P80 BX80B4
226	30	3.4	6.3	1810	A052_6.3 S2 ME2SB4	A052_6.3 S2 MX2SB4	323	A052_6.3 P80 BE80B4	A052_6.3 P80 BX80B4
262	26	3.7	5.5	1750	A052_5.5 S2 ME2SB4	A052_5.5 S2 MX2SB4	323	A052_5.5 P80 BE80B4	A052_5.5 P80 BX80B4
270	25	3.2	10.6	1720	A052_10.6 S2 ME2SA2		323	A052_10.6 P80 BE80A2	
296	23	4.2	9.6	1690	A052_9.6 S2 ME2SA2		323	A052_9.6 P80 BE80A2	
335	20	4.5	8.5	1640	A052_8.5 S2 ME2SA2		323	A052_8.5 P80 BE80A2	
395	17.0	5.0	7.2	1570	A052_7.2 S2 ME2SA2		323	A052_7.2 P80 BE80A2	
450	15.0	5.3	6.3	1510	A052_6.3 S2 ME2SA2		323	A052_6.3 P80 BE80A2	
521	12.9	5.8	5.5	1450	A052_5.5 S2 ME2SA2		323	A052_5.5 P80 BE80A2	

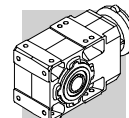
0.75 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC	IE3
0.88	7264	1.9	1632	75000		A904_1632 P80 BXN80MB4	365
0.92	6932	1.2	1558	65000		A804_1558 P80 BXN80MB4	362
0.95	6705	2.1	1507	75000		A904_1507 P80 BXN80MB4	365
0.99	6398	1.3	1438	65000		A804_1438 P80 BXN80MB4	362
1.1	5963	1.3	1340	65000		A804_1340 P80 BXN80MB4	362
1.1	5892	2.4	1324	75000		A904_1324 P80 BXN80MB4	365
1.2	5528	0.9	1242	50000		A704_1242 P80 BXN80MB4	359
1.2	5504	1.5	1237	65000		A804_1237 P80 BXN80MB4	362
1.2	5439	2.6	1222	75000		A904_1222 P80 BXN80MB4	365
1.2	5169	1.0	1161	50000		A704_1161 P80 BXN80MB4	359
1.3	4942	2.8	1111	75000		A904_1111 P80 BXN80MB4	365
1.3	4828	1.7	1085	65000		A804_1085 P80 BXN80MB4	362
1.3	4771	1.0	1072	50000		A704_1072 P80 BXN80MB4	359
1.4	4562	3.1	1025	75000		A904_1025 P80 BXN80MB4	365
1.4	4456	1.8	1001	65000		A804_1001 P80 BXN80MB4	362
1.5	4170	3.4	937.2	75000		A904_937.2 P80 BXN80MB4	365
1.5	4123	1.2	926.5	50000		A704_926.5 P80 BXN80MB4	359
1.6	3999	2.0	898.7	65000		A804_898.7 P80 BXN80MB4	362
1.7	3806	1.3	855.3	50000		A704_855.3 P80 BXN80MB4	359
1.7	3691	2.2	829.5	65000		A804_829.5 P80 BXN80MB4	362
1.9	3399	1.5	763.9	50000		A704_763.9 P80 BXN80MB4	359
1.9	3391	2.4	762.1	65000		A804_762.1 P80 BXN80MB4	362
2.0	3138	1.6	705.1	50000		A704_705.1 P80 BXN80MB4	359
2.0	3130	2.6	703.5	65000		A804_703.5 P80 BXN80MB4	362
2.1	3103	0.9	697.3	30000		A604_697.3 P80 BXN80MB4	355
2.2	2869	1.7	644.6	50000		A704_644.6 P80 BXN80MB4	359
2.3	2824	1.0	634.6	30000		A604_634.6 P80 BXN80MB4	355
2.4	2702	3.0	607.2	65000		A804_607.2 P80 BXN80MB4	362
2.4	2648	1.9	595.0	50000		A704_595.0 P80 BXN80MB4	359
2.4	2607	1.1	585.8	30000		A604_585.8 P80 BXN80MB4	355
2.6	2494	3.2	560.5	65000		A804_560.5 P80 BXN80MB4	362
2.6	2412	1.2	542.0	30000		A604_542.0 P80 BXN80MB4	355
2.8	2294	2.2	515.4	50000		A704_515.4 P80 BXN80MB4	359
2.9	2226	1.3	500.3	30000		A604_500.3 P80 BXN80MB4	355
3.0	2117	2.4	475.8	50000		A704_475.8 P80 BXN80MB4	359
3.3	1951	1.4	438.4	30000		A604_438.4 P80 BXN80MB4	355



0.75 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
3.5	1842	1.1	414.0	30000		A554_414.0 P80 BXN80MB4 351
3.5	1801	1.6	404.7	30000		A604_404.7 P80 BXN80MB4 355
3.6	1781	2.8	400.2	50000		A704_400.2 P80 BXN80MB4 359
3.9	1644	3.0	369.4	50000		A704_369.4 P80 BXN80MB4 359
3.9	1627	0.9	365.6	20000		A504_365.6 P80 BXN80MB4 347
4.1	1563	1.8	351.2	30000		A604_351.2 P80 BXN80MB4 355
4.3	1480	1.0	332.6	20000		A504_332.6 P80 BXN80MB4 347
4.4	1445	1.4	324.7	30000		A554_324.7 P80 BXN80MB4 351
4.4	1443	1.9	324.2	30000		A604_324.2 P80 BXN80MB4 355
4.5	1408	3.6	316.4	50000		A704_316.4 P80 BXN80MB4 359
5.0	1276	1.2	286.8	20000		A504_286.8 P80 BXN80MB4 347
5.0	1274	2.2	286.3	30000		A604_286.3 P80 BXN80MB4 355
5.4	1176	2.4	264.3	30000		A604_264.3 P80 BXN80MB4 355
5.4	1169	1.7	262.6	30000		A554_262.6 P80 BXN80MB4 351
5.5	1161	1.3	260.9	20000		A504_260.9 P80 BXN80MB4 347
6.2	1032	1.5	232.0	20000		A504_232.0 P80 BXN80MB4 347
6.3	1006	2.8	226.1	30000		A604_226.1 P80 BXN80MB4 355
6.8	939	1.6	211.0	20000		A504_211.0 P80 BXN80MB4 347
6.9	929	3.0	208.7	30000		A604_208.7 P80 BXN80MB4 355
6.9	926	2.1	208.1	30000	A413_197.5 SX20 MXN20MB4	A554_208.1 P80 BXN80MB4 351
7.2	899	0.9	197.5	15000		A413_197.5 P80 BXN80MB4 343
7.4	884	2.3	194.2	30000		A553_194.2 P80 BXN80MB4 351
7.5	867	1.7	190.6	20000		A503_190.6 P80 BXN80MB4 347
7.7	845	3.3	185.8	30000		A603_185.8 P80 BXN80MB4 355
7.8	839	1.0	184.4	15000	A413_184.4 SX20 MXN20MB4	A413_184.4 P80 BXN80MB4 343
8.2	796	2.5	175.0	30000		A553_175.0 P80 BXN80MB4 351
8.2	789	1.9	173.4	20000		A503_173.4 P80 BXN80MB4 347
8.3	780	3.6	171.5	30000		A603_171.5 P80 BXN80MB4 355
8.9	730	2.7	160.4	30000		A553_160.4 P80 BXN80MB4 351
9.3	703	2.1	154.6	20000		A503_154.6 P80 BXN80MB4 347
9.7	668	1.3	146.9	15000	A413_146.9 SX20 MXN20MB4	A413_146.9 P80 BXN80MB4 343
9.7	668	3.0	146.8	30000		A553_146.8 P80 BXN80MB4 351
10.2	640	2.3	140.6	20000		A503_140.6 P80 BXN80MB4 347
10.5	620	0.9	136.3	12000	A353_136.3 SX20 MXN20MB4	A353_136.3 P80 BXN80MB4 339
10.8	604	3.3	132.7	30000		A553_132.7 P80 BXN80MB4 351
11.0	590	2.5	129.7	20000		A503_129.7 P80 BXN80MB4 347
11.5	564	3.5	123.9	30000		A553_123.9 P80 BXN80MB4 351
12.1	537	2.8	118.0	20000		A503_118.0 P80 BXN80MB4 347
12.2	532	1.1	116.9	12000	A353_116.9 SX20 MXN20MB4	A353_116.9 P80 BXN80MB4 339
12.3	527	1.6	115.9	15000	A413_115.9 SX20 MXN20MB4	A413_115.9 P80 BXN80MB4 343
13.1	498	3.0	109.4	20000		A503_109.4 P80 BXN80MB4 347
13.5	480	1.1	105.5	12000	A353_105.5 SX20 MXN20MB4	A353_105.5 P80 BXN80MB4 339
14.4	453	3.3	99.5	20000		A503_99.5 P80 BXN80MB4 347
15.0	450	1.2	95.6	12000		A352_95.6 P80 BXN80MB4 339
15.4	422	1.9	92.8	15000	A413_92.8 SX20 MXN20MB4	A413_92.8 P80 BXN80MB4 343
17.3	388	1.5	82.5	12000		A352_82.5 P80 BXN80MB4 339
18.0	372	2.3	79.2	15000		A412_79.2 P80 BXN80MB4 343
18.7	360	1.0	76.5	8580		A302_76.5 P80 BXN80MB4 335
19.3	349	1.7	74.3	12000		A352_74.3 P80 BXN80MB4 339
20.1	335	2.5	71.3	15000		A412_71.3 P80 BXN80MB4 343
21.7	310	1.3	66.0	8360		A302_66.0 P80 BXN80MB4 335
21.7	309	1.9	65.8	12000		A352_65.8 P80 BXN80MB4 339
22.3	302	2.8	64.2	15000		A412_64.2 P80 BXN80MB4 343
23.7	284	2.1	60.4	12000		A352_60.4 P80 BXN80MB4 339
24.1	279	1.4	59.4	8190		A302_59.4 P80 BXN80MB4 335
24.3	276	3.1	58.8	15000		A412_58.8 P80 BXN80MB4 343
26.3	255	2.4	54.3	12000		A352_54.3 P80 BXN80MB4 339
26.7	252	1.0	53.7	5210	A202_53.7 SX20 MXN20MB4	A202_53.7 P80 BXN80MB4 331
26.9	250	3.4	53.1	15000		A412_53.1 P80 BXN80MB4 343
27.1	248	1.7	52.7	7990		A302_52.7 P80 BXN80MB4 335
29.1	231	2.6	49.1	12000		A352_49.1 P80 BXN80MB4 339

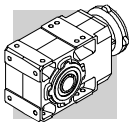


0.75 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
29.6	227	1.1	48.3	5140	A202_48.3 SX20 MXN20MB4	330
29.6	227	1.8	48.3	7840		335
31	215	2.8	45.8	12000		339
33	204	2.0	43.4	7660	A202_43.2 SX20 MXN20MB4	330
33	203	1.2	43.2	5060		331
34	196	3.1	41.8	11900		339
36	186	1.3	39.6	4990	A202_39.6 SX20 MXN20MB4	330
36	185	2.2	39.3	7480		335
39	172	2.4	36.6	7360		335
39	172	3.5	36.6	11500		339
40	167	1.5	35.4	4890	A202_35.4 SX20 MXN20MB4	330
41	165	0.9	35.1	4320	A102_35.1 SX20 MXN20MB4	326
43	157	2.6	33.4	7200		335
44	151	1.0	32.2	5080	A102_32.2 SX20 MXN20MB4	326
46	147	1.7	31.3	4780	A202_31.3 SX20 MXN20MB4	330
49	138	3.0	29.3	6960		335
49	137	1.8	29.2	4710	A202_29.2 SX20 MXN20MB4	330
50	134	1.1	28.6	4200	A102_28.6 SX20 MXN20MB4	326
54	125	3.3	26.5	6790		335
54	124	2.0	26.5	4620	A202_26.5 SX20 MXN20MB4	330
56	120	1.3	25.5	4900	A102_25.5 SX20 MXN20MB4	326
60	112	0.9	23.8	2200		323
60	112	1.3	23.8	4070	A102_23.8 SX20 MXN20MB4	326
62	109	2.3	23.1	4480	A202_23.1 SX20 MXN20MB4	330
67	100	1.0	21.4	2210		323
67	100	1.5	21.4	4740	A102_21.4 SX20 MXN20MB4	326
67	100	2.5	21.2	4390	A202_21.2 SX20 MXN20MB4	330
77	87	1.1	18.6	2190		323
77	87	1.7	18.6	3880	A102_18.6 SX20 MXN20MB4	326
79	85	2.9	18.1	4230	A202_18.1 SX20 MXN20MB4	330
87	77	1.3	16.4	2160		323
87	77	1.9	16.4	4490	A102_16.4 SX20 MXN20MB4	326
88	76	3.3	16.2	4110	A202_16.2 SX20 MXN20MB4	330
103	65	1.5	13.9	2110		323
103	65	2.3	13.9	3640	A102_13.9 SX20 MXN20MB4	326
116	58	1.7	12.3	2080		323
116	58	2.4	12.3	3530	A102_12.3 SX20 MXN20MB4	326
135	50	2.0	10.6	2010		323
135	50	3.0	10.6	3400	A102_10.6 SX20 MXN20MB4	326
149	45	2.2	9.6	1990		323
149	45	3.1	9.6	3320	A102_9.6 SX20 MXN20MB4	326
168	40	2.5	8.5	1940		323
168	40	3.5	8.5	3820	A102_8.5 SX20 MXN20MB4	326
198	34	3.0	7.2	1870		323
226	30	3.4	6.3	1810		323
262	26	3.7	5.5	1750		323

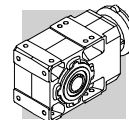
1.1 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC IE2	IE3
0.63	14914	0.9	1507	75000	A904_1507 S3 ME3LA6	364	A904_1507 P100 BE100M6	365
0.71	13103	1.1	1324	75000	A904_1324 S3 ME3LA6	364	A904_1324 P100 BE100M6	365
0.77	12094	1.2	1222	75000	A904_1222 S3 ME3LA6	364	A904_1222 P100 BE100M6	365
0.88	10751	1.3	1632	75000	A904_1632 S3 ME3SA4	364	A904_1632 P90 BE90S4	365
0.95	9924	1.4	1507	75000	A904_1507 S3 ME3SA4	364	A904_1507 P90 BE90S4	365
1.1	8825	0.9	1340	65000	A804_1340 S3 ME3SA4	361	A804_1340 P90 BE90S4	362
1.1	8720	1.6	1324	75000	A904_1324 S3 ME3SA4	364	A904_1324 P90 BE90S4	365



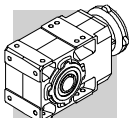
1.1 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N				IEC		
					IE2	IE3		IE2	IE3	
1.2	8146	1.0	1237	65000	A804_1237 S3 ME3SA4	A804_1237 S3 MX3SA4	361	A804_1237 P90 BE90S4	A804_1237 P90 BX90S4	362
1.2	8049	1.7	1222	75000	A904_1222 S3 ME3SA4	A904_1222 S3 MX3SA4	364	A904_1222 P90 BE90S4	A904_1222 P90 BX90S4	365
1.3	7314	1.9	1111	75000	A904_1111 S3 ME3SA4	A904_1111 S3 MX3SA4	364	A904_1111 P90 BE90S4	A904_1111 P90 BX90S4	365
1.3	7145	1.1	1085	65000	A804_1085 S3 ME3SA4	A804_1085 S3 MX3SA4	361	A804_1085 P90 BE90S4	A804_1085 P90 BX90S4	362
1.4	6752	2.1	1025	75000	A904_1025 S3 ME3SA4	A904_1025 S3 MX3SA4	364	A904_1025 P90 BE90S4	A904_1025 P90 BX90S4	365
1.4	6595	1.2	1001	65000	A804_1001 S3 ME3SA4	A804_1001 S3 MX3SA4	361	A804_1001 P90 BE90S4	A804_1001 P90 BX90S4	362
1.5	6172	2.3	937.2	75000	A904_937.2 S3 ME3SA4	A904_937.2 S3 MX3SA4	364	A904_937.2 P90 BE90S4	A904_937.2 P90 BX90S4	365
1.6	5919	1.4	898.7	65000	A804_898.7 S3 ME3SA4	A804_898.7 S3 MX3SA4	361	A804_898.7 P90 BE90S4	A804_898.7 P90 BX90S4	362
1.7	5697	2.5	865.1	75000	A904_865.1 S3 ME3SA4	A904_865.1 S3 MX3SA4	364	A904_865.1 P90 BE90S4	A904_865.1 P90 BX90S4	365
1.7	5633	0.9	855.3	50000	A704_855.3 S3 ME3SA4	A704_855.3 S3 MX3SA4	358	A704_855.3 P90 BE90S4	A704_855.3 P90 BX90S4	359
1.7	5463	1.5	829.5	65000	A804_829.5 S3 ME3SA4	A804_829.5 S3 MX3SA4	361	A804_829.5 P90 BE90S4	A804_829.5 P90 BX90S4	362
1.9	5051	2.8	766.9	75000	A904_766.9 S3 ME3SA4	A904_766.9 S3 MX3SA4	364	A904_766.9 P90 BE90S4	A904_766.9 P90 BX90S4	365
1.9	5031	1.0	763.9	50000	A704_763.9 S3 ME3SA4	A704_763.9 S3 MX3SA4	358	A704_763.9 P90 BE90S4	A704_763.9 P90 BX90S4	359
1.9	5019	1.6	762.1	65000	A804_762.1 S3 ME3SA4	A804_762.1 S3 MX3SA4	361	A804_762.1 P90 BE90S4	A804_762.1 P90 BX90S4	362
2.0	4662	3.0	707.9	75000	A904_707.9 S3 ME3SA4	A904_707.9 S3 MX3SA4	364	A904_707.9 P90 BE90S4	A904_707.9 P90 BX90S4	365
2.0	4644	1.1	705.1	50000	A704_705.1 S3 ME3SA4	A704_705.1 S3 MX3SA4	358	A704_705.1 P90 BE90S4	A704_705.1 P90 BX90S4	359
2.0	4633	1.7	703.5	65000	A804_703.5 S3 ME3SA4	A804_703.5 S3 MX3SA4	361	A804_703.5 P90 BE90S4	A804_703.5 P90 BX90S4	362
2.2	4245	1.2	644.6	50000	A704_644.6 S3 ME3SA4	A704_644.6 S3 MX3SA4	358	A704_644.6 P90 BE90S4	A704_644.6 P90 BX90S4	359
2.4	3999	2.0	607.2	65000	A804_607.2 S3 ME3SA4	A804_607.2 S3 MX3SA4	361	A804_607.2 P90 BE90S4	A804_607.2 P90 BX90S4	362
2.4	3962	3.5	601.6	75000	A904_601.6 S3 ME3SA4	A904_601.6 S3 MX3SA4	364	A904_601.6 P90 BE90S4	A904_601.6 P90 BX90S4	365
2.4	3919	1.3	595.0	50000	A704_595.0 S3 ME3SA4	A704_595.0 S3 MX3SA4	358	A704_595.0 P90 BE90S4	A704_595.0 P90 BX90S4	359
2.6	3691	2.2	560.5	65000	A804_560.5 S3 ME3SA4	A804_560.5 S3 MX3SA4	361	A804_560.5 P90 BE90S4	A804_560.5 P90 BX90S4	362
2.8	3394	1.5	515.4	50000	A704_515.4 S3 ME3SA4	A704_515.4 S3 MX3SA4	358	A704_515.4 P90 BE90S4	A704_515.4 P90 BX90S4	359
3.0	3154	2.5	478.9	65000	A804_478.9 S3 ME3SA4	A804_478.9 S3 MX3SA4	361	A804_478.9 P90 BE90S4	A804_478.9 P90 BX90S4	362
3.0	3133	1.6	475.8	50000	A704_475.8 S3 ME3SA4	A704_475.8 S3 MX3SA4	358	A704_475.8 P90 BE90S4	A704_475.8 P90 BX90S4	359
3.2	2912	2.7	442.1	65000	A804_442.1 S3 ME3SA4	A804_442.1 S3 MX3SA4	361	A804_442.1 P90 BE90S4	A804_442.1 P90 BX90S4	362
3.3	2887	1.0	438.4	30000	A604_438.4 S3 ME3SA4	A604_438.4 S3 MX3SA4	354	A604_438.4 P90 BE90S4	A604_438.4 P90 BX90S4	355
3.5	2665	1.1	404.7	30000	A604_404.7 S3 ME3SA4	A604_404.7 S3 MX3SA4	354	A604_404.7 P90 BE90S4	A604_404.7 P90 BX90S4	355
3.6	2635	1.9	400.2	50000	A704_400.2 S3 ME3SA4	A704_400.2 S3 MX3SA4	358	A704_400.2 P90 BE90S4	A704_400.2 P90 BX90S4	359
3.7	2526	3.2	383.5	65000	A804_383.5 S3 ME3SA4	A804_383.5 S3 MX3SA4	361	A804_383.5 P90 BE90S4	A804_383.5 P90 BX90S4	362
3.9	2433	2.1	369.4	50000	A704_369.4 S3 ME3SA4	A704_369.4 S3 MX3SA4	358	A704_369.4 P90 BE90S4	A704_369.4 P90 BX90S4	359
4.0	2331	3.4	354.0	65000	A804_354.0 S3 ME3SA4	A804_354.0 S3 MX3SA4	361	A804_354.0 P90 BE90S4	A804_354.0 P90 BX90S4	362
4.1	2313	1.2	351.2	30000	A604_351.2 S3 ME3SA4	A604_351.2 S3 MX3SA4	354	A604_351.2 P90 BE90S4	A604_351.2 P90 BX90S4	355
4.4	2139	0.9	324.7	30000	A554_324.7 S3 ME3SA4	A554_324.7 S3 MX3SA4	350	A554_324.7 P90 BE90S4	A554_324.7 P90 BX90S4	351
4.4	2135	1.3	324.2	30000	A604_324.2 S3 ME3SA4	A604_324.2 S3 MX3SA4	354	A604_324.2 P90 BE90S4	A604_324.2 P90 BX90S4	355
4.5	2083	2.4	316.4	50000	A704_316.4 S3 ME3SA4	A704_316.4 S3 MX3SA4	358	A704_316.4 P90 BE90S4	A704_316.4 P90 BX90S4	359
4.9	1923	2.6	292.0	50000	A704_292.0 S3 ME3SA4	A704_292.0 S3 MX3SA4	358	A704_292.0 P90 BE90S4	A704_292.0 P90 BX90S4	359
5.0	1886	1.5	286.3	30000	A604_286.3 S3 ME3SA4	A604_286.3 S3 MX3SA4	354	A604_286.3 P90 BE90S4	A604_286.3 P90 BX90S4	355
5.4	1741	1.6	264.3	30000	A604_264.3 S3 ME3SA4	A604_264.3 S3 MX3SA4	354	A604_264.3 P90 BE90S4	A604_264.3 P90 BX90S4	355
5.4	1730	1.2	262.6	30000	A554_262.6 S3 ME3SA4	A554_262.6 S3 MX3SA4	350	A554_262.6 P90 BE90S4	A554_262.6 P90 BX90S4	351
5.5	1718	0.9	260.9	20000	A504_260.9 S3 ME3SA4	A504_260.9 S3 MX3SA4	346	A504_260.9 P90 BE90S4	A504_260.9 P90 BX90S4	347
6.0	1571	3.2	238.6	50000	A704_238.6 S3 ME3SA4	A704_238.6 S3 MX3SA4	358	A704_238.6 P90 BE90S4	A704_238.6 P90 BX90S4	359
6.2	1528	1.0	232.0	20000	A504_232.0 S3 ME3SA4	A504_232.0 S3 MX3SA4	346	A504_232.0 P90 BE90S4	A504_232.0 P90 BX90S4	347
6.3	1489	1.9	226.1	30000	A604_226.1 S3 ME3SA4	A604_226.1 S3 MX3SA4	354	A604_226.1 P90 BE90S4	A604_226.1 P90 BX90S4	355
6.5	1451	3.4	220.3	50000	A704_220.3 S3 ME3SA4	A704_220.3 S3 MX3SA4	358	A704_220.3 P90 BE90S4	A704_220.3 P90 BX90S4	359
6.8	1390	1.1	211.0	20000	A504_211.0 S3 ME3SA4	A504_211.0 S3 MX3SA4	346	A504_211.0 P90 BE90S4	A504_211.0 P90 BX90S4	347
6.9	1375	2.0	208.7	30000	A604_208.7 S3 ME3SA4	A604_208.7 S3 MX3SA4	354	A604_208.7 P90 BE90S4	A604_208.7 P90 BX90S4	355
6.9	1370	1.4	208.1	30000	A554_208.1 S3 ME3SA4	A554_208.1 S3 MX3SA4	350	A554_208.1 P90 BE90S4	A554_208.1 P90 BX90S4	351
7.4	1308	1.5	194.2	30000	A553_194.2 S3 ME3SA4	A553_194.2 S3 MX3SA4	350	A553_194.2 P90 BE90S4	A553_194.2 P90 BX90S4	351
7.5	1283	1.2	190.6	20000	A503_190.6 S3 ME3SA4	A503_190.6 S3 MX3SA4	346	A503_190.6 P90 BE90S4	A503_190.6 P90 BX90S4	347
7.7	1251	2.2	185.8	30000	A603_185.8 S3 ME3SA4	A603_185.8 S3 MX3SA4	354	A603_185.8 P90 BE90S4	A603_185.8 P90 BX90S4	355
8.2	1179	1.7	175.0	30000	A553_175.0 S3 ME3SA4	A553_175.0 S3 MX3SA4	350	A553_175.0 P90 BE90S4	A553_175.0 P90 BX90S4	351
8.2	1167	1.3	173.4	20000	A503_173.4 S3 ME3SA4	A503_173.4 S3 MX3SA4	346	A503_173.4 P90 BE90S4	A503_173.4 P90 BX90S4	347
8.3	1155	2.4	171.5	30000	A603_171.5 S3 ME3SA4	A603_171.5 S3 MX3SA4	354	A603_171.5 P90 BE90S4	A603_171.5 P90 BX90S4	355
8.9	1080	1.9	160.4	30000	A553_160.4 S3 ME3SA4	A553_160.4 S3 MX3SA4	350	A553_160.4 P90 BE90S4	A553_160.4 P90 BX90S4	351
9.2	1051	2.7	156.0	30000	A603_156.0 S3 ME3SA4	A603_156.0 S3 MX3SA4	354	A603_156.0 P90 BE90S4	A603_156.0 P90 BX90S4	355
9.3	1041	1.4	154.6	20000	A503_154.6 S3 ME3SA4	A503_154.6 S3 MX3SA4	346	A503_154.6 P90 BE90S4	A503_154.6 P90 BX90S4	347
9.7	989	2.0	146.8	30000	A553_146.8 S3 ME3SA4	A553_146.8 S3 MX3SA4	350	A553_146.8 P90 BE90S4	A553_146.8 P90 BX90S4	351
9.9	970	2.9	144.0	30000	A603_144.0 S3 ME3SA4	A603_144.0 S3 MX3SA4	354	A603_144.0 P90 BE90S4	A603_144.0 P90 BX90S4	355
10.2	947	1.6	140.6	20000	A503_140.6 S3 ME3SA4	A503_140.6 S3 MX3SA4	346	A503_140.6 P90 BE90S4	A503_140.6 P90 BX90S4	347
10.7	898	3.1	133.3	30000	A603_133.3 S3 ME3SA4	A603_133.3 S3 MX3SA4	354	A603_133.3 P90 BE90S4	A603_133.3 P90 BX90S4	355
10.8	894	2.2	132.7	30000	A553_132.7 S3 ME3SA4	A553_132.7 S3 MX3SA4	350	A553_132.7 P90 BE90S4	A553_132.7 P90 BX90S4	351
11.0	873	1.7	129.7	20000	A503_129.7 S3 ME3SA4	A503_129.7 S3 MX3SA4	346	A503_129.7 P90 BE90S4	A503_129.7 P90 BX90S4	347
11.5	834	2.4	123.9	30000	A553_123.9 S3 ME3SA4	A553_123.9 S3 MX3SA4	350	A553_123.9 P90 BE90S4	A553_123.9 P90 BX90S4	351
11.6	828	3.4	123.0	30000	A603_123.0 S3 ME3SA4	A603_123.0 S3 MX3SA4	354	A603_123.0 P90 BE90S4	A603_123.0 P90 BX90S4	355



1.1 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2			IEC		
					IE2	IE3		IE2	IE3	
12.1	794	1.9	118.0	20000	A503_118.0 S3 ME3SA4	A503_118.0 S3 MX3SA4	346	A503_118.0 P90 BE90S4	A503_118.0 P90 BX90S4	347
12.3	780	1.1	115.9	15000	A413_115.9 S3 ME3SA4	A413_115.9 S3 MX3SA4	342	A413_115.9 P90 BE90S4	A413_115.9 P90 BX90S4	343
13.1	737	2.0	109.4	20000	A503_109.4 S3 ME3SA4	A503_109.4 S3 MX3SA4	346	A503_109.4 P90 BE90S4	A503_109.4 P90 BX90S4	347
14.1	683	2.9	101.4	30000	A553_101.4 S3 ME3SA4	A553_101.4 S3 MX3SA4	350	A553_101.4 P90 BE90S4	A553_101.4 P90 BX90S4	351
14.4	670	2.2	99.5	20000	A503_99.5 S3 ME3SA4	A503_99.5 S3 MX3SA4	346	A503_99.5 P90 BE90S4	A503_99.5 P90 BX90S4	347
15.4	625	1.3	92.8	15000	A413_92.8 S3 ME3SA4	A413_92.8 S3 MX3SA4	342	A413_92.8 P90 BE90S4	A413_92.8 P90 BX90S4	343
16.0	603	2.5	89.5	20000	A503_89.5 S3 ME3SA4	A503_89.5 S3 MX3SA4	346	A503_89.5 P90 BE90S4	A503_89.5 P90 BX90S4	347
17.3	574	1.0	82.5	12000	A352_82.5 S3 ME3SA4	A352_82.5 S3 MX3SA4	338	A352_82.5 P90 BE90S4	A352_82.5 P90 BX90S4	339
17.6	548	2.7	81.5	20000	A503_81.5 S3 ME3SA4	A503_81.5 S3 MX3SA4	346	A503_81.5 P90 BE90S4	A503_81.5 P90 BX90S4	347
18.0	551	1.5	79.2	15000	A412_79.2 S3 ME3SA4	A412_79.2 S3 MX3SA4	342	A412_79.2 P90 BE90S4	A412_79.2 P90 BX90S4	343
19.3	517	1.2	74.3	12000	A352_74.3 S3 ME3SA4	A352_74.3 S3 MX3SA4	338	A352_74.3 P90 BE90S4	A352_74.3 P90 BX90S4	339
20.1	496	1.7	71.3	15000	A412_71.3 S3 ME3SA4	A412_71.3 S3 MX3SA4	342	A412_71.3 P90 BE90S4	A412_71.3 P90 BX90S4	343
20.4	473	3.2	70.2	20000	A503_70.2 S3 ME3SA4	A503_70.2 S3 MX3SA4	346	A503_70.2 P90 BE90S4	A503_70.2 P90 BX90S4	347
21.7	458	1.3	65.8	12000	A352_65.8 S3 ME3SA4	A352_65.8 S3 MX3SA4	338	A352_65.8 P90 BE90S4	A352_65.8 P90 BX90S4	339
22.3	446	1.9	64.2	15000	A412_64.2 S3 ME3SA4	A412_64.2 S3 MX3SA4	342	A412_64.2 P90 BE90S4	A412_64.2 P90 BX90S4	343
22.4	430	3.5	63.9	20000	A503_63.9 S3 ME3SA4	A503_63.9 S3 MX3SA4	346	A503_63.9 P90 BE90S4	A503_63.9 P90 BX90S4	347
23.7	420	1.4	60.4	12000	A352_60.4 S3 ME3SA4	A352_60.4 S3 MX3SA4	338	A352_60.4 P90 BE90S4	A352_60.4 P90 BX90S4	339
24.1	413	1.0	59.4	7420	A302_59.4 S3 ME3SA4	A302_59.4 S3 MX3SA4	334	A302_59.4 P90 BE90S4	A302_59.4 P90 BX90S4	335
24.3	409	2.1	58.8	15000	A412_58.8 S3 ME3SA4	A412_58.8 S3 MX3SA4	342	A412_58.8 P90 BE90S4	A412_58.8 P90 BX90S4	343
26.3	378	1.6	54.3	12000	A352_54.3 S3 ME3SA4	A352_54.3 S3 MX3SA4	338	A352_54.3 P90 BE90S4	A352_54.3 P90 BX90S4	339
26.9	370	2.3	53.1	15000	A412_53.1 S3 ME3SA4	A412_53.1 S3 MX3SA4	342	A412_53.1 P90 BE90S4	A412_53.1 P90 BX90S4	343
27.1	366	1.1	52.7	7310	A302_52.7 S3 ME3SA4	A302_52.7 S3 MX3SA4	334	A302_52.7 P90 BE90S4	A302_52.7 P90 BX90S4	335
29.1	341	1.8	49.1	11800	A352_49.1 S3 ME3SA4	A352_49.1 S3 MX3SA4	338	A352_49.1 P90 BE90S4	A352_49.1 P90 BX90S4	339
29.6	336	1.2	48.3	7220	A302_48.3 S3 ME3SA4	A302_48.3 S3 MX3SA4	334	A302_48.3 P90 BE90S4	A302_48.3 P90 BX90S4	335
29.6	336	2.5	48.3	15000	A412_48.3 S3 ME3SA4	A412_48.3 S3 MX3SA4	342	A412_48.3 P90 BE90S4	A412_48.3 P90 BX90S4	343
31	319	1.9	45.8	11700	A352_45.8 S3 ME3SA4	A352_45.8 S3 MX3SA4	338	A352_45.8 P90 BE90S4	A352_45.8 P90 BX90S4	339
32	313	2.6	45.1	15000	A412_45.1 S3 ME3SA4	A412_45.1 S3 MX3SA4	342	A412_45.1 P90 BE90S4	A412_45.1 P90 BX90S4	343
33	302	1.4	43.4	7100	A302_43.4 S3 ME3SA4	A302_43.4 S3 MX3SA4	334	A302_43.4 P90 BE90S4	A302_43.4 P90 BX90S4	335
34	291	2.1	41.8	11400	A352_41.8 S3 ME3SA4	A352_41.8 S3 MX3SA4	338	A352_41.8 P90 BE90S4	A352_41.8 P90 BX90S4	339
36	276	0.9	39.6	4500	A202_39.6 S3 ME3SA4	A202_39.6 S3 MX3SA4	330	A202_39.6 P90 BE90S4	A202_39.6 P90 BX90S4	331
36	273	1.5	39.3	6970	A302_39.3 S3 ME3SA4	A302_39.3 S3 MX3SA4	334	A302_39.3 P90 BE90S4	A302_39.3 P90 BX90S4	335
39	255	1.6	36.6	6880	A302_36.6 S3 ME3SA4	A302_36.6 S3 MX3SA4	334	A302_36.6 P90 BE90S4	A302_36.6 P90 BX90S4	335
39	255	2.4	36.6	11100	A352_36.6 S3 ME3SA4	A352_36.6 S3 MX3SA4	338	A352_36.6 P90 BE90S4	A352_36.6 P90 BX90S4	339
40	250	3.1	35.9	14300	A412_35.9 S3 ME3SA4	A412_35.9 S3 MX3SA4	342	A412_35.9 P90 BE90S4	A412_35.9 P90 BX90S4	343
40	246	1.0	35.4	4380	A202_35.4 S3 ME3SA4	A202_35.4 S3 MX3SA4	330	A202_35.4 P90 BE90S4	A202_35.4 P90 BX90S4	331
43	233	1.8	33.4	6760	A302_33.4 S3 ME3SA4	A302_33.4 S3 MX3SA4	334	A302_33.4 P90 BE90S4	A302_33.4 P90 BX90S4	335
43	231	2.6	33.2	10800	A352_33.2 S3 ME3SA4	A352_33.2 S3 MX3SA4	338	A352_33.2 P90 BE90S4	A352_33.2 P90 BX90S4	339
46	218	1.1	31.3	4320	A202_31.3 S3 ME3SA4	A202_31.3 S3 MX3SA4	330	A202_31.3 P90 BE90S4	A202_31.3 P90 BX90S4	331
49	204	2.0	29.3	6580	A302_29.3 S3 ME3SA4	A302_29.3 S3 MX3SA4	334	A302_29.3 P90 BE90S4	A302_29.3 P90 BX90S4	335
49	203	1.2	29.2	4290	A202_29.2 S3 ME3SA4	A202_29.2 S3 MX3SA4	330	A202_29.2 P90 BE90S4	A202_29.2 P90 BX90S4	331
50	198	3.0	28.4	10400	A352_28.4 S3 ME3SA4	A352_28.4 S3 MX3SA4	338	A352_28.4 P90 BE90S4	A352_28.4 P90 BX90S4	339
54	185	2.2	26.5	6440	A302_26.5 S3 ME3SA4	A302_26.5 S3 MX3SA4	334	A302_26.5 P90 BE90S4	A302_26.5 P90 BX90S4	335
54	184	1.4	26.5	4230	A202_26.5 S3 ME3SA4	A202_26.5 S3 MX3SA4	330	A202_26.5 P90 BE90S4	A202_26.5 P90 BX90S4	331
56	179	3.4	25.7	10100	A352_25.7 S3 ME3SA4	A352_25.7 S3 MX3SA4	338	A352_25.7 P90 BE90S4	A352_25.7 P90 BX90S4	339
60	165	0.9	23.8	3640	A102_23.8 S3 ME3SA4	A102_23.8 S3 MX3SA4	326	A102_23.8 P90 BE90S4	A102_23.8 P90 BX90S4	327
62	161	1.6	23.1	4140	A202_23.1 S3 ME3SA4	A202_23.1 S3 MX3SA4	330	A202_23.1 P90 BE90S4	A202_23.1 P90 BX90S4	331
63	158	2.6	22.8	6220	A302_22.8 S3 ME3SA4	A302_22.8 S3 MX3SA4	334	A302_22.8 P90 BE90S4	A302_22.8 P90 BX90S4	335
67	149	1.0	21.4	4280	A102_21.4 S3 ME3SA4	A102_21.4 S3 MX3SA4	326	A102_21.4 P90 BE90S4	A102_21.4 P90 BX90S4	327
67	148	1.7	21.2	4080	A202_21.2 S3 ME3SA4	A202_21.2 S3 MX3SA4	330	A202_21.2 P90 BE90S4	A202_21.2 P90 BX90S4	331
70	143	2.9	20.5	6070	A302_20.5 S3 ME3SA4	A302_20.5 S3 MX3SA4	334	A302_20.5 P90 BE90S4	A302_20.5 P90 BX90S4	335
77	129	1.2	18.6	3540	A102_18.6 S3 ME3SA4	A102_18.6 S3 MX3SA4	326	A102_18.6 P90 BE90S4	A102_18.6 P90 BX90S4	327
79	126	2.0	18.1	3970	A202_18.1 S3 ME3SA4	A202_18.1 S3 MX3SA4	330	A202_18.1 P90 BE90S4	A202_18.1 P90 BX90S4	331
80	125	3.2	18.0	5880	A302_18.0 S3 ME3SA4	A302_18.0 S3 MX3SA4	334	A302_18.0 P90 BE90S4	A302_18.0 P90 BX90S4	335
87	114	1.3	16.4	4130	A102_16.4 S3 ME3SA4	A102_16.4 S3 MX3SA4	326	A102_16.4 P90 BE90S4	A102_16.4 P90 BX90S4	327
88	114	3.4	16.3	5740	A302_16.3 S3 ME3SA4	A302_16.3 S3 MX3SA4	334	A302_16.3 P90 BE90S4	A302_16.3 P90 BX90S4	335
88	112	2.2	16.2	3880	A202_16.2 S3 ME3SA4	A202_16.2 S3 MX3SA4	330	A202_16.2 P90 BE90S4	A202_16.2 P90 BX90S4	331
102	98	2.5	14.1	3770	A202_14.1 S3 ME3SA4	A202_14.1 S3 MX3SA4	330	A202_14.1 P90 BE90S4	A202_14.1 P90 BX90S4	331
103	97	1.5	13.9	3380	A102_13.9 S3 ME3SA4	A102_13.9 S3 MX3SA4	326	A102_13.9 P90 BE90S4	A102_13.9 P90 BX90S4	327
116	86	1.6	12.3	3300	A102_12.3 S3 ME3SA4	A102_12.3 S3 MX3SA4	326	A102_12.3 P90 BE90S4	A102_12.3 P90 BX90S4	327
120	83	2.5	12.0	3620	A202_12.0 S3 ME3SA4	A202_12.0 S3 MX3SA4	330	A202_12.0 P90 BE90S4	A202_12.0 P90 BX90S4	331
135	73	2.0	10.6	3210	A102_10.6 S3 ME3SA4	A102_10.6 S3 MX3SA4	326	A102_10.6 P90 BE90S4	A102_10.6 P90 BX90S4	327
138	72	3.1	10.3	3510	A202_10.3 S3 ME3SA4	A202_10.3 S3 MX3SA4	330	A202_10.3 P90 BE90S4	A202_10.3 P90 BX90S4	331
149	67	2.1	9.6	3140	A102_9.6 S3 ME3SA4	A102_9.6 S3 MX3SA4	326	A102_9.6 P90 BE90S4	A102_9.6 P90 BX90S4	327
153	65	3.2	9.4	3420	A202_9.4 S3 ME3SA4	A202_9.4 S3 MX3SA4	330	A202_9.4 P90 BE90S4	A202_9.4 P90 BX90S4	331
168	59	2.4	8.5	3630	A102_8.5 S3 ME3SA4	A102_8.5 S3 MX3SA4	326	A102_8.5 P90 BE90S4	A102_8.5 P90 BX90S4	327

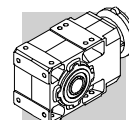


1.1 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC	IE2	IE3
198	50	2.8	7.2	2940	A102_7.2 S3 ME3SA4	A102_7.2 S3 MX3SA4	326	A102_7.2 P90 BE90S4	A102_7.2 P90 BX90S4
226	44	3.2	6.3	3390	A102_6.3 S3 ME3SA4	A102_6.3 S3 MX3SA4	326	A102_6.3 P90 BE90S4	A102_6.3 P90 BX90S4
230	43	3.3	12.3	2830	A102_12.3 S2 ME2SB2		326	A102_12.3 P80 BE80B2	
294	34	2.8	9.6	1600	A052_9.6 S2 ME2SB2		323	A052_9.6 P80 BE80B2	
332	30	3.0	8.5	1560	A052_8.5 S2 ME2SB2		323	A052_8.5 P80 BE80B2	
392	25	3.4	7.2	1500	A052_7.2 S2 ME2SB2		323	A052_7.2 P80 BE80B2	
447	22	3.6	6.3	1450	A052_6.3 S2 ME2SB2		323	A052_6.3 P80 BE80B2	
518	19.1	3.9	5.5	1400	A052_5.5 S2 ME2SB2		323	A052_5.5 P80 BE80B2	

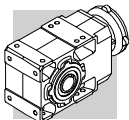
1.1 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC	IE3
0.88	10751	1.3	1632	75000		A904_1632 P90 BXN90S4	365
0.95	9924	1.4	1507	75000		A904_1507 P90 BXN90S4	365
1.1	8825	0.9	1340	65000		A804_1340 P90 BXN90S4	362
1.1	8720	1.6	1324	75000		A904_1324 P90 BXN90S4	365
1.2	8146	1.0	1237	65000		A804_1237 P90 BXN90S4	362
1.2	8049	1.7	1222	75000		A904_1222 P90 BXN90S4	365
1.3	7314	1.9	1111	75000		A904_1111 P90 BXN90S4	365
1.3	7145	1.1	1085	65000		A804_1085 P90 BXN90S4	362
1.4	6752	2.1	1025	75000		A904_1025 P90 BXN90S4	365
1.4	6595	1.2	1001	65000		A804_1001 P90 BXN90S4	362
1.5	6172	2.3	937.2	75000		A904_937.2 P90 BXN90S4	365
1.6	5919	1.4	898.7	65000		A804_898.7 P90 BXN90S4	362
1.7	5697	2.5	865.1	75000		A904_865.1 P90 BXN90S4	365
1.7	5633	0.9	855.3	50000		A704_855.3 P90 BXN90S4	359
1.7	5463	1.5	829.5	65000		A804_829.5 P90 BXN90S4	362
1.9	5051	2.8	766.9	75000		A904_766.9 P90 BXN90S4	365
1.9	5031	1.0	763.9	50000		A704_763.9 P90 BXN90S4	359
1.9	5019	1.6	762.1	65000		A804_762.1 P90 BXN90S4	362
2.0	4662	3.0	707.9	75000		A904_707.9 P90 BXN90S4	365
2.0	4644	1.1	705.1	50000		A704_705.1 P90 BXN90S4	359
2.0	4633	1.7	703.5	65000		A804_703.5 P90 BXN90S4	362
2.2	4245	1.2	644.6	50000		A704_644.6 P90 BXN90S4	359
2.4	3999	2.0	607.2	65000		A804_607.2 P90 BXN90S4	362
2.4	3962	3.5	601.6	75000		A904_601.6 P90 BXN90S4	365
2.4	3919	1.3	595.0	50000		A704_595.0 P90 BXN90S4	359
2.6	3691	2.2	560.5	65000		A804_560.5 P90 BXN90S4	362
2.8	3394	1.5	515.4	50000		A704_515.4 P90 BXN90S4	359
3.0	3154	2.5	478.9	65000		A804_478.9 P90 BXN90S4	362
3.0	3133	1.6	475.8	50000		A704_475.8 P90 BXN90S4	359
3.2	2912	2.7	442.1	65000		A804_442.1 P90 BXN90S4	362
3.3	2887	1.0	438.4	30000		A604_438.4 P90 BXN90S4	355
3.5	2665	1.1	404.7	30000		A604_404.7 P90 BXN90S4	355
3.6	2635	1.9	400.2	50000		A704_400.2 P90 BXN90S4	359
3.7	2526	3.2	383.5	65000		A804_383.5 P90 BXN90S4	362
3.9	2433	2.1	369.4	50000		A704_369.4 P90 BXN90S4	359
4.0	2331	3.4	354.0	65000		A804_354.0 P90 BXN90S4	362
4.1	2313	1.2	351.2	30000		A604_351.2 P90 BXN90S4	355
4.4	2139	0.9	324.7	30000		A554_324.7 P90 BXN90S4	351
4.4	2135	1.3	324.2	30000		A604_324.2 P90 BXN90S4	355
4.5	2083	2.4	316.4	50000		A704_316.4 P90 BXN90S4	359
4.9	1923	2.6	292.0	50000		A704_292.0 P90 BXN90S4	359
5.0	1886	1.5	286.3	30000		A604_286.3 P90 BXN90S4	355
5.4	1741	1.6	264.3	30000		A604_264.3 P90 BXN90S4	355
5.4	1730	1.2	262.6	30000		A554_262.6 P90 BXN90S4	351
5.5	1718	0.9	260.9	20000		A504_260.9 P90 BXN90S4	347
6.0	1571	3.2	238.6	50000		A704_238.6 P90 BXN90S4	359
6.2	1528	1.0	232.0	20000		A504_232.0 P90 BXN90S4	347



1.1 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
6.3	1489	1.9	226.1	30000		A604_226.1 P90 BXN90S4 355
6.5	1451	3.4	220.3	50000		A704_220.3 P90 BXN90S4 359
6.8	1390	1.1	211.0	20000		A504_211.0 P90 BXN90S4 347
6.9	1375	2.0	208.7	30000		A604_208.7 P90 BXN90S4 355
6.9	1370	1.4	208.1	30000		A554_208.1 P90 BXN90S4 351
7.4	1308	1.5	194.2	30000		A553_194.2 P90 BXN90S4 351
7.5	1283	1.2	190.6	20000		A503_190.6 P90 BXN90S4 347
7.7	1251	2.2	185.8	30000		A603_185.8 P90 BXN90S4 355
8.2	1179	1.7	175.0	30000		A553_175.0 P90 BXN90S4 351
8.2	1167	1.3	173.4	20000		A503_173.4 P90 BXN90S4 347
8.3	1155	2.4	171.5	30000		A603_171.5 P90 BXN90S4 355
8.9	1080	1.9	160.4	30000		A553_160.4 P90 BXN90S4 351
9.2	1051	2.7	156.0	30000		A603_156.0 P90 BXN90S4 355
9.3	1041	1.4	154.6	20000		A503_154.6 P90 BXN90S4 347
9.7	989	2.0	146.8	30000		A553_146.8 P90 BXN90S4 351
9.9	970	2.9	144.0	30000		A603_144.0 P90 BXN90S4 355
10.2	947	1.6	140.6	20000		A503_140.6 P90 BXN90S4 347
10.7	898	3.1	133.3	30000		A603_133.3 P90 BXN90S4 355
10.8	894	2.2	132.7	30000		A553_132.7 P90 BXN90S4 351
11.0	873	1.7	129.7	20000		A503_129.7 P90 BXN90S4 347
11.5	834	2.4	123.9	30000		A553_123.9 P90 BXN90S4 351
11.6	828	3.4	123.0	30000		A603_123.0 P90 BXN90S4 355
12.1	794	1.9	118.0	20000		A503_118.0 P90 BXN90S4 347
12.3	780	1.1	115.9	15000		A413_115.9 P90 BXN90S4 343
13.1	737	2.0	109.4	20000		A503_109.4 P90 BXN90S4 347
14.1	683	2.9	101.4	30000		A553_101.4 P90 BXN90S4 351
14.4	670	2.2	99.5	20000		A503_99.5 P90 BXN90S4 347
15.4	625	1.3	92.8	15000		A413_92.8 P90 BXN90S4 343
16.0	603	2.5	89.5	20000		A503_89.5 P90 BXN90S4 347
17.3	574	1.0	82.5	12000		A352_82.5 P90 BXN90S4 339
17.6	548	2.7	81.5	20000		A503_81.5 P90 BXN90S4 347
18.0	551	1.5	79.2	15000		A412_79.2 P90 BXN90S4 343
19.3	517	1.2	74.3	12000		A352_74.3 P90 BXN90S4 339
20.1	496	1.7	71.3	15000		A412_71.3 P90 BXN90S4 343
20.4	473	3.2	70.2	20000		A503_70.2 P90 BXN90S4 347
21.7	458	1.3	65.8	12000		A352_65.8 P90 BXN90S4 339
22.3	446	1.9	64.2	15000		A412_64.2 P90 BXN90S4 343
22.4	430	3.5	63.9	20000		A503_63.9 P90 BXN90S4 347
23.7	420	1.4	60.4	12000		A352_60.4 P90 BXN90S4 339
24.1	413	1.0	59.4	7420		A302_59.4 P90 BXN90S4 335
24.3	409	2.1	58.8	15000		A412_58.8 P90 BXN90S4 343
26.3	378	1.6	54.3	12000		A352_54.3 P90 BXN90S4 339
26.9	370	2.3	53.1	15000		A412_53.1 P90 BXN90S4 343
27.1	366	1.1	52.7	7310		A302_52.7 P90 BXN90S4 335
29.1	341	1.8	49.1	11800		A352_49.1 P90 BXN90S4 339
29.6	336	1.2	48.3	7220		A302_48.3 P90 BXN90S4 335
29.6	336	2.5	48.3	15000		A412_48.3 P90 BXN90S4 343
31	319	1.9	45.8	11700		A352_45.8 P90 BXN90S4 339
32	313	2.6	45.1	15000		A412_45.1 P90 BXN90S4 343
33	302	1.4	43.4	7100		A302_43.4 P90 BXN90S4 335
34	291	2.1	41.8	11400		A352_41.8 P90 BXN90S4 339
36	276	0.9	39.6	4500		A202_39.6 P90 BXN90S4 331
36	273	1.5	39.3	6970		A302_39.3 P90 BXN90S4 335
39	255	1.6	36.6	6880		A302_36.6 P90 BXN90S4 335
39	255	2.4	36.6	11100		A352_36.6 P90 BXN90S4 339
40	250	3.1	35.9	14300		A412_35.9 P90 BXN90S4 343
40	246	1.0	35.4	4380		A202_35.4 P90 BXN90S4 331
43	233	1.8	33.4	6760		A302_33.4 P90 BXN90S4 335
43	231	2.6	33.2	10800		A352_33.2 P90 BXN90S4 339
46	218	1.1	31.3	4320		A202_31.3 P90 BXN90S4 331
49	204	2.0	29.3	6580		A302_29.3 P90 BXN90S4 335

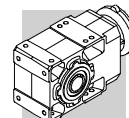


1.1 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
49	203	1.2	29.2	4290		A202_29.2 P90 BXN90S4 331
50	198	3.0	28.4	10400		A352_28.4 P90 BXN90S4 339
54	185	2.2	26.5	6440		A302_26.5 P90 BXN90S4 335
54	184	1.4	26.5	4230		A202_26.5 P90 BXN90S4 331
56	179	3.4	25.7	10100		A352_25.7 P90 BXN90S4 339
60	165	0.9	23.8	3640		A102_23.8 P90 BXN90S4 327
62	161	1.6	23.1	4140		A202_23.1 P90 BXN90S4 331
63	158	2.6	22.8	6220		A302_22.8 P90 BXN90S4 335
67	149	1.0	21.4	4280		A102_21.4 P90 BXN90S4 327
67	148	1.7	21.2	4080		A202_21.2 P90 BXN90S4 331
70	143	2.9	20.5	6070		A302_20.5 P90 BXN90S4 335
77	129	1.2	18.6	3540		A102_18.6 P90 BXN90S4 327
79	126	2.0	18.1	3970		A202_18.1 P90 BXN90S4 331
80	125	3.2	18.0	5880		A302_18.0 P90 BXN90S4 335
87	114	1.3	16.4	4130		A102_16.4 P90 BXN90S4 327
88	114	3.4	16.3	5740		A302_16.3 P90 BXN90S4 335
88	112	2.2	16.2	3880		A202_16.2 P90 BXN90S4 331
102	98	2.5	14.1	3770		A202_14.1 P90 BXN90S4 331
103	97	1.5	13.9	3380		A102_13.9 P90 BXN90S4 327
116	86	1.6	12.3	3300		A102_12.3 P90 BXN90S4 327
120	83	2.5	12.0	3620		A202_12.0 P90 BXN90S4 331
135	73	2.0	10.6	3210		A102_10.6 P90 BXN90S4 327
138	72	3.1	10.3	3510		A202_10.3 P90 BXN90S4 331
149	67	2.1	9.6	3140		A102_9.6 P90 BXN90S4 327
153	65	3.2	9.4	3420		A202_9.4 P90 BXN90S4 331
168	59	2.4	8.5	3630		A102_8.5 P90 BXN90S4 327
198	50	2.8	7.2	2940		A102_7.2 P90 BXN90S4 327
226	44	3.2	6.3	3390		A102_6.3 P90 BXN90S4 327

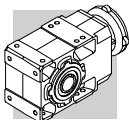
1.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC IE2	IEC IE3
0.88	14528	1.0	1632	75000	A904_1632 S3 ME3SB4	A904_1632 S3 MX3SB4	364	A904_1632 P90 BE90LA4 365
0.95	13410	1.0	1507	75000	A904_1507 S3 ME3SB4	A904_1507 S3 MX3SB4	364	A904_1507 P90 BE90LA4 365
1.1	11784	1.2	1324	75000	A904_1324 S3 ME3SB4	A904_1324 S3 MX3SB4	364	A904_1324 P90 BE90LA4 365
1.2	10877	1.3	1222	75000	A904_1222 S3 ME3SB4	A904_1222 S3 MX3SB4	364	A904_1222 P90 BE90LA4 365
1.3	9884	1.4	1111	75000	A904_1111 S3 ME3SB4	A904_1111 S3 MX3SB4	364	A904_1111 P90 BE90LA4 365
1.4	9124	1.5	1025	75000	A904_1025 S3 ME3SB4	A904_1025 S3 MX3SB4	364	A904_1025 P90 BE90LA4 365
1.4	8913	0.9	1001	65000	A804_1001 S3 ME3SB4	A804_1001 S3 MX3SB4	361	A804_1001 P90 BE90LA4 362
1.5	8341	1.7	937.2	75000	A904_937.2 S3 ME3SB4	A904_937.2 S3 MX3SB4	364	A904_937.2 P90 BE90LA4 365
1.6	7998	1.0	898.7	65000	A804_898.7 S3 ME3SB4	A804_898.7 S3 MX3SB4	361	A804_898.7 P90 BE90LA4 362
1.7	7699	1.8	865.1	75000	A904_865.1 S3 ME3SB4	A904_865.1 S3 MX3SB4	364	A904_865.1 P90 BE90LA4 365
1.7	7383	1.1	829.5	65000	A804_829.5 S3 ME3SB4	A804_829.5 S3 MX3SB4	361	A804_829.5 P90 BE90LA4 362
1.9	6826	2.1	766.9	75000	A904_766.9 S3 ME3SB4	A904_766.9 S3 MX3SB4	364	A904_766.9 P90 BE90LA4 365
1.9	6783	1.2	762.1	65000	A804_762.1 S3 ME3SB4	A804_762.1 S3 MX3SB4	361	A804_762.1 P90 BE90LA4 362
2.0	6300	2.2	707.9	75000	A904_707.9 S3 ME3SB4	A904_707.9 S3 MX3SB4	364	A904_707.9 P90 BE90LA4 365
2.0	6261	1.3	703.5	65000	A804_703.5 S3 ME3SB4	A804_703.5 S3 MX3SB4	361	A804_703.5 P90 BE90LA4 362
2.2	5737	0.9	644.6	50000	A704_644.6 S3 ME3SB4	A704_644.6 S3 MX3SB4	358	A704_644.6 P90 BE90LA4 359
2.4	5404	1.5	607.2	65000	A804_607.2 S3 ME3SB4	A804_607.2 S3 MX3SB4	361	A804_607.2 P90 BE90LA4 362
2.4	5354	2.6	601.6	75000	A904_601.6 S3 ME3SB4	A904_601.6 S3 MX3SB4	364	A904_601.6 P90 BE90LA4 365
2.4	5296	0.9	595.0	50000	A704_595.0 S3 ME3SB4	A704_595.0 S3 MX3SB4	358	A704_595.0 P90 BE90LA4 359
2.6	4988	1.6	560.5	65000	A804_560.5 S3 ME3SB4	A804_560.5 S3 MX3SB4	361	A804_560.5 P90 BE90LA4 362
2.6	4942	2.8	555.3	75000	A904_555.3 S3 ME3SB4	A904_555.3 S3 MX3SB4	364	A904_555.3 P90 BE90LA4 365
2.8	4587	1.1	515.4	50000	A704_515.4 S3 ME3SB4	A704_515.4 S3 MX3SB4	358	A704_515.4 P90 BE90LA4 359
2.9	4331	3.2	486.6	75000	A904_486.6 S3 ME3SB4	A904_486.6 S3 MX3SB4	364	A904_486.6 P90 BE90LA4 365
3.0	4262	1.9	478.9	65000	A804_478.9 S3 ME3SB4	A804_478.9 S3 MX3SB4	361	A804_478.9 P90 BE90LA4 362
3.0	4234	1.2	475.8	50000	A704_475.8 S3 ME3SB4	A704_475.8 S3 MX3SB4	358	A704_475.8 P90 BE90LA4 359
3.2	3998	3.5	449.2	75000	A904_449.2 S3 ME3SB4	A904_449.2 S3 MX3SB4	364	A904_449.2 P90 BE90LA4 365



1.5 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2		IE3		IEC	
					IE2	IE3	IE2	IE3	IE2	IE3
3.2	3935	2.0	442.1	65000	A804_442.1 S3 ME3SB4	A804_442.1 S3 MX3SB4	361	A804_442.1 P90 BE90LA4	A804_442.1 P90 BX90LA4	362
3.6	3561	1.4	400.2	50000	A704_400.2 S3 ME3SB4	A704_400.2 S3 MX3SB4	358	A704_400.2 P90 BE90LA4	A704_400.2 P90 BX90LA4	359
3.7	3413	2.3	383.5	65000	A804_383.5 S3 ME3SB4	A804_383.5 S3 MX3SB4	361	A804_383.5 P90 BE90LA4	A804_383.5 P90 BX90LA4	362
3.9	3288	1.5	369.4	50000	A704_369.4 S3 ME3SB4	A704_369.4 S3 MX3SB4	358	A704_369.4 P90 BE90LA4	A704_369.4 P90 BX90LA4	359
4.0	3150	2.5	354.0	65000	A804_354.0 S3 ME3SB4	A804_354.0 S3 MX3SB4	361	A804_354.0 P90 BE90LA4	A804_354.0 P90 BX90LA4	362
4.1	3126	0.9	351.2	30000	A604_351.2 S3 ME3SB4	A604_351.2 S3 MX3SB4	354	A604_351.2 P90 BE90LA4	A604_351.2 P90 BX90LA4	355
4.4	2885	1.0	324.2	30000	A604_324.2 S3 ME3SB4	A604_324.2 S3 MX3SB4	354	A604_324.2 P90 BE90LA4	A604_324.2 P90 BX90LA4	355
4.5	2816	1.8	316.4	50000	A704_316.4 S3 ME3SB4	A704_316.4 S3 MX3SB4	358	A704_316.4 P90 BE90LA4	A704_316.4 P90 BX90LA4	359
4.8	2673	3.0	300.4	65000	A804_300.4 S3 ME3SB4	A804_300.4 S3 MX3SB4	361	A804_300.4 P90 BE90LA4	A804_300.4 P90 BX90LA4	362
4.9	2599	1.9	292.0	50000	A704_292.0 S3 ME3SB4	A704_292.0 S3 MX3SB4	358	A704_292.0 P90 BE90LA4	A704_292.0 P90 BX90LA4	359
5.0	2548	1.1	286.3	30000	A604_286.3 S3 ME3SB4	A604_286.3 S3 MX3SB4	354	A604_286.3 P90 BE90LA4	A604_286.3 P90 BX90LA4	355
5.2	2468	3.2	277.3	65000	A804_277.3 S3 ME3SB4	A804_277.3 S3 MX3SB4	361	A804_277.3 P90 BE90LA4	A804_277.3 P90 BX90LA4	362
5.4	2352	1.2	264.3	30000	A604_264.3 S3 ME3SB4	A604_264.3 S3 MX3SB4	354	A604_264.3 P90 BE90LA4	A604_264.3 P90 BX90LA4	355
6.0	2124	2.4	238.6	50000	A704_238.6 S3 ME3SB4	A704_238.6 S3 MX3SB4	358	A704_238.6 P90 BE90LA4	A704_238.6 P90 BX90LA4	359
6.3	2013	1.4	226.1	30000	A604_226.1 S3 ME3SB4	A604_226.1 S3 MX3SB4	354	A604_226.1 P90 BE90LA4	A604_226.1 P90 BX90LA4	355
6.5	1960	2.6	220.3	50000	A704_220.3 S3 ME3SB4	A704_220.3 S3 MX3SB4	358	A704_220.3 P90 BE90LA4	A704_220.3 P90 BX90LA4	359
6.9	1858	1.5	208.7	30000	A604_208.7 S3 ME3SB4	A604_208.7 S3 MX3SB4	354	A604_208.7 P90 BE90LA4	A604_208.7 P90 BX90LA4	355
6.9	1852	1.1	208.1	30000	A554_208.1 S3 ME3SB4	A554_208.1 S3 MX3SB4	350	A554_208.1 P90 BE90LA4	A554_208.1 P90 BX90LA4	351
7.4	1767	1.1	194.2	30000	A553_194.2 S3 ME3SB4	A553_194.2 S3 MX3SB4	350	A553_194.2 P90 BE90LA4	A553_194.2 P90 BX90LA4	351
7.7	1690	1.7	185.8	30000	A603_185.8 S3 ME3SB4	A603_185.8 S3 MX3SB4	354	A603_185.8 P90 BE90LA4	A603_185.8 P90 BX90LA4	355
7.8	1637	3.1	183.9	50000	A704_183.9 S3 ME3SB4	A704_183.9 S3 MX3SB4	358	A704_183.9 P90 BE90LA4	A704_183.9 P90 BX90LA4	359
8.2	1593	1.3	175.0	30000	A553_175.0 S3 ME3SB4	A553_175.0 S3 MX3SB4	350	A553_175.0 P90 BE90LA4	A553_175.0 P90 BX90LA4	351
8.2	1578	1.0	173.4	20000	A503_173.4 S3 ME3SB4	A503_173.4 S3 MX3SB4	346	A503_173.4 P90 BE90LA4	A503_173.4 P90 BX90LA4	347
8.3	1560	1.8	171.5	30000	A603_171.5 S3 ME3SB4	A603_171.5 S3 MX3SB4	354	A603_171.5 P90 BE90LA4	A603_171.5 P90 BX90LA4	355
8.4	1511	3.3	169.8	50000	A704_169.8 S3 ME3SB4	A704_169.8 S3 MX3SB4	358	A704_169.8 P90 BE90LA4	A704_169.8 P90 BX90LA4	359
8.9	1460	1.4	160.4	30000	A553_160.4 S3 ME3SB4	A553_160.4 S3 MX3SB4	350	A553_160.4 P90 BE90LA4	A553_160.4 P90 BX90LA4	351
9.2	1420	2.0	156.0	30000	A603_156.0 S3 ME3SB4	A603_156.0 S3 MX3SB4	354	A603_156.0 P90 BE90LA4	A603_156.0 P90 BX90LA4	355
9.3	1407	1.1	154.6	20000	A503_154.6 S3 ME3SB4	A503_154.6 S3 MX3SB4	346	A503_154.6 P90 BE90LA4	A503_154.6 P90 BX90LA4	347
9.3	1399	2.9	153.7	50000	A703_153.7 S3 ME3SB4	A703_153.7 S3 MX3SB4	350	A703_153.7 P90 BE90LA4	A703_153.7 P90 BX90LA4	359
9.7	1336	1.5	146.8	30000	A553_146.8 S3 ME3SB4	A553_146.8 S3 MX3SB4	350	A553_146.8 P90 BE90LA4	A553_146.8 P90 BX90LA4	351
9.9	1311	2.1	144.0	30000	A603_144.0 S3 ME3SB4	A603_144.0 S3 MX3SB4	354	A603_144.0 P90 BE90LA4	A603_144.0 P90 BX90LA4	355
10.2	1280	1.2	140.6	20000	A503_140.6 S3 ME3SB4	A503_140.6 S3 MX3SB4	346	A503_140.6 P90 BE90LA4	A503_140.6 P90 BX90LA4	347
10.7	1213	2.3	133.3	30000	A603_133.3 S3 ME3SB4	A603_133.3 S3 MX3SB4	354	A603_133.3 P90 BE90LA4	A603_133.3 P90 BX90LA4	355
10.8	1208	1.7	132.7	30000	A553_132.7 S3 ME3SB4	A553_132.7 S3 MX3SB4	350	A553_132.7 P90 BE90LA4	A553_132.7 P90 BX90LA4	351
11.0	1180	1.3	129.7	20000	A503_129.7 S3 ME3SB4	A503_129.7 S3 MX3SB4	346	A503_129.7 P90 BE90LA4	A503_129.7 P90 BX90LA4	347
11.5	1127	1.8	123.9	30000	A553_123.9 S3 ME3SB4	A553_123.9 S3 MX3SB4	350	A553_123.9 P90 BE90LA4	A553_123.9 P90 BX90LA4	351
11.6	1120	2.5	123.0	30000	A603_123.0 S3 ME3SB4	A603_123.0 S3 MX3SB4	354	A603_123.0 P90 BE90LA4	A603_123.0 P90 BX90LA4	355
12.1	1073	1.4	118.0	20000	A503_118.0 S3 ME3SB4	A503_118.0 S3 MX3SB4	346	A503_118.0 P90 BE90LA4	A503_118.0 P90 BX90LA4	347
13.1	996	1.5	109.4	20000	A503_109.4 S3 ME3SB4	A503_109.4 S3 MX3SB4	346	A503_109.4 P90 BE90LA4	A503_109.4 P90 BX90LA4	347
13.3	981	2.9	107.8	30000	A603_107.8 S3 ME3SB4	A603_107.8 S3 MX3SB4	354	A603_107.8 P90 BE90LA4	A603_107.8 P90 BX90LA4	355
14.1	923	2.2	101.4	30000	A553_101.4 S3 ME3SB4	A553_101.4 S3 MX3SB4	350	A553_101.4 P90 BE90LA4	A553_101.4 P90 BX90LA4	351
14.4	906	1.7	99.5	20000	A503_99.5 S3 ME3SB4	A503_99.5 S3 MX3SB4	346	A503_99.5 P90 BE90LA4	A503_99.5 P90 BX90LA4	347
14.4	906	3.1	99.5	30000	A603_99.5 S3 ME3SB4	A603_99.5 S3 MX3SB4	354	A603_99.5 P90 BE90LA4	A603_99.5 P90 BX90LA4	355
15.4	844	0.9	92.8	15000	A413_92.8 S3 ME3SB4	A413_92.8 S3 MX3SB4	342	A413_92.8 P90 BE90LA4	A413_92.8 P90 BX90LA4	343
16.0	815	1.8	89.5	20000	A503_89.5 S3 ME3SB4	A503_89.5 S3 MX3SB4	346	A503_89.5 P90 BE90LA4	A503_89.5 P90 BX90LA4	347
16.6	786	3.6	86.4	30000	A603_86.4 S3 ME3SB4	A603_86.4 S3 MX3SB4	354	A603_86.4 P90 BE90LA4	A603_86.4 P90 BX90LA4	355
17.6	741	2.0	81.5	20000	A503_81.5 S3 ME3SB4	A503_81.5 S3 MX3SB4	346	A503_81.5 P90 BE90LA4	A503_81.5 P90 BX90LA4	347
18.0	724	2.8	79.5	30000	A553_79.5 S3 ME3SB4	A553_79.5 S3 MX3SB4	350	A553_79.5 P90 BE90LA4	A553_79.5 P90 BX90LA4	351
18.0	745	1.1	79.2	15000	A412_79.2 S3 ME3SB4	A412_79.2 S3 MX3SB4	342	A412_79.2 P90 BE90LA4	A412_79.2 P90 BX90LA4	343
20.1	670	1.3	71.3	15000	A412_71.3 S3 ME3SB4	A412_71.3 S3 MX3SB4	342	A412_71.3 P90 BE90LA4	A412_71.3 P90 BX90LA4	343
20.4	639	2.3	70.2	20000	A503_70.2 S3 ME3SB4	A503_70.2 S3 MX3SB4	346	A503_70.2 P90 BE90LA4	A503_70.2 P90 BX90LA4	347
21.7	619	1.0	65.8	11600	A352_65.8 S3 ME3SB4	A352_65.8 S3 MX3SB4	338	A352_65.8 P90 BE90LA4	A352_65.8 P90 BX90LA4	339
22.2	585	3.4	64.3	30000	A553_64.3 S3 ME3SB4	A553_64.3 S3 MX3SB4	350	A553_64.3 P90 BE90LA4	A553_64.3 P90 BX90LA4	351
22.3	603	1.4	64.2	15000	A412_64.2 S3 ME3SB4	A412_64.2 S3 MX3SB4	342	A412_64.2 P90 BE90LA4	A412_64.2 P90 BX90LA4	343
22.4	581	2.6	63.9	20000	A503_63.9 S3 ME3SB4	A503_63.9 S3 MX3SB4	346	A503_63.9 P90 BE90LA4	A503_63.9 P90 BX90LA4	347
23.7	567	1.1	60.4	11500	A352_60.4 S3 ME3SB4	A352_60.4 S3 MX3SB4	338	A352_60.4 P90 BE90LA4	A352_60.4 P90 BX90LA4	339
24.3	553	1.5	58.8	15000	A412_58.8 S3 ME3SB4	A412_58.8 S3 MX3SB4	342	A412_58.8 P90 BE90LA4	A412_58.8 P90 BX90LA4	343
25.2	517	2.9	56.8	20000	A503_56.8 S3 ME3SB4	A503_56.8 S3 MX3SB4	346	A503_56.8 P90 BE90LA4	A503_56.8 P90 BX90LA4	347
26.3	510	1.2	54.3	11300	A352_54.3 S3 ME3SB4	A352_54.3 S3 MX3SB4	338	A352_54.3 P90 BE90LA4	A352_54.3 P90 BX90LA4	339
26.9	500	1.7	53.1	15000	A412_53.1 S3 ME3SB4	A412_53.1 S3 MX3SB4	342	A412_53.1 P90 BE90LA4	A412_53.1 P90 BX90LA4	343
27.7	470	3.2	51.7	19700	A503_51.7 S3 ME3SB4	A503_51.7 S3 MX3SB4	346	A503_51.7 P90 BE90LA4	A503_51.7 P90 BX90LA4	347
29.1	461	1.3	49.1	11100	A352_49.1 S3 ME3SB4	A352_49.1 S3 MX3SB4	338	A352_49.1 P90 BE90LA4	A352_49.1 P90 BX90LA4	339
29.6	454	0.9	48.3	6680	A302_48.3 S3 ME3SB4	A302_48.3 S3 MX3SB4	334	A302_48.3 P90 BE90LA4	A302_48.3 P90 BX90LA4	335
29.6	454	1.9	48.3	14900	A412_48.3 S3 ME3SB4	A412_48.3 S3 MX3SB4	342	A412_48.3 P90 BE90LA4	A412_48.3 P90 BX90LA4	343
31	431	1.4	45.8	11000	A352_45.8 S3 ME3SB4	A352_45.8 S3 MX3SB4	338	A352_45.8 P90 BE90LA4	A352_45.8 P90 BX90LA4	339
32	424	2.0	45.1	14600	A412_45.1 S3 ME3SB4	A412_45.1 S3 MX3SB4	342	A412_45.1 P90 BE90LA4	A412_45.1 P90 BX90LA4	343
33	408	1.0	43.4	6450	A302_43.4 S3 ME3SB4	A302_43.4 S3 MX3SB4	334	A302_43.4 P90 BE90LA4	A302_43.4 P90 BX90LA4	335

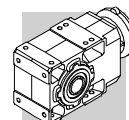


1.5 kW

n ₂	M ₂	S	i	R _{n2}					IEC		
min ⁻¹	Nm			N	IE2	IE3		IE2	IE3		
34	393	1.5	41.8	10800	A352_41.8 S3 ME3SB4	A352_41.8 S3 MX3SB4	338	A352_41.8 P90 BE90LA4	A352_41.8 P90 BX90LA4	339	
36	369	1.1	39.3	6380	A302_39.3 S3 ME3SB4	A302_39.3 S3 MX3SB4	334	A302_39.3 P90 BE90LA4	A302_39.3 P90 BX90LA4	335	
39	344	1.2	36.6	6330	A302_36.6 S3 ME3SB4	A302_36.6 S3 MX3SB4	334	A302_36.6 P90 BE90LA4	A302_36.6 P90 BX90LA4	335	
39	344	1.7	36.6	10500	A352_36.6 S3 ME3SB4	A352_36.6 S3 MX3SB4	338	A352_36.6 P90 BE90LA4	A352_36.6 P90 BX90LA4	339	
40	338	2.3	35.9	13800	A412_35.9 S3 ME3SB4	A412_35.9 S3 MX3SB4	342	A412_35.9 P90 BE90LA4	A412_35.9 P90 BX90LA4	343	
43	314	1.3	33.4	6260	A302_33.4 S3 ME3SB4	A302_33.4 S3 MX3SB4	334	A302_33.4 P90 BE90LA4	A302_33.4 P90 BX90LA4	335	
43	312	1.9	33.2	10300	A352_33.2 S3 ME3SB4	A352_33.2 S3 MX3SB4	338	A352_33.2 P90 BE90LA4	A352_33.2 P90 BX90LA4	339	
49	275	1.5	29.3	6140	A302_29.3 S3 ME3SB4	A302_29.3 S3 MX3SB4	334	A302_29.3 P90 BE90LA4	A302_29.3 P90 BX90LA4	335	
49	275	0.9	29.2	3820	A202_29.2 S3 ME3SB4	A202_29.2 S3 MX3SB4	330	A202_29.2 P90 BE90LA4	A202_29.2 P90 BX90LA4	331	
50	267	2.2	28.4	9940	A352_28.4 S3 ME3SB4	A352_28.4 S3 MX3SB4	338	A352_28.4 P90 BE90LA4	A352_28.4 P90 BX90LA4	339	
50	266	2.7	28.3	13000	A412_28.3 S3 ME3SB4	A412_28.3 S3 MX3SB4	342	A412_28.3 P90 BE90LA4	A412_28.3 P90 BX90LA4	343	
54	249	1.6	26.5	6040	A302_26.5 S3 ME3SB4	A302_26.5 S3 MX3SB4	334	A302_26.5 P90 BE90LA4	A302_26.5 P90 BX90LA4	335	
54	249	1.0	26.5	3790	A202_26.5 S3 ME3SB4	A202_26.5 S3 MX3SB4	330	A202_26.5 P90 BE90LA4	A202_26.5 P90 BX90LA4	331	
56	241	2.5	25.7	9710	A352_25.7 S3 ME3SB4	A352_25.7 S3 MX3SB4	338	A352_25.7 P90 BE90LA4	A352_25.7 P90 BX90LA4	339	
62	217	1.2	23.1	3760	A202_23.1 S3 ME3SB4	A202_23.1 S3 MX3SB4	330	A202_23.1 P90 BE90LA4	A202_23.1 P90 BX90LA4	331	
63	214	1.9	22.8	5870	A302_22.8 S3 ME3SB4	A302_22.8 S3 MX3SB4	334	A302_22.8 P90 BE90LA4	A302_22.8 P90 BX90LA4	335	
63	213	3.2	22.7	12200	A412_22.7 S3 ME3SB4	A412_22.7 S3 MX3SB4	342	A412_22.7 P90 BE90LA4	A412_22.7 P90 BX90LA4	343	
64	211	2.8	22.5	9400	A352_22.5 S3 ME3SB4	A352_22.5 S3 MX3SB4	338	A352_22.5 P90 BE90LA4	A352_22.5 P90 BX90LA4	339	
67	200	1.3	21.2	3730	A202_21.2 S3 ME3SB4	A202_21.2 S3 MX3SB4	330	A202_21.2 P90 BE90LA4	A202_21.2 P90 BX90LA4	331	
70	193	2.1	20.5	5760	A302_20.5 S3 ME3SB4	A302_20.5 S3 MX3SB4	334	A302_20.5 P90 BE90LA4	A302_20.5 P90 BX90LA4	335	
70	192	3.1	20.4	9170	A352_20.4 S3 ME3SB4	A352_20.4 S3 MX3SB4	338	A352_20.4 P90 BE90LA4	A352_20.4 P90 BX90LA4	339	
79	170	1.5	18.1	3660	A202_18.1 S3 ME3SB4	A202_18.1 S3 MX3SB4	330	A202_18.1 P90 BE90LA4	A202_18.1 P90 BX90LA4	331	
80	169	2.4	18.0	5600	A302_18.0 S3 ME3SB4	A302_18.0 S3 MX3SB4	334	A302_18.0 P90 BE90LA4	A302_18.0 P90 BX90LA4	335	
87	155	1.0	16.4	3720	A102_16.4 S3 ME3SB4	A102_16.4 S3 MX3SB4	326	A102_16.4 P90 BE90LA4	A102_16.4 P90 BX90LA4	327	
88	154	2.5	16.3	5480	A302_16.3 S3 ME3SB4	A302_16.3 S3 MX3SB4	334	A302_16.3 P90 BE90LA4	A302_16.3 P90 BX90LA4	335	
88	152	1.6	16.2	3600	A202_16.2 S3 ME3SB4	A202_16.2 S3 MX3SB4	330	A202_16.2 P90 BE90LA4	A202_16.2 P90 BX90LA4	331	
102	132	1.9	14.1	3530	A202_14.1 S3 ME3SB4	A202_14.1 S3 MX3SB4	330	A202_14.1 P90 BE90LA4	A202_14.1 P90 BX90LA4	331	
103	131	1.1	13.9	3090	A102_13.9 S3 ME3SB4	A102_13.9 S3 MX3SB4	326	A102_13.9 P90 BE90LA4	A102_13.9 P90 BX90LA4	327	
105	128	2.9	13.6	5250	A302_13.6 S3 ME3SB4	A302_13.6 S3 MX3SB4	334	A302_13.6 P90 BE90LA4	A302_13.6 P90 BX90LA4	335	
116	116	1.2	12.3	3040	A102_12.3 S3 ME3SB4	A102_12.3 S3 MX3SB4	326	A102_12.3 P90 BE90LA4	A102_12.3 P90 BX90LA4	327	
120	112	1.9	12.0	3420	A202_12.0 S3 ME3SB4	A202_12.0 S3 MX3SB4	330	A202_12.0 P90 BE90LA4	A202_12.0 P90 BX90LA4	331	
121	111	2.7	11.8	5060	A302_11.8 S3 ME3SB4	A302_11.8 S3 MX3SB4	334	A302_11.8 P90 BE90LA4	A302_11.8 P90 BX90LA4	335	
125	107	3.3	22.8	5040	A302_22.8 S3 ME3SA2		334	A302_22.8 P90 BE90SA2		335	
135	99	1.5	10.6	2990	A102_10.6 S3 ME3SB4	A102_10.6 S3 MX3SB4	326	A102_10.6 P90 BE90LA4	A102_10.6 P90 BX90LA4	327	
137	98	3.5	10.5	4930	A302_10.5 S3 ME3SB4	A302_10.5 S3 MX3SB4	334	A302_10.5 P90 BE90LA4	A302_10.5 P90 BX90LA4	335	
138	97	2.3	10.3	3330	A202_10.3 S3 ME3SB4	A202_10.3 S3 MX3SB4	330	A202_10.3 P90 BE90LA4	A202_10.3 P90 BX90LA4	331	
149	90	1.5	9.6	2940	A102_9.6 S3 ME3SB4	A102_9.6 S3 MX3SB4	326	A102_9.6 P90 BE90LA4	A102_9.6 P90 BX90LA4	327	
153	88	2.4	9.4	3250	A202_9.4 S3 ME3SB4	A202_9.4 S3 MX3SB4	330	A202_9.4 P90 BE90LA4	A202_9.4 P90 BX90LA4	331	
154	88	3.4	9.3	4770	A302_9.3 S3 ME3SB4	A302_9.3 S3 MX3SB4	334	A302_9.3 P90 BE90LA4	A302_9.3 P90 BX90LA4	335	
168	80	1.7	8.5	3420	A102_8.5 S3 ME3SB4	A102_8.5 S3 MX3SB4	326	A102_8.5 P90 BE90LA4	A102_8.5 P90 BX90LA4	327	
171	79	2.7	8.4	3180	A202_8.4 S3 ME3SB4	A202_8.4 S3 MX3SB4	330	A202_8.4 P90 BE90LA4	A202_8.4 P90 BX90LA4	331	
196	69	3.1	7.3	3080	A202_7.3 S3 ME3SB4	A202_7.3 S3 MX3SB4	330	A202_7.3 P90 BE90LA4	A202_7.3 P90 BX90LA4	331	
198	68	2.1	7.2	2790	A102_7.2 S3 ME3SB4	A102_7.2 S3 MX3SB4	326	A102_7.2 P90 BE90LA4	A102_7.2 P90 BX90LA4	327	
219	61	3.4	6.5	3000	A202_6.5 S3 ME3SB4	A202_6.5 S3 MX3SB4	330	A202_6.5 P90 BE90LA4	A202_6.5 P90 BX90LA4	331	
226	60	2.4	6.3	3220	A102_6.3 S3 ME3SB4	A102_6.3 S3 MX3SB4	326	A102_6.3 P90 BE90LA4	A102_6.3 P90 BX90LA4	327	
262	51	2.7	5.5	2630	A102_5.5 S3 ME3SB4	A102_5.5 S3 MX3SB4	326	A102_5.5 P90 BE90LA4	A102_5.5 P90 BX90LA4	327	
297	45	3.1	9.6	2560	A102_9.6 S3 ME3SA2		326	A102_9.6 P90 BE90SA2		327	
335	40	3.5	8.5	2950	A102_8.5 S3 ME3SA2		326	A102_8.5 P90 BE90SA2		327	

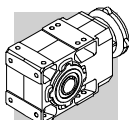
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC	IE3
0.88	14528	1.0	1632	75000		A904_1632 P90 BXN90L4	365
0.95	13410	1.0	1507	75000		A904_1507 P90 BXN90L4	365
1.1	11784	1.2	1324	75000		A904_1324 P90 BXN90L4	365
1.2	10877	1.3	1222	75000		A904_1222 P90 BXN90L4	365
1.3	9884	1.4	1111	75000		A904_1111 P90 BXN90L4	365
1.4	9124	1.5	1025	75000		A904_1025 P90 BXN90L4	365
1.4	8913	0.9	1001	65000		A804_1001 P90 BXN90L4	362
1.5	8341	1.7	937.2	75000		A904_937.2 P90 BXN90L4	365
1.6	7998	1.0	898.7	65000		A804_898.7 P90 BXN90L4	362
1.7	7699	1.8	865.1	75000		A904_865.1 P90 BXN90L4	365
1.7	7383	1.1	829.5	65000		A804_829.5 P90 BXN90L4	362



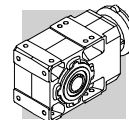
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
1.9	6826	2.1	766.9	75000		A904_766.9 P90 BXN90L4 365
1.9	6783	1.2	762.1	65000		A804_762.1 P90 BXN90L4 362
2.0	6300	2.2	707.9	75000		A904_707.9 P90 BXN90L4 365
2.0	6261	1.3	703.5	65000		A804_703.5 P90 BXN90L4 362
2.2	5737	0.9	644.6	50000		A704_644.6 P90 BXN90L4 359
2.4	5404	1.5	607.2	65000		A804_607.2 P90 BXN90L4 362
2.4	5354	2.6	601.6	75000		A904_601.6 P90 BXN90L4 365
2.4	5296	0.9	595.0	50000		A704_595.0 P90 BXN90L4 359
2.6	4988	1.6	560.5	65000		A804_560.5 P90 BXN90L4 362
2.6	4942	2.8	555.3	75000		A904_555.3 P90 BXN90L4 365
2.8	4587	1.1	515.4	50000		A704_515.4 P90 BXN90L4 359
2.9	4331	3.2	486.6	75000		A904_486.6 P90 BXN90L4 365
3.0	4262	1.9	478.9	65000		A804_478.9 P90 BXN90L4 362
3.0	4234	1.2	475.8	50000		A704_475.8 P90 BXN90L4 359
3.2	3998	3.5	449.2	75000		A904_449.2 P90 BXN90L4 365
3.2	3935	2.0	442.1	65000		A804_442.1 P90 BXN90L4 362
3.6	3561	1.4	400.2	50000		A704_400.2 P90 BXN90L4 359
3.7	3413	2.3	383.5	65000		A804_383.5 P90 BXN90L4 362
3.9	3288	1.5	369.4	50000		A704_369.4 P90 BXN90L4 359
4.0	3150	2.5	354.0	65000		A804_354.0 P90 BXN90L4 362
4.1	3126	0.9	351.2	30000		A604_351.2 P90 BXN90L4 355
4.4	2885	1.0	324.2	30000		A604_324.2 P90 BXN90L4 355
4.5	2816	1.8	316.4	50000		A704_316.4 P90 BXN90L4 359
4.8	2673	3.0	300.4	65000		A804_300.4 P90 BXN90L4 362
4.9	2599	1.9	292.0	50000		A704_292.0 P90 BXN90L4 359
5.0	2548	1.1	286.3	30000		A604_286.3 P90 BXN90L4 355
5.2	2468	3.2	277.3	65000		A804_277.3 P90 BXN90L4 362
5.4	2352	1.2	264.3	30000		A604_264.3 P90 BXN90L4 355
6.0	2124	2.4	238.6	50000		A704_238.6 P90 BXN90L4 359
6.3	2013	1.4	226.1	30000		A604_226.1 P90 BXN90L4 355
6.5	1960	2.6	220.3	50000		A704_220.3 P90 BXN90L4 359
6.9	1858	1.5	208.7	30000		A604_208.7 P90 BXN90L4 355
6.9	1852	1.1	208.1	30000		A554_208.1 P90 BXN90L4 351
7.4	1767	1.1	194.2	30000		A553_194.2 P90 BXN90L4 351
7.7	1690	1.7	185.8	30000		A603_185.8 P90 BXN90L4 355
7.8	1637	3.1	183.9	50000		A704_183.9 P90 BXN90L4 359
8.2	1593	1.3	175.0	30000		A553_175.0 P90 BXN90L4 351
8.2	1578	1.0	173.4	20000		A503_173.4 P90 BXN90L4 347
8.3	1560	1.8	171.5	30000		A603_171.5 P90 BXN90L4 355
8.4	1511	3.3	169.8	50000		A704_169.8 P90 BXN90L4 359
8.9	1460	1.4	160.4	30000		A553_160.4 P90 BXN90L4 351
9.2	1420	2.0	156.0	30000		A603_156.0 P90 BXN90L4 355
9.3	1407	1.1	154.6	20000		A503_154.6 P90 BXN90L4 347
9.3	1399	2.9	153.7	50000		A703_153.7 P90 BXN90L4 359
9.7	1336	1.5	146.8	30000		A553_146.8 P90 BXN90L4 351
9.9	1311	2.1	144.0	30000		A603_144.0 P90 BXN90L4 355
10.2	1280	1.2	140.6	20000		A503_140.6 P90 BXN90L4 347
10.7	1213	2.3	133.3	30000		A603_133.3 P90 BXN90L4 355
10.8	1208	1.7	132.7	30000		A553_132.7 P90 BXN90L4 351
11.0	1180	1.3	129.7	20000		A503_129.7 P90 BXN90L4 347
11.5	1127	1.8	123.9	30000		A553_123.9 P90 BXN90L4 351
11.6	1120	2.5	123.0	30000		A603_123.0 P90 BXN90L4 355
12.1	1073	1.4	118.0	20000		A503_118.0 P90 BXN90L4 347
13.1	996	1.5	109.4	20000		A503_109.4 P90 BXN90L4 347
13.3	981	2.9	107.8	30000		A603_107.8 P90 BXN90L4 355
14.1	923	2.2	101.4	30000		A553_101.4 P90 BXN90L4 351
14.4	906	1.7	99.5	20000		A503_99.5 P90 BXN90L4 347
14.4	906	3.1	99.5	30000		A603_99.5 P90 BXN90L4 355
15.4	844	0.9	92.8	15000		A413_92.8 P90 BXN90L4 343
16.0	815	1.8	89.5	20000		A503_89.5 P90 BXN90L4 347
16.6	786	3.6	86.4	30000		A603_86.4 P90 BXN90L4 355
17.6	741	2.0	81.5	20000		A503_81.5 P90 BXN90L4 347
18.0	724	2.8	79.5	30000		A553_79.5 P90 BXN90L4 351
18.0	745	1.1	79.2	15000		A412_79.2 P90 BXN90L4 343
20.1	670	1.3	71.3	15000		A412_71.3 P90 BXN90L4 343
20.4	639	2.3	70.2	20000		A503_70.2 P90 BXN90L4 347
21.7	619	1.0	65.8	11600		A352_65.8 P90 BXN90L4 339



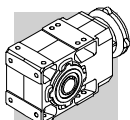
1.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
22.2	585	3.4	64.3	30000		A553_64.3 P90 BXN90L4 351
22.3	603	1.4	64.2	15000		A412_64.2 P90 BXN90L4 343
22.4	581	2.6	63.9	20000		A503_63.9 P90 BXN90L4 347
23.7	567	1.1	60.4	11500		A352_60.4 P90 BXN90L4 339
24.3	553	1.5	58.8	15000		A412_58.8 P90 BXN90L4 343
25.2	517	2.9	56.8	20000		A503_56.8 P90 BXN90L4 347
26.3	510	1.2	54.3	11300		A352_54.3 P90 BXN90L4 339
26.9	500	1.7	53.1	15000		A412_53.1 P90 BXN90L4 343
27.7	470	3.2	51.7	19700		A503_51.7 P90 BXN90L4 347
29.1	461	1.3	49.1	11100		A352_49.1 P90 BXN90L4 339
29.6	454	0.9	48.3	6680		A302_48.3 P90 BXN90L4 335
29.6	454	1.9	48.3	14900		A412_48.3 P90 BXN90L4 343
31	431	1.4	45.8	11000		A352_45.8 P90 BXN90L4 339
32	424	2.0	45.1	14600		A412_45.1 P90 BXN90L4 343
33	408	1.0	43.4	6450		A302_43.4 P90 BXN90L4 335
34	393	1.5	41.8	10800		A352_41.8 P90 BXN90L4 339
36	369	1.1	39.3	6380		A302_39.3 P90 BXN90L4 335
39	344	1.2	36.6	6330		A302_36.6 P90 BXN90L4 335
39	344	1.7	36.6	10500		A352_36.6 P90 BXN90L4 339
40	338	2.3	35.9	13800		A412_35.9 P90 BXN90L4 343
43	314	1.3	33.4	6260		A302_33.4 P90 BXN90L4 335
43	312	1.9	33.2	10300		A352_33.2 P90 BXN90L4 339
49	275	1.5	29.3	6140		A302_29.3 P90 BXN90L4 335
49	275	0.9	29.2	3820		A202_29.2 P90 BXN90L4 331
50	267	2.2	28.4	9940		A352_28.4 P90 BXN90L4 339
50	266	2.7	28.3	13000		A412_28.3 P90 BXN90L4 343
54	249	1.6	26.5	6040		A302_26.5 P90 BXN90L4 335
54	249	1.0	26.5	3790		A202_26.5 P90 BXN90L4 331
56	241	2.5	25.7	9710		A352_25.7 P90 BXN90L4 339
62	217	1.2	23.1	3760		A202_23.1 P90 BXN90L4 331
63	214	1.9	22.8	5870		A302_22.8 P90 BXN90L4 335
63	213	3.2	22.7	12200		A412_22.7 P90 BXN90L4 343
64	211	2.8	22.5	9400		A352_22.5 P90 BXN90L4 339
67	200	1.3	21.2	3730		A202_21.2 P90 BXN90L4 331
70	193	2.1	20.5	5760		A302_20.5 P90 BXN90L4 335
70	192	3.1	20.4	9170		A352_20.4 P90 BXN90L4 339
79	170	1.5	18.1	3660		A202_18.1 P90 BXN90L4 331
80	169	2.4	18.0	5600		A302_18.0 P90 BXN90L4 335
87	155	1.0	16.4	3720		A102_16.4 P90 BXN90L4 327
88	154	2.5	16.3	5480		A302_16.3 P90 BXN90L4 335
88	152	1.6	16.2	3600		A202_16.2 P90 BXN90L4 331
102	132	1.9	14.1	3530		A202_14.1 P90 BXN90L4 331
103	131	1.1	13.9	3090		A102_13.9 P90 BXN90L4 327
105	128	2.9	13.6	5250		A302_13.6 P90 BXN90L4 335
116	116	1.2	12.3	3040		A102_12.3 P90 BXN90L4 327
120	112	1.9	12.0	3420		A202_12.0 P90 BXN90L4 331
121	111	2.7	11.8	5060		A302_11.8 P90 BXN90L4 335
125	107	3.3	22.8	5040		
135	99	1.5	10.6	2990		A102_10.6 P90 BXN90L4 327
137	98	3.5	10.5	4930		A302_10.5 P90 BXN90L4 335
138	97	2.3	10.3	3330		A202_10.3 P90 BXN90L4 331
149	90	1.5	9.6	2940		A102_9.6 P90 BXN90L4 327
153	88	2.4	9.4	3250		A202_9.4 P90 BXN90L4 331
154	88	3.4	9.3	4770		A302_9.3 P90 BXN90L4 335
168	80	1.7	8.5	3420		A102_8.5 P90 BXN90L4 327
171	79	2.7	8.4	3180		A202_8.4 P90 BXN90L4 331
196	69	3.1	7.3	3080		A202_7.3 P90 BXN90L4 331
198	68	2.1	7.2	2790		A102_7.2 P90 BXN90L4 327
219	61	3.4	6.5	3000		A202_6.5 P90 BXN90L4 331
226	60	2.4	6.3	3220		A102_6.3 P90 BXN90L4 327
262	51	2.7	5.5	2630		A102_5.5 P90 BXN90L4 327



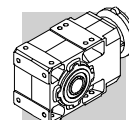
2.2 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC	IE2	IE3
1.2	15990	0.9	1222	75000	A904_1222 S3 ME3LA4	A904_1222 S3 MX3LA4	364	A904_1222 P100 BE100LA4	A904_1222 P100 BX100LA4
1.3	14530	1.0	1111	75000	A904_1111 S3 ME3LA4	A904_1111 S3 MX3LA4	364	A904_1111 P100 BE100LA4	A904_1111 P100 BX100LA4
1.4	13412	1.0	1025	75000	A904_1025 S3 ME3LA4	A904_1025 S3 MX3LA4	364	A904_1025 P100 BE100LA4	A904_1025 P100 BX100LA4
1.5	12261	1.1	937.2	75000	A904_937.2 S3 ME3LA4	A904_937.2 S3 MX3LA4	364	A904_937.2 P100 BE100LA4	A904_937.2 P100 BX100LA4
1.7	11318	1.2	865.1	75000	A904_865.1 S3 ME3LA4	A904_865.1 S3 MX3LA4	364	A904_865.1 P100 BE100LA4	A904_865.1 P100 BX100LA4
1.9	10034	1.4	766.9	75000	A904_766.9 S3 ME3LA4	A904_766.9 S3 MX3LA4	364	A904_766.9 P100 BE100LA4	A904_766.9 P100 BX100LA4
2.0	9262	1.5	707.9	75000	A904_707.9 S3 ME3LA4	A904_707.9 S3 MX3LA4	364	A904_707.9 P100 BE100LA4	A904_707.9 P100 BX100LA4
2.0	9203	0.9	703.5	65000	A804_703.5 S3 ME3LA4	A804_703.5 S3 MX3LA4	361	A804_703.5 P100 BE100LA4	A804_703.5 P100 BX100LA4
2.4	7943	1.0	607.2	65000	A804_607.2 S3 ME3LA4	A804_607.2 S3 MX3LA4	361	A804_607.2 P100 BE100LA4	A804_607.2 P100 BX100LA4
2.4	7870	1.8	601.6	75000	A904_601.6 S3 ME3LA4	A904_601.6 S3 MX3LA4	364	A904_601.6 P100 BE100LA4	A904_601.6 P100 BX100LA4
2.6	7332	1.1	560.5	65000	A804_560.5 S3 ME3LA4	A804_560.5 S3 MX3LA4	361	A804_560.5 P100 BE100LA4	A804_560.5 P100 BX100LA4
2.6	7265	1.9	555.3	75000	A904_555.3 S3 ME3LA4	A904_555.3 S3 MX3LA4	364	A904_555.3 P100 BE100LA4	A904_555.3 P100 BX100LA4
2.9	6366	2.2	486.6	75000	A904_486.6 S3 ME3LA4	A904_486.6 S3 MX3LA4	364	A904_486.6 P100 BE100LA4	A904_486.6 P100 BX100LA4
3.0	6266	1.3	478.9	65000	A804_478.9 S3 ME3LA4	A804_478.9 S3 MX3LA4	361	A804_478.9 P100 BE100LA4	A804_478.9 P100 BX100LA4
3.2	5876	2.4	449.2	75000	A904_449.2 S3 ME3LA4	A904_449.2 S3 MX3LA4	364	A904_449.2 P100 BE100LA4	A904_449.2 P100 BX100LA4
3.2	5784	1.4	442.1	65000	A804_442.1 S3 ME3LA4	A804_442.1 S3 MX3LA4	361	A804_442.1 P100 BE100LA4	A804_442.1 P100 BX100LA4
3.6	5235	1.0	400.2	50000	A704_400.2 S3 ME3LA4	A704_400.2 S3 MX3LA4	358	A704_400.2 P100 BE100LA4	A704_400.2 P100 BX100LA4
3.7	5043	2.8	385.4	75000	A904_385.4 S3 ME3LA4	A904_385.4 S3 MX3LA4	364	A904_385.4 P100 BE100LA4	A904_385.4 P100 BX100LA4
3.7	5017	1.6	383.5	65000	A804_383.5 S3 ME3LA4	A804_383.5 S3 MX3LA4	361	A804_383.5 P100 BE100LA4	A804_383.5 P100 BX100LA4
3.9	4833	1.0	369.4	50000	A704_369.4 S3 ME3LA4	A704_369.4 S3 MX3LA4	358	A704_369.4 P100 BE100LA4	A704_369.4 P100 BX100LA4
4.0	4655	3.0	355.8	75000	A904_355.8 S3 ME3LA4	A904_355.8 S3 MX3LA4	364	A904_355.8 P100 BE100LA4	A904_355.8 P100 BX100LA4
4.0	4631	1.7	354.0	65000	A804_354.0 S3 ME3LA4	A804_354.0 S3 MX3LA4	361	A804_354.0 P100 BE100LA4	A804_354.0 P100 BX100LA4
4.5	4139	1.2	316.4	50000	A704_316.4 S3 ME3LA4	A704_316.4 S3 MX3LA4	358	A704_316.4 P100 BE100LA4	A704_316.4 P100 BX100LA4
4.7	3989	3.5	304.9	75000	A904_304.9 S3 ME3LA4	A904_304.9 S3 MX3LA4	364	A904_304.9 P100 BE100LA4	A904_304.9 P100 BX100LA4
4.8	3930	2.0	300.4	65000	A804_300.4 S3 ME3LA4	A804_300.4 S3 MX3LA4	361	A804_300.4 P100 BE100LA4	A804_300.4 P100 BX100LA4
4.9	3820	1.3	292.0	50000	A704_292.0 S3 ME3LA4	A704_292.0 S3 MX3LA4	358	A704_292.0 P100 BE100LA4	A704_292.0 P100 BX100LA4
5.2	3628	2.2	277.3	65000	A804_277.3 S3 ME3LA4	A804_277.3 S3 MX3LA4	361	A804_277.3 P100 BE100LA4	A804_277.3 P100 BX100LA4
6.0	3122	1.6	238.6	50000	A704_238.6 S3 ME3LA4	A704_238.6 S3 MX3LA4	358	A704_238.6 P100 BE100LA4	A704_238.6 P100 BX100LA4
6.1	3043	2.6	232.6	65000	A804_232.6 S3 ME3LA4	A804_232.6 S3 MX3LA4	361	A804_232.6 P100 BE100LA4	A804_232.6 P100 BX100LA4
6.3	2958	0.9	226.1	30000	A604_226.1 S3 ME3LA4	A604_226.1 S3 MX3LA4	354	A604_226.1 P100 BE100LA4	A604_226.1 P100 BX100LA4
6.5	2882	1.7	220.3	50000	A704_220.3 S3 ME3LA4	A704_220.3 S3 MX3LA4	358	A704_220.3 P100 BE100LA4	A704_220.3 P100 BX100LA4
6.7	2809	2.8	214.7	65000	A804_214.7 S3 ME3LA4	A804_214.7 S3 MX3LA4	361	A804_214.7 P100 BE100LA4	A804_214.7 P100 BX100LA4
6.9	2731	1.0	208.7	30000	A604_208.7 S3 ME3LA4	A604_208.7 S3 MX3LA4	354	A604_208.7 P100 BE100LA4	A604_208.7 P100 BX100LA4
7.7	2485	1.1	185.8	30000	A603_185.8 S3 ME3LA4	A603_185.8 S3 MX3LA4	354	A603_185.8 P100 BE100LA4	A603_185.8 P100 BX100LA4
7.8	2406	2.1	183.9	50000	A704_183.9 S3 ME3LA4	A704_183.9 S3 MX3LA4	358	A704_183.9 P100 BE100LA4	A704_183.9 P100 BX100LA4
8.3	2294	1.2	171.5	30000	A603_171.5 S3 ME3LA4	A603_171.5 S3 MX3LA4	354	A603_171.5 P100 BE100LA4	A603_171.5 P100 BX100LA4
8.3	2241	3.6	171.3	65000	A804_171.3 S3 ME3LA4	A804_171.3 S3 MX3LA4	361	A804_171.3 P100 BE100LA4	A804_171.3 P100 BX100LA4
8.4	2221	2.3	169.8	50000	A704_169.8 S3 ME3LA4	A704_169.8 S3 MX3LA4	358	A704_169.8 P100 BE100LA4	A704_169.8 P100 BX100LA4
8.9	2146	0.9	160.4	30000	A553_160.4 S3 ME3LA4	A553_160.4 S3 MX3LA4	350	A553_160.4 P100 BE100LA4	A553_160.4 P100 BX100LA4
9.2	2087	1.3	156.0	30000	A603_156.0 S3 ME3LA4	A603_156.0 S3 MX3LA4	354	A603_156.0 P100 BE100LA4	A603_156.0 P100 BX100LA4
9.3	2056	2.0	153.7	50000	A703_153.7 S3 ME3LA4	A703_153.7 S3 MX3LA4	358	A703_153.7 P100 BE100LA4	A703_153.7 P100 BX100LA4
9.7	1964	1.0	146.8	30000	A553_146.8 S3 ME3LA4	A553_146.8 S3 MX3LA4	350	A553_146.8 P100 BE100LA4	A553_146.8 P100 BX100LA4
9.9	1927	1.5	144.0	30000	A603_144.0 S3 ME3LA4	A603_144.0 S3 MX3LA4	354	A603_144.0 P100 BE100LA4	A603_144.0 P100 BX100LA4
10.1	1898	2.6	141.9	50000	A703_141.9 S3 ME3LA4	A703_141.9 S3 MX3LA4	358	A703_141.9 P100 BE100LA4	A703_141.9 P100 BX100LA4
10.7	1783	1.6	133.3	30000	A603_133.3 S3 ME3LA4	A603_133.3 S3 MX3LA4	354	A603_133.3 P100 BE100LA4	A603_133.3 P100 BX100LA4
10.8	1776	1.1	132.7	30000	A553_132.7 S3 ME3LA4	A553_132.7 S3 MX3LA4	350	A553_132.7 P100 BE100LA4	A553_132.7 P100 BX100LA4
10.9	1748	2.9	130.7	50000	A703_130.7 S3 ME3LA4	A703_130.7 S3 MX3LA4	358	A703_130.7 P100 BE100LA4	A703_130.7 P100 BX100LA4
11.5	1657	1.2	123.9	30000	A553_123.9 S3 ME3LA4	A553_123.9 S3 MX3LA4	350	A553_123.9 P100 BE100LA4	A553_123.9 P100 BX100LA4
11.6	1646	1.7	123.0	30000	A603_123.0 S3 ME3LA4	A603_123.0 S3 MX3LA4	354	A603_123.0 P100 BE100LA4	A603_123.0 P100 BX100LA4
11.9	1613	3.1	120.6	50000	A703_120.6 S3 ME3LA4	A703_120.6 S3 MX3LA4	358	A703_120.6 P100 BE100LA4	A703_120.6 P100 BX100LA4
12.1	1578	1.0	118.0	20000	A503_118.0 S3 ME3LA4	A503_118.0 S3 MX3LA4	346	A503_118.0 P100 BE100LA4	A503_118.0 P100 BX100LA4
13.1	1464	1.0	109.4	20000	A503_109.4 S3 ME3LA4	A503_109.4 S3 MX3LA4	346	A503_109.4 P100 BE100LA4	A503_109.4 P100 BX100LA4
13.3	1442	1.9	107.8	30000	A603_107.8 S3 ME3LA4	A603_107.8 S3 MX3LA4	354	A603_107.8 P100 BE100LA4	A603_107.8 P100 BX100LA4
13.7	1394	3.6	104.2	50000	A703_104.2 S3 ME3LA4	A703_104.2 S3 MX3LA4	358	A703_104.2 P100 BE100LA4	A703_104.2 P100 BX100LA4
14.1	1356	1.5	101.4	30000	A553_101.4 S3 ME3LA4	A553_101.4 S3 MX3LA4	350	A553_101.4 P100 BE100LA4	A553_101.4 P100 BX100LA4
14.4	1331	1.1	99.5	20000	A503_99.5 S3 ME3LA4	A503_99.5 S3 MX3LA4	346	A503_99.5 P100 BE100LA4	A503_99.5 P100 BX100LA4
14.4	1331	2.1	99.5	30000	A603_99.5 S3 ME3LA4	A603_99.5 S3 MX3LA4	354	A603_99.5 P100 BE100LA4	A603_99.5 P100 BX100LA4



2.2 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N				IEC		
					IE2	IE3		IE2	IE3	
16.0	1198	1.3	89.5	19800	A503_89.5 S3 ME3LA4	A503_89.5 S3 MX3LA4	346	A503_89.5 P100 BE100LA4	A503_89.5 P100 BX100LA4	347
16.6	1155	2.4	86.4	30000	A603_86.4 S3 ME3LA4	A603_86.4 S3 MX3LA4	354	A603_86.4 P100 BE100LA4	A603_86.4 P100 BX100LA4	355
17.6	1090	1.4	81.5	19600	A503_81.5 S3 ME3LA4	A503_81.5 S3 MX3LA4	346	A503_81.5 P100 BE100LA4	A503_81.5 P100 BX100LA4	347
17.9	1066	2.6	79.7	30000	A603_79.7 S3 ME3LA4	A603_79.7 S3 MX3LA4	354	A603_79.7 P100 BE100LA4	A603_79.7 P100 BX100LA4	355
18.0	1064	1.9	79.5	30000	A553_79.5 S3 ME3LA4	A553_79.5 S3 MX3LA4	350	A553_79.5 P100 BE100LA4	A553_79.5 P100 BX100LA4	351
20.3	942	3.0	70.4	30000	A603_70.4 S3 ME3LA4	A603_70.4 S3 MX3LA4	354	A603_70.4 P100 BE100LA4	A603_70.4 P100 BX100LA4	355
20.4	940	1.6	70.2	19300	A503_70.2 S3 ME3LA4	A503_70.2 S3 MX3LA4	346	A503_70.2 P100 BE100LA4	A503_70.2 P100 BX100LA4	347
22.0	869	3.2	65.0	30000	A603_65.0 S3 ME3LA4	A603_65.0 S3 MX3LA4	354	A603_65.0 P100 BE100LA4	A603_65.0 P100 BX100LA4	355
22.2	860	2.3	64.3	30000	A553_64.3 S3 ME3LA4	A553_64.3 S3 MX3LA4	350	A553_64.3 P100 BE100LA4	A553_64.3 P100 BX100LA4	351
22.3	887	1.0	64.2	14500	A412_64.2 S3 ME3LA4	A412_64.2 S3 MX3LA4	342	A412_64.2 P100 BE100LA4	A412_64.2 P100 BX100LA4	343
22.4	855	1.8	63.9	19000	A503_63.9 S3 ME3LA4	A503_63.9 S3 MX3LA4	346	A503_63.9 P100 BE100LA4	A503_63.9 P100 BX100LA4	347
24.3	813	1.0	58.8	14400	A412_58.8 S3 ME3LA4	A412_58.8 S3 MX3LA4	342	A412_58.8 P100 BE100LA4	A412_58.8 P100 BX100LA4	343
25.2	760	2.0	56.8	18600	A503_56.8 S3 ME3LA4	A503_56.8 S3 MX3LA4	346	A503_56.8 P100 BE100LA4	A503_56.8 P100 BX100LA4	347
26.9	734	1.2	53.1	14100	A412_53.1 S3 ME3LA4	A412_53.1 S3 MX3LA4	342	A412_53.1 P100 BE100LA4	A412_53.1 P100 BX100LA4	343
27.7	691	2.2	51.7	18300	A503_51.7 S3 ME3LA4	A503_51.7 S3 MX3LA4	346	A503_51.7 P100 BE100LA4	A503_51.7 P100 BX100LA4	347
28.1	682	2.9	51.0	30000	A553_51.0 S3 ME3LA4	A553_51.0 S3 MX3LA4	350	A553_51.0 P100 BE100LA4	A553_51.0 P100 BX100LA4	351
29.1	678	0.9	49.1	9900	A352_49.1 S3 ME3LA4	A352_49.1 S3 MX3LA4	338	A352_49.1 P100 BE100LA4	A352_49.1 P100 BX100LA4	339
29.6	667	1.3	48.3	13900	A412_48.3 S3 ME3LA4	A412_48.3 S3 MX3LA4	342	A412_48.3 P100 BE100LA4	A412_48.3 P100 BX100LA4	343
31	633	0.9	45.8	9840	A352_45.8 S3 ME3LA4	A352_45.8 S3 MX3LA4	338	A352_45.8 P100 BE100LA4	A352_45.8 P100 BX100LA4	339
32	623	1.3	45.1	13700	A412_45.1 S3 ME3LA4	A412_45.1 S3 MX3LA4	342	A412_45.1 P100 BE100LA4	A412_45.1 P100 BX100LA4	343
32	602	2.5	45.0	17900	A503_45.0 S3 ME3LA4	A503_45.0 S3 MX3LA4	346	A503_45.0 P100 BE100LA4	A503_45.0 P100 BX100LA4	347
34	577	1.0	41.8	9750	A352_41.8 S3 ME3LA4	A352_41.8 S3 MX3LA4	338	A352_41.8 P100 BE100LA4	A352_41.8 P100 BX100LA4	339
35	548	2.7	40.9	17500	A503_40.9 S3 ME3LA4	A503_40.9 S3 MX3LA4	346	A503_40.9 P100 BE100LA4	A503_40.9 P100 BX100LA4	347
39	506	1.2	36.6	9600	A352_36.6 S3 ME3LA4	A352_36.6 S3 MX3LA4	338	A352_36.6 P100 BE100LA4	A352_36.6 P100 BX100LA4	339
40	496	1.6	35.9	13100	A412_35.9 S3 ME3LA4	A412_35.9 S3 MX3LA4	342	A412_35.9 P100 BE100LA4	A412_35.9 P100 BX100LA4	343
40	476	3.1	35.6	17000	A503_35.6 S3 ME3LA4	A503_35.6 S3 MX3LA4	346	A503_35.6 P100 BE100LA4	A503_35.6 P100 BX100LA4	347
43	462	0.9	33.4	5050	A302_33.4 S3 ME3LA4	A302_33.4 S3 MX3LA4	334	A302_33.4 P100 BE100LA4	A302_33.4 P100 BX100LA4	335
43	458	1.3	33.2	9460	A352_33.2 S3 ME3LA4	A352_33.2 S3 MX3LA4	338	A352_33.2 P100 BE100LA4	A352_33.2 P100 BX100LA4	339
44	433	3.5	32.4	16600	A503_32.4 S3 ME3LA4	A503_32.4 S3 MX3LA4	346	A503_32.4 P100 BE100LA4	A503_32.4 P100 BX100LA4	347
49	405	1.0	29.3	5380	A302_29.3 S3 ME3LA4	A302_29.3 S3 MX3LA4	334	A302_29.3 P100 BE100LA4	A302_29.3 P100 BX100LA4	335
50	393	1.5	28.4	9230	A352_28.4 S3 ME3LA4	A352_28.4 S3 MX3LA4	338	A352_28.4 P100 BE100LA4	A352_28.4 P100 BX100LA4	339
50	391	1.9	28.3	12400	A412_28.3 S3 ME3LA4	A412_28.3 S3 MX3LA4	342	A412_28.3 P100 BE100LA4	A412_28.3 P100 BX100LA4	343
54	367	1.1	26.5	5350	A302_26.5 S3 ME3LA4	A302_26.5 S3 MX3LA4	334	A302_26.5 P100 BE100LA4	A302_26.5 P100 BX100LA4	335
56	355	1.7	25.7	9070	A352_25.7 S3 ME3LA4	A352_25.7 S3 MX3LA4	338	A352_25.7 P100 BE100LA4	A352_25.7 P100 BX100LA4	339
63	314	1.3	22.8	5290	A302_22.8 S3 ME3LA4	A302_22.8 S3 MX3LA4	334	A302_22.8 P100 BE100LA4	A302_22.8 P100 BX100LA4	335
63	313	2.2	22.7	11700	A412_22.7 S3 ME3LA4	A412_22.7 S3 MX3LA4	342	A412_22.7 P100 BE100LA4	A412_22.7 P100 BX100LA4	343
64	311	1.9	22.5	8840	A352_22.5 S3 ME3LA4	A352_22.5 S3 MX3LA4	338	A352_22.5 P100 BE100LA4	A352_22.5 P100 BX100LA4	339
70	284	1.4	20.5	5230	A302_20.5 S3 ME3LA4	A302_20.5 S3 MX3LA4	334	A302_20.5 P100 BE100LA4	A302_20.5 P100 BX100LA4	335
70	282	2.1	20.4	8660	A352_20.4 S3 ME3LA4	A352_20.4 S3 MX3LA4	338	A352_20.4 P100 BE100LA4	A352_20.4 P100 BX100LA4	339
79	250	1.0	18.1	3140	A202_18.1 S3 ME3LA4	A202_18.1 S3 MX3LA4	330	A202_18.1 P100 BE100LA4	A202_18.1 P100 BX100LA4	331
80	249	1.6	18.0	5140	A302_18.0 S3 ME3LA4	A302_18.0 S3 MX3LA4	334	A302_18.0 P100 BE100LA4	A302_18.0 P100 BX100LA4	335
81	245	2.6	17.8	11000	A412_17.8 S3 ME3LA4	A412_17.8 S3 MX3LA4	342	A412_17.8 P100 BE100LA4	A412_17.8 P100 BX100LA4	343
84	234	2.6	17.0	8320	A352_17.0 S3 ME3LA4	A352_17.0 S3 MX3LA4	338	A352_17.0 P100 BE100LA4	A352_17.0 P100 BX100LA4	339
88	226	1.7	16.3	5060	A302_16.3 S3 ME3LA4	A302_16.3 S3 MX3LA4	334	A302_16.3 P100 BE100LA4	A302_16.3 P100 BX100LA4	335
88	223	1.1	16.2	3140	A202_16.2 S3 ME3LA4	A202_16.2 S3 MX3LA4	330	A202_16.2 P100 BE100LA4	A202_16.2 P100 BX100LA4	331
89	222	2.7	16.1	10800	A412_16.1 S3 ME3LA4	A412_16.1 S3 MX3LA4	342	A412_16.1 P100 BE100LA4	A412_16.1 P100 BX100LA4	343
92	214	2.8	15.5	8150	A352_15.5 S3 ME3LA4	A352_15.5 S3 MX3LA4	338	A352_15.5 P100 BE100LA4	A352_15.5 P100 BX100LA4	339
102	194	1.3	14.1	3120	A202_14.1 S3 ME3LA4	A202_14.1 S3 MX3LA4	330	A202_14.1 P100 BE100LA4	A202_14.1 P100 BX100LA4	331
104	190	3.1	13.8	10300	A412_13.8 S3 ME3LA4	A412_13.8 S3 MX3LA4	342	A412_13.8 P100 BE100LA4	A412_13.8 P100 BX100LA4	343
105	187	2.0	13.6	4900	A302_13.6 S3 ME3LA4	A302_13.6 S3 MX3LA4	334	A302_13.6 P100 BE100LA4	A302_13.6 P100 BX100LA4	335
109	181	3.3	13.1	7820	A352_13.1 S3 ME3LA4	A352_13.1 S3 MX3LA4	338	A352_13.1 P100 BE100LA4	A352_13.1 P100 BX100LA4	339
120	165	1.3	12.0	3070	A202_12.0 S3 ME3LA4	A202_12.0 S3 MX3LA4	330	A202_12.0 P100 BE100LA4	A202_12.0 P100 BX100LA4	331
121	163	1.8	11.8	4750	A302_11.8 S3 ME3LA4	A302_11.8 S3 MX3LA4	334	A302_11.8 P100 BE100LA4	A302_11.8 P100 BX100LA4	335
121	163	2.5	11.8	7710	A352_11.8 S3 ME3LA4	A352_11.8 S3 MX3LA4	338	A352_11.8 P100 BE100LA4	A352_11.8 P100 BX100LA4	339
122	162	3.4	11.7	9870	A412_11.7 S3 ME3LA4	A412_11.7 S3 MX3LA4	342	A412_11.7 P100 BE100LA4	A412_11.7 P100 BX100LA4	343
124	159	2.0	23.1	3070	A202_23.1 S3 ME3LA2		330	A202_23.1 P90 BE90L2		331
134	147	2.7	10.6	7510	A352_10.6 S3 ME3LA4	A352_10.6 S3 MX3LA4	338	A352_10.6 P100 BE100LA4	A352_10.6 P100 BX100LA4	339

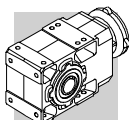


2.2 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC	IE2	IE3
135	146	1.0	10.6	2600	A102_10.6 S3 ME3LA4	A102_10.6 S3 MX3LA4	326	A102_10.6 P100 BE100LA4	A102_10.6 P100 BX100LA4
137	144	2.4	10.5	4660	A302_10.5 S3 ME3LA4	A302_10.5 S3 MX3LA4	334	A302_10.5 P100 BE100LA4	A302_10.5 P100 BX100LA4
138	143	1.6	10.3	3030	A202_10.3 S3 ME3LA4	A202_10.3 S3 MX3LA4	330	A202_10.3 P100 BE100LA4	A202_10.3 P100 BX100LA4
149	133	1.1	9.6	2580	A102_9.6 S3 ME3LA4	A102_9.6 S3 MX3LA4	326	A102_9.6 P100 BE100LA4	A102_9.6 P100 BX100LA4
153	130	1.6	9.4	2980	A202_9.4 S3 ME3LA4	A202_9.4 S3 MX3LA4	330	A202_9.4 P100 BE100LA4	A202_9.4 P100 BX100LA4
154	129	2.3	9.3	4530	A302_9.3 S3 ME3LA4	A302_9.3 S3 MX3LA4	334	A302_9.3 P100 BE100LA4	A302_9.3 P100 BX100LA4
154	129	3.1	9.3	7240	A352_9.3 S3 ME3LA4	A352_9.3 S3 MX3LA4	338	A352_9.3 P100 BE100LA4	A352_9.3 P100 BX100LA4
168	118	1.2	8.5	3050	A102_8.5 S3 ME3LA4	A102_8.5 S3 MX3LA4	326	A102_8.5 P100 BE100LA4	A102_8.5 P100 BX100LA4
169	117	2.6	8.5	4430	A302_8.5 S3 ME3LA4	A302_8.5 S3 MX3LA4	334	A302_8.5 P100 BE100LA4	A302_8.5 P100 BX100LA4
169	117	3.3	8.5	7060	A352_8.5 S3 ME3LA4	A352_8.5 S3 MX3LA4	338	A352_8.5 P100 BE100LA4	A352_8.5 P100 BX100LA4
171	116	1.8	8.4	2930	A202_8.4 S3 ME3LA4	A202_8.4 S3 MX3LA4	330	A202_8.4 P100 BE100LA4	A202_8.4 P100 BX100LA4
196	101	2.1	7.3	2860	A202_7.3 S3 ME3LA4	A202_7.3 S3 MX3LA4	330	A202_7.3 P100 BE100LA4	A202_7.3 P100 BX100LA4
198	100	1.4	7.2	2520	A102_7.2 S3 ME3LA4	A102_7.2 S3 MX3LA4	326	A102_7.2 P100 BE100LA4	A102_7.2 P100 BX100LA4
204	97	3.1	7.0	4240	A302_7.0 S3 ME3LA4	A302_7.0 S3 MX3LA4	334	A302_7.0 P100 BE100LA4	A302_7.0 P100 BX100LA4
219	90	2.3	6.5	2810	A202_6.5 S3 ME3LA4	A202_6.5 S3 MX3LA4	330	A202_6.5 P100 BE100LA4	A202_6.5 P100 BX100LA4
223	89	3.4	6.4	4150	A302_6.4 S3 ME3LA4	A302_6.4 S3 MX3LA4	334	A302_6.4 P100 BE100LA4	A302_6.4 P100 BX100LA4
226	88	1.6	6.3	2950	A102_6.3 S3 ME3LA4	A102_6.3 S3 MX3LA4	326	A102_6.3 P100 BE100LA4	A102_6.3 P100 BX100LA4
262	76	1.9	5.5	2430	A102_5.5 S3 ME3LA4	A102_5.5 S3 MX3LA4	326	A102_5.5 P100 BE100LA4	A102_5.5 P100 BX100LA4
267	74	2.8	5.4	2700	A202_5.4 S3 ME3LA4	A202_5.4 S3 MX3LA4	330	A202_5.4 P100 BE100LA4	A202_5.4 P100 BX100LA4
306	65	3.2	9.4	2620	A202_9.4 S3 ME3LA2		330	A202_9.4 P90 BE90L2	

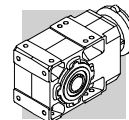
2.2 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC	IE3
1.2	15990	0.9	1222	75000		A904_1222 P100 BXN100LA4	365
1.3	14530	1.0	1111	75000		A904_1111 P100 BXN100LA4	365
1.4	13412	1.0	1025	75000		A904_1025 P100 BXN100LA4	365
1.5	12261	1.1	937.2	75000		A904_937.2 P100 BXN100LA4	365
1.7	11318	1.2	865.1	75000		A904_865.1 P100 BXN100LA4	365
1.9	10034	1.4	766.9	75000		A904_766.9 P100 BXN100LA4	365
2.0	9262	1.5	707.9	75000		A904_707.9 P100 BXN100LA4	365
2.0	9203	0.9	703.5	65000		A804_703.5 P100 BXN100LA4	362
2.4	7943	1.0	607.2	65000		A804_607.2 P100 BXN100LA4	362
2.4	7870	1.8	601.6	75000		A904_601.6 P100 BXN100LA4	365
2.6	7332	1.1	560.5	65000		A804_560.5 P100 BXN100LA4	362
2.6	7265	1.9	555.3	75000		A904_555.3 P100 BXN100LA4	365
2.9	6366	2.2	486.6	75000		A904_486.6 P100 BXN100LA4	365
3.0	6266	1.3	478.9	65000		A804_478.9 P100 BXN100LA4	362
3.2	5876	2.4	449.2	75000		A904_449.2 P100 BXN100LA4	365
3.2	5784	1.4	442.1	65000		A804_442.1 P100 BXN100LA4	362
3.6	5235	1.0	400.2	50000		A704_400.2 P100 BXN100LA4	359
3.7	5043	2.8	385.4	75000		A904_385.4 P100 BXN100LA4	365
3.7	5017	1.6	383.5	65000		A804_383.5 P100 BXN100LA4	362
3.9	4833	1.0	369.4	50000		A704_369.4 P100 BXN100LA4	359
4.0	4655	3.0	355.8	75000		A904_355.8 P100 BXN100LA4	365
4.0	4631	1.7	354.0	65000		A804_354.0 P100 BXN100LA4	362
4.5	4139	1.2	316.4	50000		A704_316.4 P100 BXN100LA4	359
4.7	3989	3.5	304.9	75000		A904_304.9 P100 BXN100LA4	365
4.8	3930	2.0	300.4	65000		A804_300.4 P100 BXN100LA4	362
4.9	3820	1.3	292.0	50000		A704_292.0 P100 BXN100LA4	359
5.2	3628	2.2	277.3	65000		A804_277.3 P100 BXN100LA4	362
6.0	3122	1.6	238.6	50000		A704_238.6 P100 BXN100LA4	359



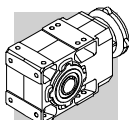
2.2 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
6.1	3043	2.6	232.6	65000		A804_232.6 P100 BXN100LA4 362
6.3	2958	0.9	226.1	30000		A604_226.1 P100 BXN100LA4 355
6.5	2882	1.7	220.3	50000		A704_220.3 P100 BXN100LA4 359
6.7	2809	2.8	214.7	65000		A804_214.7 P100 BXN100LA4 362
6.9	2731	1.0	208.7	30000		A604_208.7 P100 BXN100LA4 355
7.7	2485	1.1	185.8	30000		A603_185.8 P100 BXN100LA4 355
7.8	2406	2.1	183.9	50000		A704_183.9 P100 BXN100LA4 359
8.3	2294	1.2	171.5	30000		A603_171.5 P100 BXN100LA4 355
8.3	2241	3.6	171.3	65000		A804_171.3 P100 BXN100LA4 362
8.4	2221	2.3	169.8	50000		A704_169.8 P100 BXN100LA4 359
8.9	2146	0.9	160.4	30000		A553_160.4 P100 BXN100LA4 351
9.2	2087	1.3	156.0	30000		A603_156.0 P100 BXN100LA4 355
9.3	2056	2.0	153.7	50000		A703_153.7 P100 BXN100LA4 359
9.7	1964	1.0	146.8	30000		A553_146.8 P100 BXN100LA4 351
9.9	1927	1.5	144.0	30000		A603_144.0 P100 BXN100LA4 355
10.1	1898	2.6	141.9	50000		A703_141.9 P100 BXN100LA4 359
10.7	1783	1.6	133.3	30000		A603_133.3 P100 BXN100LA4 355
10.8	1776	1.1	132.7	30000		A553_132.7 P100 BXN100LA4 351
10.9	1748	2.9	130.7	50000		A703_130.7 P100 BXN100LA4 359
11.5	1657	1.2	123.9	30000		A553_123.9 P100 BXN100LA4 351
11.6	1646	1.7	123.0	30000		A603_123.0 P100 BXN100LA4 355
11.9	1613	3.1	120.6	50000		A703_120.6 P100 BXN100LA4 359
12.1	1578	1.0	118.0	20000		A503_118.0 P100 BXN100LA4 347
13.1	1464	1.0	109.4	20000		A503_109.4 P100 BXN100LA4 347
13.3	1442	1.9	107.8	30000		A603_107.8 P100 BXN100LA4 355
13.7	1394	3.6	104.2	50000		A703_104.2 P100 BXN100LA4 359
14.1	1356	1.5	101.4	30000		A553_101.4 P100 BXN100LA4 351
14.4	1331	1.1	99.5	20000		A503_99.5 P100 BXN100LA4 347
14.4	1331	2.1	99.5	30000		A603_99.5 P100 BXN100LA4 355
16.0	1198	1.3	89.5	19800		A503_89.5 P100 BXN100LA4 347
16.6	1155	2.4	86.4	30000		A603_86.4 P100 BXN100LA4 355
17.6	1090	1.4	81.5	19600		A503_81.5 P100 BXN100LA4 347
17.9	1066	2.6	79.7	30000		A603_79.7 P100 BXN100LA4 355
18.0	1064	1.9	79.5	30000		A553_79.5 P100 BXN100LA4 351
20.3	942	3.0	70.4	30000		A603_70.4 P100 BXN100LA4 355
20.4	940	1.6	70.2	19300		A503_70.2 P100 BXN100LA4 347
22.0	869	3.2	65.0	30000		A603_65.0 P100 BXN100LA4 355
22.2	860	2.3	64.3	30000		A553_64.3 P100 BXN100LA4 351
22.3	887	1.0	64.2	14500		A412_64.2 P100 BXN100LA4 343
22.4	855	1.8	63.9	19000		A503_63.9 P100 BXN100LA4 347
24.3	813	1.0	58.8	14400		A412_58.8 P100 BXN100LA4 343
25.2	760	2.0	56.8	18600		A503_56.8 P100 BXN100LA4 347
26.9	734	1.2	53.1	14100		A412_53.1 P100 BXN100LA4 343
27.7	691	2.2	51.7	18300		A503_51.7 P100 BXN100LA4 347
28.1	682	2.9	51.0	30000		A553_51.0 P100 BXN100LA4 351
29.1	678	0.9	49.1	9900		A352_49.1 P100 BXN100LA4 339
29.6	667	1.3	48.3	13900		A412_48.3 P100 BXN100LA4 343
31	633	0.9	45.8	9840		A352_45.8 P100 BXN100LA4 339
32	623	1.3	45.1	13700		A412_45.1 P100 BXN100LA4 343
32	602	2.5	45.0	17900		A503_45.0 P100 BXN100LA4 347
34	577	1.0	41.8	9750		A352_41.8 P100 BXN100LA4 339
35	548	2.7	40.9	17500		A503_40.9 P100 BXN100LA4 347
39	506	1.2	36.6	9600		A352_36.6 P100 BXN100LA4 339
40	496	1.6	35.9	13100		A412_35.9 P100 BXN100LA4 343



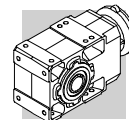
2.2 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
40	476	3.1	35.6	17000		A503_35.6 P100 BXN100LA4 347
43	462	0.9	33.4	5050		A302_33.4 P100 BXN100LA4 335
43	458	1.3	33.2	9460		A352_33.2 P100 BXN100LA4 339
44	433	3.5	32.4	16600		A503_32.4 P100 BXN100LA4 347
49	405	1.0	29.3	5380		A302_29.3 P100 BXN100LA4 335
50	393	1.5	28.4	9230		A352_28.4 P100 BXN100LA4 339
50	391	1.9	28.3	12400		A412_28.3 P100 BXN100LA4 343
54	367	1.1	26.5	5350		A302_26.5 P100 BXN100LA4 335
56	355	1.7	25.7	9070		A352_25.7 P100 BXN100LA4 339
63	314	1.3	22.8	5290		A302_22.8 P100 BXN100LA4 335
63	313	2.2	22.7	11700		A412_22.7 P100 BXN100LA4 343
64	311	1.9	22.5	8840		A352_22.5 P100 BXN100LA4 339
70	284	1.4	20.5	5230		A302_20.5 P100 BXN100LA4 335
70	282	2.1	20.4	8660		A352_20.4 P100 BXN100LA4 339
79	250	1.0	18.1	3140		A202_18.1 P100 BXN100LA4 331
80	249	1.6	18.0	5140		A302_18.0 P100 BXN100LA4 335
81	245	2.6	17.8	11000		A412_17.8 P100 BXN100LA4 343
84	234	2.6	17.0	8320		A352_17.0 P100 BXN100LA4 339
88	226	1.7	16.3	5060		A302_16.3 P100 BXN100LA4 335
88	223	1.1	16.2	3140		A202_16.2 P100 BXN100LA4 331
89	222	2.7	16.1	10800		A412_16.1 P100 BXN100LA4 343
92	214	2.8	15.5	8150		A352_15.5 P100 BXN100LA4 339
102	194	1.3	14.1	3120		A202_14.1 P100 BXN100LA4 331
104	190	3.1	13.8	10300		A412_13.8 P100 BXN100LA4 343
105	187	2.0	13.6	4900		A302_13.6 P100 BXN100LA4 335
109	181	3.3	13.1	7820		A352_13.1 P100 BXN100LA4 339
120	165	1.3	12.0	3070		A202_12.0 P100 BXN100LA4 331
121	163	1.8	11.8	4750		A302_11.8 P100 BXN100LA4 335
121	163	2.5	11.8	7710		A352_11.8 P100 BXN100LA4 339
122	162	3.4	11.7	9870		A412_11.7 P100 BXN100LA4 343
134	147	2.7	10.6	7510		A352_10.6 P100 BXN100LA4 339
135	146	1.0	10.6	2600		A102_10.6 P100 BXN100LA4 327
137	144	2.4	10.5	4660		A302_10.5 P100 BXN100LA4 335
138	143	1.6	10.3	3030		A202_10.3 P100 BXN100LA4 331
149	133	1.1	9.6	2580		A102_9.6 P100 BXN100LA4 327
153	130	1.6	9.4	2980		A202_9.4 P100 BXN100LA4 331
154	129	2.3	9.3	4530		A302_9.3 P100 BXN100LA4 335
154	129	3.1	9.3	7240		A352_9.3 P100 BXN100LA4 339
168	118	1.2	8.5	3050		A102_8.5 P100 BXN100LA4 327
169	117	2.6	8.5	4430		A302_8.5 P100 BXN100LA4 335
169	117	3.3	8.5	7060		A352_8.5 P100 BXN100LA4 339
171	116	1.8	8.4	2930		A202_8.4 P100 BXN100LA4 331
196	101	2.1	7.3	2860		A202_7.3 P100 BXN100LA4 331
198	100	1.4	7.2	2520		A102_7.2 P100 BXN100LA4 327
204	97	3.1	7.0	4240		A302_7.0 P100 BXN100LA4 335
219	90	2.3	6.5	2810		A202_6.5 P100 BXN100LA4 331
223	89	3.4	6.4	4150		A302_6.4 P100 BXN100LA4 335
226	88	1.6	6.3	2950		A102_6.3 P100 BXN100LA4 327
262	76	1.9	5.5	2430		A102_5.5 P100 BXN100LA4 327
267	74	2.8	5.4	2700		A202_5.4 P100 BXN100LA4 331



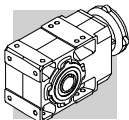
3 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC	IE2	IE3
1.7	15399	0.9	865.1	75000	A904_865.1 S3 ME3LB4	A904_865.1 S3 MX3LB4	364	A904_865.1 P100 BE100LB4	A904_865.1 P100 BX100LB4
1.9	13651	1.0	766.9	75000	A904_766.9 S3 ME3LB4	A904_766.9 S3 MX3LB4	364	A904_766.9 P100 BE100LB4	A904_766.9 P100 BX100LB4
2.0	12601	1.1	707.9	75000	A904_707.9 S3 ME3LB4	A904_707.9 S3 MX3LB4	364	A904_707.9 P100 BE100LB4	A904_707.9 P100 BX100LB4
2.4	10708	1.3	601.6	75000	A904_601.6 S3 ME3LB4	A904_601.6 S3 MX3LB4	364	A904_601.6 P100 BE100LB4	A904_601.6 P100 BX100LB4
2.6	9884	1.4	555.3	75000	A904_555.3 S3 ME3LB4	A904_555.3 S3 MX3LB4	364	A904_555.3 P100 BE100LB4	A904_555.3 P100 BX100LB4
3.0	8661	1.6	486.6	75000	A904_486.6 S3 ME3LB4	A904_486.6 S3 MX3LB4	364	A904_486.6 P100 BE100LB4	A904_486.6 P100 BX100LB4
3.0	8525	0.9	478.9	65000	A804_478.9 S3 ME3LB4	A804_478.9 S3 MX3LB4	361	A804_478.9 P100 BE100LB4	A804_478.9 P100 BX100LB4
3.2	7995	1.8	449.2	75000	A904_449.2 S3 ME3LB4	A904_449.2 S3 MX3LB4	364	A904_449.2 P100 BE100LB4	A904_449.2 P100 BX100LB4
3.3	7869	1.0	442.1	65000	A804_442.1 S3 ME3LB4	A804_442.1 S3 MX3LB4	361	A804_442.1 P100 BE100LB4	A804_442.1 P100 BX100LB4
3.7	6861	2.0	385.4	75000	A904_385.4 S3 ME3LB4	A904_385.4 S3 MX3LB4	364	A904_385.4 P100 BE100LB4	A904_385.4 P100 BX100LB4
3.8	6826	1.2	383.5	65000	A804_383.5 S3 ME3LB4	A804_383.5 S3 MX3LB4	361	A804_383.5 P100 BE100LB4	A804_383.5 P100 BX100LB4
4.0	6333	2.2	355.8	75000	A904_355.8 S3 ME3LB4	A904_355.8 S3 MX3LB4	364	A904_355.8 P100 BE100LB4	A904_355.8 P100 BX100LB4
4.1	6301	1.3	354.0	65000	A804_354.0 S3 ME3LB4	A804_354.0 S3 MX3LB4	361	A804_354.0 P100 BE100LB4	A804_354.0 P100 BX100LB4
4.6	5631	0.9	316.4	50000	A704_316.4 S3 ME3LB4	A704_316.4 S3 MX3LB4	358	A704_316.4 P100 BE100LB4	A704_316.4 P100 BX100LB4
4.7	5427	2.6	304.9	75000	A904_304.9 S3 ME3LB4	A904_304.9 S3 MX3LB4	364	A904_304.9 P100 BE100LB4	A904_304.9 P100 BX100LB4
4.8	5347	1.5	300.4	65000	A804_300.4 S3 ME3LB4	A804_300.4 S3 MX3LB4	361	A804_300.4 P100 BE100LB4	A804_300.4 P100 BX100LB4
4.9	5198	1.0	292.0	50000	A704_292.0 S3 ME3LB4	A704_292.0 S3 MX3LB4	358	A704_292.0 P100 BE100LB4	A704_292.0 P100 BX100LB4
5.1	5010	2.8	281.4	75000	A904_281.4 S3 ME3LB4	A904_281.4 S3 MX3LB4	364	A904_281.4 P100 BE100LB4	A904_281.4 P100 BX100LB4
5.2	4936	1.6	277.3	65000	A804_277.3 S3 ME3LB4	A804_277.3 S3 MX3LB4	361	A804_277.3 P100 BE100LB4	A804_277.3 P100 BX100LB4
6.0	4247	1.2	238.6	50000	A704_238.6 S3 ME3LB4	A704_238.6 S3 MX3LB4	358	A704_238.6 P100 BE100LB4	A704_238.6 P100 BX100LB4
6.2	4141	1.9	232.6	65000	A804_232.6 S3 ME3LB4	A804_232.6 S3 MX3LB4	361	A804_232.6 P100 BE100LB4	A804_232.6 P100 BX100LB4
6.4	4030	3.5	226.4	75000	A904_226.4 S3 ME3LB4	A904_226.4 S3 MX3LB4	364	A904_226.4 P100 BE100LB4	A904_226.4 P100 BX100LB4
6.5	3921	1.3	220.3	50000	A704_220.3 S3 ME3LB4	A704_220.3 S3 MX3LB4	358	A704_220.3 P100 BE100LB4	A704_220.3 P100 BX100LB4
6.7	3822	2.1	214.7	65000	A804_214.7 S3 ME3LB4	A804_214.7 S3 MX3LB4	361	A804_214.7 P100 BE100LB4	A804_214.7 P100 BX100LB4
7.8	3273	1.5	183.9	50000	A704_183.9 S3 ME3LB4	A704_183.9 S3 MX3LB4	358	A704_183.9 P100 BE100LB4	A704_183.9 P100 BX100LB4
8.4	3121	0.9	171.5	30000	A603_171.5 S3 ME3LB4	A603_171.5 S3 MX3LB4	354	A603_171.5 P100 BE100LB4	A603_171.5 P100 BX100LB4
8.4	3049	2.6	171.3	65000	A804_171.3 S3 ME3LB4	A804_171.3 S3 MX3LB4	361	A804_171.3 P100 BE100LB4	A804_171.3 P100 BX100LB4
8.5	3022	1.7	169.8	50000	A704_169.8 S3 ME3LB4	A704_169.8 S3 MX3LB4	358	A704_169.8 P100 BE100LB4	A704_169.8 P100 BX100LB4
9.2	2854	2.8	156.8	65000	A803_156.8 S3 ME3LB4	A803_156.8 S3 MX3LB4	361	A803_156.8 P100 BE100LB4	A803_156.8 P100 BX100LB4
9.2	2840	1.0	156.0	30000	A603_156.0 S3 ME3LB4	A603_156.0 S3 MX3LB4	354	A603_156.0 P100 BE100LB4	A603_156.0 P100 BX100LB4
9.4	2797	1.4	153.7	50000	A703_153.7 S3 ME3LB4	A703_153.7 S3 MX3LB4	358	A703_153.7 P100 BE100LB4	A703_153.7 P100 BX100LB4
9.9	2634	3.0	144.7	65000	A803_144.7 S3 ME3LB4	A803_144.7 S3 MX3LB4	361	A803_144.7 P100 BE100LB4	A803_144.7 P100 BX100LB4
10.0	2622	1.1	144.0	30000	A603_144.0 S3 ME3LB4	A603_144.0 S3 MX3LB4	354	A603_144.0 P100 BE100LB4	A603_144.0 P100 BX100LB4
10.2	2582	1.9	141.9	50000	A703_141.9 S3 ME3LB4	A703_141.9 S3 MX3LB4	358	A703_141.9 P100 BE100LB4	A703_141.9 P100 BX100LB4
10.8	2426	1.2	133.3	30000	A603_133.3 S3 ME3LB4	A603_133.3 S3 MX3LB4	354	A603_133.3 P100 BE100LB4	A603_133.3 P100 BX100LB4
11.0	2378	2.1	130.7	50000	A703_130.7 S3 ME3LB4	A703_130.7 S3 MX3LB4	358	A703_130.7 P100 BE100LB4	A703_130.7 P100 BX100LB4
11.5	2286	3.5	125.6	65000	A803_125.6 S3 ME3LB4	A803_125.6 S3 MX3LB4	361	A803_125.6 P100 BE100LB4	A803_125.6 P100 BX100LB4
11.6	2255	0.9	123.9	30000	A553_123.9 S3 ME3LB4	A553_123.9 S3 MX3LB4	350	A553_123.9 P100 BE100LB4	A553_123.9 P100 BX100LB4
11.7	2239	1.3	123.0	30000	A603_123.0 S3 ME3LB4	A603_123.0 S3 MX3LB4	354	A603_123.0 P100 BE100LB4	A603_123.0 P100 BX100LB4
11.9	2195	2.3	120.6	50000	A703_120.6 S3 ME3LB4	A703_120.6 S3 MX3LB4	358	A703_120.6 P100 BE100LB4	A703_120.6 P100 BX100LB4
13.4	1962	1.4	107.8	30000	A603_107.8 S3 ME3LB4	A603_107.8 S3 MX3LB4	354	A603_107.8 P100 BE100LB4	A603_107.8 P100 BX100LB4
13.8	1897	2.6	104.2	50000	A703_104.2 S3 ME3LB4	A703_104.2 S3 MX3LB4	358	A703_104.2 P100 BE100LB4	A703_104.2 P100 BX100LB4
14.2	1845	1.1	101.4	30000	A553_101.4 S3 ME3LB4	A553_101.4 S3 MX3LB4	350	A553_101.4 P100 BE100LB4	A553_101.4 P100 BX100LB4
14.5	1811	1.5	99.5	30000	A603_99.5 S3 ME3LB4	A603_99.5 S3 MX3LB4	354	A603_99.5 P100 BE100LB4	A603_99.5 P100 BX100LB4
15.0	1751	2.9	96.2	50000	A703_96.2 S3 ME3LB4	A703_96.2 S3 MX3LB4	358	A703_96.2 P100 BE100LB4	A703_96.2 P100 BX100LB4
16.1	1630	0.9	89.5	17100	A503_89.5 S3 ME3LB4	A503_89.5 S3 MX3LB4	346	A503_89.5 P100 BE100LB4	A503_89.5 P100 BX100LB4
16.7	1572	1.8	86.4	30000	A603_86.4 S3 ME3LB4	A603_86.4 S3 MX3LB4	354	A603_86.4 P100 BE100LB4	A603_86.4 P100 BX100LB4
16.8	1564	3.2	85.9	50000	A703_85.9 S3 ME3LB4	A703_85.9 S3 MX3LB4	358	A703_85.9 P100 BE100LB4	A703_85.9 P100 BX100LB4
17.7	1482	1.0	81.5	17200	A503_81.5 S3 ME3LB4	A503_81.5 S3 MX3LB4	346	A503_81.5 P100 BE100LB4	A503_81.5 P100 BX100LB4
18.1	1451	1.9	79.7	30000	A603_79.7 S3 ME3LB4	A603_79.7 S3 MX3LB4	354	A603_79.7 P100 BE100LB4	A603_79.7 P100 BX100LB4
18.1	1447	1.4	79.5	30000	A553_79.5 S3 ME3LB4	A553_79.5 S3 MX3LB4	350	A553_79.5 P100 BE100LB4	A553_79.5 P100 BX100LB4
18.2	1444	3.5	79.3	50000	A703_79.3 S3 ME3LB4	A703_79.3 S3 MX3LB4	358	A703_79.3 P100 BE100LB4	A703_79.3 P100 BX100LB4
20.5	1281	2.2	70.4	30000	A603_70.4 S3 ME3LB4	A603_70.4 S3 MX3LB4	354	A603_70.4 P100 BE100LB4	A603_70.4 P100 BX100LB4
20.5	1278	1.2	70.2	17200	A503_70.2 S3 ME3LB4	A503_70.2 S3 MX3LB4	346	A503_70.2 P100 BE100LB4	A503_70.2 P100 BX100LB4
22.2	1183	2.4	65.0	30000	A603_65.0 S3 ME3LB4	A603_65.0 S3 MX3LB4	354	A603_65.0 P100 BE100LB4	A603_65.0 P100 BX100LB4
22.4	1171	1.7	64.3	30000	A553_64.3 S3 ME3LB4	A553_64.3 S3 MX3LB4	350	A553_64.3 P100 BE100LB4	A553_64.3 P100 BX100LB4



3 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC	IE2	IE3
22.5	1163	1.3	63.9	17100	A503_63.9 S3 ME3LB4	A503_63.9 S3 MX3LB4	346	A503_63.9 P100 BE100LB4	A503_63.9 P100 BX100LB4
25.3	1034	1.5	56.8	17000	A503_56.8 S3 ME3LB4	A503_56.8 S3 MX3LB4	346	A503_56.8 P100 BE100LB4	A503_56.8 P100 BX100LB4
25.9	1012	2.8	55.6	30000	A603_55.6 S3 ME3LB4	A603_55.6 S3 MX3LB4	354	A603_55.6 P100 BE100LB4	A603_55.6 P100 BX100LB4
27.9	941	1.6	51.7	16800	A503_51.7 S3 ME3LB4	A503_51.7 S3 MX3LB4	346	A503_51.7 P100 BE100LB4	A503_51.7 P100 BX100LB4
28.1	934	3.0	51.3	30000	A603_51.3 S3 ME3LB4	A603_51.3 S3 MX3LB4	354	A603_51.3 P100 BE100LB4	A603_51.3 P100 BX100LB4
28.3	927	2.2	51.0	30000	A553_51.0 S3 ME3LB4	A553_51.0 S3 MX3LB4	350	A553_51.0 P100 BE100LB4	A553_51.0 P100 BX100LB4
29.8	908	0.9	48.3	12700	A412_48.3 S3 ME3LB4	A412_48.3 S3 MX3LB4	342	A412_48.3 P100 BE100LB4	A412_48.3 P100 BX100LB4
32	822	3.4	45.2	30000	A603_45.2 S3 ME3LB4	A603_45.2 S3 MX3LB4	354	A603_45.2 P100 BE100LB4	A603_45.2 P100 BX100LB4
32	847	1.0	45.1	12600	A412_45.1 S3 ME3LB4	A412_45.1 S3 MX3LB4	342	A412_45.1 P100 BE100LB4	A412_45.1 P100 BX100LB4
32	819	1.8	45.0	16500	A503_45.0 S3 ME3LB4	A503_45.0 S3 MX3LB4	346	A503_45.0 P100 BE100LB4	A503_45.0 P100 BX100LB4
35	745	2.0	40.9	16300	A503_40.9 S3 ME3LB4	A503_40.9 S3 MX3LB4	346	A503_40.9 P100 BE100LB4	A503_40.9 P100 BX100LB4
36	734	2.7	40.3	30000	A553_40.3 S3 ME3LB4	A553_40.3 S3 MX3LB4	350	A553_40.3 P100 BE100LB4	A553_40.3 P100 BX100LB4
39	689	0.9	36.6	8550	A352_36.6 S3 ME3LB4	A352_36.6 S3 MX3LB4	338	A352_36.6 P100 BE100LB4	A352_36.6 P100 BX100LB4
40	675	1.2	35.9	12200	A412_35.9 S3 ME3LB4	A412_35.9 S3 MX3LB4	342	A412_35.9 P100 BE100LB4	A412_35.9 P100 BX100LB4
40	648	2.3	35.6	16000	A503_35.6 S3 ME3LB4	A503_35.6 S3 MX3LB4	346	A503_35.6 P100 BE100LB4	A503_35.6 P100 BX100LB4
43	623	1.0	33.2	8520	A352_33.2 S3 ME3LB4	A352_33.2 S3 MX3LB4	338	A352_33.2 P100 BE100LB4	A352_33.2 P100 BX100LB4
44	589	2.5	32.4	15700	A503_32.4 S3 ME3LB4	A503_32.4 S3 MX3LB4	346	A503_32.4 P100 BE100LB4	A503_32.4 P100 BX100LB4
51	535	1.1	28.4	8420	A352_28.4 S3 ME3LB4	A352_28.4 S3 MX3LB4	338	A352_28.4 P100 BE100LB4	A352_28.4 P100 BX100LB4
51	532	1.4	28.3	11700	A412_28.3 S3 ME3LB4	A412_28.3 S3 MX3LB4	342	A412_28.3 P100 BE100LB4	A412_28.3 P100 BX100LB4
54	481	3.1	26.4	15100	A503_26.4 S3 ME3LB4	A503_26.4 S3 MX3LB4	346	A503_26.4 P100 BE100LB4	A503_26.4 P100 BX100LB4
56	483	1.2	25.7	8330	A352_25.7 S3 ME3LB4	A352_25.7 S3 MX3LB4	338	A352_25.7 P100 BE100LB4	A352_25.7 P100 BX100LB4
60	438	3.4	24.0	14800	A503_24.0 S3 ME3LB4	A503_24.0 S3 MX3LB4	346	A503_24.0 P100 BE100LB4	A503_24.0 P100 BX100LB4
63	428	1.0	22.8	4610	A302_22.8 S3 ME3LB4	A302_22.8 S3 MX3LB4	334	A302_22.8 P100 BE100LB4	A302_22.8 P100 BX100LB4
64	426	1.6	22.7	11200	A412_22.7 S3 ME3LB4	A412_22.7 S3 MX3LB4	342	A412_22.7 P100 BE100LB4	A412_22.7 P100 BX100LB4
64	423	1.4	22.5	8190	A352_22.5 S3 ME3LB4	A352_22.5 S3 MX3LB4	338	A352_22.5 P100 BE100LB4	A352_22.5 P100 BX100LB4
69	393	3.1	20.9	15500	A502_20.9 S3 ME3LB4	A502_20.9 S3 MX3LB4	346	A502_20.9 P100 BE100LB4	A502_20.9 P100 BX100LB4
70	386	1.1	20.5	4620	A302_20.5 S3 ME3LB4	A302_20.5 S3 MX3LB4	334	A302_20.5 P100 BE100LB4	A302_20.5 P100 BX100LB4
70	384	1.6	20.4	8080	A352_20.4 S3 ME3LB4	A352_20.4 S3 MX3LB4	338	A352_20.4 P100 BE100LB4	A352_20.4 P100 BX100LB4
80	338	1.2	18.0	4600	A302_18.0 S3 ME3LB4	A302_18.0 S3 MX3LB4	334	A302_18.0 P100 BE100LB4	A302_18.0 P100 BX100LB4
81	334	1.9	17.8	10600	A412_17.8 S3 ME3LB4	A412_17.8 S3 MX3LB4	342	A412_17.8 P100 BE100LB4	A412_17.8 P100 BX100LB4
85	319	1.9	17.0	7830	A352_17.0 S3 ME3LB4	A352_17.0 S3 MX3LB4	338	A352_17.0 P100 BE100LB4	A352_17.0 P100 BX100LB4
88	307	1.3	16.3	4580	A302_16.3 S3 ME3LB4	A302_16.3 S3 MX3LB4	334	A302_16.3 P100 BE100LB4	A302_16.3 P100 BX100LB4
89	303	2.0	16.1	10400	A412_16.1 S3 ME3LB4	A412_16.1 S3 MX3LB4	342	A412_16.1 P100 BE100LB4	A412_16.1 P100 BX100LB4
93	291	2.1	15.5	7700	A352_15.5 S3 ME3LB4	A352_15.5 S3 MX3LB4	338	A352_15.5 P100 BE100LB4	A352_15.5 P100 BX100LB4
102	265	0.9	14.1	2650	A202_14.1 S3 ME3LB4	A202_14.1 S3 MX3LB4	330	A202_14.1 P100 BE100LB4	A202_14.1 P100 BX100LB4
105	259	2.3	13.8	9990	A412_13.8 S3 ME3LB4	A412_13.8 S3 MX3LB4	342	A412_13.8 P100 BE100LB4	A412_13.8 P100 BX100LB4
106	255	1.5	13.6	4500	A302_13.6 S3 ME3LB4	A302_13.6 S3 MX3LB4	334	A302_13.6 P100 BE100LB4	A302_13.6 P100 BX100LB4
110	246	2.4	13.1	7450	A352_13.1 S3 ME3LB4	A352_13.1 S3 MX3LB4	338	A352_13.1 P100 BE100LB4	A352_13.1 P100 BX100LB4
120	225	0.9	12.0	2670	A202_12.0 S3 ME3LB4	A202_12.0 S3 MX3LB4	330	A202_12.0 P100 BE100LB4	A202_12.0 P100 BX100LB4
122	221	1.4	11.8	4400	A302_11.8 S3 ME3LB4	A302_11.8 S3 MX3LB4	334	A302_11.8 P100 BE100LB4	A302_11.8 P100 BX100LB4
122	221	1.8	11.8	7410	A352_11.8 S3 ME3LB4	A352_11.8 S3 MX3LB4	338	A352_11.8 P100 BE100LB4	A352_11.8 P100 BX100LB4
123	221	2.5	11.7	9580	A412_11.7 S3 ME3LB4	A412_11.7 S3 MX3LB4	342	A412_11.7 P100 BE100LB4	A412_11.7 P100 BX100LB4
125	216	1.5	23.1	2690	A202_23.1 S3 ME3LB2		330	A202_23.1 P100 BE100L2	
135	200	2.0	10.6	7230	A352_10.6 S3 ME3LB4	A352_10.6 S3 MX3LB4	338	A352_10.6 P100 BE100LB4	A352_10.6 P100 BX100LB4
138	197	1.7	10.5	4350	A302_10.5 S3 ME3LB4	A302_10.5 S3 MX3LB4	334	A302_10.5 P100 BE100LB4	A302_10.5 P100 BX100LB4
139	194	1.2	10.3	2690	A202_10.3 S3 ME3LB4	A202_10.3 S3 MX3LB4	330	A202_10.3 P100 BE100LB4	A202_10.3 P100 BX100LB4
142	190	2.8	10.1	9230	A412_10.1 S3 ME3LB4	A412_10.1 S3 MX3LB4	342	A412_10.1 P100 BE100LB4	A412_10.1 P100 BX100LB4
154	176	1.2	9.4	2670	A202_9.4 S3 ME3LB4	A202_9.4 S3 MX3LB4	330	A202_9.4 P100 BE100LB4	A202_9.4 P100 BX100LB4
155	175	1.7	9.3	4240	A302_9.3 S3 ME3LB4	A302_9.3 S3 MX3LB4	334	A302_9.3 P100 BE100LB4	A302_9.3 P100 BX100LB4
155	175	2.3	9.3	7000	A352_9.3 S3 ME3LB4	A352_9.3 S3 MX3LB4	338	A352_9.3 P100 BE100LB4	A352_9.3 P100 BX100LB4
157	173	3.2	9.2	8980	A412_9.2 S3 ME3LB4	A412_9.2 S3 MX3LB4	342	A412_9.2 P100 BE100LB4	A412_9.2 P100 BX100LB4
170	159	1.9	8.5	4170	A302_8.5 S3 ME3LB4	A302_8.5 S3 MX3LB4	334	A302_8.5 P100 BE100LB4	A302_8.5 P100 BX100LB4
170	159	2.4	8.5	6840	A352_8.5 S3 ME3LB4	A352_8.5 S3 MX3LB4	338	A352_8.5 P100 BE100LB4	A352_8.5 P100 BX100LB4
172	157	1.3	8.4	2650	A202_8.4 S3 ME3LB4	A202_8.4 S3 MX3LB4	330	A202_8.4 P100 BE100LB4	A202_8.4 P100 BX100LB4
173	157	3.5	8.3	8740	A412_8.3 S3 ME3LB4	A412_8.3 S3 MX3LB4	342	A412_8.3 P100 BE100LB4	A412_8.3 P100 BX100LB4

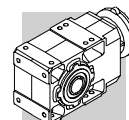


3 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC	IE2	IE3
198	137	1.5	7.3	2620	A202_7.3 S3 ME3LB4	A202_7.3 S3 MX3LB4	330	A202_7.3 P100 BE100LB4	A202_7.3 P100 BX100LB4
200	136	1.0	7.2	2220	A102_7.2 S3 ME3LB4	A102_7.2 S3 MX3LB4	326	A102_7.2 P100 BE100LB4	A102_7.2 P100 BX100LB4
205	132	2.3	7.0	4030	A302_7.0 S3 ME3LB4	A302_7.0 S3 MX3LB4	334	A302_7.0 P100 BE100LB4	A302_7.0 P100 BX100LB4
205	132	2.8	7.0	6520	A352_7.0 S3 ME3LB4	A352_7.0 S3 MX3LB4	338	A352_7.0 P100 BE100LB4	A352_7.0 P100 BX100LB4
220	123	1.7	6.5	2590	A202_6.5 S3 ME3LB4	A202_6.5 S3 MX3LB4	330	A202_6.5 P100 BE100LB4	A202_6.5 P100 BX100LB4
225	121	2.5	6.4	3950	A302_6.4 S3 ME3LB4	A302_6.4 S3 MX3LB4	334	A302_6.4 P100 BE100LB4	A302_6.4 P100 BX100LB4
225	121	2.9	6.4	6360	A352_6.4 S3 ME3LB4	A352_6.4 S3 MX3LB4	338	A352_6.4 P100 BE100LB4	A352_6.4 P100 BX100LB4
227	119	1.2	6.3	2640	A102_6.3 S3 ME3LB4	A102_6.3 S3 MX3LB4	326	A102_6.3 P100 BE100LB4	A102_6.3 P100 BX100LB4
245	110	2.7	11.8	3870	A302_11.8 S3 ME3LB2		334	A302_11.8 P100 BE100L2	
263	103	1.4	5.5	2200	A102_5.5 S3 ME3LB4	A102_5.5 S3 MX3LB4	326	A102_5.5 P100 BE100LB4	A102_5.5 P100 BX100LB4
266	102	2.9	5.4	3810	A302_5.4 S3 ME3LB4	A302_5.4 S3 MX3LB4	334	A302_5.4 P100 BE100LB4	A302_5.4 P100 BX100LB4
266	102	3.3	5.4	6070	A352_5.4 S3 ME3LB4	A352_5.4 S3 MX3LB4	338	A352_5.4 P100 BE100LB4	A352_5.4 P100 BX100LB4
269	101	2.1	5.4	2520	A202_5.4 S3 ME3LB4	A202_5.4 S3 MX3LB4	330	A202_5.4 P100 BE100LB4	A202_5.4 P100 BX100LB4
279	97	1.9	10.3	2500	A202_10.3 S3 ME3LB2		330	A202_10.3 P100 BE100L2	
309	87	3.4	9.3	3670	A302_9.3 S3 ME3LB2		334	A302_9.3 P100 BE100L2	
344	78	2.7	8.4	2410	A202_8.4 S3 ME3LB2		330	A202_8.4 P100 BE100L2	
399	67	2.1	7.2	2090	A102_7.2 S3 ME3LB2		326	A102_7.2 P100 BE100L2	
455	59	2.3	6.3	2430	A102_6.3 S3 ME3LB2		326	A102_6.3 P100 BE100L2	
527	51	2.6	5.5	1990	A102_5.5 S3 ME3LB2		326	A102_5.5 P100 BE100L2	

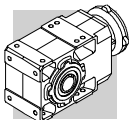
3 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC	IE3
1.7	15399	0.9	865.1	75000		A904_865.1 P100 BXN100LB4	365
1.9	13651	1.0	766.9	75000		A904_766.9 P100 BXN100LB4	365
2.0	12601	1.1	707.9	75000		A904_707.9 P100 BXN100LB4	365
2.4	10708	1.3	601.6	75000		A904_601.6 P100 BXN100LB4	365
2.6	9884	1.4	555.3	75000		A904_555.3 P100 BXN100LB4	365
3.0	8661	1.6	486.6	75000		A904_486.6 P100 BXN100LB4	365
3.0	8525	0.9	478.9	65000		A804_478.9 P100 BXN100LB4	362
3.2	7995	1.8	449.2	75000		A904_449.2 P100 BXN100LB4	365
3.3	7869	1.0	442.1	65000		A804_442.1 P100 BXN100LB4	362
3.7	6861	2.0	385.4	75000		A904_385.4 P100 BXN100LB4	365
3.8	6826	1.2	383.5	65000		A804_383.5 P100 BXN100LB4	362
4.0	6333	2.2	355.8	75000		A904_355.8 P100 BXN100LB4	365
4.1	6301	1.3	354.0	65000		A804_354.0 P100 BXN100LB4	362
4.6	5631	0.9	316.4	50000		A704_316.4 P100 BXN100LB4	359
4.7	5427	2.6	304.9	75000		A904_304.9 P100 BXN100LB4	365
4.8	5347	1.5	300.4	65000		A804_300.4 P100 BXN100LB4	362
4.9	5198	1.0	292.0	50000		A704_292.0 P100 BXN100LB4	359
5.1	5010	2.8	281.4	75000		A904_281.4 P100 BXN100LB4	365
5.2	4936	1.6	277.3	65000		A804_277.3 P100 BXN100LB4	362
6.0	4247	1.2	238.6	50000		A704_238.6 P100 BXN100LB4	359
6.2	4141	1.9	232.6	65000		A804_232.6 P100 BXN100LB4	362
6.4	4030	3.5	226.4	75000		A904_226.4 P100 BXN100LB4	365
6.5	3921	1.3	220.3	50000		A704_220.3 P100 BXN100LB4	359
6.7	3822	2.1	214.7	65000		A804_214.7 P100 BXN100LB4	362
7.8	3273	1.5	183.9	50000		A704_183.9 P100 BXN100LB4	359
8.4	3121	0.9	171.5	30000		A603_171.5 P100 BXN100LB4	355
8.4	3049	2.6	171.3	65000		A804_171.3 P100 BXN100LB4	362
8.5	3022	1.7	169.8	50000		A704_169.8 P100 BXN100LB4	359



3 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
9.2	2854	2.8	156.8	65000		A803_156.8 P100 BXN100LB4 362
9.2	2840	1.0	156.0	30000		A603_156.0 P100 BXN100LB4 355
9.4	2797	1.4	153.7	50000		A703_153.7 P100 BXN100LB4 359
9.9	2634	3.0	144.7	65000		A803_144.7 P100 BXN100LB4 362
10.0	2622	1.1	144.0	30000		A603_144.0 P100 BXN100LB4 355
10.2	2582	1.9	141.9	50000		A703_141.9 P100 BXN100LB4 359
10.8	2426	1.2	133.3	30000		A603_133.3 P100 BXN100LB4 355
11.0	2378	2.1	130.7	50000		A703_130.7 P100 BXN100LB4 359
11.5	2286	3.5	125.6	65000		A803_125.6 P100 BXN100LB4 362
11.6	2255	0.9	123.9	30000		A553_123.9 P100 BXN100LB4 351
11.7	2239	1.3	123.0	30000		A603_123.0 P100 BXN100LB4 355
11.9	2195	2.3	120.6	50000		A703_120.6 P100 BXN100LB4 359
13.4	1962	1.4	107.8	30000		A603_107.8 P100 BXN100LB4 355
13.8	1897	2.6	104.2	50000		A703_104.2 P100 BXN100LB4 359
14.2	1845	1.1	101.4	30000		A553_101.4 P100 BXN100LB4 351
14.5	1811	1.5	99.5	30000		A603_99.5 P100 BXN100LB4 355
15.0	1751	2.9	96.2	50000		A703_96.2 P100 BXN100LB4 359
16.1	1630	0.9	89.5	17100		A503_89.5 P100 BXN100LB4 347
16.7	1572	1.8	86.4	30000		A603_86.4 P100 BXN100LB4 355
16.8	1564	3.2	85.9	50000		A703_85.9 P100 BXN100LB4 359
17.7	1482	1.0	81.5	17200		A503_81.5 P100 BXN100LB4 347
18.1	1451	1.9	79.7	30000		A603_79.7 P100 BXN100LB4 355
18.1	1447	1.4	79.5	30000		A553_79.5 P100 BXN100LB4 351
18.2	1444	3.5	79.3	50000		A703_79.3 P100 BXN100LB4 359
20.5	1281	2.2	70.4	30000		A603_70.4 P100 BXN100LB4 355
20.5	1278	1.2	70.2	17200		A503_70.2 P100 BXN100LB4 347
22.2	1183	2.4	65.0	30000		A603_65.0 P100 BXN100LB4 355
22.4	1171	1.7	64.3	30000		A553_64.3 P100 BXN100LB4 351
22.5	1163	1.3	63.9	17100		A503_63.9 P100 BXN100LB4 347
25.3	1034	1.5	56.8	17000		A503_56.8 P100 BXN100LB4 347
25.9	1012	2.8	55.6	30000		A603_55.6 P100 BXN100LB4 355
27.9	941	1.6	51.7	16800		A503_51.7 P100 BXN100LB4 347
28.1	934	3.0	51.3	30000		A603_51.3 P100 BXN100LB4 355
28.3	927	2.2	51.0	30000		A553_51.0 P100 BXN100LB4 351
29.8	908	0.9	48.3	12700		A412_48.3 P100 BXN100LB4 343
32	822	3.4	45.2	30000		A603_45.2 P100 BXN100LB4 355
32	847	1.0	45.1	12600		A412_45.1 P100 BXN100LB4 343
32	819	1.8	45.0	16500		A503_45.0 P100 BXN100LB4 347
35	745	2.0	40.9	16300		A503_40.9 P100 BXN100LB4 347
36	734	2.7	40.3	30000		A553_40.3 P100 BXN100LB4 351
39	689	0.9	36.6	8550		A352_36.6 P100 BXN100LB4 339
40	675	1.2	35.9	12200		A412_35.9 P100 BXN100LB4 343
40	648	2.3	35.6	16000		A503_35.6 P100 BXN100LB4 347
43	623	1.0	33.2	8520		A352_33.2 P100 BXN100LB4 339
44	589	2.5	32.4	15700		A503_32.4 P100 BXN100LB4 347
51	535	1.1	28.4	8420		A352_28.4 P100 BXN100LB4 339
51	532	1.4	28.3	11700		A412_28.3 P100 BXN100LB4 343
54	481	3.1	26.4	15100		A503_26.4 P100 BXN100LB4 347
56	483	1.2	25.7	8330		A352_25.7 P100 BXN100LB4 339
60	438	3.4	24.0	14800		A503_24.0 P100 BXN100LB4 347
63	428	1.0	22.8	4610		A302_22.8 P100 BXN100LB4 335
64	426	1.6	22.7	11200		A412_22.7 P100 BXN100LB4 343
64	423	1.4	22.5	8190		A352_22.5 P100 BXN100LB4 339

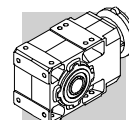


3 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
69	393	3.1	20.9	15500		A502_20.9 P100 BXN100LB4 347
70	386	1.1	20.5	4620		A302_20.5 P100 BXN100LB4 335
70	384	1.6	20.4	8080		A352_20.4 P100 BXN100LB4 339
80	338	1.2	18.0	4600		A302_18.0 P100 BXN100LB4 335
81	334	1.9	17.8	10600		A412_17.8 P100 BXN100LB4 343
85	319	1.9	17.0	7830		A352_17.0 P100 BXN100LB4 339
88	307	1.3	16.3	4580		A302_16.3 P100 BXN100LB4 335
89	303	2.0	16.1	10400		A412_16.1 P100 BXN100LB4 343
93	291	2.1	15.5	7700		A352_15.5 P100 BXN100LB4 339
102	265	0.9	14.1	2650		A202_14.1 P100 BXN100LB4 331
105	259	2.3	13.8	9990		A412_13.8 P100 BXN100LB4 343
106	255	1.5	13.6	4500		A302_13.6 P100 BXN100LB4 335
110	246	2.4	13.1	7450		A352_13.1 P100 BXN100LB4 339
120	225	0.9	12.0	2670		A202_12.0 P100 BXN100LB4 331
122	221	1.4	11.8	4400		A302_11.8 P100 BXN100LB4 335
122	221	1.8	11.8	7410		A352_11.8 P100 BXN100LB4 339
123	221	2.5	11.7	9580		A412_11.7 P100 BXN100LB4 343
135	200	2.0	10.6	7230		A352_10.6 P100 BXN100LB4 339
138	197	1.7	10.5	4350		A302_10.5 P100 BXN100LB4 335
139	194	1.2	10.3	2690		A202_10.3 P100 BXN100LB4 331
142	190	2.8	10.1	9230		A412_10.1 P100 BXN100LB4 343
154	176	1.2	9.4	2670		A202_9.4 P100 BXN100LB4 331
155	175	1.7	9.3	4240		A302_9.3 P100 BXN100LB4 335
155	175	2.3	9.3	7000		A352_9.3 P100 BXN100LB4 339
157	173	3.2	9.2	8980		A412_9.2 P100 BXN100LB4 343
170	159	1.9	8.5	4170		A302_8.5 P100 BXN100LB4 335
170	159	2.4	8.5	6840		A352_8.5 P100 BXN100LB4 339
172	157	1.3	8.4	2650		A202_8.4 P100 BXN100LB4 331
173	157	3.5	8.3	8740		A412_8.3 P100 BXN100LB4 343
198	137	1.5	7.3	2620		A202_7.3 P100 BXN100LB4 331
200	136	1.0	7.2	2220		A102_7.2 P100 BXN100LB4 327
205	132	2.3	7.0	4030		A302_7.0 P100 BXN100LB4 335
205	132	2.8	7.0	6520		A352_7.0 P100 BXN100LB4 339
220	123	1.7	6.5	2590		A202_6.5 P100 BXN100LB4 331
225	121	2.5	6.4	3950		A302_6.4 P100 BXN100LB4 335
225	121	2.9	6.4	6360		A352_6.4 P100 BXN100LB4 339
227	119	1.2	6.3	2640		A102_6.3 P100 BXN100LB4 327
263	103	1.4	5.5	2200		A102_5.5 P100 BXN100LB4 327
266	102	2.9	5.4	3810		A302_5.4 P100 BXN100LB4 335
266	102	3.3	5.4	6070		A352_5.4 P100 BXN100LB4 339
269	101	2.1	5.4	2520		A202_5.4 P100 BXN100LB4 331

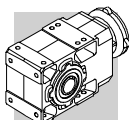
4 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N						
					IE2	IE3		IE2	IE3	
2.4	14456	1.0	601.6	75000	A904_601.6 S4 ME4SA4	A904_601.6 S4 MX4SA4	364	A904_601.6 P112 BE112M4	A904_601.6 P112 BX112M4	365
2.6	13344	1.0	555.3	75000	A904_555.3 S4 ME4SA4	A904_555.3 S4 MX4SA4	364	A904_555.3 P112 BE112M4	A904_555.3 P112 BX112M4	365
3.0	11693	1.2	486.6	75000	A904_486.6 S4 ME4SA4	A904_486.6 S4 MX4SA4	364	A904_486.6 P112 BE112M4	A904_486.6 P112 BX112M4	365



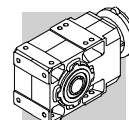
4 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC	IE2	IE3
3.2	10793	1.3	449.2	75000	A904_449.2 S4 ME4SA4	A904_449.2 S4 MX4SA4	364	A904_449.2 P112 BE112M4	A904_449.2 P112 BX112M4
3.7	9262	1.5	385.4	75000	A904_385.4 S4 ME4SA4	A904_385.4 S4 MX4SA4	364	A904_385.4 P112 BE112M4	A904_385.4 P112 BX112M4
3.8	9215	0.9	383.5	65000	A804_383.5 S4 ME4SA4	A804_383.5 S4 MX4SA4	361	A804_383.5 P112 BE112M4	A804_383.5 P112 BX112M4
4.0	8550	1.6	355.8	75000	A904_355.8 S4 ME4SA4	A904_355.8 S4 MX4SA4	364	A904_355.8 P112 BE112M4	A904_355.8 P112 BX112M4
4.1	8506	0.9	354.0	65000	A804_354.0 S4 ME4SA4	A804_354.0 S4 MX4SA4	361	A804_354.0 P112 BE112M4	A804_354.0 P112 BX112M4
4.7	7326	1.9	304.9	75000	A904_304.9 S4 ME4SA4	A904_304.9 S4 MX4SA4	364	A904_304.9 P112 BE112M4	A904_304.9 P112 BX112M4
4.8	7218	1.1	300.4	65000	A804_300.4 S4 ME4SA4	A804_300.4 S4 MX4SA4	361	A804_300.4 P112 BE112M4	A804_300.4 P112 BX112M4
5.1	6763	2.1	281.4	75000	A904_281.4 S4 ME4SA4	A904_281.4 S4 MX4SA4	364	A904_281.4 P112 BE112M4	A904_281.4 P112 BX112M4
5.2	6663	1.2	277.3	65000	A804_277.3 S4 ME4SA4	A804_277.3 S4 MX4SA4	361	A804_277.3 P112 BE112M4	A804_277.3 P112 BX112M4
6.0	5734	0.9	238.6	50000	A704_238.6 S4 ME4SA4	A704_238.6 S4 MX4SA4	358	A704_238.6 P112 BE112M4	A704_238.6 P112 BX112M4
6.2	5590	1.4	232.6	65000	A804_232.6 S4 ME4SA4	A804_232.6 S4 MX4SA4	361	A804_232.6 P112 BE112M4	A804_232.6 P112 BX112M4
6.4	5441	2.6	226.4	75000	A904_226.4 S4 ME4SA4	A904_226.4 S4 MX4SA4	364	A904_226.4 P112 BE112M4	A904_226.4 P112 BX112M4
6.5	5293	0.9	220.3	50000	A704_220.3 S4 ME4SA4	A704_220.3 S4 MX4SA4	358	A704_220.3 P112 BE112M4	A704_220.3 P112 BX112M4
6.7	5160	1.6	214.7	65000	A804_214.7 S4 ME4SA4	A804_214.7 S4 MX4SA4	361	A804_214.7 P112 BE112M4	A804_214.7 P112 BX112M4
6.9	5023	2.8	209.0	75000	A904_209.0 S4 ME4SA4	A904_209.0 S4 MX4SA4	364	A904_209.0 P112 BE112M4	A904_209.0 P112 BX112M4
7.8	4419	1.1	183.9	50000	A704_183.9 S4 ME4SA4	A704_183.9 S4 MX4SA4	358	A704_183.9 P112 BE112M4	A704_183.9 P112 BX112M4
8.0	4325	3.2	180.0	75000	A904_180.0 S4 ME4SA4	A904_180.0 S4 MX4SA4	364	A904_180.0 P112 BE112M4	A904_180.0 P112 BX112M4
8.4	4116	1.9	171.3	65000	A804_171.3 S4 ME4SA4	A804_171.3 S4 MX4SA4	361	A804_171.3 P112 BE112M4	A804_171.3 P112 BX112M4
8.5	4079	1.2	169.8	50000	A704_169.8 S4 ME4SA4	A704_169.8 S4 MX4SA4	358	A704_169.8 P112 BE112M4	A704_169.8 P112 BX112M4
8.7	3992	3.5	166.1	75000	A904_166.1 S4 ME4SA4	A904_166.1 S4 MX4SA4	364	A904_166.1 P112 BE112M4	A904_166.1 P112 BX112M4
9.2	3853	2.1	156.8	65000	A803_156.8 S4 ME4SA4	A803_156.8 S4 MX4SA4	361	A803_156.8 P112 BE112M4	A803_156.8 P112 BX112M4
9.4	3776	1.1	153.7	50000	A703_153.7 S4 ME4SA4	A703_153.7 S4 MX4SA4	358	A703_153.7 P112 BE112M4	A703_153.7 P112 BX112M4
9.9	3556	2.2	144.7	65000	A803_144.7 S4 ME4SA4	A803_144.7 S4 MX4SA4	361	A803_144.7 P112 BE112M4	A803_144.7 P112 BX112M4
10.2	3486	1.4	141.9	50000	A703_141.9 S4 ME4SA4	A703_141.9 S4 MX4SA4	358	A703_141.9 P112 BE112M4	A703_141.9 P112 BX112M4
11.0	3210	1.6	130.7	50000	A703_130.7 S4 ME4SA4	A703_130.7 S4 MX4SA4	358	A703_130.7 P112 BE112M4	A703_130.7 P112 BX112M4
11.5	3086	2.6	125.6	65000	A803_125.6 S4 ME4SA4	A803_125.6 S4 MX4SA4	361	A803_125.6 P112 BE112M4	A803_125.6 P112 BX112M4
11.7	3023	0.9	123.0	30000	A603_123.0 S4 ME4SA4	A603_123.0 S4 MX4SA4	354	A603_123.0 P112 BE112M4	A603_123.0 P112 BX112M4
11.9	2964	1.7	120.6	50000	A703_120.6 S4 ME4SA4	A703_120.6 S4 MX4SA4	358	A703_120.6 P112 BE112M4	A703_120.6 P112 BX112M4
12.4	2849	2.8	116.0	65000	A803_116.0 S4 ME4SA4	A803_116.0 S4 MX4SA4	361	A803_116.0 P112 BE112M4	A803_116.0 P112 BX112M4
13.4	2649	1.1	107.8	30000	A603_107.8 S4 ME4SA4	A603_107.8 S4 MX4SA4	354	A603_107.8 P112 BE112M4	A603_107.8 P112 BX112M4
13.8	2561	2.0	104.2	50000	A703_104.2 S4 ME4SA4	A703_104.2 S4 MX4SA4	358	A703_104.2 P112 BE112M4	A703_104.2 P112 BX112M4
13.8	2556	3.1	104.0	65000	A803_104.0 S4 ME4SA4	A803_104.0 S4 MX4SA4	361	A803_104.0 P112 BE112M4	A803_104.0 P112 BX112M4
14.5	2445	1.1	99.5	30000	A603_99.5 S4 ME4SA4	A603_99.5 S4 MX4SA4	354	A603_99.5 P112 BE112M4	A603_99.5 P112 BX112M4
15.0	2364	2.1	96.2	50000	A703_96.2 S4 ME4SA4	A703_96.2 S4 MX4SA4	358	A703_96.2 P112 BE112M4	A703_96.2 P112 BX112M4
15.0	2359	3.4	96.0	65000	A803_96.0 S4 ME4SA4	A803_96.0 S4 MX4SA4	361	A803_96.0 P112 BE112M4	A803_96.0 P112 BX112M4
16.7	2122	1.3	86.4	30000	A603_86.4 S4 ME4SA4	A603_86.4 S4 MX4SA4	354	A603_86.4 P112 BE112M4	A603_86.4 P112 BX112M4
16.8	2112	2.4	85.9	50000	A703_85.9 S4 ME4SA4	A703_85.9 S4 MX4SA4	358	A703_85.9 P112 BE112M4	A703_85.9 P112 BX112M4
18.1	1959	1.4	79.7	30000	A603_79.7 S4 ME4SA4	A603_79.7 S4 MX4SA4	354	A603_79.7 P112 BE112M4	A603_79.7 P112 BX112M4
18.1	1954	1.0	79.5	30000	A553_79.5 S4 ME4SA4	A553_79.5 S4 MX4SA4	350	A553_79.5 P112 BE112M4	A553_79.5 P112 BX112M4
18.2	1949	2.6	79.3	50000	A703_79.3 S4 ME4SA4	A703_79.3 S4 MX4SA4	358	A703_79.3 P112 BE112M4	A703_79.3 P112 BX112M4
19.9	1782	2.8	72.5	50000	A703_72.5 S4 ME4SA4	A703_72.5 S4 MX4SA4	358	A703_72.5 P112 BE112M4	A703_72.5 P112 BX112M4
20.5	1730	1.6	70.4	30000	A603_70.4 S4 ME4SA4	A603_70.4 S4 MX4SA4	354	A603_70.4 P112 BE112M4	A603_70.4 P112 BX112M4
21.5	1645	3.0	66.9	50000	A703_66.9 S4 ME4SA4	A703_66.9 S4 MX4SA4	358	A703_66.9 P112 BE112M4	A703_66.9 P112 BX112M4
22.2	1597	1.8	65.0	30000	A603_65.0 S4 ME4SA4	A603_65.0 S4 MX4SA4	354	A603_65.0 P112 BE112M4	A603_65.0 P112 BX112M4
22.4	1580	1.3	64.3	30000	A553_64.3 S4 ME4SA4	A553_64.3 S4 MX4SA4	350	A553_64.3 P112 BE112M4	A553_64.3 P112 BX112M4
22.5	1570	1.0	63.9	14700	A503_63.9 S4 ME4SA4	A503_63.9 S4 MX4SA4	346	A503_63.9 P112 BE112M4	A503_63.9 P112 BX112M4
25.3	1396	1.1	56.8	14800	A503_56.8 S4 ME4SA4	A503_56.8 S4 MX4SA4	346	A503_56.8 P112 BE112M4	A503_56.8 P112 BX112M4
25.9	1366	2.0	55.6	30000	A603_55.6 S4 ME4SA4	A603_55.6 S4 MX4SA4	354	A603_55.6 P112 BE112M4	A603_55.6 P112 BX112M4
27.9	1270	1.2	51.7	14900	A503_51.7 S4 ME4SA4	A503_51.7 S4 MX4SA4	346	A503_51.7 P112 BE112M4	A503_51.7 P112 BX112M4
28.1	1261	2.2	51.3	30000	A603_51.3 S4 ME4SA4	A603_51.3 S4 MX4SA4	354	A603_51.3 P112 BE112M4	A603_51.3 P112 BX112M4
28.3	1252	1.6	51.0	30000	A553_51.0 S4 ME4SA4	A553_51.0 S4 MX4SA4	350	A553_51.0 P112 BE112M4	A553_51.0 P112 BX112M4
32	1110	2.5	45.2	30000	A603_45.2 S4 ME4SA4	A603_45.2 S4 MX4SA4	354	A603_45.2 P112 BE112M4	A603_45.2 P112 BX112M4
32	1106	1.4	45.0	14900	A503_45.0 S4 ME4SA4	A503_45.0 S4 MX4SA4	346	A503_45.0 P112 BE112M4	A503_45.0 P112 BX112M4
35	1025	2.7	41.7	30000	A603_41.7 S4 ME4SA4	A603_41.7 S4 MX4SA4	354	A603_41.7 P112 BE112M4	A603_41.7 P112 BX112M4
35	1006	1.5	40.9	14800	A503_40.9 S4 ME4SA4	A503_40.9 S4 MX4SA4	346	A503_40.9 P112 BE112M4	A503_40.9 P112 BX112M4
36	990	2.0	40.3	30000	A553_40.3 S4 ME4SA4	A553_40.3 S4 MX4SA4	350	A553_40.3 P112 BE112M4	A553_40.3 P112 BX112M4
40	875	1.7	35.6	14700	A503_35.6 S4 ME4SA4	A503_35.6 S4 MX4SA4	346	A503_35.6 P112 BE112M4	A503_35.6 P112 BX112M4
42	843	3.3	34.3	30000	A603_34.3 S4 ME4SA4	A603_34.3 S4 MX4SA4	354	A603_34.3 P112 BE112M4	A603_34.3 P112 BX112M4



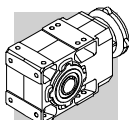
4 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				IEC		
					IE2	IE3		IE2	IE3	
44	796	1.9	32.4	14500	A503_32.4 S4 ME4SA4	A503_32.4 S4 MX4SA4	346	A503_32.4 P112 BE112M4	A503_32.4 P112 BX112M4	347
48	735	2.7	29.9	30000	A553_29.9 S4 ME4SA4	A553_29.9 S4 MX4SA4	350	A553_29.9 P112 BE112M4	A553_29.9 P112 BX112M4	351
51	719	1.0	28.3	10900	A412_28.3 S4 ME4SA4	A412_28.3 S4 MX4SA4	342	A412_28.3 P112 BE112M4	A412_28.3 P112 BX112M4	343
54	650	2.3	26.4	14100	A503_26.4 S4 ME4SA4	A503_26.4 S4 MX4SA4	346	A503_26.4 P112 BE112M4	A503_26.4 P112 BX112M4	347
56	652	0.9	25.7	7420				A352_25.7 P112 BE112M4	A352_25.7 P112 BX112M4	339
60	591	2.5	24.0	13900	A503_24.0 S4 ME4SA4	A503_24.0 S4 MX4SA4	346	A503_24.0 P112 BE112M4	A503_24.0 P112 BX112M4	347
61	585	3.3	23.8	30000	A553_23.8 S4 ME4SA4	A553_23.8 S4 MX4SA4	350	A553_23.8 P112 BE112M4	A553_23.8 P112 BX112M4	351
64	576	1.2	22.7	10500	A412_22.7 S4 ME4SA4	A412_22.7 S4 MX4SA4	342	A412_22.7 P112 BE112M4	A412_22.7 P112 BX112M4	343
64	571	1.1	22.5	7400				A352_22.5 P112 BE112M4	A352_22.5 P112 BX112M4	339
69	531	2.3	20.9	15100	A502_20.9 S4 ME4SA4	A502_20.9 S4 MX4SA4	346	A502_20.9 P112 BE112M4	A502_20.9 P112 BX112M4	347
70	518	1.2	20.4	7360				A352_20.4 P112 BE112M4	A352_20.4 P112 BX112M4	339
80	456	0.9	18.0	3930				A302_18.0 P112 BE112M4	A302_18.0 P112 BX112M4	335
81	451	1.4	17.8	10100	A412_17.8 S4 ME4SA4	A412_17.8 S4 MX4SA4	342	A412_17.8 P112 BE112M4	A412_17.8 P112 BX112M4	343
85	430	1.4	17.0	7240				A352_17.0 P112 BE112M4	A352_17.0 P112 BX112M4	339
87	421	2.9	16.6	14200	A502_16.6 S4 ME4SA4	A502_16.6 S4 MX4SA4	346	A502_16.6 P112 BE112M4	A502_16.6 P112 BX112M4	347
88	415	0.9	16.3	3970				A302_16.3 P112 BE112M4	A302_16.3 P112 BX112M4	335
89	408	1.5	16.1	9940	A412_16.1 S4 ME4SA4	A412_16.1 S4 MX4SA4	342	A412_16.1 P112 BE112M4	A412_16.1 P112 BX112M4	343
93	393	1.5	15.5	7160				A352_15.5 P112 BE112M4	A352_15.5 P112 BX112M4	339
105	349	1.7	13.8	9610	A412_13.8 S4 ME4SA4	A412_13.8 S4 MX4SA4	342	A412_13.8 P112 BE112M4	A412_13.8 P112 BX112M4	343
106	344	1.1	13.6	4000				A302_13.6 P112 BE112M4	A302_13.6 P112 BX112M4	335
110	333	3.3	13.1	13300	A502_13.1 S4 ME4SA4	A502_13.1 S4 MX4SA4	346	A502_13.1 P112 BE112M4	A502_13.1 P112 BX112M4	347
110	332	1.8	13.1	7000				A352_13.1 P112 BE112M4	A352_13.1 P112 BX112M4	339
122	299	1.0	11.8	3960				A302_11.8 P112 BE112M4	A302_11.8 P112 BX112M4	335
122	299	1.3	11.8	7050	A352_11.8 S4 ME4SA4	A352_11.8 S4 MX4SA4	338	A352_11.8 P112 BE112M4	A352_11.8 P112 BX112M4	339
123	298	1.8	11.7	9260	A412_11.7 S4 ME4SA4	A412_11.7 S4 MX4SA4	342	A412_11.7 P112 BE112M4	A412_11.7 P112 BX112M4	343
127	282	1.2	22.8	3980				A302_22.8 P112 BE112M2		335
135	270	1.5	10.6	6910	A352_10.6 S4 ME4SA4	A352_10.6 S4 MX4SA4	338	A352_10.6 P112 BE112M4	A352_10.6 P112 BX112M4	339
138	265	1.3	10.5	3970				A302_10.5 P112 BE112M4	A302_10.5 P112 BX112M4	335
142	257	2.1	10.1	8960	A412_10.1 S4 ME4SA4	A412_10.1 S4 MX4SA4	342	A412_10.1 P112 BE112M4	A412_10.1 P112 BX112M4	343
155	236	1.3	9.3	3900				A302_9.3 P112 BE112M4	A302_9.3 P112 BX112M4	335
155	236	1.7	9.3	6730	A352_9.3 S4 ME4SA4	A352_9.3 S4 MX4SA4	338	A352_9.3 P112 BE112M4	A352_9.3 P112 BX112M4	339
157	233	2.4	9.2	8740	A412_9.2 S4 ME4SA4	A412_9.2 S4 MX4SA4	342	A412_9.2 P112 BE112M4	A412_9.2 P112 BX112M4	343
170	215	1.4	8.5	3860				A302_8.5 P112 BE112M4	A302_8.5 P112 BX112M4	335
170	215	1.8	8.5	6590	A352_8.5 S4 ME4SA4	A352_8.5 S4 MX4SA4	338	A352_8.5 P112 BE112M4	A352_8.5 P112 BX112M4	339
172	212	1.0	8.4	2300				A202_8.4 P112 BE112M4	A202_8.4 P112 BX112M4	331
173	211	2.6	8.3	8520	A412_8.3 S4 ME4SA4	A412_8.3 S4 MX4SA4	342	A412_8.3 P112 BE112M4	A412_8.3 P112 BX112M4	343
198	185	1.1	7.3	2310				A202_7.3 P112 BE112M4	A202_7.3 P112 BX112M4	331
202	181	3.0	7.1	8180	A412_7.1 S4 ME4SA4	A412_7.1 S4 MX4SA4	342	A412_7.1 P112 BE112M4	A412_7.1 P112 BX112M4	343
205	178	1.7	7.0	3770				A302_7.0 P112 BE112M4	A302_7.0 P112 BX112M4	335
205	178	2.1	7.0	6310	A352_7.0 S4 ME4SA4	A352_7.0 S4 MX4SA4	338	A352_7.0 P112 BE112M4	A352_7.0 P112 BX112M4	339
220	166	1.3	6.5	2310				A202_6.5 P112 BE112M4	A202_6.5 P112 BX112M4	331
225	163	1.8	6.4	3720				A302_6.4 P112 BE112M4	A302_6.4 P112 BX112M4	335
225	163	2.2	6.4	6180	A352_6.4 S4 ME4SA4	A352_6.4 S4 MX4SA4	338	A352_6.4 P112 BE112M4	A352_6.4 P112 BX112M4	339
263	139	1.0	5.5	1910	A102_5.5 S4 ME4SA4	A102_5.5 S4 MX4SA4	326	A102_5.5 P112 BE112M4	A102_5.5 P112 BX112M4	327
266	137	2.2	5.4	3610				A302_5.4 P112 BE112M4	A302_5.4 P112 BX112M4	335
266	137	2.5	5.4	5920	A352_5.4 S4 ME4SA4	A352_5.4 S4 MX4SA4	338	A352_5.4 P112 BE112M4	A352_5.4 P112 BX112M4	339
269	136	1.5	5.4	2300				A202_5.4 P112 BE112M4	A202_5.4 P112 BX112M4	331
273	132	3.0	10.6	5850	A352_10.6 S4 ME4SA2		338	A352_10.6 P112 BE112M2		339
311	115	3.5	9.3	5650	A352_9.3 S4 ME4SA2		338	A352_9.3 P112 BE112M2		339
346	104	2.1	8.4	2230				A202_8.4 P112 BE112M2		331
413	87	3.4	7.0	3280				A302_7.0 P112 BE112M2		335
458	78	1.8	6.3	2240				A102_6.3 P112 BE112M2		327
542	66	2.9	5.4	2080				A202_5.4 P112 BE112M2		331



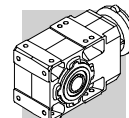
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
2.4	14456	1.0	601.6	75000		A904_601.6 P112 BXN112M4 365
2.6	13344	1.0	555.3	75000		A904_555.3 P112 BXN112M4 365
3.0	11693	1.2	486.6	75000		A904_486.6 P112 BXN112M4 365
3.2	10793	1.3	449.2	75000		A904_449.2 P112 BXN112M4 365
3.7	9262	1.5	385.4	75000		A904_385.4 P112 BXN112M4 365
3.8	9215	0.9	383.5	65000		A804_383.5 P112 BXN112M4 362
4.0	8550	1.6	355.8	75000		A904_355.8 P112 BXN112M4 365
4.1	8506	0.9	354.0	65000		A804_354.0 P112 BXN112M4 362
4.7	7326	1.9	304.9	75000		A904_304.9 P112 BXN112M4 365
4.8	7218	1.1	300.4	65000		A804_300.4 P112 BXN112M4 362
5.1	6763	2.1	281.4	75000		A904_281.4 P112 BXN112M4 365
5.2	6663	1.2	277.3	65000		A804_277.3 P112 BXN112M4 362
6.0	5734	0.9	238.6	50000		A704_238.6 P112 BXN112M4 359
6.2	5590	1.4	232.6	65000		A804_232.6 P112 BXN112M4 362
6.4	5441	2.6	226.4	75000		A904_226.4 P112 BXN112M4 365
6.5	5293	0.9	220.3	50000		A704_220.3 P112 BXN112M4 359
6.7	5160	1.6	214.7	65000		A804_214.7 P112 BXN112M4 362
6.9	5023	2.8	209.0	75000		A904_209.0 P112 BXN112M4 365
7.8	4419	1.1	183.9	50000		A704_183.9 P112 BXN112M4 359
8.0	4325	3.2	180.0	75000		A904_180.0 P112 BXN112M4 365
8.4	4116	1.9	171.3	65000		A804_171.3 P112 BXN112M4 362
8.5	4079	1.2	169.8	50000		A704_169.8 P112 BXN112M4 359
8.7	3992	3.5	166.1	75000		A904_166.1 P112 BXN112M4 365
9.2	3853	2.1	156.8	65000		A803_156.8 P112 BXN112M4 362
9.4	3776	1.1	153.7	50000		A703_153.7 P112 BXN112M4 359
9.9	3556	2.2	144.7	65000		A803_144.7 P112 BXN112M4 362
10.2	3486	1.4	141.9	50000		A703_141.9 P112 BXN112M4 359
11.0	3210	1.6	130.7	50000		A703_130.7 P112 BXN112M4 359
11.5	3086	2.6	125.6	65000		A803_125.6 P112 BXN112M4 362
11.7	3023	0.9	123.0	30000		A603_123.0 P112 BXN112M4 355
11.9	2964	1.7	120.6	50000		A703_120.6 P112 BXN112M4 359
12.4	2849	2.8	116.0	65000		A803_116.0 P112 BXN112M4 362
13.4	2649	1.1	107.8	30000		A603_107.8 P112 BXN112M4 355
13.8	2561	2.0	104.2	50000		A703_104.2 P112 BXN112M4 359
13.8	2556	3.1	104.0	65000		A803_104.0 P112 BXN112M4 362
14.5	2445	1.1	99.5	30000		A603_99.5 P112 BXN112M4 355
15.0	2364	2.1	96.2	50000		A703_96.2 P112 BXN112M4 359
15.0	2359	3.4	96.0	65000		A803_96.0 P112 BXN112M4 362
16.7	2122	1.3	86.4	30000		A603_86.4 P112 BXN112M4 355
16.8	2112	2.4	85.9	50000		A703_85.9 P112 BXN112M4 359
18.1	1959	1.4	79.7	30000		A603_79.7 P112 BXN112M4 355
18.1	1954	1.0	79.5	30000		A553_79.5 P112 BXN112M4 351
18.2	1949	2.6	79.3	50000		A703_79.3 P112 BXN112M4 359
19.9	1782	2.8	72.5	50000		A703_72.5 P112 BXN112M4 359
20.5	1730	1.6	70.4	30000		A603_70.4 P112 BXN112M4 355
21.5	1645	3.0	66.9	50000		A703_66.9 P112 BXN112M4 359
22.2	1597	1.8	65.0	30000		A603_65.0 P112 BXN112M4 355
22.4	1580	1.3	64.3	30000		A553_64.3 P112 BXN112M4 351
22.5	1570	1.0	63.9	14700		A503_63.9 P112 BXN112M4 347
25.3	1396	1.1	56.8	14800		A503_56.8 P112 BXN112M4 347
25.9	1366	2.0	55.6	30000		A603_55.6 P112 BXN112M4 355
27.9	1270	1.2	51.7	14900		A503_51.7 P112 BXN112M4 347
28.1	1261	2.2	51.3	30000		A603_51.3 P112 BXN112M4 355
28.3	1252	1.6	51.0	30000		A553_51.0 P112 BXN112M4 351
32	1110	2.5	45.2	30000		A603_45.2 P112 BXN112M4 355
32	1106	1.4	45.0	14900		A503_45.0 P112 BXN112M4 347
35	1025	2.7	41.7	30000		A603_41.7 P112 BXN112M4 355



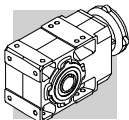
4 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
35	1006	1.5	40.9	14800		A503_40.9 P112 BXN112M4 347
36	990	2.0	40.3	30000		A553_40.3 P112 BXN112M4 351
40	875	1.7	35.6	14700		A503_35.6 P112 BXN112M4 347
42	843	3.3	34.3	30000		A603_34.3 P112 BXN112M4 355
44	796	1.9	32.4	14500		A503_32.4 P112 BXN112M4 347
48	735	2.7	29.9	30000		A553_29.9 P112 BXN112M4 351
51	719	1.0	28.3	10900		A412_28.3 P112 BXN112M4 343
54	650	2.3	26.4	14100		A503_26.4 P112 BXN112M4 347
56	652	0.9	25.7	7420		A352_25.7 P112 BXN112M4 339
60	591	2.5	24.0	13900		A503_24.0 P112 BXN112M4 347
61	585	3.3	23.8	30000		A553_23.8 P112 BXN112M4 351
64	576	1.2	22.7	10500		A412_22.7 P112 BXN112M4 343
64	571	1.1	22.5	7400		A352_22.5 P112 BXN112M4 339
69	531	2.3	20.9	15100		A502_20.9 P112 BXN112M4 347
70	518	1.2	20.4	7360		A352_20.4 P112 BXN112M4 339
80	456	0.9	18.0	3930		A302_18.0 P112 BXN112M4 335
81	451	1.4	17.8	10100		A412_17.8 P112 BXN112M4 343
85	430	1.4	17.0	7240		A352_17.0 P112 BXN112M4 339
87	421	2.9	16.6	14200		A502_16.6 P112 BXN112M4 347
88	415	0.9	16.3	3970		A302_16.3 P112 BXN112M4 335
89	408	1.5	16.1	9940		A412_16.1 P112 BXN112M4 343
93	393	1.5	15.5	7160		A352_15.5 P112 BXN112M4 339
105	349	1.7	13.8	9610		A412_13.8 P112 BXN112M4 343
106	344	1.1	13.6	4000		A302_13.6 P112 BXN112M4 335
110	333	3.3	13.1	13300		A502_13.1 P112 BXN112M4 347
110	332	1.8	13.1	7000		A352_13.1 P112 BXN112M4 339
122	299	1.0	11.8	3960		A302_11.8 P112 BXN112M4 335
122	299	1.3	11.8	7050		A352_11.8 P112 BXN112M4 339
123	298	1.8	11.7	9260		A412_11.7 P112 BXN112M4 343
135	270	1.5	10.6	6910		A352_10.6 P112 BXN112M4 339
138	265	1.3	10.5	3970		A302_10.5 P112 BXN112M4 335
142	257	2.1	10.1	8960		A412_10.1 P112 BXN112M4 343
155	236	1.3	9.3	3900		A302_9.3 P112 BXN112M4 335
155	236	1.7	9.3	6730		A352_9.3 P112 BXN112M4 339
157	233	2.4	9.2	8740		A412_9.2 P112 BXN112M4 343
170	215	1.4	8.5	3860		A302_8.5 P112 BXN112M4 335
170	215	1.8	8.5	6590		A352_8.5 P112 BXN112M4 339
172	212	1.0	8.4	2300		A202_8.4 P112 BXN112M4 331
173	211	2.6	8.3	8520		A412_8.3 P112 BXN112M4 343
198	185	1.1	7.3	2310		A202_7.3 P112 BXN112M4 331
202	181	3.0	7.1	8180		A412_7.1 P112 BXN112M4 343
205	178	1.7	7.0	3770		A302_7.0 P112 BXN112M4 335
205	178	2.1	7.0	6310		A352_7.0 P112 BXN112M4 339
220	166	1.3	6.5	2310		A202_6.5 P112 BXN112M4 331
225	163	1.8	6.4	3720		A302_6.4 P112 BXN112M4 335
225	163	2.2	6.4	6180		A352_6.4 P112 BXN112M4 339
263	139	1.0	5.5	1910		A102_5.5 P112 BXN112M4 327
266	137	2.2	5.4	3610		A302_5.4 P112 BXN112M4 335
266	137	2.5	5.4	5920		A352_5.4 P112 BXN112M4 339
269	136	1.5	5.4	2300		A202_5.4 P112 BXN112M4 331



5.5 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2			IE3			IEC		
					IE2			IE3			IE2		
3.0	15590	0.9	486.6	75000	A904_486.6 S4 ME4SB4	A904_486.6 S4 MX4SB4	364	A904_486.6 P132 BE132S4	A904_486.6 P132 BX132SB4	365	A904_486.6 P132 BE132S4	A904_486.6 P132 BX132SB4	365
3.3	14391	1.0	449.2	75000	A904_449.2 S4 ME4SB4	A904_449.2 S4 MX4SB4	364	A904_449.2 P132 BE132S4	A904_449.2 P132 BX132SB4	365	A904_449.2 P132 BE132S4	A904_449.2 P132 BX132SB4	365
3.8	12350	1.1	385.4	75000	A904_385.4 S4 ME4SB4	A904_385.4 S4 MX4SB4	364	A904_385.4 P132 BE132S4	A904_385.4 P132 BX132SB4	365	A904_385.4 P132 BE132S4	A904_385.4 P132 BX132SB4	365
4.1	11400	1.2	355.8	75000	A904_355.8 S4 ME4SB4	A904_355.8 S4 MX4SB4	364	A904_355.8 P132 BE132S4	A904_355.8 P132 BX132SB4	365	A904_355.8 P132 BE132S4	A904_355.8 P132 BX132SB4	365
4.8	9769	1.4	304.9	75000	A904_304.9 S4 ME4SB4	A904_304.9 S4 MX4SB4	364	A904_304.9 P132 BE132S4	A904_304.9 P132 BX132SB4	365	A904_304.9 P132 BE132S4	A904_304.9 P132 BX132SB4	365
5.2	9017	1.6	281.4	75000	A904_281.4 S4 ME4SB4	A904_281.4 S4 MX4SB4	364	A904_281.4 P132 BE132S4	A904_281.4 P132 BX132SB4	365	A904_281.4 P132 BE132S4	A904_281.4 P132 BX132SB4	365
5.3	8884	0.9	277.3	65000	A804_277.3 S4 ME4SB4	A804_277.3 S4 MX4SB4	361	A804_277.3 P132 BE132S4	A804_277.3 P132 BX132SB4	362	A804_277.3 P132 BE132S4	A804_277.3 P132 BX132SB4	362
6.3	7453	1.1	232.6	65000	A804_232.6 S4 ME4SB4	A804_232.6 S4 MX4SB4	361	A804_232.6 P132 BE132S4	A804_232.6 P132 BX132SB4	362	A804_232.6 P132 BE132S4	A804_232.6 P132 BX132SB4	362
6.4	7255	1.9	226.4	75000	A904_226.4 S4 ME4SB4	A904_226.4 S4 MX4SB4	364	A904_226.4 P132 BE132S4	A904_226.4 P132 BX132SB4	365	A904_226.4 P132 BE132S4	A904_226.4 P132 BX132SB4	365
6.8	6880	1.2	214.7	65000	A804_214.7 S4 ME4SB4	A804_214.7 S4 MX4SB4	361	A804_214.7 P132 BE132S4	A804_214.7 P132 BX132SB4	362	A804_214.7 P132 BE132S4	A804_214.7 P132 BX132SB4	362
7.0	6697	2.1	209.0	75000	A904_209.0 S4 ME4SB4	A904_209.0 S4 MX4SB4	364	A904_209.0 P132 BE132S4	A904_209.0 P132 BX132SB4	365	A904_209.0 P132 BE132S4	A904_209.0 P132 BX132SB4	365
8.1	5766	2.4	180.0	75000	A904_180.0 S4 ME4SB4	A904_180.0 S4 MX4SB4	364	A904_180.0 P132 BE132S4	A904_180.0 P132 BX132SB4	365	A904_180.0 P132 BE132S4	A904_180.0 P132 BX132SB4	365
8.5	5488	1.5	171.3	65000	A804_171.3 S4 ME4SB4	A804_171.3 S4 MX4SB4	361	A804_171.3 P132 BE132S4	A804_171.3 P132 BX132SB4	362	A804_171.3 P132 BE132S4	A804_171.3 P132 BX132SB4	362
8.6	5439	0.9	169.8	50000	A704_169.8 S4 ME4SB4	A704_169.8 S4 MX4SB4	358	A704_169.8 P132 BE132S4	A704_169.8 P132 BX132SB4	359	A704_169.8 P132 BE132S4	A704_169.8 P132 BX132SB4	359
8.8	5323	2.6	166.1	75000	A904_166.1 S4 ME4SB4	A904_166.1 S4 MX4SB4	364	A904_166.1 P132 BE132S4	A904_166.1 P132 BX132SB4	365	A904_166.1 P132 BE132S4	A904_166.1 P132 BX132SB4	365
9.3	5137	1.6	156.8	65000	A803_156.8 S4 ME4SB4	A803_156.8 S4 MX4SB4	361	A803_156.8 P132 BE132S4	A803_156.8 P132 BX132SB4	362	A803_156.8 P132 BE132S4	A803_156.8 P132 BX132SB4	362
9.7	4947	2.8	151.0	75000	A903_151.0 S4 ME4SB4	A903_151.0 S4 MX4SB4	364	A903_151.0 P132 BE132S4	A903_151.0 P132 BX132SB4	365	A903_151.0 P132 BE132S4	A903_151.0 P132 BX132SB4	365
10.1	4742	1.7	144.7	65000	A803_144.7 S4 ME4SB4	A803_144.7 S4 MX4SB4	361	A803_144.7 P132 BE132S4	A803_144.7 P132 BX132SB4	362	A803_144.7 P132 BE132S4	A803_144.7 P132 BX132SB4	362
10.3	4647	1.1	141.9	50000	A703_141.9 S4 ME4SB4	A703_141.9 S4 MX4SB4	358	A703_141.9 P132 BE132S4	A703_141.9 P132 BX132SB4	359	A703_141.9 P132 BE132S4	A703_141.9 P132 BX132SB4	359
10.5	4567	2.8	139.4	75000	A903_139.4 S4 ME4SB4	A903_139.4 S4 MX4SB4	364	A903_139.4 P132 BE132S4	A903_139.4 P132 BX132SB4	365	A903_139.4 P132 BE132S4	A903_139.4 P132 BX132SB4	365
11.2	4281	1.2	130.7	50000	A703_130.7 S4 ME4SB4	A703_130.7 S4 MX4SB4	358	A703_130.7 P132 BE132S4	A703_130.7 P132 BX132SB4	359	A703_130.7 P132 BE132S4	A703_130.7 P132 BX132SB4	359
11.5	4149	3.2	126.6	75000	A903_126.6 S4 ME4SB4	A903_126.6 S4 MX4SB4	364	A903_126.6 P132 BE132S4	A903_126.6 P132 BX132SB4	365	A903_126.6 P132 BE132S4	A903_126.6 P132 BX132SB4	365
11.6	4115	1.9	125.6	65000	A803_125.6 S4 ME4SB4	A803_125.6 S4 MX4SB4	361	A803_125.6 P132 BE132S4	A803_125.6 P132 BX132SB4	362	A803_125.6 P132 BE132S4	A803_125.6 P132 BX132SB4	362
12.1	3951	1.3	120.6	50000	A703_120.6 S4 ME4SB4	A703_120.6 S4 MX4SB4	358	A703_120.6 P132 BE132S4	A703_120.6 P132 BX132SB4	359	A703_120.6 P132 BE132S4	A703_120.6 P132 BX132SB4	359
12.6	3799	2.1	116.0	65000	A803_116.0 S4 ME4SB4	A803_116.0 S4 MX4SB4	361	A803_116.0 P132 BE132S4	A803_116.0 P132 BX132SB4	362	A803_116.0 P132 BE132S4	A803_116.0 P132 BX132SB4	362
14.0	3415	1.5	104.2	50000	A703_104.2 S4 ME4SB4	A703_104.2 S4 MX4SB4	358	A703_104.2 P132 BE132S4	A703_104.2 P132 BX132SB4	359	A703_104.2 P132 BE132S4	A703_104.2 P132 BX132SB4	359
14.0	3408	2.3	104.0	65000	A803_104.0 S4 ME4SB4	A803_104.0 S4 MX4SB4	361	A803_104.0 P132 BE132S4	A803_104.0 P132 BX132SB4	362	A803_104.0 P132 BE132S4	A803_104.0 P132 BX132SB4	362
15.2	3152	1.6	96.2	50000	A703_96.2 S4 ME4SB4	A703_96.2 S4 MX4SB4	358	A703_96.2 P132 BE132S4	A703_96.2 P132 BX132SB4	359	A703_96.2 P132 BE132S4	A703_96.2 P132 BX132SB4	359
15.2	3146	2.5	96.0	65000	A803_96.0 S4 ME4SB4	A803_96.0 S4 MX4SB4	361	A803_96.0 P132 BE132S4	A803_96.0 P132 BX132SB4	362	A803_96.0 P132 BE132S4	A803_96.0 P132 BX132SB4	362
16.4	2922	2.7	89.2	65000	A803_89.2 S4 ME4SB4	A803_89.2 S4 MX4SB4	361	A803_89.2 P132 BE132S4	A803_89.2 P132 BX132SB4	362	A803_89.2 P132 BE132S4	A803_89.2 P132 BX132SB4	362
16.9	2829	1.0	86.4	30000	A603_86.4 S4 ME4SB4	A603_86.4 S4 MX4SB4	354	A603_86.4 P132 BE132S4	A603_86.4 P132 BX132SB4	355	A603_86.4 P132 BE132S4	A603_86.4 P132 BX132SB4	355
17.0	2815	1.8	85.9	50000	A703_85.9 S4 ME4SB4	A703_85.9 S4 MX4SB4	358	A703_85.9 P132 BE132S4	A703_85.9 P132 BX132SB4	359	A703_85.9 P132 BE132S4	A703_85.9 P132 BX132SB4	359
17.7	2697	3.0	82.3	65000	A803_82.3 S4 ME4SB4	A803_82.3 S4 MX4SB4	361	A803_82.3 P132 BE132S4	A803_82.3 P132 BX132SB4	362	A803_82.3 P132 BE132S4	A803_82.3 P132 BX132SB4	362
18.3	2612	1.1	79.7	30000	A603_79.7 S4 ME4SB4	A603_79.7 S4 MX4SB4	354	A603_79.7 P132 BE132S4	A603_79.7 P132 BX132SB4	355	A603_79.7 P132 BE132S4	A603_79.7 P132 BX132SB4	355
18.4	2599	1.9	79.3	50000	A703_79.3 S4 ME4SB4	A703_79.3 S4 MX4SB4	358	A703_79.3 P132 BE132S4	A703_79.3 P132 BX132SB4	359	A703_79.3 P132 BE132S4	A703_79.3 P132 BX132SB4	359
20.1	2376	2.1	72.5	50000	A703_72.5 S4 ME4SB4	A703_72.5 S4 MX4SB4	358	A703_72.5 P132 BE132S4	A703_72.5 P132 BX132SB4	359	A703_72.5 P132 BE132S4	A703_72.5 P132 BX132SB4	359
20.2	2371	3.4	72.4	65000	A803_72.4 S4 ME4SB4	A803_72.4 S4 MX4SB4	361	A803_72.4 P132 BE132S4	A803_72.4 P132 BX132SB4	362	A803_72.4 P132 BE132S4	A803_72.4 P132 BX132SB4	362
20.7	2306	1.2	70.4	30000	A603_70.4 S4 ME4SB4	A603_70.4 S4 MX4SB4	354	A603_70.4 P132 BE132S4	A603_70.4 P132 BX132SB4	355	A603_70.4 P132 BE132S4	A603_70.4 P132 BX132SB4	355
21.8	2193	2.3	66.9	50000	A703_66.9 S4 ME4SB4	A703_66.9 S4 MX4SB4	358	A703_66.9 P132 BE132S4	A703_66.9 P132 BX132SB4	359	A703_66.9 P132 BE132S4	A703_66.9 P132 BX132SB4	359
22.5	2129	1.3	65.0	30000	A603_65.0 S4 ME4SB4	A603_65.0 S4 MX4SB4	354	A603_65.0 P132 BE132S4	A603_65.0 P132 BX132SB4	355	A603_65.0 P132 BE132S4	A603_65.0 P132 BX132SB4	355
22.7	2107	0.9	64.3	30000	A553_64.3 S4 ME4SB4	A553_64.3 S4 MX4SB4	350	A553_64.3 P132 BE132S4	A553_64.3 P132 BX132SB4	351	A553_64.3 P132 BE132S4	A553_64.3 P132 BX132SB4	351
25.3	1889	2.6	57.7	50000	A703_57.7 S4 ME4SB4	A703_57.7 S4 MX4SB4	358	A703_57.7 P132 BE132S4	A703_57.7 P132 BX132SB4	359	A703_57.7 P132 BE132S4	A703_57.7 P132 BX132SB4	359
26.3	1822	1.5	55.6	30000	A603_55.6 S4 ME4SB4	A603_55.6 S4 MX4SB4	354	A603_55.6 P132 BE132S4	A603_55.6 P132 BX132SB4	355	A603_55.6 P132 BE132S4	A603_55.6 P132 BX132SB4	355
27.4	1744	2.9	53.2	50000	A703_53.2 S4 ME4SB4	A703_53.2 S4 MX4SB4	358	A703_53.2 P132 BE132S4	A703_53.2 P132 BX132SB4	359	A703_53.2 P132 BE132S4	A703_53.2 P132 BX132SB4	359
28.4	1681	1.7	51.3	30000	A603_51.3 S4 ME4SB4	A603_51.3 S4 MX4SB4	354	A603_51.3 P132 BE132S4	A603_51.3 P132 BX132SB4	355	A603_51.3 P132 BE132S4	A603_51.3 P132 BX132SB4	355
28.7	1669	1.2	51.0	30000	A553_51.0 S4 ME4SB4	A553_51.0 S4 MX4SB4	350	A553_51.0 P132 BE132S4	A553_51.0 P132 BX132SB4	351	A553_51.0 P132 BE132S4	A553_51.0 P132 BX132SB4	351
29.8	1605	3.1	49.0	50000	A703_49.0 S4 ME4SB4	A703_49.0 S4 MX4SB4	358	A703_49.0 P132 BE132S4	A703_49.0 P132 BX132SB4	359	A703_49.0 P132 BE132S4	A703_49.0 P132 BX132SB4	359
32	1482	3.2	45.2	50000	A703_45.2 S4 ME4SB4	A703_45.2 S4 MX4SB4	358	A703_45.2 P132 BE132S4	A703_45.2 P132 BX132SB4	359	A703_45.2 P132 BE132S4	A703_45.2 P132 BX132SB4	359
32	1480	1.9	45.2	30000	A603_45.2 S4 ME4SB4	A603_45.2 S4 MX4SB4	354	A603_45.2 P132 BE132S4	A603_45.2 P132 BX132SB4	355	A603_45.2 P132 BE132S4	A603_45.2 P132 BX132SB4	355
32	1474	1.0	45.0	12400	A503_45.0 S4 ME4SB4	A503_45.0 S4 MX4SB4	346	A503_45.0 P132 BE132S4	A503_45.0 P132 BX132SB4	347	A503_45.0 P132 BE132S4	A503_45.0 P132 BX132SB4	347
35	1367	2.0	41.7	30000	A603_41.7 S4 ME4SB4	A603_41.7 S4 MX4SB4	354	A603_41.7 P132 BE132S4	A603_41.7 P132 BX132SB4	355	A603_41.7 P132 BE132S4	A603_41.7 P132 BX132SB4	355
36	1341	1.1	40.9	12600	A503_40.9 S4 ME4SB4	A503_40.9 S4 MX4SB4	346	A503_40.9 P132 BE132S4	A503_40.9 P132 BX132SB4	347	A503_40.9 P132 BE132S4	A503_40.9 P132 BX132SB4	347
36	1320	1.5	40.3	30000	A553_40.3 S4 ME4SB4	A553_40.3 S4 MX4SB4	350	A553_40.3 P132 BE132S4	A553_40.3 P132 BX132SB4	351	A553_40.3 P132 BE132S4	A553_40.3 P132 BX132SB4	351
41	1166	1.3	35.6	12700	A503_35.6 S4 ME4SB4	A503_35.6 S4 MX4SB4	346	A503_35.6 P132 BE132S4	A503_35.6 P132 BX132SB4	347	A503_35.6 P132 BE132S4	A503_35.6 P132 BX132SB4	347
43	1124	2.5	34.3	30000	A603_34.3 S4 ME4SB4	A603_34.3 S4 MX4SB4	354	A603_34.3 P132 BE132S4	A603_34.3 P132 BX132SB4	355	A603_34.3 P132 BE132S4	A603_34.3 P132 BX132SB4	355
45	1061	1.4	32.4	12700	A503_32.4 S4 ME4SB4	A503_32.4 S4 MX4SB4	346	A503_32.4 P132 BE132S4	A503_32.4 P132 BX132SB4	347	A503_32.4 P132 BE132S4	A503_32.4 P132 BX132SB4	347
46	1037	2.7	31.7	30000	A603_31.7 S4 ME4SB4	A603_31.7 S4 MX4SB4	354	A603_31.7 P132 BE132S4	A603_31.7 P132 BX132SB4	355	A603_31.7 P132 BE132S4	A603_31.7 P132 BX132SB4	355

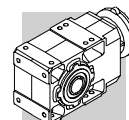


5.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				IEC		
					IE2	IE3		IE2	IE3	
49	981	2.0	29.9	30000	A553_29.9 S4 ME4SB4	A553_29.9 S4 MX4SB4	350	A553_29.9 P132 BE132S4	A553_29.9 P132 BX132SB4	351
52	912	3.1	27.9	30000	A603_27.9 S4 ME4SB4	A603_27.9 S4 MX4SB4	354	A603_27.9 P132 BE132S4	A603_27.9 P132 BX132SB4	355
55	866	1.7	26.4	12600	A503_26.4 S4 ME4SB4	A503_26.4 S4 MX4SB4	346	A503_26.4 P132 BE132S4	A503_26.4 P132 BX132SB4	347
57	842	3.3	25.7	30000	A603_25.7 S4 ME4SB4	A603_25.7 S4 MX4SB4	354	A603_25.7 P132 BE132S4	A603_25.7 P132 BX132SB4	355
61	788	1.9	24.0	12500	A503_24.0 S4 ME4SB4	A503_24.0 S4 MX4SB4	346	A503_24.0 P132 BE132S4	A503_24.0 P132 BX132SB4	347
61	779	2.5	23.8	29800	A553_23.8 S4 ME4SB4	A553_23.8 S4 MX4SB4	350	A553_23.8 P132 BE132S4	A553_23.8 P132 BX132SB4	351
70	708	1.7	20.9	14400	A502_20.9 S4 ME4SB4	A502_20.9 S4 MX4SB4	346	A502_20.9 P132 BE132S4	A502_20.9 P132 BX132SB4	347
71	697	2.9	20.6	30000	A602_20.6 S4 ME4SB4	A602_20.6 S4 MX4SB4	354	A602_20.6 P132 BE132S4	A602_20.6 P132 BX132SB4	355
76	651	2.8	19.2	29300	A552_19.2 S4 ME4SB4	A552_19.2 S4 MX4SB4	350	A552_19.2 P132 BE132S4	A552_19.2 P132 BX132SB4	351
82	601	1.0	17.8	9280	A412_17.8 S4 ME4SB4	A412_17.8 S4 MX4SB4	342	A412_17.8 P132 BE132S4	A412_17.8 P132 BX132SB4	343
87	566	3.5	16.7	30000	A602_16.7 S4 ME4SB4	A602_16.7 S4 MX4SB4	354	A602_16.7 P132 BE132S4	A602_16.7 P132 BX132SB4	355
88	561	2.1	16.6	13600	A502_16.6 S4 ME4SB4	A502_16.6 S4 MX4SB4	346	A502_16.6 P132 BE132S4	A502_16.6 P132 BX132SB4	347
91	545	1.1	16.1	9160	A412_16.1 S4 ME4SB4	A412_16.1 S4 MX4SB4	342	A412_16.1 P132 BE132S4	A412_16.1 P132 BX132SB4	343
93	531	3.4	15.7	27700	A552_15.7 S4 ME4SB4	A552_15.7 S4 MX4SB4	350	A552_15.7 P132 BE132S4	A552_15.7 P132 BX132SB4	351
106	466	1.3	13.8	8940	A412_13.8 S4 ME4SB4	A412_13.8 S4 MX4SB4	342	A412_13.8 P132 BE132S4	A412_13.8 P132 BX132SB4	343
111	444	2.5	13.1	12800	A502_13.1 S4 ME4SB4	A502_13.1 S4 MX4SB4	346	A502_13.1 P132 BE132S4	A502_13.1 P132 BX132SB4	347
124	397	1.4	11.7	8670	A412_11.7 S4 ME4SB4	A412_11.7 S4 MX4SB4	342	A412_11.7 P132 BE132S4	A412_11.7 P132 BX132SB4	343
124	399	1.0	11.8	6450	A352_11.8 S4 ME4SB4	A352_11.8 S4 MX4SB4	338	A352_11.8 P132 BE132S4	A352_11.8 P132 BX132SB4	339
138	360	1.1	10.6	6360	A352_10.6 S4 ME4SB4	A352_10.6 S4 MX4SB4	338	A352_10.6 P132 BE132S4	A352_10.6 P132 BX132SB4	339
144	343	1.6	10.1	8440	A412_10.1 S4 ME4SB4	A412_10.1 S4 MX4SB4	342	A412_10.1 P132 BE132S4	A412_10.1 P132 BX132SB4	343
150	329	3.0	9.7	11800	A502_9.7 S4 ME4SB4	A502_9.7 S4 MX4SB4	346	A502_9.7 P132 BE132S4	A502_9.7 P132 BX132SB4	347
157	315	1.3	9.3	6240	A352_9.3 S4 ME4SB4	A352_9.3 S4 MX4SB4	338	A352_9.3 P132 BE132S4	A352_9.3 P132 BX132SB4	339
159	311	1.8	9.2	8250	A412_9.2 S4 ME4SB4	A412_9.2 S4 MX4SB4	342	A412_9.2 P132 BE132S4	A412_9.2 P132 BX132SB4	343
173	286	1.3	8.5	6140	A352_8.5 S4 ME4SB4	A352_8.5 S4 MX4SB4	338	A352_8.5 P132 BE132S4	A352_8.5 P132 BX132SB4	339
175	282	2.0	8.3	8080	A412_8.3 S4 ME4SB4	A412_8.3 S4 MX4SB4	342	A412_8.3 P132 BE132S4	A412_8.3 P132 BX132SB4	343
205	241	2.3	7.1	7790	A412_7.1 S4 ME4SB4	A412_7.1 S4 MX4SB4	342	A412_7.1 P132 BE132S4	A412_7.1 P132 BX132SB4	343
208	238	1.6	7.0	5930	A352_7.0 S4 ME4SB4	A352_7.0 S4 MX4SB4	338	A352_7.0 P132 BE132S4	A352_7.0 P132 BX132SB4	339
228	217	1.6	6.4	5820	A352_6.4 S4 ME4SB4	A352_6.4 S4 MX4SB4	338	A352_6.4 P132 BE132S4	A352_6.4 P132 BX132SB4	339
249	198	2.8	11.7	7430	A412_11.7 S4 ME4SB2	A352_5.4 S4 MX4SB4	342	A412_11.7 P132 BE132SA2	A352_5.4 P132 BX132SB4	343
270	183	1.9	5.4	5610	A352_5.4 S4 ME4SB4		338	A352_5.4 P132 BE132SA2		339
289	171	2.5	10.1	7170	A412_10.1 S4 ME4SB2		342	A412_10.1 P132 BE132SA2		343
416	119	3.1	7.0	5060	A352_7.0 S4 ME4SB2		338	A352_7.0 P132 BE132SA2		339

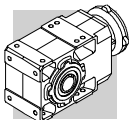
5.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC	IE3
3.0	15590	0.9	486.6	75000		A904_486.6 P132 BXN132S4	365
3.3	14391	1.0	449.2	75000		A904_449.2 P132 BXN132S4	365
3.8	12350	1.1	385.4	75000		A904_385.4 P132 BXN132S4	365
4.1	11400	1.2	355.8	75000		A904_355.8 P132 BXN132S4	365
4.8	9769	1.4	304.9	75000		A904_304.9 P132 BXN132S4	365
5.2	9017	1.6	281.4	75000		A904_281.4 P132 BXN132S4	365
5.3	8884	0.9	277.3	65000		A804_277.3 P132 BXN132S4	362
6.3	7453	1.1	232.6	65000		A804_232.6 P132 BXN132S4	362
6.4	7255	1.9	226.4	75000		A904_226.4 P132 BXN132S4	365
6.8	6880	1.2	214.7	65000		A804_214.7 P132 BXN132S4	362
7.0	6697	2.1	209.0	75000		A904_209.0 P132 BXN132S4	365
8.1	5766	2.4	180.0	75000		A904_180.0 P132 BXN132S4	365
8.5	5488	1.5	171.3	65000		A804_171.3 P132 BXN132S4	362
8.6	5439	0.9	169.8	50000		A704_169.8 P132 BXN132S4	359
8.8	5323	2.6	166.1	75000		A904_166.1 P132 BXN132S4	365
9.3	5137	1.6	156.8	65000		A803_156.8 P132 BXN132S4	362
9.7	4947	2.8	151.0	75000		A903_151.0 P132 BXN132S4	365



5.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
10.1	4742	1.7	144.7	65000		A803_144.7 P132 BXN132S4 362
10.3	4647	1.1	141.9	50000		A703_141.9 P132 BXN132S4 359
10.5	4567	2.8	139.4	75000		A903_139.4 P132 BXN132S4 365
11.2	4281	1.2	130.7	50000		A703_130.7 P132 BXN132S4 359
11.5	4149	3.2	126.6	75000		A903_126.6 P132 BXN132S4 365
11.6	4115	1.9	125.6	65000		A803_125.6 P132 BXN132S4 362
12.1	3951	1.3	120.6	50000		A703_120.6 P132 BXN132S4 359
12.6	3799	2.1	116.0	65000		A803_116.0 P132 BXN132S4 362
14.0	3415	1.5	104.2	50000		A703_104.2 P132 BXN132S4 359
14.0	3408	2.3	104.0	65000		A803_104.0 P132 BXN132S4 362
15.2	3152	1.6	96.2	50000		A703_96.2 P132 BXN132S4 359
15.2	3146	2.5	96.0	65000		A803_96.0 P132 BXN132S4 362
16.4	2922	2.7	89.2	65000		A803_89.2 P132 BXN132S4 362
16.9	2829	1.0	86.4	30000		A603_86.4 P132 BXN132S4 355
17.0	2815	1.8	85.9	50000		A703_85.9 P132 BXN132S4 359
17.7	2697	3.0	82.3	65000		A803_82.3 P132 BXN132S4 362
18.3	2612	1.1	79.7	30000		A603_79.7 P132 BXN132S4 355
18.4	2599	1.9	79.3	50000		A703_79.3 P132 BXN132S4 359
20.1	2376	2.1	72.5	50000		A703_72.5 P132 BXN132S4 359
20.2	2371	3.4	72.4	65000		A803_72.4 P132 BXN132S4 362
20.7	2306	1.2	70.4	30000		A603_70.4 P132 BXN132S4 355
21.8	2193	2.3	66.9	50000		A703_66.9 P132 BXN132S4 359
22.5	2129	1.3	65.0	30000		A603_65.0 P132 BXN132S4 355
22.7	2107	0.9	64.3	30000		A553_64.3 P132 BXN132S4 351
25.3	1889	2.6	57.7	50000		A703_57.7 P132 BXN132S4 359
26.3	1822	1.5	55.6	30000		A603_55.6 P132 BXN132S4 355
27.4	1744	2.9	53.2	50000		A703_53.2 P132 BXN132S4 359
28.4	1681	1.7	51.3	30000		A603_51.3 P132 BXN132S4 355
28.7	1669	1.2	51.0	30000		A553_51.0 P132 BXN132S4 351
29.8	1605	3.1	49.0	50000		A703_49.0 P132 BXN132S4 359
32	1482	3.2	45.2	50000		A703_45.2 P132 BXN132S4 359
32	1480	1.9	45.2	30000		A603_45.2 P132 BXN132S4 355
32	1474	1.0	45.0	12400		A503_45.0 P132 BXN132S4 347
35	1367	2.0	41.7	30000		A603_41.7 P132 BXN132S4 355
36	1341	1.1	40.9	12600		A503_40.9 P132 BXN132S4 347
36	1320	1.5	40.3	30000		A553_40.3 P132 BXN132S4 351
41	1166	1.3	35.6	12700		A503_35.6 P132 BXN132S4 347
43	1124	2.5	34.3	30000		A603_34.3 P132 BXN132S4 355
45	1061	1.4	32.4	12700		A503_32.4 P132 BXN132S4 347
46	1037	2.7	31.7	30000		A603_31.7 P132 BXN132S4 355
49	981	2.0	29.9	30000		A553_29.9 P132 BXN132S4 351
52	912	3.1	27.9	30000		A603_27.9 P132 BXN132S4 355
55	866	1.7	26.4	12600		A503_26.4 P132 BXN132S4 347
57	842	3.3	25.7	30000		A603_25.7 P132 BXN132S4 355
61	788	1.9	24.0	12500		A503_24.0 P132 BXN132S4 347
61	779	2.5	23.8	29800		A553_23.8 P132 BXN132S4 351
70	708	1.7	20.9	14400		A502_20.9 P132 BXN132S4 347
71	697	2.9	20.6	30000		A602_20.6 P132 BXN132S4 355
76	651	2.8	19.2	29300		A552_19.2 P132 BXN132S4 351
82	601	1.0	17.8	9280		A412_17.8 P132 BXN132S4 343
87	566	3.5	16.7	30000		A602_16.7 P132 BXN132S4 355
88	561	2.1	16.6	13600		A502_16.6 P132 BXN132S4 347
91	545	1.1	16.1	9160		A412_16.1 P132 BXN132S4 343
93	531	3.4	15.7	27700		A552_15.7 P132 BXN132S4 351
106	466	1.3	13.8	8940		A412_13.8 P132 BXN132S4 343
111	444	2.5	13.1	12800		A502_13.1 P132 BXN132S4 347
124	397	1.4	11.7	8670		A412_11.7 P132 BXN132S4 343

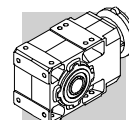


5.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
124	399	1.0	11.8	6450		A352_11.8 P132 BXN132S4 339
138	360	1.1	10.6	6360		A352_10.6 P132 BXN132S4 339
144	343	1.6	10.1	8440		A412_10.1 P132 BXN132S4 343
150	329	3.0	9.7	11800		A502_9.7 P132 BXN132S4 347
157	315	1.3	9.3	6240		A352_9.3 P132 BXN132S4 339
159	311	1.8	9.2	8250		A412_9.2 P132 BXN132S4 343
173	286	1.3	8.5	6140		A352_8.5 P132 BXN132S4 339
175	282	2.0	8.3	8080		A412_8.3 P132 BXN132S4 343
205	241	2.3	7.1	7790		A412_7.1 P132 BXN132S4 343
208	238	1.6	7.0	5930		A352_7.0 P132 BXN132S4 339
228	217	1.6	6.4	5820		A352_6.4 P132 BXN132S4 339
270	183	1.9	5.4	5610		A352_5.4 P132 BXN132S4 339

7.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC IE2	IEC IE3
4.1	15516	0.9	355.8	75000	A904_355.8 S4 ME4LA4	A904_355.8 S4 MX4LA4 364	A904_355.8 P132 BE132MA4	A904_355.8 P132 BX132MA4 365
4.8	13296	1.1	304.9	75000	A904_304.9 S4 ME4LA4	A904_304.9 S4 MX4LA4 364	A904_304.9 P132 BE132MA4	A904_304.9 P132 BX132MA4 365
5.2	12273	1.1	281.4	75000	A904_281.4 S4 ME4LA4	A904_281.4 S4 MX4LA4 364	A904_281.4 P132 BE132MA4	A904_281.4 P132 BX132MA4 365
6.4	9875	1.4	226.4	75000	A904_226.4 S4 ME4LA4	A904_226.4 S4 MX4LA4 364	A904_226.4 P132 BE132MA4	A904_226.4 P132 BX132MA4 365
7.0	9115	1.5	209.0	75000	A904_209.0 S4 ME4LA4	A904_209.0 S4 MX4LA4 364	A904_209.0 P132 BE132MA4	A904_209.0 P132 BX132MA4 365
8.1	7849	1.8	180.0	75000	A904_180.0 S4 ME4LA4	A904_180.0 S4 MX4LA4 364	A904_180.0 P132 BE132MA4	A904_180.0 P132 BX132MA4 365
8.5	7470	1.1	171.3	65000	A804_171.3 S4 ME4LA4	A804_171.3 S4 MX4LA4 361	A804_171.3 P132 BE132MA4	A804_171.3 P132 BX132MA4 362
8.8	7245	1.9	166.1	75000	A904_166.1 S4 ME4LA4	A904_166.1 S4 MX4LA4 364	A904_166.1 P132 BE132MA4	A904_166.1 P132 BX132MA4 365
9.3	6992	1.1	156.8	65000	A803_156.8 S4 ME4LA4	A803_156.8 S4 MX4LA4 361	A803_156.8 P132 BE132MA4	A803_156.8 P132 BX132MA4 362
9.6	6733	2.0	151.0	75000	A903_151.0 S4 ME4LA4	A903_151.0 S4 MX4LA4 364	A903_151.0 P132 BE132MA4	A903_151.0 P132 BX132MA4 365
10.1	6454	1.2	144.7	65000	A803_144.7 S4 ME4LA4	A803_144.7 S4 MX4LA4 361	A803_144.7 P132 BE132MA4	A803_144.7 P132 BX132MA4 362
10.4	6216	2.1	139.4	75000	A903_139.4 S4 ME4LA4	A903_139.4 S4 MX4LA4 364	A903_139.4 P132 BE132MA4	A903_139.4 P132 BX132MA4 365
11.5	5647	2.3	126.6	75000	A903_126.6 S4 ME4LA4	A903_126.6 S4 MX4LA4 364	A903_126.6 P132 BE132MA4	A903_126.6 P132 BX132MA4 365
11.6	5601	1.4	125.6	65000	A803_125.6 S4 ME4LA4	A803_125.6 S4 MX4LA4 361	A803_125.6 P132 BE132MA4	A803_125.6 P132 BX132MA4 362
12.1	5378	0.9	120.6	50000	A703_120.6 S4 ME4LA4	A703_120.6 S4 MX4LA4 358	A703_120.6 P132 BE132MA4	A703_120.6 P132 BX132MA4 359
12.4	5213	2.7	116.9	75000	A903_116.9 S4 ME4LA4	A903_116.9 S4 MX4LA4 364	A903_116.9 P132 BE132MA4	A903_116.9 P132 BX132MA4 365
12.5	5170	1.5	116.0	65000	A803_116.0 S4 ME4LA4	A803_116.0 S4 MX4LA4 361	A803_116.0 P132 BE132MA4	A803_116.0 P132 BX132MA4 362
13.6	4763	2.9	106.8	75000	A903_106.8 S4 ME4LA4	A903_106.8 S4 MX4LA4 364	A903_106.8 P132 BE132MA4	A903_106.8 P132 BX132MA4 365
14.0	4648	1.1	104.2	50000	A703_104.2 S4 ME4LA4	A703_104.2 S4 MX4LA4 358	A703_104.2 P132 BE132MA4	A703_104.2 P132 BX132MA4 359
14.0	4639	1.7	104.0	65000	A803_104.0 S4 ME4LA4	A803_104.0 S4 MX4LA4 361	A803_104.0 P132 BE132MA4	A803_104.0 P132 BX132MA4 362
14.8	4397	3.2	98.6	75000	A903_98.6 S4 ME4LA4	A903_98.6 S4 MX4LA4 364	A903_98.6 P132 BE132MA4	A903_98.6 P132 BX132MA4 365
15.1	4290	1.2	96.2	50000	A703_96.2 S4 ME4LA4	A703_96.2 S4 MX4LA4 358	A703_96.2 P132 BE132MA4	A703_96.2 P132 BX132MA4 359
15.2	4282	1.9	96.0	65000	A803_96.0 S4 ME4LA4	A803_96.0 S4 MX4LA4 361	A803_96.0 P132 BE132MA4	A803_96.0 P132 BX132MA4 362
16.3	3977	2.0	89.2	65000	A803_89.2 S4 ME4LA4	A803_89.2 S4 MX4LA4 361	A803_89.2 P132 BE132MA4	A803_89.2 P132 BX132MA4 362
16.9	3832	1.3	85.9	50000	A703_85.9 S4 ME4LA4	A703_85.9 S4 MX4LA4 358	A703_85.9 P132 BE132MA4	A703_85.9 P132 BX132MA4 359
17.7	3671	2.2	82.3	65000	A803_82.3 S4 ME4LA4	A803_82.3 S4 MX4LA4 361	A803_82.3 P132 BE132MA4	A803_82.3 P132 BX132MA4 362
18.3	3537	1.4	79.3	50000	A703_79.3 S4 ME4LA4	A703_79.3 S4 MX4LA4 358	A703_79.3 P132 BE132MA4	A703_79.3 P132 BX132MA4 359
20.1	3234	1.5	72.5	50000	A703_72.5 S4 ME4LA4	A703_72.5 S4 MX4LA4 358	A703_72.5 P132 BE132MA4	A703_72.5 P132 BX132MA4 359
20.1	3227	2.5	72.4	65000	A803_72.4 S4 ME4LA4	A803_72.4 S4 MX4LA4 361	A803_72.4 P132 BE132MA4	A803_72.4 P132 BX132MA4 362
20.7	3139	0.9	70.4	30000	A603_70.4 S4 ME4LA4	A603_70.4 S4 MX4LA4 354	A603_70.4 P132 BE132MA4	A603_70.4 P132 BX132MA4 355
21.7	2985	1.7	66.9	50000	A703_66.9 S4 ME4LA4	A703_66.9 S4 MX4LA4 358	A703_66.9 P132 BE132MA4	A703_66.9 P132 BX132MA4 359
21.8	2979	2.7	66.8	65000	A803_66.8 S4 ME4LA4	A803_66.8 S4 MX4LA4 361	A803_66.8 P132 BE132MA4	A803_66.8 P132 BX132MA4 362
22.4	2898	1.0	65.0	30000	A603_65.0 S4 ME4LA4	A603_65.0 S4 MX4LA4 354	A603_65.0 P132 BE132MA4	A603_65.0 P132 BX132MA4 355
24.3	2666	3.0	59.8	63800	A803_59.8 S4 ME4LA4	A803_59.8 S4 MX4LA4 361	A803_59.8 P132 BE132MA4	A803_59.8 P132 BX132MA4 362
25.2	2571	1.9	57.7	50000	A703_57.7 S4 ME4LA4	A703_57.7 S4 MX4LA4 358	A703_57.7 P132 BE132MA4	A703_57.7 P132 BX132MA4 359
26.2	2479	1.1	55.6	30000	A603_55.6 S4 ME4LA4	A603_55.6 S4 MX4LA4 354	A603_55.6 P132 BE132MA4	A603_55.6 P132 BX132MA4 355
26.4	2461	3.2	55.2	62600	A803_55.2 S4 ME4LA4	A803_55.2 S4 MX4LA4 361	A803_55.2 P132 BE132MA4	A803_55.2 P132 BX132MA4 362
27.3	2374	2.1	53.2	50000	A703_53.2 S4 ME4LA4	A703_53.2 S4 MX4LA4 358	A703_53.2 P132 BE132MA4	A703_53.2 P132 BX132MA4 359
28.3	2289	1.2	51.3	30000	A603_51.3 S4 ME4LA4	A603_51.3 S4 MX4LA4 354	A603_51.3 P132 BE132MA4	A603_51.3 P132 BX132MA4 355
29.7	2185	2.3	49.0	50000	A703_49.0 S4 ME4LA4	A703_49.0 S4 MX4LA4 358	A703_49.0 P132 BE132MA4	A703_49.0 P132 BX132MA4 359

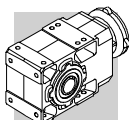


7.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				IEC		
					IE2	IE3		IE2	IE3	
32	2017	2.4	45.2	50000	A703_45.2 S4 ME4LA4	A703_45.2 S4 MX4LA4	358	A703_45.2 P132 BE132MA4	A703_45.2 P132 BX132MA4	359
32	2015	1.4	45.2	30000	A603_45.2 S4 ME4LA4	A603_45.2 S4 MX4LA4	354	A603_45.2 P132 BE132MA4	A603_45.2 P132 BX132MA4	355
35	1860	1.5	41.7	30000	A603_41.7 S4 ME4LA4	A603_41.7 S4 MX4LA4	354	A603_41.7 P132 BE132MA4	A603_41.7 P132 BX132MA4	355
36	1797	1.1	40.3	30000	A553_40.3 S4 ME4LA4	A553_40.3 S4 MX4LA4	350	A553_40.3 P132 BE132MA4	A553_40.3 P132 BX132MA4	351
38	1712	2.8	38.4	50000	A703_38.4 S4 ME4LA4	A703_38.4 S4 MX4LA4	358	A703_38.4 P132 BE132MA4	A703_38.4 P132 BX132MA4	359
41	1587	0.9	35.6	10100	A503_35.6 S4 ME4LA4	A503_35.6 S4 MX4LA4	346	A503_35.6 P132 BE132MA4	A503_35.6 P132 BX132MA4	347
41	1580	2.8	35.4	50000	A703_35.4 S4 ME4LA4	A703_35.4 S4 MX4LA4	358	A703_35.4 P132 BE132MA4	A703_35.4 P132 BX132MA4	359
42	1529	1.8	34.3	30000	A603_34.3 S4 ME4LA4	A603_34.3 S4 MX4LA4	354	A603_34.3 P132 BE132MA4	A603_34.3 P132 BX132MA4	355
45	1444	1.0	32.4	10300	A503_32.4 S4 ME4LA4	A503_32.4 S4 MX4LA4	346	A503_32.4 P132 BE132MA4	A503_32.4 P132 BX132MA4	347
46	1412	2.0	31.7	30000	A603_31.7 S4 ME4LA4	A603_31.7 S4 MX4LA4	354	A603_31.7 P132 BE132MA4	A603_31.7 P132 BX132MA4	355
49	1335	1.5	29.9	30000	A553_29.9 S4 ME4LA4	A553_29.9 S4 MX4LA4	350	A553_29.9 P132 BE132MA4	A553_29.9 P132 BX132MA4	351
52	1242	2.3	27.9	30000	A603_27.9 S4 ME4LA4	A603_27.9 S4 MX4LA4	354	A603_27.9 P132 BE132MA4	A603_27.9 P132 BX132MA4	355
55	1179	1.3	26.4	10700	A503_26.4 S4 ME4LA4	A503_26.4 S4 MX4LA4	346	A503_26.4 P132 BE132MA4	A503_26.4 P132 BX132MA4	347
57	1146	2.4	25.7	30000	A603_25.7 S4 ME4LA4	A603_25.7 S4 MX4LA4	354	A603_25.7 P132 BE132MA4	A603_25.7 P132 BX132MA4	355
61	1072	1.4	24.0	10800	A503_24.0 S4 ME4LA4	A503_24.0 S4 MX4LA4	346	A503_24.0 P132 BE132MA4	A503_24.0 P132 BX132MA4	347
61	1061	1.8	23.8	28800	A553_23.8 S4 ME4LA4	A553_23.8 S4 MX4LA4	350	A553_23.8 P132 BE132MA4	A553_23.8 P132 BX132MA4	351
70	963	1.2	20.9	13700	A502_20.9 S4 ME4LA4	A502_20.9 S4 MX4LA4	346	A502_20.9 P132 BE132MA4	A502_20.9 P132 BX132MA4	347
71	949	2.1	20.6	30000	A602_20.6 S4 ME4LA4	A602_20.6 S4 MX4LA4	354	A602_20.6 P132 BE132MA4	A602_20.6 P132 BX132MA4	355
76	886	2.0	19.2	28800	A552_19.2 S4 ME4LA4	A552_19.2 S4 MX4LA4	350	A552_19.2 P132 BE132MA4	A552_19.2 P132 BX132MA4	351
87	771	2.6	16.7	30000	A602_16.7 S4 ME4LA4	A602_16.7 S4 MX4LA4	354	A602_16.7 P132 BE132MA4	A602_16.7 P132 BX132MA4	355
88	763	1.6	16.6	13000	A502_16.6 S4 ME4LA4	A502_16.6 S4 MX4LA4	346	A502_16.6 P132 BE132MA4	A502_16.6 P132 BX132MA4	347
93	722	2.5	15.7	27300	A552_15.7 S4 ME4LA4	A552_15.7 S4 MX4LA4	350	A552_15.7 P132 BE132MA4	A552_15.7 P132 BX132MA4	351
106	634	0.9	13.8	8130	A412_13.8 S4 ME4LA4	A412_13.8 S4 MX4LA4	342	A412_13.8 P132 BE132MA4	A412_13.8 P132 BX132MA4	343
111	604	1.8	13.1	12300	A502_13.1 S4 ME4LA4	A502_13.1 S4 MX4LA4	346	A502_13.1 P132 BE132MA4	A502_13.1 P132 BX132MA4	347
111	602	3.0	13.1	26100	A552_13.1 S4 ME4LA4	A552_13.1 S4 MX4LA4	350	A552_13.1 P132 BE132MA4	A552_13.1 P132 BX132MA4	351
115	585	3.4	12.7	30000	A602_12.7 S4 ME4LA4	A602_12.7 S4 MX4LA4	354	A602_12.7 P132 BE132MA4	A602_12.7 P132 BX132MA4	355
124	541	1.0	11.7	7970	A412_11.7 S4 ME4LA4	A412_11.7 S4 MX4LA4	342	A412_11.7 P132 BE132MA4	A412_11.7 P132 BX132MA4	343
144	467	1.1	10.1	7850	A412_10.1 S4 ME4LA4	A412_10.1 S4 MX4LA4	342	A412_10.1 P132 BE132MA4	A412_10.1 P132 BX132MA4	343
149	448	2.2	9.7	11500	A502_9.7 S4 ME4LA4	A502_9.7 S4 MX4LA4	346	A502_9.7 P132 BE132MA4	A502_9.7 P132 BX132MA4	347
156	429	0.9	9.3	5650	A352_9.3 S4 ME4LA4	A352_9.3 S4 MX4LA4	338	A352_9.3 P132 BE132MA4	A352_9.3 P132 BX132MA4	339
158	424	1.3	9.2	7710	A412_9.2 S4 ME4LA4	A412_9.2 S4 MX4LA4	342	A412_9.2 P132 BE132MA4	A412_9.2 P132 BX132MA4	343
172	390	1.0	8.5	5600	A352_8.5 S4 ME4LA4	A352_8.5 S4 MX4LA4	338	A352_8.5 P132 BE132MA4	A352_8.5 P132 BX132MA4	339
175	384	1.4	8.3	7590	A412_8.3 S4 ME4LA4	A412_8.3 S4 MX4LA4	342	A412_8.3 P132 BE132MA4	A412_8.3 P132 BX132MA4	343
188	356	2.7	7.7	10800	A502_7.7 S4 ME4LA4	A502_7.7 S4 MX4LA4	346	A502_7.7 P132 BE132MA4	A502_7.7 P132 BX132MA4	347
204	328	1.7	7.1	7370	A412_7.1 S4 ME4LA4	A412_7.1 S4 MX4LA4	342	A412_7.1 P132 BE132MA4	A412_7.1 P132 BX132MA4	343
207	323	1.1	7.0	5490	A352_7.0 S4 ME4LA4	A352_7.0 S4 MX4LA4	338	A352_7.0 P132 BE132MA4	A352_7.0 P132 BX132MA4	339
227	295	1.2	6.4	5420	A352_6.4 S4 ME4LA4	A352_6.4 S4 MX4LA4	338	A352_6.4 P132 BE132MA4	A352_6.4 P132 BX132MA4	339
269	249	1.4	5.4	5270	A352_5.4 S4 ME4LA4	A352_5.4 S4 MX4LA4	338	A352_5.4 P132 BE132MA4	A352_5.4 P132 BX132MA4	339
277	242	2.3	5.2	6920	A412_5.2 S4 ME4LA4	A412_5.2 S4 MX4LA4	342	A412_5.2 P132 BE132MA4	A412_5.2 P132 BX132MA4	343
318	212	2.5	9.2	6710	A412_9.2 S4 ME4LA2		342	A412_9.2 P132 BE132SB2		343
351	192	2.7	8.3	6550	A412_8.3 S4 ME4LA2		342	A412_8.3 P132 BE132SB2		343
416	162	2.3	7.0	4830	A352_7.0 S4 ME4LA2		338	A352_7.0 P132 BE132SB2		339
540	125	2.7	5.4	4550	A352_5.4 S4 ME4LA2		338	A352_5.4 P132 BE132SB2		339

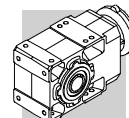
7.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC	IE3
4.1	15516	0.9	355.8	75000		A904_355.8 P132 BXN132M4	365
4.8	13296	1.1	304.9	75000		A904_304.9 P132 BXN132M4	365
5.2	12273	1.1	281.4	75000		A904_281.4 P132 BXN132M4	365
6.4	9875	1.4	226.4	75000		A904_226.4 P132 BXN132M4	365
7.0	9115	1.5	209.0	75000		A904_209.0 P132 BXN132M4	365
8.1	7849	1.8	180.0	75000		A904_180.0 P132 BXN132M4	365
8.5	7470	1.1	171.3	65000		A804_171.3 P132 BXN132M4	362
8.8	7245	1.9	166.1	75000		A904_166.1 P132 BXN132M4	365
9.3	6992	1.1	156.8	65000		A803_156.8 P132 BXN132M4	362
9.6	6733	2.0	151.0	75000		A903_151.0 P132 BXN132M4	365
10.1	6454	1.2	144.7	65000		A803_144.7 P132 BXN132M4	362
10.4	6216	2.1	139.4	75000		A903_139.4 P132 BXN132M4	365
11.5	5647	2.3	126.6	75000		A903_126.6 P132 BXN132M4	365
11.6	5601	1.4	125.6	65000		A803_125.6 P132 BXN132M4	362



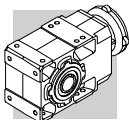
7.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
12.1	5378	0.9	120.6	50000		A703_120.6 P132 BXN132M4 359
12.4	5213	2.7	116.9	75000		A903_116.9 P132 BXN132M4 365
12.5	5170	1.5	116.0	65000		A803_116.0 P132 BXN132M4 362
13.6	4763	2.9	106.8	75000		A903_106.8 P132 BXN132M4 365
14.0	4648	1.1	104.2	50000		A703_104.2 P132 BXN132M4 359
14.0	4639	1.7	104.0	65000		A803_104.0 P132 BXN132M4 362
14.8	4397	3.2	98.6	75000		A903_98.6 P132 BXN132M4 365
15.1	4290	1.2	96.2	50000		A703_96.2 P132 BXN132M4 359
15.2	4282	1.9	96.0	65000		A803_96.0 P132 BXN132M4 362
16.3	3977	2.0	89.2	65000		A803_89.2 P132 BXN132M4 362
16.9	3832	1.3	85.9	50000		A703_85.9 P132 BXN132M4 359
17.7	3671	2.2	82.3	65000		A803_82.3 P132 BXN132M4 362
18.3	3537	1.4	79.3	50000		A703_79.3 P132 BXN132M4 359
20.1	3234	1.5	72.5	50000		A703_72.5 P132 BXN132M4 359
20.1	3227	2.5	72.4	65000		A803_72.4 P132 BXN132M4 362
20.7	3139	0.9	70.4	30000		A603_70.4 P132 BXN132M4 355
21.7	2985	1.7	66.9	50000		A703_66.9 P132 BXN132M4 359
21.8	2979	2.7	66.8	65000		A803_66.8 P132 BXN132M4 362
22.4	2898	1.0	65.0	30000		A603_65.0 P132 BXN132M4 355
24.3	2666	3.0	59.8	63800		A803_59.8 P132 BXN132M4 362
25.2	2571	1.9	57.7	50000		A703_57.7 P132 BXN132M4 359
26.2	2479	1.1	55.6	30000		A603_55.6 P132 BXN132M4 355
26.4	2461	3.2	55.2	62600		A803_55.2 P132 BXN132M4 362
27.3	2374	2.1	53.2	50000		A703_53.2 P132 BXN132M4 359
28.3	2289	1.2	51.3	30000		A603_51.3 P132 BXN132M4 355
29.7	2185	2.3	49.0	50000		A703_49.0 P132 BXN132M4 359
32	2017	2.4	45.2	50000		A703_45.2 P132 BXN132M4 359
32	2015	1.4	45.2	30000		A603_45.2 P132 BXN132M4 355
35	1860	1.5	41.7	30000		A603_41.7 P132 BXN132M4 355
36	1797	1.1	40.3	30000		A553_40.3 P132 BXN132M4 351
38	1712	2.8	38.4	50000		A703_38.4 P132 BXN132M4 359
41	1587	0.9	35.6	10100		A503_35.6 P132 BXN132M4 347
41	1580	2.8	35.4	50000		A703_35.4 P132 BXN132M4 359
42	1529	1.8	34.3	30000		A603_34.3 P132 BXN132M4 355
45	1444	1.0	32.4	10300		A503_32.4 P132 BXN132M4 347
46	1412	2.0	31.7	30000		A603_31.7 P132 BXN132M4 355
49	1335	1.5	29.9	30000		A553_29.9 P132 BXN132M4 351
52	1242	2.3	27.9	30000		A603_27.9 P132 BXN132M4 355
55	1179	1.3	26.4	10700		A503_26.4 P132 BXN132M4 347
57	1146	2.4	25.7	30000		A603_25.7 P132 BXN132M4 355
61	1072	1.4	24.0	10800		A503_24.0 P132 BXN132M4 347
61	1061	1.8	23.8	28800		A553_23.8 P132 BXN132M4 351
70	963	1.2	20.9	13700		A502_20.9 P132 BXN132M4 347
71	949	2.1	20.6	30000		A602_20.6 P132 BXN132M4 355
76	886	2.0	19.2	28800		A552_19.2 P132 BXN132M4 351
87	771	2.6	16.7	30000		A602_16.7 P132 BXN132M4 355
88	763	1.6	16.6	13000		A502_16.6 P132 BXN132M4 347
93	722	2.5	15.7	27300		A552_15.7 P132 BXN132M4 351
106	634	0.9	13.8	8130		A412_13.8 P132 BXN132M4 343
111	604	1.8	13.1	12300		A502_13.1 P132 BXN132M4 347
111	602	3.0	13.1	26100		A552_13.1 P132 BXN132M4 351
115	585	3.4	12.7	30000		A602_12.7 P132 BXN132M4 355
124	541	1.0	11.7	7970		A412_11.7 P132 BXN132M4 343
144	467	1.1	10.1	7850		A412_10.1 P132 BXN132M4 343
149	448	2.2	9.7	11500		A502_9.7 P132 BXN132M4 347
156	429	0.9	9.3	5650		A352_9.3 P132 BXN132M4 339
158	424	1.3	9.2	7710		A412_9.2 P132 BXN132M4 343
172	390	1.0	8.5	5600		A352_8.5 P132 BXN132M4 339
175	384	1.4	8.3	7590		A412_8.3 P132 BXN132M4 343
188	356	2.7	7.7	10800		A502_7.7 P132 BXN132M4 347
204	328	1.7	7.1	7370		A412_7.1 P132 BXN132M4 343
207	323	1.1	7.0	5490		A352_7.0 P132 BXN132M4 339
227	295	1.2	6.4	5420		A352_6.4 P132 BXN132M4 339
269	249	1.4	5.4	5270		A352_5.4 P132 BXN132M4 339
277	242	2.3	5.2	6920		A412_5.2 P132 BXN132M4 343



9.2 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				IEC		
					IE2	IE3		IE2	IE3	
5.2	15279	0.9	281.4	75000	A904_281.4 S4 ME4LB4		364	A904_281.4 P132 BE132MB4	A904_281.4 P160 BX160MA4	365
6.4	12293	1.1	226.4	75000	A904_226.4 S4 ME4LB4		364	A904_226.4 P132 BE132MB4	A904_226.4 P160 BX160MA4	365
6.9	11347	1.2	209.0	75000	A904_209.0 S4 ME4LB4		364	A904_209.0 P132 BE132MB4	A904_209.0 P160 BX160MA4	365
8.1	9771	1.4	180.0	75000	A904_180.0 S4 ME4LB4		364	A904_180.0 P132 BE132MB4	A904_180.0 P160 BX160MA4	365
8.5	9300	0.9	171.3	65000	A804_171.3 S4 ME4LB4		361	A804_171.3 P132 BE132MB4		362
8.7	9019	1.6	166.1	75000	A904_166.1 S4 ME4LB4		364	A904_166.1 P132 BE132MB4	A904_166.1 P160 BX160MA4	365
9.2	8704	0.9	156.8	65000	A803_156.8 S4 ME4LB4	A803_156.8 S5 MX5SA4	361	A803_156.8 P132 BE132MB4	A803_156.8 P160 BX160MA4	362
9.6	8383	1.6	151.0	75000	A903_151.0 S4 ME4LB4	A903_151.0 S5 MX5SA4	364	A903_151.0 P132 BE132MB4	A903_151.0 P160 BX160MA4	365
10.0	8034	1.0	144.7	65000	A803_144.7 S4 ME4LB4	A803_144.7 S5 MX5SA4	361	A803_144.7 P132 BE132MB4	A803_144.7 P160 BX160MA4	362
10.4	7738	1.6	139.4	75000	A903_139.4 S4 ME4LB4	A903_139.4 S5 MX5SA4	364	A903_139.4 P132 BE132MB4	A903_139.4 P160 BX160MA4	365
11.4	7030	1.9	126.6	75000	A903_126.6 S4 ME4LB4	A903_126.6 S5 MX5SA4	364	A903_126.6 P132 BE132MB4	A903_126.6 P160 BX160MA4	365
11.5	6973	1.1	125.6	65000	A803_125.6 S4 ME4LB4	A803_125.6 S5 MX5SA4	361	A803_125.6 P132 BE132MB4	A803_125.6 P160 BX160MA4	362
12.4	6489	2.2	116.9	75000	A903_116.9 S4 ME4LB4	A903_116.9 S5 MX5SA4	364	A903_116.9 P132 BE132MB4	A903_116.9 P160 BX160MA4	365
12.5	6437	1.2	116.0	65000	A803_116.0 S4 ME4LB4	A803_116.0 S5 MX5SA4	361	A803_116.0 P132 BE132MB4	A803_116.0 P160 BX160MA4	362
13.6	5930	2.4	106.8	75000	A903_106.8 S4 ME4LB4	A903_106.8 S5 MX5SA4	364	A903_106.8 P132 BE132MB4	A903_106.8 P160 BX160MA4	365
13.9	5775	1.4	104.0	65000	A803_104.0 S4 ME4LB4	A803_104.0 S5 MX5SA4	361	A803_104.0 P132 BE132MB4	A803_104.0 P160 BX160MA4	362
14.7	5473	2.6	98.6	75000	A903_98.6 S4 ME4LB4	A903_98.6 S5 MX5SA4	364	A903_98.6 P132 BE132MB4	A903_98.6 P160 BX160MA4	365
15.1	5341	0.9	96.2	50000	A703_96.2 S4 ME4LB4	A703_96.2 S5 MX5SA4	358	A703_96.2 P132 BE132MB4	A703_96.2 P160 BX160MA4	359
15.1	5331	1.5	96.0	65000	A803_96.0 S4 ME4LB4	A803_96.0 S5 MX5SA4	361	A803_96.0 P132 BE132MB4	A803_96.0 P160 BX160MA4	362
16.3	4950	1.6	89.2	65000	A803_89.2 S4 ME4LB4	A803_89.2 S5 MX5SA4	361	A803_89.2 P132 BE132MB4	A803_89.2 P160 BX160MA4	362
16.7	4833	2.9	87.1	75000	A903_87.1 S4 ME4LB4	A903_87.1 S5 MX5SA4	364	A903_87.1 P132 BE132MB4	A903_87.1 P160 BX160MA4	365
16.9	4770	1.0	85.9	50000	A703_85.9 S4 ME4LB4	A703_85.9 S5 MX5SA4	358	A703_85.9 P132 BE132MB4	A703_85.9 P160 BX160MA4	359
17.6	4570	1.8	82.3	65000	A803_82.3 S4 ME4LB4	A803_82.3 S5 MX5SA4	361	A803_82.3 P132 BE132MB4	A803_82.3 P160 BX160MA4	362
18.0	4461	3.1	80.4	75000	A903_80.4 S4 ME4LB4	A903_80.4 S5 MX5SA4	364	A903_80.4 P132 BE132MB4	A903_80.4 P160 BX160MA4	365
18.3	4403	1.1	79.3	50000	A703_79.3 S4 ME4LB4	A703_79.3 S5 MX5SA4	358	A703_79.3 P132 BE132MB4	A703_79.3 P160 BX160MA4	359
19.5	4134	3.4	74.5	75000	A903_74.5 S4 ME4LB4	A903_74.5 S5 MX5SA4	364	A903_74.5 P132 BE132MB4	A903_74.5 P160 BX160MA4	365
20.0	4026	1.2	72.5	50000	A703_72.5 S4 ME4LB4	A703_72.5 S5 MX5SA4	358	A703_72.5 P132 BE132MB4	A703_72.5 P160 BX160MA4	359
20.0	4017	2.0	72.4	65000	A803_72.4 S4 ME4LB4	A803_72.4 S5 MX5SA4	361	A803_72.4 P132 BE132MB4	A803_72.4 P160 BX160MA4	362
21.7	3716	1.3	66.9	50000	A703_66.9 S4 ME4LB4	A703_66.9 S5 MX5SA4	358	A703_66.9 P132 BE132MB4	A703_66.9 P160 BX160MA4	359
21.7	3708	2.2	66.8	63800	A803_66.8 S4 ME4LB4	A803_66.8 S5 MX5SA4	361	A803_66.8 P132 BE132MB4	A803_66.8 P160 BX160MA4	362
24.3	3318	2.4	59.8	62400	A803_59.8 S4 ME4LB4	A803_59.8 S5 MX5SA4	361	A803_59.8 P132 BE132MB4	A803_59.8 P160 BX160MA4	362
25.1	3201	1.6	57.7	50000	A703_57.7 S4 ME4LB4	A703_57.7 S5 MX5SA4	358	A703_57.7 P132 BE132MB4	A703_57.7 P160 BX160MA4	359
26.1	3087	0.9	55.6	30000	A603_55.6 S4 ME4LB4	A603_55.6 S5 MX5SA4	354	A603_55.6 P132 BE132MB4	A603_55.6 P160 BX160MA4	355
26.3	3063	2.6	55.2	61300	A803_55.2 S4 ME4LB4	A803_55.2 S5 MX5SA4	361	A803_55.2 P132 BE132MB4	A803_55.2 P160 BX160MA4	362
27.2	2955	1.7	53.2	50000	A703_53.2 S4 ME4LB4	A703_53.2 S5 MX5SA4	358	A703_53.2 P132 BE132MB4	A703_53.2 P160 BX160MA4	359
28.3	2849	1.0	51.3	30000	A603_51.3 S4 ME4LB4	A603_51.3 S5 MX5SA4	354	A603_51.3 P132 BE132MB4	A603_51.3 P160 BX160MA4	355
29.6	2720	1.8	49.0	50000	A703_49.0 S4 ME4LB4	A703_49.0 S5 MX5SA4	358	A703_49.0 P132 BE132MB4	A703_49.0 P160 BX160MA4	359
30	2675	3.0	48.2	59500	A803_48.2 S4 ME4LB4	A803_48.2 S5 MX5SA4	361	A803_48.2 P132 BE132MB4	A803_48.2 P160 BX160MA4	362
32	2511	1.9	45.2	50000	A703_45.2 S4 ME4LB4	A703_45.2 S5 MX5SA4	358	A703_45.2 P132 BE132MB4	A703_45.2 P160 BX160MA4	359
32	2508	1.1	45.2	30000	A603_45.2 S4 ME4LB4	A603_45.2 S5 MX5SA4	354	A603_45.2 P132 BE132MB4	A603_45.2 P160 BX160MA4	355
33	2469	3.0	44.5	58400	A803_44.5 S4 ME4LB4	A803_44.5 S5 MX5SA4	361	A803_44.5 P132 BE132MB4	A803_44.5 P160 BX160MA4	362
35	2315	1.2	41.7	30000	A603_41.7 S4 ME4LB4	A603_41.7 S5 MX5SA4	354	A603_41.7 P132 BE132MB4	A603_41.7 P160 BX160MA4	355
38	2131	2.3	38.4	50000	A703_38.4 S4 ME4LB4	A703_38.4 S5 MX5SA4	358	A703_38.4 P132 BE132MB4	A703_38.4 P160 BX160MA4	359
41	1967	2.3	35.4	50000	A703_35.4 S4 ME4LB4	A703_35.4 S5 MX5SA4	358	A703_35.4 P132 BE132MB4	A703_35.4 P160 BX160MA4	359
42	1904	1.5	34.3	30000	A603_34.3 S4 ME4LB4	A603_34.3 S5 MX5SA4	354	A603_34.3 P132 BE132MB4	A603_34.3 P160 BX160MA4	355
46	1758	1.6	31.7	30000	A603_31.7 S4 ME4LB4	A603_31.7 S5 MX5SA4	354	A603_31.7 P132 BE132MB4	A603_31.7 P160 BX160MA4	355
48	1661	1.2	29.9	29100	A553_29.9 S4 ME4LB4	A553_29.9 S5 MX5SA4	350	A553_29.9 P132 BE132MB4	A553_29.9 P160 BX160MA4	351
52	1546	1.8	27.9	30000	A603_27.9 S4 ME4LB4	A603_27.9 S5 MX5SA4	354	A603_27.9 P132 BE132MB4	A603_27.9 P160 BX160MA4	355
55	1468	1.0	26.4	9130	A503_26.4 S4 ME4LB4	A503_26.4 S5 MX5SA4	346	A503_26.4 P132 BE132MB4	A503_26.4 P160 BX160MA4	347
56	1427	2.0	25.7	30000	A603_25.7 S4 ME4LB4	A603_25.7 S5 MX5SA4	354	A603_25.7 P132 BE132MB4	A603_25.7 P160 BX160MA4	355
60	1335	1.1	24.0	9370	A503_24.0 S4 ME4LB4	A503_24.0 S5 MX5SA4	346	A503_24.0 P132 BE132MB4	A503_24.0 P160 BX160MA4	347
61	1321	1.5	23.8	27900	A553_23.8 S4 ME4LB4	A553_23.8 S5 MX5SA4	350	A553_23.8 P132 BE132MB4	A553_23.8 P160 BX160MA4	351
68	1183	3.4	21.3	46000	A703_21.3 S4 ME4LB4	A703_21.3 S5 MX5SA4	358	A703_21.3 P132 BE132MB4	A703_21.3 P160 BX160MA4	359

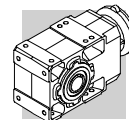


9.2 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IEC		IEC	
					IE2	IE3	IE2	IE3
69	1199	1.0	20.9	13000	A502_20.9 S4 ME4LB4	A502_20.9 S5 MX5SA4	A502_20.9 P132 BE132MB4	A502_20.9 P160 BX160MA4
70	1181	1.7	20.6	30000	A602_20.6 S4 ME4LB4	A602_20.6 S5 MX5SA4	A602_20.6 P132 BE132MB4	A602_20.6 P160 BX160MA4
74	1092	3.4	19.7	45100	A703_19.7 S4 ME4LB4	A703_19.7 S5 MX5SA4	A703_19.7 P132 BE132MB4	A703_19.7 P160 BX160MA4
75	1103	1.6	19.2	28400	A552_19.2 S4 ME4LB4	A552_19.2 S5 MX5SA4	A552_19.2 P132 BE132MB4	A552_19.2 P160 BX160MA4
87	960	2.1	16.7	30000	A602_16.7 S4 ME4LB4	A602_16.7 S5 MX5SA4	A602_16.7 P132 BE132MB4	A602_16.7 P160 BX160MA4
88	950	1.3	16.6	12500	A502_16.6 S4 ME4LB4	A502_16.6 S5 MX5SA4	A502_16.6 P132 BE132MB4	A502_16.6 P160 BX160MA4
92	899	2.0	15.7	27000	A552_15.7 S4 ME4LB4	A552_15.7 S5 MX5SA4	A552_15.7 P132 BE132MB4	A552_15.7 P160 BX160MA4
111	752	1.5	13.1	11900	A502_13.1 S4 ME4LB4	A502_13.1 S5 MX5SA4	A502_13.1 P132 BE132MB4	A502_13.1 P160 BX160MA4
111	750	2.4	13.1	25800	A552_13.1 S4 ME4LB4	A552_13.1 S5 MX5SA4	A552_13.1 P132 BE132MB4	A552_13.1 P160 BX160MA4
114	728	2.7	12.7	30000	A602_12.7 S4 ME4LB4	A602_12.7 S5 MX5SA4	A602_12.7 P132 BE132MB4	A602_12.7 P160 BX160MA4
123	651	2.5	23.8	24100	A553_23.8 S4 ME4LB2	A553_23.8 S5 ME4LB2	A553_23.8 P132 BE132MB2	A553_23.8 P160 BE132MB2
140	594	3.0	10.4	24200	A552_10.4 S4 ME4LB4	A552_10.4 S5 MX5SA4	A552_10.4 P132 BE132MB4	A552_10.4 P160 BX160MA4
141	592	3.4	10.3	30000	A602_10.3 S4 ME4LB4	A602_10.3 S5 MX5SA4	A602_10.3 P132 BE132MB4	A602_10.3 P160 BX160MA4
143	581	0.9	10.1	7340	A412_10.1 S4 ME4LB4	A502_9.7 S5 MX5SA4	A412_10.1 P132 BE132MB4	A502_9.7 P160 BX160MA4
149	558	1.8	9.7	11200	A502_9.7 S4 ME4LB4		A502_9.7 P132 BE132MB4	
158	527	1.0	9.2	7250	A412_9.2 S4 ME4LB4		A412_9.2 P132 BE132MB4	
174	478	1.2	8.3	7170	A412_8.3 S4 ME4LB4		A412_8.3 P132 BE132MB4	
187	444	2.1	7.7	10600	A502_7.7 S4 ME4LB4	A502_7.7 S5 MX5SA4	A502_7.7 P132 BE132MB4	A502_7.7 P160 BX160MA4
204	408	1.3	7.1	7020	A412_7.1 S4 ME4LB4		A412_7.1 P132 BE132MB4	
206	403	0.9	7.0	5110	A352_7.0 S4 ME4LB4		A352_7.0 P132 BE132MB4	
226	368	1.0	6.4	5070	A352_6.4 S4 ME4LB4		A352_6.4 P132 BE132MB4	
268	310	1.1	5.4	4980	A352_5.4 S4 ME4LB4		A352_5.4 P132 BE132MB4	
276	301	1.8	5.2	6660	A412_5.2 S4 ME4LB4		A412_5.2 P132 BE132MB4	
317	260	2.0	9.2	6480	A412_9.2 S4 ME4LB2		A412_9.2 P132 BE132MB2	
377	219	3.4	7.7	8780	A502_7.7 S4 ME4LB2		A502_7.7 P132 BE132MB2	
539	153	2.2	5.4	4410	A352_5.4 S4 ME4LB2		A352_5.4 P132 BE132MB2	
557	148	3.0	5.2	5690	A412_5.2 S4 ME4LB2		A412_5.2 P132 BE132MB2	

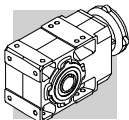
11 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IEC		IEC	
					IE2	IE3	IE2	IE3
6.5	14510	1.0	226.4	75000	A904_226.4 S5 ME5SA4	A904_226.4 S5 MX5SB4	A904_226.4 P160 BE160M4	A904_226.4 P160 BX160MB4
7.0	13393	1.0	209.0	75000	A904_209.0 S5 ME5SA4	A904_209.0 S5 MX5SB4	A904_209.0 P160 BE160M4	A904_209.0 P160 BX160MB4
8.2	11533	1.2	180.0	75000	A904_180.0 S5 ME5SA4	A904_180.0 S5 MX5SB4	A904_180.0 P160 BE160M4	A904_180.0 P160 BX160MB4
8.8	10645	1.3	166.1	75000	A904_166.1 S5 ME5SA4	A904_166.1 S5 MX5SB4	A904_166.1 P160 BE160M4	A904_166.1 P160 BX160MB4
9.7	9894	1.4	151.0	75000	A903_151.0 S5 ME5SA4	A903_151.0 S5 MX5SB4	A903_151.0 P160 BE160M4	A903_151.0 P160 BX160MB4
10.5	9133	1.4	139.4	75000	A903_139.4 S5 ME5SA4	A903_139.4 S5 MX5SB4	A903_139.4 P160 BE160M4	A903_139.4 P160 BX160MB4
11.6	8298	1.6	126.6	75000	A903_126.6 S5 ME5SA4	A903_126.6 S5 MX5SB4	A903_126.6 P160 BE160M4	A903_126.6 P160 BX160MB4
11.7	8231	1.0	125.6	65000	A803_125.6 S5 ME5SA4	A803_125.6 S5 MX5SB4	A803_125.6 P160 BE160M4	A803_125.6 P160 BX160MB4
12.6	7660	1.8	116.9	75000	A903_116.9 S5 ME5SA4	A903_116.9 S5 MX5SB4	A903_116.9 P160 BE160M4	A903_116.9 P160 BX160MB4
12.7	7597	1.1	116.0	65000	A803_116.0 S5 ME5SA4	A803_116.0 S5 MX5SB4	A803_116.0 P160 BE160M4	A803_116.0 P160 BX160MB4
13.8	6999	2.0	106.8	75000	A903_106.8 S5 ME5SA4	A903_106.8 S5 MX5SB4	A903_106.8 P160 BE160M4	A903_106.8 P160 BX160MB4
14.1	6816	1.2	104.0	65000	A803_104.0 S5 ME5SA4	A803_104.0 S5 MX5SB4	A803_104.0 P160 BE160M4	A803_104.0 P160 BX160MB4
14.9	6460	2.2	98.6	75000	A903_98.6 S5 ME5SA4	A903_98.6 S5 MX5SB4	A903_98.6 P160 BE160M4	A903_98.6 P160 BX160MB4
15.3	6292	1.3	96.0	65000	A803_96.0 S5 ME5SA4	A803_96.0 S5 MX5SB4	A803_96.0 P160 BE160M4	A803_96.0 P160 BX160MB4



11 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC	IE2	IE3
16.5	5843	1.4	89.2	65000	A803_89.2 S5 ME5SA4	A803_89.2 S5 MX5SB4	361	A803_89.2 P160 BE160M4	A803_89.2 P160 BX160MB4
16.9	5705	2.5	87.1	75000	A903_87.1 S5 ME5SA4	A903_87.1 S5 MX5SB4	364	A903_87.1 P160 BE160M4	A903_87.1 P160 BX160MB4
17.9	5394	1.5	82.3	64500	A803_82.3 S5 ME5SA4	A803_82.3 S5 MX5SB4	361	A803_82.3 P160 BE160M4	A803_82.3 P160 BX160MB4
18.3	5266	2.7	80.4	75000	A903_80.4 S5 ME5SA4	A903_80.4 S5 MX5SB4	364	A903_80.4 P160 BE160M4	A903_80.4 P160 BX160MB4
18.5	5198	1.0	79.3	50000	A703_79.3 S5 ME5SA4	A703_79.3 S5 MX5SB4	358	A703_79.3 P160 BE160M4	A703_79.3 P160 BX160MB4
19.7	4880	2.9	74.5	75000	A903_74.5 S5 ME5SA4	A903_74.5 S5 MX5SB4	364	A903_74.5 P160 BE160M4	A903_74.5 P160 BX160MB4
20.3	4752	1.1	72.5	50000	A703_72.5 S5 ME5SA4	A703_72.5 S5 MX5SB4	358	A703_72.5 P160 BE160M4	A703_72.5 P160 BX160MB4
20.3	4742	1.7	72.4	63200	A803_72.4 S5 ME5SA4	A803_72.4 S5 MX5SB4	361	A803_72.4 P160 BE160M4	A803_72.4 P160 BX160MB4
21.4	4505	3.1	68.8	75000	A903_68.8 S5 ME5SA4	A903_68.8 S5 MX5SB4	364	A903_68.8 P160 BE160M4	A903_68.8 P160 BX160MB4
22.0	4386	1.1	66.9	50000	A703_66.9 S5 ME5SA4	A703_66.9 S5 MX5SB4	358	A703_66.9 P160 BE160M4	A703_66.9 P160 BX160MB4
22.0	4377	1.8	66.8	62200	A803_66.8 S5 ME5SA4	A803_66.8 S5 MX5SB4	361	A803_66.8 P160 BE160M4	A803_66.8 P160 BX160MB4
24.6	3917	2.0	59.8	60900	A803_59.8 S5 ME5SA4	A803_59.8 S5 MX5SB4	361	A803_59.8 P160 BE160M4	A803_59.8 P160 BX160MB4
24.7	3906	3.6	59.6	75000	A903_59.6 S5 ME5SA4	A903_59.6 S5 MX5SB4	364	A903_59.6 P160 BE160M4	A903_59.6 P160 BX160MB4
25.5	3778	1.3	57.7	50000	A703_57.7 S5 ME5SA4	A703_57.7 S5 MX5SB4	358	A703_57.7 P160 BE160M4	A703_57.7 P160 BX160MB4
26.6	3615	2.2	55.2	59900	A803_55.2 S5 ME5SA4	A803_55.2 S5 MX5SB4	361	A803_55.2 P160 BE160M4	A803_55.2 P160 BX160MB4
27.6	3488	1.4	53.2	50000	A703_53.2 S5 ME5SA4	A703_53.2 S5 MX5SB4	358	A703_53.2 P160 BE160M4	A703_53.2 P160 BX160MB4
30	3210	1.6	49.0	50000	A703_49.0 S5 ME5SA4	A703_49.0 S5 MX5SB4	358	A703_49.0 P160 BE160M4	A703_49.0 P160 BX160MB4
31	3157	2.5	48.2	58300	A803_48.2 S5 ME5SA4	A803_48.2 S5 MX5SB4	361	A803_48.2 P160 BE160M4	A803_48.2 P160 BX160MB4
33	2964	1.6	45.2	50000	A703_45.2 S5 ME5SA4	A703_45.2 S5 MX5SB4	358	A703_45.2 P160 BE160M4	A703_45.2 P160 BX160MB4
33	2961	0.9	45.2	30000	A603_45.2 S5 ME5SA4	A603_45.2 S5 MX5SB4	354	A603_45.2 P160 BE160M4	A603_45.2 P160 BX160MB4
33	2914	2.6	44.5	57300	A803_44.5 S5 ME5SA4	A803_44.5 S5 MX5SB4	361	A803_44.5 P160 BE160M4	A803_44.5 P160 BX160MB4
35	2733	1.0	41.7	30000	A603_41.7 S5 ME5SA4	A603_41.7 S5 MX5SB4	354	A603_41.7 P160 BE160M4	A603_41.7 P160 BX160MB4
38	2523	3.0	38.5	55500				A803_38.5 P160 BE160M4	A803_38.5 P160 BX160MB4
38	2515	1.9	38.4	50000	A703_38.4 S5 ME5SA4	A703_38.4 S5 MX5SB4	358	A703_38.4 P160 BE160M4	A703_38.4 P160 BX160MB4
41	2328	3.0	35.5	54500				A803_35.5 P160 BE160M4	A803_35.5 P160 BX160MB4
41	2321	1.9	35.4	50000	A703_35.4 S5 ME5SA4	A703_35.4 S5 MX5SB4	358	A703_35.4 P160 BE160M4	A703_35.4 P160 BX160MB4
43	2247	1.2	34.3	30000	A603_34.3 S5 ME5SA4	A603_34.3 S5 MX5SB4	354	A603_34.3 P160 BE160M4	A603_34.3 P160 BX160MB4
46	2074	1.3	31.7	30000	A603_31.7 S5 ME5SA4	A603_31.7 S5 MX5SB4	354	A603_31.7 P160 BE160M4	A603_31.7 P160 BX160MB4
48	2003	3.2	30.6	52600				A803_30.6 P160 BE160M4	A803_30.6 P160 BX160MB4
49	1972	2.3	30.1	49400				A703_30.1 P160 BE160M4	A703_30.1 P160 BX160MB4
49	1961	1.0	29.9	28200	A553_29.9 S5 ME5SA4	A553_29.9 S5 MX5SB4	350	A553_29.9 P160 BE160M4	A553_29.9 P160 BX160MB4
52	1849	3.6	28.2	51600				A803_28.2 P160 BE160M4	A803_28.2 P160 BX160MB4
53	1825	1.5	27.9	30000	A603_27.9 S5 ME5SA4	A603_27.9 S5 MX5SB4	354	A603_27.9 P160 BE160M4	A603_27.9 P160 BX160MB4
53	1820	2.3	27.8	48500				A703_27.8 P160 BE160M4	A703_27.8 P160 BX160MB4
57	1685	1.7	25.7	30000	A603_25.7 S5 ME5SA4	A603_25.7 S5 MX5SB4	354	A603_25.7 P160 BE160M4	A603_25.7 P160 BX160MB4
61	1576	1.0	24.0	7800	A503_24.0 S5 ME5SA4	A503_24.0 S5 MX5SB4	346	A503_24.0 P160 BE160M4	A503_24.0 P160 BX160MB4
62	1559	1.3	23.8	26000	A553_23.8 S5 ME5SA4	A553_23.8 S5 MX5SB4	350	A553_23.8 P160 BE160M4	A553_23.8 P160 BX160MB4
63	1541	2.8	23.5	46600				A703_23.5 P160 BE160M4	A703_23.5 P160 BX160MB4
69	1396	2.9	21.3	45500	A703_21.3 S5 ME5SA4	A703_21.3 S5 MX5SB4	358	A703_21.3 P160 BE160M4	A703_21.3 P160 BX160MB4
70	1416	0.8	20.9		A502_20.9 S5 ME5SA4	A502_20.9 S5 MX5SB4	346	A502_20.9 P160 BE160M4	A502_20.9 P160 BX160MB4
71	1394	1.4	20.6	30000	A602_20.6 S5 ME5SA4	A602_20.6 S5 MX5SB4	354	A602_20.6 P160 BE160M4	A602_20.6 P160 BX160MB4
75	1288	2.9	19.7	44500	A703_19.7 S5 ME5SA4	A703_19.7 S5 MX5SB4	358	A703_19.7 P160 BE160M4	A703_19.7 P160 BX160MB4
76	1302	1.4	19.2	27900	A552_19.2 S5 ME5SA4	A552_19.2 S5 MX5SB4	350	A552_19.2 P160 BE160M4	A552_19.2 P160 BX160MB4
88	1133	1.8	16.7	30000	A602_16.7 S5 ME5SA4	A602_16.7 S5 MX5SB4	354	A602_16.7 P160 BE160M4	A602_16.7 P160 BX160MB4
89	1121	1.1	16.6	12000	A502_16.6 S5 ME5SA4	A502_16.6 S5 MX5SB4	346	A502_16.6 P160 BE160M4	A502_16.6 P160 BX160MB4
94	1061	1.7	15.7	26600	A552_15.7 S5 ME5SA4	A552_15.7 S5 MX5SB4	350	A552_15.7 P160 BE160M4	A552_15.7 P160 BX160MB4
112	887	1.2	13.1	11500	A502_13.1 S5 ME5SA4	A502_13.1 S5 MX5SB4	346	A502_13.1 P160 BE160M4	A502_13.1 P160 BX160MB4
112	885	2.0	13.1	25400	A552_13.1 S5 ME5SA4	A552_13.1 S5 MX5SB4	350	A552_13.1 P160 BE160M4	A552_13.1 P160 BX160MB4
116	860	2.3	12.7	30000	A602_12.7 S5 ME5SA4	A602_12.7 S5 MX5SB4	354	A602_12.7 P160 BE160M4	A602_12.7 P160 BX160MB4
124	773	2.1	23.8	23600	A553_23.8 S5 ME5SA2		350	A553_23.8 P160 BE160MA2	
142	701	2.6	10.4	24000	A552_10.4 S5 ME5SA4	A552_10.4 S5 MX5SB4	350	A552_10.4 P160 BE160M4	A552_10.4 P160 BX160MB4
143	698	2.9	10.3	30000	A602_10.3 S5 ME5SA4	A602_10.3 S5 MX5SB4	354	A602_10.3 P160 BE160M4	A602_10.3 P160 BX160MB4
151	659	1.5	9.7	10800	A502_9.7 S5 ME5SA4	A502_9.7 S5 MX5SB4	346	A502_9.7 P160 BE160M4	A502_9.7 P160 BX160MB4
174	573	3.1	8.5	22800	A552_8.5 S5 ME5SA4	A552_8.5 S5 MX5SB4	350	A552_8.5 P160 BE160M4	A552_8.5 P160 BX160MB4

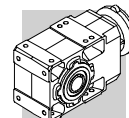


11 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC	IE2	IE3
190	524	1.8	7.7	10300	A502_7.7 S5 ME5SA4	A502_7.7 S5 MX5SB4,	346	A502_7.7 P160 BE160M4	A502_7.7 P160 BX160MB4
224	440	2.0	13.1	9920	A502_13.1 S5 ME5SA2		346	A502_13.1 P160 BE160MA2	
380	260	2.8	7.7	8650	A502_7.7 S5 ME5SA2		346	A502_7.7 P160 BE160MA2	

15 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC	IE2	IE3
8.2	15697	0.9	180.0	75000	A904_180.0 S5 ME5LA4	A904_180.0 S5 MX5LA4	364	A904_180.0 P160 BE160L4	A904_180.0 P160 BX160L4
8.8	14490	1.0	166.1	75000	A904_166.1 S5 ME5LA4	A904_166.1 S5 MX5LA4	364	A904_166.1 P160 BE160L4	A904_166.1 P160 BX160L4
9.7	13467	1.0	151.0	75000	A903_151.0 S5 ME5LA4	A903_151.0 S5 MX5LA4	364	A903_151.0 P160 BE160L4	A903_151.0 P160 BX160L4
10.5	12431	1.0	139.4	75000	A903_139.4 S5 ME5LA4	A903_139.4 S5 MX5LA4	364	A903_139.4 P160 BE160L4	A903_139.4 P160 BX160L4
11.6	11294	1.2	126.6	75000	A903_126.6 S5 ME5LA4	A903_126.6 S5 MX5LA4	364	A903_126.6 P160 BE160L4	A903_126.6 P160 BX160L4
12.6	10426	1.3	116.9	75000	A903_116.9 S5 ME5LA4	A903_116.9 S5 MX5LA4	364	A903_116.9 P160 BE160L4	A903_116.9 P160 BX160L4
13.8	9526	1.5	106.8	75000	A903_106.8 S5 ME5LA4	A903_106.8 S5 MX5LA4	364	A903_106.8 P160 BE160L4	A903_106.8 P160 BX160L4
14.9	8793	1.6	98.6	75000	A903_98.6 S5 ME5LA4	A903_98.6 S5 MX5LA4	364	A903_98.6 P160 BE160L4	A903_98.6 P160 BX160L4
15.3	8564	0.9	96.0	60600	A803_96.0 S5 ME5LA4	A803_96.0 S5 MX5LA4	361	A803_96.0 P160 BE160L4	A803_96.0 P160 BX160L4
16.5	7953	1.0	89.2	60400	A803_89.2 S5 ME5LA4	A803_89.2 S5 MX5LA4	361	A803_89.2 P160 BE160L4	A803_89.2 P160 BX160L4
16.9	7765	1.8	87.1	75000	A903_87.1 S5 ME5LA4	A903_87.1 S5 MX5LA4	364	A903_87.1 P160 BE160L4	A903_87.1 P160 BX160L4
17.9	7341	1.1	82.3	59800	A803_82.3 S5 ME5LA4	A803_82.3 S5 MX5LA4	361	A803_82.3 P160 BE160L4	A803_82.3 P160 BX160L4
18.3	7168	2.0	80.4	75000	A903_80.4 S5 ME5LA4	A903_80.4 S5 MX5LA4	364	A903_80.4 P160 BE160L4	A903_80.4 P160 BX160L4
19.7	6642	2.1	74.5	75000	A903_74.5 S5 ME5LA4	A903_74.5 S5 MX5LA4	364	A903_74.5 P160 BE160L4	A903_74.5 P160 BX160L4
20.3	6454	1.2	72.4	59100	A803_72.4 S5 ME5LA4	A803_72.4 S5 MX5LA4	361	A803_72.4 P160 BE160L4	A803_72.4 P160 BX160L4
21.4	6131	2.3	68.8	75000	A903_68.8 S5 ME5LA4	A903_68.8 S5 MX5LA4	364	A903_68.8 P160 BE160L4	A903_68.8 P160 BX160L4
22.0	5957	1.3	66.8	58300	A803_66.8 S5 ME5LA4	A803_66.8 S5 MX5LA4	361	A803_66.8 P160 BE160L4	A803_66.8 P160 BX160L4
24.6	5331	1.5	59.8	57500	A803_59.8 S5 ME5LA4	A803_59.8 S5 MX5LA4	361	A803_59.8 P160 BE160L4	A803_59.8 P160 BX160L4
24.7	5317	2.6	59.6	75000	A903_59.6 S5 ME5LA4	A903_59.6 S5 MX5LA4	364	A903_59.6 P160 BE160L4	A903_59.6 P160 BX160L4
25.5	5143	1.0	57.7	50000	A703_57.7 S5 ME5LA4	A703_57.7 S5 MX5LA4	358	A703_57.7 P160 BE160L4	A703_57.7 P160 BX160L4
26.6	4921	1.6	55.2	56700	A803_55.2 S5 ME5LA4	A803_55.2 S5 MX5LA4	361	A803_55.2 P160 BE160L4	A803_55.2 P160 BX160L4
26.7	4908	2.9	55.0	75000	A903_55.0 S5 ME5LA4	A903_55.0 S5 MX5LA4	364	A903_55.0 P160 BE160L4	A903_55.0 P160 BX160L4
27.6	4747	1.1	53.2	50000	A703_53.2 S5 ME5LA4	A703_53.2 S5 MX5LA4	358	A703_53.2 P160 BE160L4	A703_53.2 P160 BX160L4
30	4370	1.1	49.0	50000	A703_49.0 S5 ME5LA4	A703_49.0 S5 MX5LA4	358	A703_49.0 P160 BE160L4	A703_49.0 P160 BX160L4
30	4307	3.3	48.3	74900				A903_48.3 P160 BE160L4	A903_48.3 P160 BX160L4
31	4297	1.9	48.2	55500	A803_48.2 S5 ME5LA4	A803_48.2 S5 MX5LA4	361	A803_48.2 P160 BE160L4	A803_48.2 P160 BX160L4
33	4034	1.2	45.2	50000	A703_45.2 S5 ME5LA4	A703_45.2 S5 MX5LA4	358	A703_45.2 P160 BE160L4	A703_45.2 P160 BX160L4
33	3976	3.5	44.6	73500				A903_44.6 P160 BE160L4	A903_44.6 P160 BX160L4
33	3966	1.9	44.5	54700	A803_44.5 S5 ME5LA4	A803_44.5 S5 MX5LA4	361	A803_44.5 P160 BE160L4	A803_44.5 P160 BX160L4
38	3433	2.2	38.5	53200				A803_38.5 P160 BE160L4	A803_38.5 P160 BX160L4
38	3423	1.4	38.4	49900	A703_38.4 S5 ME5LA4	A703_38.4 S5 MX5LA4	358	A703_38.4 P160 BE160L4	A703_38.4 P160 BX160L4
41	3169	2.2	35.5	52300				A803_35.5 P160 BE160L4	A803_35.5 P160 BX160L4
41	3160	1.4	35.4	49100	A703_35.4 S5 ME5LA4	A703_35.4 S5 MX5LA4	358	A703_35.4 P160 BE160L4	A703_35.4 P160 BX160L4
43	3059	0.9	34.3	30000	A603_34.3 S5 ME5LA4	A603_34.3 S5 MX5LA4	354	A603_34.3 P160 BE160L4	A603_34.3 P160 BX160L4
46	2824	1.0	31.7	30000	A603_31.7 S5 ME5LA4	A603_31.7 S5 MX5LA4	354	A603_31.7 P160 BE160L4	A603_31.7 P160 BX160L4
48	2727	2.4	30.6	50800				A803_30.6 P160 BE160L4	A803_30.6 P160 BX160L4
49	2684	1.7	30.1	47600				A703_30.1 P160 BE160L4	A703_30.1 P160 BX160L4
52	2517	2.6	28.2	49900				A803_28.2 P160 BE160L4	A803_28.2 P160 BX160L4
53	2484	1.1	27.9	30000	A603_27.9 S5 ME5LA4	A603_27.9 S5 MX5LA4	354	A603_27.9 P160 BE160L4	A603_27.9 P160 BX160L4
53	2478	1.7	27.8	46700				A703_27.8 P160 BE160L4	A703_27.8 P160 BX160L4
57	2293	1.2	25.7	30000	A603_25.7 S5 ME5LA4	A603_25.7 S5 MX5LA4	354	A603_25.7 P160 BE160L4	A603_25.7 P160 BX160L4
62	2122	0.9	23.8	22600	A553_23.8 S5 ME5LA4	A553_23.8 S5 MX5LA4	350	A553_23.8 P160 BE160L4	A553_23.8 P160 BX160L4
63	2098	2.1	23.5	45100				A703_23.5 P160 BE160L4	A703_23.5 P160 BX160L4
69	1900	2.1	21.3	44100	A703_21.3 S5 ME5LA4	A703_21.3 S5 MX5LA4	358	A703_21.3 P160 BE160L4	A703_21.3 P160 BX160L4
70	1868	3.5	20.9	46600	A803_20.9 S5 ME5LA4	A803_20.9 S5 MX5LA4	361	A803_20.9 P160 BE160L4	A803_20.9 P160 BX160L4
71	1897	1.1	20.6	30000	A602_20.6 S5 ME5LA4	A602_20.6 S5 MX5LA4	354	A602_20.6 P160 BE160L4	A602_20.6 P160 BX160L4
75	1754	2.1	19.7	43300	A703_19.7 S5 ME5LA4	A703_19.7 S5 MX5LA4	358	A703_19.7 P160 BE160L4	A703_19.7 P160 BX160L4
76	1725	3.5	19.3	45700	A803_19.3 S5 ME5LA4	A803_19.3 S5 MX5LA4	361	A803_19.3 P160 BE160L4	A803_19.3 P160 BX160L4
76	1772	1.0	19.2	26800	A552_19.2 S5 ME5LA4	A552_19.2 S5 MX5LA4	350	A552_19.2 P160 BE160L4	A552_19.2 P160 BX160L4
88	1542	1.3	16.7	30000	A602_16.7 S5 ME5LA4	A602_16.7 S5 MX5LA4	354	A602_16.7 P160 BE160L4	A602_16.7 P160 BX160L4
88	1488	2.7	16.7	41600	A703_16.7 S5 ME5LA4	A703_16.7 S5 MX5LA4	358	A703_16.7 P160 BE160L4	A703_16.7 P160 BX160L4

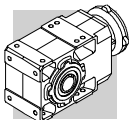


15 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				IEC		
					IE2	IE3		IE2	IE3	
94	1444	1.2	15.7	25700	A552_15.7 S5 ME5LA4	A552_15.7 S5 MX5LA4	350	A552_15.7 P160 BE160L4	A552_15.7 P160 BX160L4	351
95	1374	2.7	15.4	40800	A703_15.4 S5 ME5LA4	A703_15.4 S5 MX5LA4	358	A703_15.4 P160 BE160L4	A703_15.4 P160 BX160L4	359
112	1207	0.9	13.1	10500	A502_13.1 S5 ME5LA4	A502_13.1 S5 MX5LA4	346	A502_13.1 P160 BE160L4	A502_13.1 P160 BX160L4	347
112	1167	3.3	13.1	39200				A703_13.1 P160 BE160L4	A703_13.1 P160 BX160L4	359
112	1205	1.5	13.1	24700	A552_13.1 S5 ME5LA4	A552_13.1 S5 MX5LA4	350	A552_13.1 P160 BE160L4	A552_13.1 P160 BX160L4	351
116	1170	1.7	12.7	30000	A602_12.7 S5 ME5LA4	A602_12.7 S5 MX5LA4	354	A602_12.7 P160 BE160L4	A602_12.7 P160 BX160L4	355
122	1077	3.3	12.1	38400				A703_12.1 P160 BE160L4	A703_12.1 P160 BX160L4	359
142	954	1.9	10.4	23400	A552_10.4 S5 ME5LA4	A552_10.4 S5 MX5LA4	350	A552_10.4 P160 BE160L4	A552_10.4 P160 BX160L4	351
143	950	2.1	10.3	30000	A602_10.3 S5 ME5LA4	A602_10.3 S5 MX5LA4	354	A602_10.3 P160 BE160L4	A602_10.3 P160 BX160L4	355
151	897	1.1	9.7	10100	A502_9.7 S5 ME5LA4	A502_9.7 S5 MX5LA4	346	A502_9.7 P160 BE160L4	A502_9.7 P160 BX160L4	347
174	779	2.3	8.5	22200	A552_8.5 S5 ME5LA4	A552_8.5 S5 MX5LA4	350	A552_8.5 P160 BE160L4	A552_8.5 P160 BX160L4	351
187	724	2.8	7.9	28300	A602_7.9 S5 ME5LA4	A602_7.9 S5 MX5LA4	354	A602_7.9 P160 BE160L4	A602_7.9 P160 BX160L4	355
190	713	1.3	7.7	9750	A502_7.7 S5 ME5LA4	A502_7.7 S5 MX5LA4	346	A502_7.7 P160 BE160L4	A502_7.7 P160 BX160L4	347
229	591	2.9	6.4	20700	A552_6.4 S5 ME5LA4	A552_6.4 S5 MX5LA4	350	A552_6.4 P160 BE160L4	A552_6.4 P160 BX160L4	351
297	456	3.5	4.9	19400	A552_4.9 S5 ME5LA4	A552_4.9 S5 MX5LA4	350	A552_4.9 P160 BE160L4	A552_4.9 P160 BX160L4	351
302	446	1.8	9.7	8830	A502_9.7 S5 ME5SB2		346	A502_9.7 P160 BE160MB2		347
380	354	2.1	7.7	8350	A502_7.7 S5 ME5SB2		346	A502_7.7 P160 BE160MB2		347

18.5 kW

n2	M2	S	i	Rn2			IEC		
min-1	Nm			N	IE2	IE3	IE2	IE3	
11.6	13830	1.0	126.6	75000			A903_126.6 P180 BE180M4	A903_126.6 P180 BX180M4	365
12.6	12766	1.1	116.9	75000			A903_116.9 P180 BE180M4	A903_116.9 P180 BX180M4	365
13.8	11665	1.2	106.8	75000			A903_106.8 P180 BE180M4	A903_106.8 P180 BX180M4	365
14.9	10767	1.3	98.6	75000			A903_98.6 P180 BE180M4	A903_98.6 P180 BX180M4	365
16.9	9508	1.5	87.1	75000			A903_87.1 P180 BE180M4	A903_87.1 P180 BX180M4	365
18.3	8777	1.6	80.4	75000			A903_80.4 P180 BE180M4	A903_80.4 P180 BX180M4	365
19.7	8133	1.7	74.5	75000			A903_74.5 P180 BE180M4	A903_74.5 P180 BX180M4	365
20.3	7903	1.0	72.4	55600			A803_72.4 P180 BE180M4	A803_72.4 P180 BX180M4	362
21.4	7508	1.9	68.8	75000			A903_68.8 P180 BE180M4	A903_68.8 P180 BX180M4	365
22.0	7295	1.1	66.8	55100			A803_66.8 P180 BE180M4	A803_66.8 P180 BX180M4	362
24.6	6528	1.2	59.8	54700			A803_59.8 P180 BE180M4	A803_59.8 P180 BX180M4	362
24.7	6510	2.2	59.6	75000			A903_59.6 P180 BE180M4	A903_59.6 P180 BX180M4	365
26.6	6026	1.3	55.2	54100			A803_55.2 P180 BE180M4	A803_55.2 P180 BX180M4	362
26.7	6009	2.3	55.0	74900			A903_55.0 P180 BE180M4	A903_55.0 P180 BX180M4	365
30	5351	0.9	49.0	49600			A703_49.0 P180 BE180M4	A703_49.0 P180 BX180M4	359
30	5274	2.7	48.3	73100			A903_48.3 P180 BE180M4	A903_48.3 P180 BX180M4	365
31	5262	1.5	48.2	53200			A803_48.2 P180 BE180M4	A803_48.2 P180 BX180M4	362
33	4939	1.0	45.2	49000			A703_45.2 P180 BE180M4	A703_45.2 P180 BX180M4	359
33	4869	2.9	44.6	71800			A903_44.6 P180 BE180M4	A903_44.6 P180 BX180M4	365
33	4857	1.5	44.5	52500			A803_44.5 P180 BE180M4	A803_44.5 P180 BX180M4	362
38	4238	3.3	38.8	69700			A903_38.8 P180 BE180M4	A903_38.8 P180 BX180M4	365
38	4204	1.8	38.5	51400			A803_38.5 P180 BE180M4	A803_38.5 P180 BX180M4	362
38	4191	1.2	38.4	48000			A703_38.4 P180 BE180M4	A703_38.4 P180 BX180M4	359
41	3912	3.5	35.8	68500			A903_35.8 P180 BE180M4	A903_35.8 P180 BX180M4	365
41	3881	1.8	35.5	50600			A803_35.5 P180 BE180M4	A803_35.5 P180 BX180M4	362
41	3869	1.2	35.4	47300			A703_35.4 P180 BE180M4	A703_35.4 P180 BX180M4	359
48	3339	1.9	30.6	49300			A803_30.6 P180 BE180M4	A803_30.6 P180 BX180M4	362
49	3287	1.4	30.1	46100			A703_30.1 P180 BE180M4	A703_30.1 P180 BX180M4	359
52	3082	2.1	28.2	48500			A803_28.2 P180 BE180M4	A803_28.2 P180 BX180M4	362
53	3042	0.9	27.9	30000			A603_27.9 P180 BE180M4	A603_27.9 P180 BX180M4	355
53	3034	1.4	27.8	45300			A703_27.8 P180 BE180M4	A703_27.8 P180 BX180M4	359
57	2808	1.0	25.7	30000			A603_25.7 P180 BE180M4	A603_25.7 P180 BX180M4	355
60	2675	2.5	24.5	47200			A803_24.5 P180 BE180M4	A803_24.5 P180 BX180M4	362
63	2568	1.7	23.5	43900			A703_23.5 P180 BE180M4	A703_23.5 P180 BX180M4	359

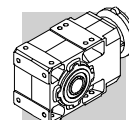


18.5 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N				IEC		
					IE2	IE3		IE2	IE3	
65	2470	2.5	22.6	46300				A803_22.6 P180 BE180M4	A803_22.6 P180 BX180M4	362
69	2326	1.7	21.3	43000				A703_21.3 P180 BE180M4	A703_21.3 P180 BX180M4	359
70	2288	2.9	20.9	45600				A803_20.9 P180 BE180M4	A803_20.9 P180 BX180M4	362
71	2323	0.9	20.6	30000				A602_20.6 P180 BE180M4	A602_20.6 P180 BX180M4	355
75	2147	1.7	19.7	42300				A703_19.7 P180 BE180M4	A703_19.7 P180 BX180M4	359
76	2112	2.9	19.3	44800				A803_19.3 P180 BE180M4	A803_19.3 P180 BX180M4	362
88	1888	1.1	16.7	30000				A602_16.7 P180 BE180M4	A602_16.7 P180 BX180M4	355
88	1822	2.2	16.7	40800				A703_16.7 P180 BE180M4	A703_16.7 P180 BX180M4	359
94	1769	1.0	15.7	25000				A552_15.7 P180 BE180M4	A552_15.7 P180 BX180M4	351
95	1682	2.2	15.4	40100				A703_15.4 P180 BE180M4	A703_15.4 P180 BX180M4	359
112	1429	2.7	13.1	38600				A703_13.1 P180 BE180M4	A703_13.1 P180 BX180M4	359
112	1475	1.2	13.1	24100				A552_13.1 P180 BE180M4	A552_13.1 P180 BX180M4	351
116	1433	1.4	12.7	30000				A602_12.7 P180 BE180M4	A602_12.7 P180 BX180M4	355
122	1319	2.7	12.1	37800				A703_12.1 P180 BE180M4	A703_12.1 P180 BX180M4	359
124	1299	1.2	23.8	21600	A553_23.8 S5 ME5LA2		350	A553_23.8 P160 BE160L2		351
142	1168	1.5	10.4	22900				A552_10.4 P180 BE180M4	A552_10.4 P180 BX180M4	351
143	1164	1.7	10.3	29900				A602_10.3 P180 BE180M4	A602_10.3 P180 BX180M4	355
144	1117	2.9	10.2	36300				A703_10.2 P180 BE180M4	A703_10.2 P180 BX180M4	359
151	1098	0.9	9.7	9530				A502_9.7 P180 BE180M4	A502_9.7 P180 BX180M4	347
156	1031	2.9	9.4	35600				A703_9.4 P180 BE180M4	A703_9.4 P180 BX180M4	359
174	954	1.9	8.5	21900				A552_8.5 P180 BE180M4	A552_8.5 P180 BX180M4	351
187	887	2.3	7.9	27900				A602_7.9 P180 BE180M4	A602_7.9 P180 BX180M4	355
190	873	1.1	7.7	9260				A502_7.7 P180 BE180M4	A502_7.7 P180 BX180M4	347
229	723	2.4	6.4	20400				A552_6.4 P180 BE180M4	A552_6.4 P180 BX180M4	351
297	558	2.9	4.9	19100				A552_4.9 P180 BE180M4	A552_4.9 P180 BX180M4	351
381	436	1.7	7.7	8100	A502_7.7 S5 ME5LA2		346	A502_7.7 P160 BE160L2		347

22 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				IEC		
					IE2	IE3				
					IE2	IE3				
12.6	15213	0.9	116.9	75000				A903_116.9 P180 BE180L4	A903_116.9 P180 BX180L4	365
13.8	13900	1.0	106.8	75000				A903_106.8 P180 BE180L4	A903_106.8 P180 BX180L4	365
14.9	12831	1.1	98.6	75000				A903_98.6 P180 BE180L4	A903_98.6 P180 BX180L4	365
16.9	11330	1.2	87.1	75000				A903_87.1 P180 BE180L4	A903_87.1 P180 BX180L4	365
18.3	10459	1.3	80.4	75000				A903_80.4 P180 BE180L4	A903_80.4 P180 BX180L4	365
19.7	9692	1.4	74.5	75000				A903_74.5 P180 BE180L4	A903_74.5 P180 BX180L4	365
21.4	8947	1.6	68.8	75000				A903_68.8 P180 BE180L4	A903_68.8 P180 BX180L4	365
22.0	8693	0.9	66.8	51900				A803_66.8 P180 BE180L4	A803_66.8 P180 BX180L4	362
24.6	7779	1.0	59.8	51800				A803_59.8 P180 BE180L4	A803_59.8 P180 BX180L4	362
24.7	7758	1.8	59.6	73800				A903_59.6 P180 BE180L4	A903_59.6 P180 BX180L4	365
26.6	7181	1.1	55.2	51400				A803_55.2 P180 BE180L4	A803_55.2 P180 BX180L4	362
26.7	7161	2.0	55.0	72700				A903_55.0 P180 BE180L4	A903_55.0 P180 BX180L4	365
30	6285	2.2	48.3	71100				A903_48.3 P180 BE180L4	A903_48.3 P180 BX180L4	365
31	6270	1.3	48.2	50900				A803_48.2 P180 BE180L4	A803_48.2 P180 BX180L4	362
33	5802	2.4	44.6	70000				A903_44.6 P180 BE180L4	A903_44.6 P180 BX180L4	365
33	5788	1.3	44.5	50300				A803_44.5 P180 BE180L4	A803_44.5 P180 BX180L4	362
38	5050	2.8	38.8	68100				A903_38.8 P180 BE180L4	A903_38.8 P180 BX180L4	365
38	5010	1.5	38.5	49500				A803_38.5 P180 BE180L4	A803_38.5 P180 BX180L4	362
38	4995	1.0	38.4	46000				A703_38.4 P180 BE180L4	A703_38.4 P180 BX180L4	359
41	4662	2.9	35.8	67000				A903_35.8 P180 BE180L4	A903_35.8 P180 BX180L4	365
41	4625	1.5	35.5	48900				A803_35.5 P180 BE180L4	A803_35.5 P180 BX180L4	362
41	4611	1.0	35.4	45500				A703_35.4 P180 BE180L4	A703_35.4 P180 BX180L4	359

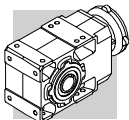


22 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				IEC		
					IE2	IE3		IE2	IE3	
47	4099	3.4	31.5	65200				A903_31.5 P180 BE180L4	A903_31.5 P180 BX180L4	365
48	3979	1.6	30.6	47800				A803_30.6 P180 BE180L4	A803_30.6 P180 BX180L4	362
49	3917	1.2	30.1	44500				A703_30.1 P180 BE180L4	A703_30.1 P180 BX180L4	359
51	3784	3.4	29.1	64000				A903_29.1 P180 BE180L4	A903_29.1 P180 BX180L4	365
52	3673	1.8	28.2	47100				A803_28.2 P180 BE180L4	A803_28.2 P180 BX180L4	362
53	3616	1.2	27.8	43900				A703_27.8 P180 BE180L4	A703_27.8 P180 BX180L4	359
60	3188	2.1	24.5	45900				A803_24.5 P180 BE180L4	A803_24.5 P180 BX180L4	362
63	3061	1.4	23.5	42700				A703_23.5 P180 BE180L4	A703_23.5 P180 BX180L4	359
65	2943	2.1	22.6	45200				A803_22.6 P180 BE180L4	A803_22.6 P180 BX180L4	362
69	2772	1.4	21.3	41900				A703_21.3 P180 BE180L4	A703_21.3 P180 BX180L4	359
70	2726	2.4	20.9	44600				A803_20.9 P180 BE180L4	A803_20.9 P180 BX180L4	362
75	2559	1.4	19.7	41200				A703_19.7 P180 BE180L4	A703_19.7 P180 BX180L4	359
76	2516	2.4	19.3	43800				A803_19.3 P180 BE180L4	A803_19.3 P180 BX180L4	362
88	2178	3.0	16.7	42500				A803_16.7 P180 BE180L4	A803_16.7 P180 BX180L4	362
88	2250	0.9	16.7	30000				A602_16.7 P180 BE180L4	A602_16.7 P180 BX180L4	355
88	2172	1.8	16.7	39900				A703_16.7 P180 BE180L4	A703_16.7 P180 BX180L4	359
95	2011	3.0	15.5	41700				A803_15.5 P180 BE180L4	A803_15.5 P180 BX180L4	362
95	2005	1.8	15.4	39200				A703_15.4 P180 BE180L4	A703_15.4 P180 BX180L4	359
112	1703	2.3	13.1	37900				A703_13.1 P180 BE180L4	A703_13.1 P180 BX180L4	359
112	1758	1.0	13.1	23500				A552_13.1 P180 BE180L4	A552_13.1 P180 BX180L4	351
116	1708	1.2	12.7	30000				A602_12.7 P180 BE180L4	A602_12.7 P180 BX180L4	355
122	1572	2.3	12.1	37200				A703_12.1 P180 BE180L4	A703_12.1 P180 BX180L4	359
142	1392	1.3	10.4	22400				A552_10.4 P180 BE180L4	A552_10.4 P180 BX180L4	351
143	1387	1.4	10.3	29300				A602_10.3 P180 BE180L4	A602_10.3 P180 BX180L4	355
144	1331	2.4	10.2	35800				A703_10.2 P180 BE180L4	A703_10.2 P180 BX180L4	359
156	1228	2.4	9.4	35100				A703_9.4 P180 BE180L4	A703_9.4 P180 BX180L4	359
174	1137	1.6	8.5	21400				A552_8.5 P180 BE180L4	A552_8.5 P180 BX180L4	351
187	1057	1.9	7.9	27500				A602_7.9 P180 BE180L4	A602_7.9 P180 BX180L4	355
190	1040	0.9	7.7	8760				A502_7.7 P180 BE180L4	A502_7.7 P180 BX180L4	347
229	862	2.0	6.4	20100				A552_6.4 P180 BE180L4	A552_6.4 P180 BX180L4	351
297	665	2.4	4.9	18900				A552_4.9 P180 BE180L4	A552_4.9 P180 BX180L4	351

30 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				IEC		
								IE3		
16.8	15556	0.9	87.1	70100				A903_87.1 P200 BX200LAK4		365
18.2	14360	1.0	80.4	70000				A903_80.4 P200 BX200LAK4		365
19.6	13307	1.1	74.5	69700				A903_74.5 P200 BX200LAK4		365
21.2	12283	1.1	68.8	69200				A903_68.8 P200 BX200LAK4		365
24.5	10651	1.3	59.6	68500				A903_59.6 P200 BX200LAK4		365
26.5	9832	1.4	55.0	67800				A903_55.0 P200 BX200LAK4		365
30.0	8630	1.6	48.3	66900				A903_48.3 P200 BX200LAK4		365
30	8609	0.9	48.2	45700				A803_48.2 P200 BX200LAK4		362
33	7966	1.8	44.6	66000				A903_44.6 P200 BX200LAK4		365
33	7946	0.9	44.5	45500				A803_44.5 P200 BX200LAK4		362
38	6934	2.0	38.8	64700				A903_38.8 P200 BX200LAK4		365
38	6879	1.1	38.5	45300				A803_38.5 P200 BX200LAK4		362
41	6400	2.1	35.8	63800				A903_35.8 P200 BX200LAK4		365
41	6349	1.1	35.5	45000				A803_35.5 P200 BX200LAK4		362
46	5628	2.5	31.5	62400				A903_31.5 P200 BX200LAK4		365
48	5463	1.2	30.6	44500				A803_30.6 P200 BX200LAK4		362
50	5195	2.5	29.1	61400				A903_29.1 P200 BX200LAK4		365
52	5043	1.3	28.2	44000				A803_28.2 P200 BX200LAK4		362
60	4377	1.5	24.5	43300				A803_24.5 P200 BX200LAK4		362
61	4307	3.1	24.1	59200				A903_24.1 P200 BX200LAK4		365

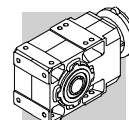


30 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N		IEC IE3
62	4202	1.0	23.5	40100		A703_23.5 P200 BX200LAK4 359
65	4041	1.5	22.6	42700		A803_22.6 P200 BX200LAK4 362
66	3976	3.1	22.3	58200		A903_22.3 P200 BX200LAK4 365
70	3752	3.3	21.0	57500		A903_21.0 P200 BX200LAK4 365
70	3743	1.7	20.9	42300		A803_20.9 P200 BX200LAK4 362
75	3463	3.3	19.4	56500		A903_19.4 P200 BX200LAK4 365
75	3455	1.8	19.3	41700		A803_19.3 P200 BX200LAK4 362
87	2991	2.2	16.7	40700		A803_16.7 P200 BX200LAK4 362
87	2982	1.3	16.7	38100		A703_16.7 P200 BX200LAK4 359
94	2761	2.2	15.5	40000		A803_15.5 P200 BX200LAK4 362
95	2752	1.3	15.4	37500		A703_15.4 P200 BX200LAK4 359
110	2375	2.8	13.3	38900		A803_13.3 P200 BX200LAK4 362
112	2338	1.6	13.1	36400		A703_13.1 P200 BX200LAK4 359
119	2192	2.8	12.3	38200		A803_12.3 P200 BX200LAK4 362
121	2158	1.6	12.1	35800		A703_12.1 P200 BX200LAK4 359
125	2094	1.7	23.5	35600		A703_23.5 P200 IEC200LA2 359
137	1903	3.4	10.7	37100		A803_10.7 P200 BX200LAK4 362
143	1827	1.8	10.2	34600		A703_10.2 P200 BX200LAK4 359
148	1757	3.4	9.8	36500		A803_9.8 P200 BX200LAK4 362
155	1687	1.8	9.4	34000		A703_9.4 P200 BX200LAK4 359
176	1486	2.3	16.7	33100		A703_16.7 P200 IEC200LA2 359
190	1371	2.3	15.4	32500		A703_15.4 P200 IEC200LA2 359
224	1165	2.7	13.1	31300		A703_13.1 P200 IEC200LA2 359
243	1075	2.7	12.1	30600		A703_12.1 P200 IEC200LA2 359
287	910	3.2	10.2	29400		A703_10.2 P200 IEC200LA2 359
310	840	3.2	9.4	28800		A703_9.4 P200 IEC200LA2 359

37 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N		IEC IE3
21.5	14945	0.9	68.8	63900		A903_68.8 P225 BX225SAK4 365
24.8	12959	1.1	59.6	63900		A903_59.6 P225 BX225SAK4 365
26.9	11962	1.2	55.0	63600		A903_55.0 P225 BX225SAK4 365
31	10499	1.3	48.3	63100		A903_48.3 P225 BX225SAK4 365
33	9692	1.4	44.6	62500		A903_44.6 P225 BX225SAK4 365
38	8436	1.7	38.8	61700		A903_38.8 P225 BX225SAK4 365
38	8369	0.9	38.5	41700		A803_38.5 P225 BX225SAK4 362
41	7787	1.8	35.8	61000		A903_35.8 P225 BX225SAK4 365
42	7725	0.9	35.5	41600		A803_35.5 P225 BX225SAK4 362
47	6847	2.0	31.5	59900		A903_31.5 P225 BX225SAK4 365
48	6647	1.0	30.6	41600		A803_30.6 P225 BX225SAK4 362
51	6321	2.1	29.1	59100		A903_29.1 P225 BX225SAK4 365
52	6135	1.1	28.2	41300		A803_28.2 P225 BX225SAK4 362
60	5326	1.3	24.5	40900		A803_24.5 P225 BX225SAK4 362
61	5241	2.5	24.1	57300		A903_24.1 P225 BX225SAK4 365
65	4916	1.3	22.6	40500		A803_22.6 P225 BX225SAK4 362
67	4837	2.5	22.3	56400		A903_22.3 P225 BX225SAK4 365
70	4565	2.7	21.0	55900		A903_21.0 P225 BX225SAK4 365
71	4554	1.4	20.9	40300		A803_20.9 P225 BX225SAK4 362
76	4214	2.7	19.4	54900		A903_19.4 P225 BX225SAK4 365
77	4204	1.4	19.3	39800		A803_19.3 P225 BX225SAK4 362
88	3668	3.2	16.9	53400		A903_16.9 P225 BX225SAK4 365
88	3639	1.8	16.7	39100		A803_16.7 P225 BX225SAK4 362
95	3386	3.2	15.6	52500		A903_15.6 P225 BX225SAK4 365
96	3359	1.8	15.5	38500		A803_15.5 P225 BX225SAK4 362
111	2890	2.3	13.3	37600		A803_13.3 P225 BX225SAK4 362
121	2667	2.3	12.3	37000		A803_12.3 P225 BX225SAK4 362
139	2316	2.8	10.7	36100		A803_10.7 P225 BX225SAK4 362
151	2137	2.8	9.8	35500		A803_9.8 P225 BX225SAK4 362

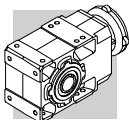


45 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N		IEC IE3
26.9	14549	1.0	55.0	58700	A903_55.0 P225 BX225SBK4	365
31	12769	1.1	48.3	58900	A903_48.3 P225 BX225SBK4	365
33	11787	1.2	44.6	58600	A903_44.6 P225 BX225SBK4	365
38	10260	1.4	38.8	58300	A903_38.8 P225 BX225SBK4	365
41	9471	1.5	35.8	57800	A903_35.8 P225 BX225SBK4	365
47	8328	1.7	31.5	57200	A903_31.5 P225 BX225SBK4	365
51	7687	1.7	29.1	56600	A903_29.1 P225 BX225SBK4	365
60	6477	1.0	24.5	38300	A803_24.5 P225 BX225SBK4	362
61	6374	2.1	24.1	55200	A903_24.1 P225 BX225SBK4	365
65	5979	1.0	22.6	38100	A803_22.6 P225 BX225SBK4	362
67	5883	2.1	22.3	54500	A903_22.3 P225 BX225SBK4	365
70	5552	2.2	21.0	54000	A903_21.0 P225 BX225SBK4	365
71	5539	1.2	20.9	38000	A803_20.9 P225 BX225SBK4	362
76	5125	2.3	19.4	53200	A903_19.4 P225 BX225SBK4	365
77	5112	1.2	19.3	37700	A803_19.3 P225 BX225SBK4	362
88	4461	2.7	16.9	52000	A903_16.9 P225 BX225SBK4	365
88	4425	1.5	16.7	37300	A803_16.7 P225 BX225SBK4	362
95	4118	2.7	15.6	51100	A903_15.6 P225 BX225SBK4	365
96	4085	1.5	15.5	36900	A803_15.5 P225 BX225SBK4	362
108	3621	3.1	13.7	49900	A903_13.7 P225 BX225SBK4	365
111	3515	1.9	13.3	36200	A803_13.3 P225 BX225SBK4	362
117	3342	3.1	12.6	49000	A903_12.6 P225 BX225SBK4	365
121	3244	1.9	12.3	35700	A803_12.3 P225 BX225SBK4	362
139	2816	2.3	10.7	34900	A803_10.7 P225 BX225SBK4	362
141	2771	3.5	10.5	47100	A903_10.5 P225 BX225SBK4	365
151	2600	2.3	9.8	34400	A803_9.8 P225 BX225SBK4	362
153	2558	3.5	9.7	46200	A903_9.7 P225 BX225SBK4	365

55 kW

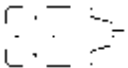
n ₂ min-1	M ₂ Nm	S	i	R _{n2} N		IEC IE3
33	14406	1.0	44.6	53900	A903_44.6 P250 BX250MAK4	365
38	12540	1.1	38.8	54100	A903_38.8 P250 BX250MAK4	365
41	11575	1.2	35.8	54000	A903_35.8 P250 BX250MAK4	365
47	10179	1.4	31.5	53800	A903_31.5 P250 BX250MAK4	365
51	9396	1.4	29.1	53400	A903_29.1 P250 BX250MAK4	365
61	7790	1.7	24.1	52600	A903_24.1 P250 BX250MAK4	365
67	7191	1.7	22.3	52000	A903_22.3 P250 BX250MAK4	365
70	6786	1.8	21.0	51700	A903_21.0 P250 BX250MAK4	365
76	6264	1.8	19.4	51100	A903_19.4 P250 BX250MAK4	365
88	5452	2.2	16.9	50100	A903_16.9 P250 BX250MAK4	365
95	5033	2.2	15.6	49400	A903_15.6 P250 BX250MAK4	365
108	4425	2.5	13.7	48400	A903_13.7 P250 BX250MAK4	365
117	4085	2.6	12.6	47600	A903_12.6 P250 BX250MAK4	365
141	3387	2.9	10.5	45900	A903_10.5 P250 BX250MAK4	365
153	3126	2.9	9.7	45100	A903_9.7 P250 BX250MAK4	365



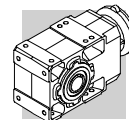
39 DONNEES TECHNIQUES REDUCTEURS

A 10

150 Nm

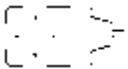
	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
A 10 2_5.5	5.5	512	73	4.2	—	1830	256	73	2.1	960	2460	303
A 10 2_6.3	6.3	442	80	3.9	—	1900	221	80	2.0	830	2560	
A 10 2_7.2	7.2	388	92	4.0	—	1910	194	93	2.0	630	2600	
A 10 2_8.5	8.5	329	92	3.4	—	2060	164	93	1.7	720	2790	
A 10 2_9.6	9.6	291	102	3.3	—	2090	146	128	2.1	—	2650	
A 10 2_10.6	10.6	265	125	3.7	540	2010	133	150	2.2	810	2590	
A 10 2_12.3	12.3	228	110	2.8	—	2280	114	138	1.7	—	2880	
A 10 2_13.9	13.9	201	135	3.0	620	2220	101	150	1.7	1080	2960	
A 10 2_16.4	16.4	170	140	2.7	610	2370	85	150	1.4	1140	3200	
A 10 2_18.6	18.6	151	147	2.5	650	2460	75	150	1.3	1180	3380	
A 10 2_21.4	21.4	131	150	2.2	650	2610	66	150	1.1	1200	3600	
A 10 2_23.8	23.8	118	150	2.0	750	2750	59	150	0.98	1220	3780	
A 10 2_25.5	25.5	110	150	1.8	750	2840	55	150	0.92	1220	3900	
A 10 2_28.6	28.6	98	150	1.6	830	3000	49	150	0.82	1250	4100	
A 10 2_32.2	32.2	87	150	1.5	880	3170	43	150	0.73	1270	4310	
A 10 2_35.1	35.1	80	150	1.3	880	3300	40	150	0.67	1270	4470	
A 10 2_40.9	40.9	69	150	1.1	910	3530	34	150	0.57	1300	4770	
A 10 2_45.4	45.4	62	150	1.0	910	3700	31	150	0.52	1300	4980	
A 10 2_51.3	51.3	55	150	0.91	910	3910	27.3	150	0.46	1290	5240	
A 10 2_58.6	58.6	48	150	0.80	920	4140	23.9	150	0.40	1300	5500	
A 10 2_65.9	65.9	42	150	0.71	920	4360	21.2	150	0.35	1300	5500	
A 10 2_76.4	76.4	37	150	0.61	930	4640	18.3	150	0.31	1300	5500	
A 10 2_91.6	91.6	31	130	0.44	1020	5160	15.3	130	0.22	1300	5500	

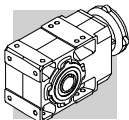
(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



A 10

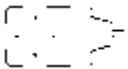
150 Nm

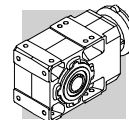
	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
A 10 2_5.5	5.5	165	73	1.3	1300	2950	91	73	0.74	1300	3720	303
A 10 2_6.3	6.3	142	80	1.3	1300	3070	79	80	0.70	1300	4100	
A 10 2_7.2	7.2	125	93	1.3	1160	3130	69	93	0.72	1300	3970	
A 10 2_8.5	8.5	106	95	1.1	1200	3330	59	110	0.72	1300	4100	
A 10 2_9.6	9.6	94	128	1.3	500	3230	52	128	0.74	1300	4160	
A 10 2_10.6	10.6	85	150	1.4	1300	3200	47	150	0.79	1300	4160	
A 10 2_12.3	12.3	73	150	1.2	180	3420	41	150	0.68	1030	4430	
A 10 2_13.9	13.9	65	150	1.1	1300	3630	36	150	0.60	1300	4680	
A 10 2_16.4	16.4	55	150	0.91	1300	3900	30	150	0.51	1300	5010	
A 10 2_18.6	18.6	48	150	0.81	1300	4120	26.9	150	0.45	1300	5270	
A 10 2_21.4	21.4	42	150	0.70	1300	4370	23.4	150	0.39	1300	5500	
A 10 2_23.8	23.8	38	150	0.63	1300	4570	21.0	150	0.35	1300	5500	
A 10 2_25.5	25.5	35	150	0.59	1300	4710	19.6	150	0.33	1300	5500	
A 10 2_28.6	28.6	31	150	0.53	1300	4940	17.5	150	0.29	1300	5500	
A 10 2_32.2	32.2	28.0	150	0.47	1300	5190	15.5	150	0.26	1300	5500	
A 10 2_35.1	35.1	25.6	150	0.43	1300	5380	14.2	150	0.24	1300	5500	
A 10 2_40.9	40.9	22.0	150	0.37	1300	5500	12.2	150	0.20	1300	5500	
A 10 2_45.4	45.4	19.8	150	0.33	1300	5500	11.0	150	0.18	1300	5500	
A 10 2_51.3	51.3	17.6	150	0.29	1300	5500	9.8	150	0.16	1300	5500	
A 10 2_58.6	58.6	15.4	150	0.26	1300	5500	8.5	150	0.14	1300	5500	
A 10 2_65.9	65.9	13.7	150	0.23	1300	5500	7.6	150	0.13	1300	5500	
A 10 2_76.4	76.4	11.8	150	0.20	1300	5500	6.5	150	0.11	1300	5500	
A 10 2_91.6	91.6	9.8	130	0.14	1300	5500	5.5	130	0.08	1300	5500	



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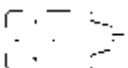
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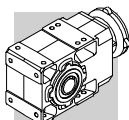
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A 20 2_5.4	5.4	523	96	5.6	610	1910	262	121	3.5	770	2400	307
A 20 2_6.5	6.5	428	107	5.1	490	2010	214	135	3.2	610	2530	
A 20 2_7.3	7.3	384	113	4.8	510	2070	192	143	3.1	630	2600	
A 20 2_8.4	8.4	334	116	4.3	510	2180	167	146	2.7	650	2750	
A 20 2_9.4	9.4	299	122	4.1	530	2260	149	154	2.6	660	2840	
A 20 2_10.3	10.3	271	183	5.5	650	1970	135	225	3.4	890	2520	
A 20 2_12.0	12.0	234	128	3.3	550	2280	117	161	2.1	690	3120	
A 20 2_14.1	14.1	199	199	4.4	750	2210	99	245	2.7	960	2820	
A 20 2_16.2	16.2	173	209	4.0	700	2310	87	250	2.4	1040	2990	
A 20 2_18.1	18.1	155	216	3.7	760	2400	77	250	2.2	1210	3170	
A 20 2_21.2	21.2	132	226	3.3	710	2540	66	250	1.8	1290	3430	
A 20 2_23.1	23.1	121	232	3.1	710	2620	61	250	1.7	1360	3580	
A 20 2_26.5	26.5	106	241	2.8	660	2750	53	250	1.5	1410	3820	
A 20 2_29.2	29.2	96	249	2.7	670	2850	48	250	1.3	1510	4000	
A 20 2_31.3	31.3	89	250	2.5	660	2940	45	250	1.2	1510	4130	
A 20 2_35.4	35.4	79	250	2.2	800	3140	40	250	1.1	1650	4380	
A 20 2_39.6	39.6	71	250	2.0	880	3320	35	250	0.98	1710	4600	
A 20 2_43.2	43.2	65	250	1.8	880	3460	32	250	0.90	1710	4790	
A 20 2_48.3	48.3	58	250	1.6	920	3650	29.0	250	0.81	1720	5030	
A 20 2_53.7	53.7	52	250	1.5	920	3840	26.1	250	0.73	1720	5270	
A 20 2_63.1	63.1	44	245	1.2	1040	4180	22.2	245	0.61	1740	5680	
A 20 2_71.0	71.0	39	210	0.92	1360	4640	19.7	210	0.46	1790	6200	
A 20 2_79.9	79.9	35	210	0.82	1360	4880	17.5	210	0.41	1790	6200	
A 20 2_92.3	92.3	30	200	0.68	1380	5250	15.2	200	0.34	1810	6200	
A 20 3_109.2	109.2	25.6	165	0.49	1180	5900	12.8	205	0.30	1300	6200	
A 20 3_120.5	120.5	23.2	168	0.45	1130	6110	11.6	210	0.28	1300	6200	
A 20 3_129.1	129.1	21.7	175	0.44	1210	6200	10.8	215	0.27	1300	6200	
A 20 3_146.1	146.1	19.2	183	0.40	1160	6200	9.6	230	0.25	1300	6200	
A 20 3_163.4	163.4	17.1	190	0.37	1240	6200	8.6	235	0.23	1300	6200	
A 20 3_178.3	178.3	15.7	195	0.35	1200	6200	7.9	245	0.22	1300	6200	
A 20 3_199.2	199.2	14.1	200	0.32	1270	6200	7.0	250	0.20	1300	6200	
A 20 3_221.3	221.3	12.7	203	0.30	1240	6200	6.3	250	0.18	1300	6200	
A 20 3_260.5	260.5	10.8	214	0.26	1270	6200	5.4	250	0.15	1300	6200	
A 20 3_292.8	292.8	9.6	218	0.24	1300	6200	4.8	250	0.14	1300	6200	
A 20 3_329.4	329.4	8.5	221	0.22	1300	6200	4.3	250	0.12	1300	6200	
A 20 3_380.9	380.9	7.4	226	0.19	1300	6200	3.7	250	0.11	1300	6200	



A 20

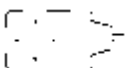
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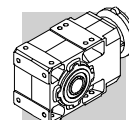
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A 20 2_6.5	6.5	138	156	2.4	720	2930	76	190	1.6	860	3570	
A 20 2_7.3	7.3	123	165	2.3	740	3020	69	201	1.5	890	3670	
A 20 2_8.4	8.4	108	170	2.0	730	3180	60	206	1.4	910	3870	
A 20 2_9.4	9.4	96	179	1.9	760	3290	53	210	1.2	1090	4050	
A 20 2_10.3	10.3	87	250	2.4	1190	2990	48	250	1.3	2200	3980	
A 20 2_12.0	12.0	75	187	1.6	790	2990	42	210	0.98	1336	4510	
A 20 2_14.1	14.1	64	250	1.8	1610	3490	36	250	0.99	2200	4590	
A 20 2_16.2	16.2	56	250	1.6	1690	3730	31	250	0.86	2200	4880	
A 20 2_18.1	18.1	50	250	1.4	1860	3930	27.6	250	0.77	2200	5140	
A 20 2_21.2	21.2	42	250	1.2	1940	4230	23.6	250	0.66	2200	5500	
A 20 2_23.1	23.1	39	250	1.1	1970	4400	21.6	250	0.60	2200	5710	
A 20 2_26.5	26.5	34	250	0.95	1980	4680	18.9	250	0.53	2200	6050	
A 20 2_29.2	29.2	31	250	0.86	2000	4890	17.1	250	0.48	2200	6200	
A 20 2_31.3	31.3	28.7	250	0.80	2000	5040	16.0	250	0.44	2200	6200	
A 20 2_35.4	35.4	25.4	250	0.71	2020	5330	14.1	250	0.39	2200	6200	
A 20 2_39.6	39.6	22.7	250	0.63	2040	5590	12.6	250	0.35	2200	6200	
A 20 2_43.2	43.2	20.8	250	0.58	2040	5800	11.6	250	0.32	2200	6200	
A 20 2_48.3	48.3	18.6	250	0.52	2040	6080	10.4	250	0.29	2200	6200	
A 20 2_53.7	53.7	16.8	250	0.47	2050	6200	9.3	250	0.26	2200	6200	
A 20 2_63.1	63.1	14.3	245	0.39	2060	6200	7.9	245	0.22	2200	6200	
A 20 2_71.0	71.0	12.7	210	0.30	2120	6200	7.0	210	0.16	2200	6200	
A 20 2_79.9	79.9	11.3	210	0.26	2120	6200	6.3	210	0.15	2200	6200	
A 20 2_92.3	92.3	9.7	200	0.22	2140	6200	5.4	200	0.12	2200	6200	
A 20 3_109.2	109.2	8.2	240	0.23	1300	6200	4.6	250	0.13	1300	6200	
A 20 3_120.5	120.5	7.5	245	0.21	1300	6200	4.1	250	0.12	1300	6200	
A 20 3_129.1	129.1	7.0	250	0.20	1300	6200	3.9	250	0.11	1300	6200	
A 20 3_146.1	146.1	6.2	250	0.18	1300	6200	3.4	250	0.10	1300	6200	
A 20 3_163.4	163.4	5.5	250	0.16	1300	6200	3.1	250	0.09	1300	6200	
A 20 3_178.3	178.3	5.0	250	0.15	1300	6200	2.8	250	0.08	1300	6200	
A 20 3_199.2	199.2	4.5	250	0.13	1300	6200	2.5	250	0.07	1300	6200	
A 20 3_221.3	221.3	4.1	250	0.12	1300	6200	2.3	250	0.06	1300	6200	
A 20 3_260.5	260.5	3.5	250	0.10	1300	6200	1.9	250	0.06	1300	6200	
A 20 3_292.8	292.8	3.1	250	0.09	1300	6200	1.7	250	0.05	1300	6200	
A 20 3_329.4	329.4	2.7	250	0.08	1300	6200	1.5	250	0.04	1300	6200	
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A 30

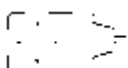
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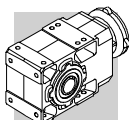
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A 30 2_6.4	6.4	437	185	9.0	1120	2630	218	230	5.6	1470	3330	
A 30 2_7.0	7.0	399	194	8.6	1140	2690	199	245	5.4	1430	3380	
A 30 2_8.5	8.5	331	200	7.4	1220	2900	165	250	4.6	1570	3660	
A 30 2_9.3	9.3	301	214	7.2	1140	2950	150	270	4.5	1440	3710	
A 30 2_10.5	10.5	268	278	8.3	1800	2770	134	340	5.1	2200	3550	
A 30 2_11.8	11.8	238	230	6.1	1130	3200	119	290	3.8	1420	4030	
A 30 2_13.6	13.6	206	301	6.9	1830	3030	103	370	4.3	2200	3870	
A 30 2_16.3	16.3	171	318	6.1	1830	3240	86	385	3.7	2200	4170	
A 30 2_18.0	18.0	156	327	5.7	1840	3350	78	400	3.5	2200	4290	
A 30 2_20.5	20.5	136	340	5.2	1830	3510	68	410	3.1	2200	4530	
A 30 2_22.8	22.8	123	351	4.8	1850	3640	62	410	2.8	2200	4770	
A 30 2_26.5	26.5	106	367	4.3	1840	3850	53	410	2.4	2200	5150	
A 30 2_29.3	29.3	96	378	4.0	1847	3980	48	410	2.2	2200	5400	
A 30 2_33.4	33.4	84	393	3.7	1840	4170	42	410	1.9	2200	5750	
A 30 2_36.6	36.6	76	404	3.4	1840	4310	38	410	1.7	2200	6010	
A 30 2_39.3	39.3	71	410	3.3	1810	4430	36	410	1.6	2200	6200	
A 30 2_43.4	43.4	64	410	2.9	1850	4660	32	410	1.5	2200	6490	
A 30 2_48.3	48.3	58	410	2.6	1860	4920	29.0	410	1.3	2200	6810	
A 30 2_52.7	52.7	53	410	2.4	1860	5130	26.6	410	1.2	2200	7080	
A 30 2_59.4	59.4	47	400	2.1	1890	5500	23.6	400	1.0	2200	7530	
A 30 2_66.0	66.0	42	390	1.8	1900	5840	21.2	390	0.92	2200	7940	
A 30 2_76.5	76.5	37	350	1.4	1950	6480	18.3	350	0.71	2200	8690	
A 30 2_86.7	86.7	32	320	1.2	2000	7010	16.2	320	0.58	2200	9310	
A 30 2_97.5	97.5	28.7	300	0.96	2020	7480	14.4	300	0.48	2200	9600	
A 30 3_109.1	109.1	25.7	240	0.71	1300	8240	12.8	300	0.44	1300	9600	
A 30 3_120.5	120.5	23.2	243	0.65	1120	8540	11.6	300	0.40	1300	9600	
A 30 3_137.4	137.4	20.4	250	0.59	1300	8950	10.2	315	0.37	1300	9600	
A 30 3_150.7	150.7	18.6	261	0.56	1170	9210	9.3	330	0.35	1300	9600	
A 30 3_161.4	161.4	17.3	270	0.54	1300	9410	8.7	340	0.34	1300	9600	
A 30 3_178.5	178.5	15.7	274	0.49	1210	9600	7.8	345	0.31	1300	9600	
A 30 3_198.5	198.5	14.1	280	0.45	1300	9600	7.1	350	0.28	1300	9600	
A 30 3_216.6	216.6	12.9	287	0.43	1240	9600	6.5	360	0.27	1300	9600	
A 30 3_244.3	244.3	11.5	295	0.39	1300	9600	5.7	370	0.24	1300	9600	
A 30 3_271.5	271.5	10.3	301	0.36	1280	9600	5.2	380	0.23	1300	9600	
A 30 3_314.5	314.5	8.9	309	0.32	1300	9600	4.5	390	0.20	1300	9600	
A 30 3_356.3	356.3	7.9	320	0.29	1300	9600	3.9	370	0.17	1300	9600	
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A 30

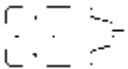
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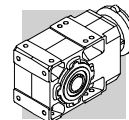
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A 30 2_6.4	6.4	140	270	4.2	1630	3830	78	300	2.6	2200	4830	
A 30 2_7.0	7.0	128	284	4.1	1650	3920	71	300	2.4	2200	5040	
A 30 2_8.5	8.5	106	290	3.4	1810	4240	59	300	2.0	2200	5470	
A 30 2_9.3	9.3	97	300	3.2	1900	4380	54	300	1.8	2200	5710	
A 30 2_10.5	10.5	86	391	3.7	2200	4130	48	410	2.2	2200	5400	
A 30 2_11.8	11.8	76	300	2.6	2200	4880	42	300	1.4	2200	6320	
A 30 2_13.6	13.6	66	410	3.0	2200	4600	37	410	1.7	2200	6110	
A 30 2_16.3	16.3	55	410	2.5	2200	5044	31	410	1.4	2200	6650	
A 30 2_18.0	18.0	50	410	2.3	2200	5280	27.8	410	1.3	2200	6940	
A 30 2_20.5	20.5	44	410	2.0	2200	5630	24.3	410	1.1	2200	7360	
A 30 2_22.8	22.8	40	410	1.8	2200	5910	22.0	410	1.0	2200	7700	
A 30 2_26.5	26.5	34	410	1.5	2200	6340	18.8	410	0.86	2200	8230	
A 30 2_29.3	29.3	31	410	1.4	2200	6640	17.1	410	0.78	2200	8590	
A 30 2_33.4	33.4	26.9	410	1.2	2200	7040	15.0	410	0.68	2200	9080	
A 30 2_36.6	36.6	24.6	410	1.1	2200	7340	13.6	410	0.62	2200	9440	
A 30 2_39.3	39.3	22.9	410	1.0	2200	7560	12.7	410	0.58	2200	9600	
A 30 2_43.4	43.4	20.7	410	0.95	2200	7900	11.5	410	0.53	2200	9600	
A 30 2_48.3	48.3	18.6	410	0.85	2200	8270	10.4	410	0.47	2200	9600	
A 30 2_52.7	52.7	17.1	410	0.78	2200	8590	9.5	410	0.43	2200	9600	
A 30 2_59.4	59.4	15.1	400	0.67	2200	9090	8.4	400	0.37	2200	9600	
A 30 2_66.0	66.0	13.6	390	0.59	2200	9560	7.6	390	0.33	2200	9600	
A 30 2_76.5	76.5	11.8	350	0.46	2200	9600	6.5	350	0.25	2200	9600	
A 30 2_86.7	86.7	10.4	320	0.37	2200	9600	5.8	320	0.21	2200	9600	
A 30 2_97.5	97.5	9.2	300	0.31	2200	9600	5.1	300	0.17	2200	9600	
A 30 3_109.1	109.1	8.3	350	0.33	1300	9600	4.6	370	0.20	1300	9600	
A 30 3_120.5	120.5	7.5	354	0.30	1300	9600	4.2	410	0.20	1300	9600	
A 30 3_137.4	137.4	6.5	370	0.28	1300	9600	3.6	410	0.17	1300	9600	
A 30 3_150.7	150.7	6.0	381	0.26	1300	9600	3.3	410	0.16	1300	9600	
A 30 3_161.4	161.4	5.6	390	0.25	1300	9600	3.1	410	0.15	1300	9600	
A 30 3_178.5	178.5	5.0	400	0.23	1300	9600	2.8	410	0.13	1300	9600	
A 30 3_198.5	198.5	4.5	410	0.21	1300	9600	2.5	410	0.12	1300	9600	
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A 30 3_314.5	314.5	2.9	410	0.13	1300	9600	1.6	410	0.07	1300	9600	
A 30 3_356.3	356.3	2.5	380	0.11	1300	9600	1.4	380	0.06	1300	9600	
A 30 3_400.8	400.8	2.2	360	0.09	1300	9600	1.2	360	0.05	1300	9600	



A 35

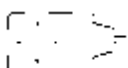
600 Nm

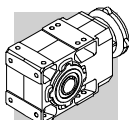
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		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
A 35 2_5.4	5.4	517	246	14.2	1420	4000	259	310	8.9	1790	5050	315
A 35 2_6.4	6.4	437	262	12.7	1420	4230	218	330	8.0	1790	5330	
A 35 2_7.0	7.0	399	278	12.3	1410	4320	199	350	7.8	1790	5440	
A 35 2_8.5	8.5	331	286	10.5	1450	4650	165	360	6.6	1830	5850	
A 35 2_9.3	9.3	301	302	10.1	1450	4760	150	380	6.4	1830	6000	
A 35 2_10.6	10.6	263	310	9.1	1440	5010	132	390	5.7	1830	6310	
A 35 2_11.8	11.8	238	317	8.4	1480	5200	119	400	5.3	1860	6550	
A 35 2_13.1	13.1	214	400	10.9	1630	4470	107	550	6.6	2100	5780	
A 35 2_15.5	15.5	181	430	10.0	1620	4670	90	570	5.7	2120	6190	
A 35 2_17.0	17.0	165	465	9.7	1620	4730	83	600	5.5	2130	6310	
A 35 2_20.4	20.4	137	500	8.4	1630	5080	69	600	4.6	2170	6930	
A 35 2_22.5	22.5	125	540	7.8	1660	5290	62	600	4.2	2200	7260	
A 35 2_25.7	25.7	109	585	7.1	1640	5540	55	600	3.6	2200	7740	
A 35 2_28.4	28.4	98	600	6.6	1660	5760	49	600	3.3	2200	8130	
A 35 2_33.2	33.2	84	600	5.6	910	6240	42	600	2.8	2200	8730	
A 35 2_36.6	36.6	76	600	5.1	1080	6560	38	600	2.6	2200	9140	
A 35 2_41.8	41.8	67	600	4.5	1140	7010	34	600	2.2	2200	9700	
A 35 2_45.8	45.8	61	600	4.1	1260	7330	31	600	2.0	2200	10100	
A 35 2_49.1	49.1	57	600	3.8	1260	7580	28.5	600	1.9	2200	10400	
A 35 2_54.3	54.3	52	600	3.4	1360	7950	25.8	600	1.7	2200	10900	
A 35 2_60.4	60.4	46	600	3.1	1470	8360	23.2	600	1.6	2200	11400	
A 35 2_65.8	65.8	43	600	2.8	1470	8700	21.3	600	1.4	2200	11800	
A 35 2_74.3	74.3	38	600	2.5	1560	9200	18.8	600	1.3	2200	12000	
A 35 2_82.5	82.5	34	600	2.3	1560	9650	17.0	600	1.1	2200	12000	
A 35 2_95.6	95.6	29.3	540	1.8	1860	10600	14.6	540	0.88	2200	12000	
A 35 3_105.5	105.5	26.5	430	1.3	550	12000	13.3	525	0.80	780	12000	
A 35 3_116.9	116.9	24.0	455	1.3	650	12000	12.0	560	0.77	870	12000	
A 35 3_136.3	136.3	20.5	470	1.1	870	12000	10.3	575	0.68	1110	12000	
A 35 3_150.6	150.6	18.6	495	1.1	900	12000	9.3	600	0.64	1160	12000	
A 35 3_171.8	171.8	16.3	505	0.95	960	12000	8.1	600	0.56	1250	12000	
A 35 3_188.3	188.3	14.9	525	0.90	990	12000	7.4	600	0.51	1300	12000	
A 35 3_201.8	201.8	13.9	525	0.84	1020	12000	6.9	600	0.48	1300	12000	
A 35 3_223.2	223.2	12.5	545	0.79	1050	12000	6.3	600	0.43	1300	12000	
A 35 3_248.1	248.1	11.3	565	0.73	1080	12000	5.6	600	0.39	1300	12000	
A 35 3_270.7	270.7	10.3	570	0.68	1110	12000	5.2	600	0.36	1300	12000	
A 35 3_305.4	305.4	9.2	585	0.62	1140	12000	4.6	600	0.32	1300	12000	
A 35 3_339.3	339.3	8.3	520	0.49	1210	12000	4.1	520	0.25	1300	12000	
A 35 3_393.2	393.2	7.1	465	0.38	1260	12000	3.6	465	0.19	1300	12000	



A 35

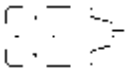
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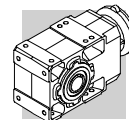
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		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
A 35 2_5.4	5.4	166	340	6.3	2150	5940	92	340	3.5	2200	7600	315
A 35 2_6.4	6.4	140	350	5.5	2190	6340	78	350	3.0	2200	8090	
A 35 2_7.0	7.0	128	370	5.3	2200	6490	71	370	2.9	2200	8290	
A 35 2_8.5	8.5	106	380	4.5	2200	6970	59	380	2.5	2200	8890	
A 35 2_9.3	9.3	97	400	4.3	2200	7160	54	400	2.4	2200	9140	
A 35 2_10.6	10.6	85	400	3.8	2200	7570	47	400	2.1	2200	9650	
A 35 2_11.8	11.8	76	400	3.4	2200	7910	42	400	1.9	2200	10100	
A 35 2_13.1	13.1	69	600	4.6	2200	6910	38	600	2.6	2200	9140	
A 35 2_15.5	15.5	58	600	3.9	2090	7510	32	600	2.2	2200	9860	
A 35 2_17.0	17.0	53	600	3.5	2200	7840	29.5	600	2.0	2200	10300	
A 35 2_20.4	20.4	44	600	2.9	2200	8560	24.5	600	1.6	2200	11100	
A 35 2_22.5	22.5	40	600	2.7	2200	8950	22.2	600	1.5	2200	11600	
A 35 2_25.7	25.7	35	600	2.3	2200	9500	19.5	600	1.3	2200	12000	
A 35 2_28.4	28.4	32	600	2.1	2200	9950	17.6	600	1.2	2200	12000	
A 35 2_33.2	33.2	27.1	600	1.8	2200	10700	15.1	600	1.0	2200	12000	
A 35 2_36.6	36.6	24.6	600	1.6	2200	11100	13.7	600	0.91	2200	12000	
A 35 2_41.8	41.8	21.5	600	1.4	2200	11800	12.0	600	0.80	2200	12000	
A 35 2_45.8	45.8	19.6	600	1.3	2200	12000	10.9	600	0.73	2200	12000	
A 35 2_49.1	49.1	18.3	600	1.2	2200	12000	10.2	600	0.68	2200	12000	
A 35 2_54.3	54.3	16.6	600	1.1	2200	12000	9.2	600	0.62	2200	12000	
A 35 2_60.4	60.4	14.9	600	1.0	2200	12000	8.3	600	0.55	2200	12000	
A 35 2_65.8	65.8	13.7	600	0.91	2200	12000	7.6	600	0.51	2200	12000	
A 35 2_74.3	74.3	12.1	600	0.81	2200	12000	6.7	600	0.45	2200	12000	
A 35 2_82.5	82.5	10.9	600	0.73	2200	12000	6.1	600	0.40	2200	12000	
A 35 2_95.6	95.6	9.4	540	0.57	2200	12000	5.2	540	0.31	2200	12000	
A 35 3_105.5	105.5	8.5	600	0.59	940	12000	4.7	600	0.33	1300	12000	
A 35 3_116.9	116.9	7.7	600	0.53	1230	12000	4.3	600	0.30	1300	12000	
A 35 3_136.3	136.3	6.6	600	0.46	1300	12000	3.7	600	0.25	1300	12000	
A 35 3_150.6	150.6	6.0	600	0.41	1300	12000	3.3	600	0.23	1300	12000	
A 35 3_171.8	171.8	5.2	600	0.36	1300	12000	2.9	600	0.20	1300	12000	
A 35 3_188.3	188.3	4.8	600	0.33	1300	12000	2.7	600	0.18	1300	12000	
A 35 3_201.8	201.8	4.5	600	0.31	1300	12000	2.5	600	0.17	1300	12000	
A 35 3_223.2	223.2	4.0	600	0.28	1300	12000	2.2	600	0.15	1300	12000	
A 35 3_248.1	248.1	3.6	600	0.25	1300	12000	2.0	600	0.14	1300	12000	
A 35 3_270.7	270.7	3.3	600	0.23	1300	12000	1.8	600	0.13	1300	12000	
A 35 3_305.4	305.4	2.9	600	0.20	1300	12000	1.6	600	0.11	1300	12000	
A 35 3_339.3	339.3	2.7	520	0.16	1300	12000	1.5	520	0.09	1300	12000	
A 35 3_393.2	393.2	2.3	465	0.12	1300	12000	1.3	465	0.07	1300	12000	



A 41

850 Nm

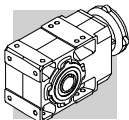
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A 41 2_5.2	5.2	534	450	27	1790	4350	267	550	16.4	2450	5560	319
A 41 2_7.1	7.1	393	490	22	1890	4850	197	550	12.0	2670	6430	
A 41 2_8.3	8.3	336	510	19.1	1900	5140	168	550	10.3	2750	6920	
A 41 2_9.2	9.2	304	530	18.0	1980	5300	152	550	9.3	2860	7240	
A 41 2_10.1	10.1	276	435	13.4	2680	6030	138	535	8.2	3390	7650	
A 41 2_11.7	11.7	238	550	14.6	2050	5870	119	550	7.3	2950	8070	
A 41 2_13.8	13.8	204	480	10.9	2690	6680	102	585	6.6	3430	8510	
A 41 2_16.1	16.1	174	500	9.7	2700	7070	87	610	5.9	3430	9000	
A 41 2_17.8	17.8	158	515	9.0	2730	7310	79	630	5.5	3470	9300	
A 41 2_22.7	22.7	123	550	7.6	2730	7970	62	680	4.7	3460	10100	
A 41 2_28.3	28.3	99	595	6.6	2670	8570	49	730	4.0	3450	10900	
A 41 2_35.9	35.9	78	635	5.5	2590	9320	39	780	3.4	3410	11800	
A 41 2_45.1	45.1	62	680	4.7	2500	10100	31	830	2.9	3330	12800	
A 41 2_48.3	48.3	58	690	4.5	2430	10300	29.0	850	2.7	3200	13100	
A 41 2_53.1	53.1	53	700	4.1	2470	10700	26.3	850	2.5	3330	13700	
A 41 2_58.8	58.8	48	730	3.9	2390	11100	23.8	850	2.3	3460	14300	
A 41 2_64.2	64.2	44	740	3.6	2320	11500	21.8	850	2.1	3460	14800	
A 41 2_71.3	71.3	39	780	3.4	2120	11800	19.6	850	1.9	3470	15000	
A 41 2_79.2	79.2	35	800	3.1	1990	12300	17.7	800	1.6	3500	15000	
A 41 3_92.8	92.8	30	650	2.3	270	14000	15.1	800	1.4	430	15000	
A 41 3_115.9	115.9	24.2	800	2.2	310	14600	12.1	850	1.2	980	15000	
A 41 3_146.9	146.9	19.1	850	1.9	790	15000	9.5	850	0.93	1640	15000	
A 41 3_184.4	184.4	15.2	850	1.5	1290	15000	7.6	850	0.74	1770	15000	
A 41 3_197.5	197.5	14.2	850	1.4	1360	15000	7.1	850	0.69	1790	15000	
A 41 3_217.4	217.4	12.9	850	1.3	1390	15000	6.4	850	0.63	1820	15000	
A 41 3_240.6	240.6	11.6	850	1.1	1410	15000	5.8	850	0.57	1840	15000	
A 41 3_262.5	262.5	10.7	850	1.0	1430	15000	5.3	850	0.52	1860	15000	
A 41 3_291.7	291.7	9.6	850	0.94	1450	15000	4.8	850	0.47	1880	15000	
A 41 3_324.2	324.2	8.6	850	0.84	1470	15000	4.3	850	0.42	1900	15000	
A 41 3_376.8	376.8	7.4	850	0.73	1500	15000	3.7	850	0.36	1930	15000	



A 41

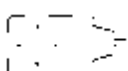
850 Nm

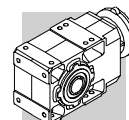
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		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
A 41 2_5.2	5.2	172	550	10.5	3140	6850	95	550	5.8	3500	8900	319
A 41 2_7.1	7.1	126	550	7.7	3360	7870	70	550	4.3	3500	10100	
A 41 2_8.3	8.3	108	550	6.6	3440	8430	60	550	3.7	3500	10800	
A 41 2_9.2	9.2	98	550	6.0	3500	8800	54	550	3.3	3500	11300	
A 41 2_10.1	10.1	89	610	6.0	3500	8920	49	730	4.0	3500	10900	
A 41 2_11.7	11.7	77	550	4.7	3500	9760	43	550	2.6	3500	12400	
A 41 2_13.8	13.8	65	670	4.9	3500	9900	36	800	3.2	3500	12100	
A 41 2_16.1	16.1	56	700	4.4	3500	10500	31	830	2.9	3500	12800	
A 41 2_17.8	17.8	51	720	4.1	3500	10800	28.1	850	2.7	3500	13300	
A 41 2_22.7	22.7	40	780	3.4	3500	11700	22.0	850	2.1	3500	14800	
A 41 2_28.3	28.3	32	830	2.9	3500	12700	17.7	850	1.7	3500	15000	
A 41 2_35.9	35.9	25.1	850	2.4	3500	14000	13.9	850	1.3	3500	15000	
A 41 2_45.1	45.1	20.0	850	1.9	3500	15000	11.1	850	1.1	3500	15000	
A 41 2_48.3	48.3	18.6	850	1.8	3500	15000	10.4	850	0.98	3500	15000	
A 41 2_53.1	53.1	16.9	850	1.6	3500	15000	9.4	850	0.89	3500	15000	
A 41 2_58.8	58.8	15.3	850	1.4	3500	15000	8.5	850	0.81	3500	15000	
A 41 2_64.2	64.2	14.0	850	1.3	3300	15000	7.8	850	0.74	3500	15000	
A 41 2_71.3	71.3	12.6	850	1.2	3500	15000	7.0	850	0.66	3500	15000	
A 41 2_79.2	79.2	11.4	800	1.0	3500	15000	6.3	800	0.56	3500	15000	
A 41 3_92.8	92.8	9.7	800	0.89	1080	15000	5.4	800	0.50	2110	15000	
A 41 3_115.9	115.9	7.8	850	0.76	1630	15000	4.3	850	0.42	2200	15000	
A 41 3_146.9	146.9	6.1	850	0.60	2020	15000	3.4	850	0.33	2200	15000	
A 41 3_184.4	184.4	4.9	850	0.48	2100	15000	2.7	850	0.27	2200	15000	
A 41 3_197.5	197.5	4.6	850	0.45	2120	15000	2.5	850	0.25	2200	15000	
A 41 3_217.4	217.4	4.1	850	0.40	2150	15000	2.3	850	0.22	2200	15000	
A 41 3_240.6	240.6	3.7	850	0.37	2170	15000	2.1	850	0.20	2200	15000	
A 41 3_262.5	262.5	3.4	850	0.34	2190	15000	1.9	850	0.19	2200	15000	
A 41 3_291.7	291.7	3.1	850	0.30	2200	15000	1.7	850	0.17	2200	15000	
A 41 3_324.2	324.2	2.8	850	0.27	2200	15000	1.5	850	0.15	2200	15000	
A 41 3_376.8	376.8	2.4	850	0.23	2200	15000	1.3	850	0.13	2200	15000	



A 50

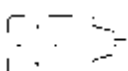
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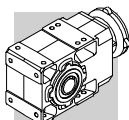
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A 50 2_7.7	7.7	362	550	22	2300	7920	181	700	14.1	2890	9960	323
A 50 2_9.7	9.7	288	600	19.2	2330	8530	144	750	12.0	2950	10800	
A 50 2_13.1	13.1	214	600	14.3	2460	9600	107	750	8.9	3110	12100	
A 50 2_16.6	16.6	169	640	12.0	2490	10400	84	800	7.5	3150	13100	
A 50 2_20.9	20.9	134	640	9.5	2540	11400	67	800	6.0	3210	14400	
A 50 3_24.0	24.0	116	1150	15.4	1850	7020	58	1500	10.0	2100	8540	
A 50 3_26.4	26.4	106	1200	14.6	2100	7170	53	1500	9.1	2690	9100	
A 50 3_32.4	32.4	86	1290	12.8	1800	4630	43	1500	7.5	2760	10400	
A 50 3_35.6	35.6	79	1340	12.1	2080	7830	39	1500	6.8	3290	11000	
A 50 3_40.9	40.9	68	1415	11.1	1740	8130	34	1500	5.9	3220	11900	
A 50 3_45.0	45.0	62	1470	10.5	2030	8340	31	1500	5.4	3440	12600	
A 50 3_51.7	51.7	54	1500	9.4	1680	8970	27.1	1500	4.7	3400	13600	
A 50 3_56.8	56.8	49	1500	8.5	2150	9540	24.6	1500	4.3	3480	14400	
A 50 3_63.9	63.9	44	1500	7.6	1900	10300	21.9	1500	3.8	3450	15300	
A 50 3_70.2	70.2	40	1500	6.9	2350	10900	19.9	1500	3.4	3500	16100	
A 50 3_81.5	81.5	34	1500	5.9	2170	11900	17.2	1500	3.0	3500	17300	
A 50 3_89.5	89.5	31	1500	5.4	2590	12600	15.6	1500	2.7	3500	18200	
A 50 3_99.5	99.5	28.1	1500	4.9	2260	13400	14.1	1500	2.4	3500	19200	
A 50 3_109.4	109.4	25.6	1500	4.4	2680	14100	12.8	1500	2.2	3500	20000	
A 50 3_118.0	118.0	23.7	1500	4.1	2390	14700	11.9	1500	2.0	3500	20000	
A 50 3_129.7	129.7	21.6	1500	3.7	2720	15400	10.8	1500	1.9	3500	20000	
A 50 3_140.6	140.6	19.9	1500	3.4	2440	16100	10.0	1500	1.7	3500	20000	
A 50 3_154.6	154.6	18.1	1500	3.1	2730	16900	9.1	1500	1.6	3500	20000	
A 50 3_173.4	173.4	16.2	1500	2.8	2480	17900	8.1	1500	1.4	3500	20000	
A 50 3_190.6	190.6	14.7	1500	2.5	2740	18800	7.3	1500	1.3	3500	20000	
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A 50 4_232.0	232.0	12.1	1500	2.1	1970	20000	6.0	1500	1.1	2200	20000	
A 50 4_260.9	260.9	10.7	1500	1.9	2010	20000	5.4	1500	0.95	2200	20000	
A 50 4_286.8	286.8	9.8	1500	1.7	2040	20000	4.9	1500	0.86	2200	20000	
A 50 4_332.6	332.6	8.4	1500	1.5	2080	20000	4.2	1500	0.74	2200	20000	
A 50 4_365.6	365.6	7.7	1500	1.4	2100	20000	3.8	1500	0.68	2200	20000	
A 50 4_406.4	406.4	6.9	1500	1.2	2130	20000	3.4	1500	0.61	2200	20000	
A 50 4_446.8	446.8	6.3	1500	1.1	2140	20000	3.1	1500	0.55	2200	20000	
A 50 4_481.6	481.6	5.8	1500	1.0	2160	20000	2.9	1500	0.51	2200	20000	
A 50 4_529.5	529.5	5.3	1500	0.93	2170	20000	2.6	1500	0.47	2200	20000	
A 50 4_574.2	574.2	4.9	1500	0.86	2190	20000	2.4	1500	0.43	2200	20000	
A 50 4_631.2	631.2	4.4	1500	0.78	2200	20000	2.2	1500	0.39	2200	20000	
A 50 4_707.9	707.9	4.0	1500	0.70	2200	20000	2.0	1500	0.35	2200	20000	
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A 50

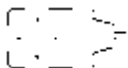
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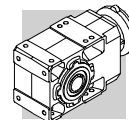
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A 50 2_9.7	9.7	92	830	8.5	3490	12600	51	1000	5.7	3500	15300	
A 50 2_13.1	13.1	69	830	6.3	3500	14200	38	1000	4.2	3500	17300	
A 50 2_16.6	16.6	54	880	5.3	3500	15400	30	1000	3.4	3500	18900	
A 50 2_20.9	20.9	43	880	4.2	3500	16800	23.9	1000	2.7	3500	20000	
A 50 3_24.0	24.0	37	1500	6.5	3480	11300	20.8	1500	3.6	3500	15700	
A 50 3_26.4	26.4	34	1500	5.9	3500	12000	18.9	1500	3.3	3500	16500	
A 50 3_32.4	32.4	27.8	1500	4.8	3500	13400	15.4	1500	2.7	3500	18300	
A 50 3_35.6	35.6	25.3	1500	4.4	3500	14200	14.0	1500	2.4	3500	19200	
A 50 3_40.9	40.9	22.0	1500	3.8	3500	15300	12.2	1500	2.1	3500	20000	
A 50 3_45.0	45.0	20.0	1500	3.5	3500	16000	11.1	1500	1.9	3500	20000	
A 50 3_51.7	51.7	17.4	1500	3.0	3450	17200	9.7	1500	1.7	3500	20000	
A 50 3_56.8	56.8	15.8	1500	2.7	3500	18100	8.8	1500	1.5	3500	20000	
A 50 3_63.9	63.9	14.1	1500	2.4	3500	19200	7.8	1500	1.4	3500	20000	
A 50 3_70.2	70.2	12.8	1500	2.2	3500	20000	7.1	1500	1.2	3500	20000	
A 50 3_81.5	81.5	11.0	1500	1.9	3500	20000	6.1	1500	1.1	3500	20000	
A 50 3_89.5	89.5	10.1	1500	1.7	3500	20000	5.6	1500	0.96	3500	20000	
A 50 3_99.5	99.5	9.0	1500	1.6	3500	20000	5.0	1500	0.87	3500	20000	
A 50 3_109.4	109.4	8.2	1500	1.4	3500	20000	4.6	1500	0.79	3500	20000	
A 50 3_118.0	118.0	7.6	1500	1.3	3500	20000	4.2	1500	0.73	3500	20000	
A 50 3_129.7	129.7	6.9	1500	1.2	3500	20000	3.9	1500	0.67	3500	20000	
A 50 3_140.6	140.6	6.4	1500	1.1	3500	20000	3.6	1500	0.61	3500	20000	
A 50 3_154.6	154.6	5.8	1500	1.0	3500	20000	3.2	1500	0.56	3500	20000	
A 50 3_173.4	173.4	5.2	1500	0.90	3500	20000	2.9	1500	0.50	3500	20000	
A 50 3_190.6	190.6	4.7	1500	0.82	3500	20000	2.6	1500	0.45	3500	20000	
A 50 4_211.0	211.0	4.3	1500	0.75	2200	20000	2.4	1500	0.42	2200	20000	
A 50 4_232.0	232.0	3.9	1500	0.68	2200	20000	2.2	1500	0.38	2200	20000	
A 50 4_260.9	260.9	3.4	1500	0.61	2200	20000	1.9	1500	0.34	2200	20000	
A 50 4_286.8	286.8	3.1	1500	0.55	2200	20000	1.7	1500	0.31	2200	20000	
A 50 4_332.6	332.6	2.7	1500	0.48	2200	20000	1.5	1500	0.27	2200	20000	
A 50 4_365.6	365.6	2.5	1500	0.43	2200	20000	1.4	1500	0.24	2200	20000	
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A 50 4_446.8	446.8	2.0	1500	0.36	2200	20000	1.1	1500	0.20	2200	20000	
A 50 4_481.6	481.6	1.9	1500	0.33	2200	20000	1.0	1500	0.18	2200	20000	
A 50 4_529.5	529.5	1.7	1500	0.30	2200	20000	0.94	1500	0.17	2200	20000	
A 50 4_574.2	574.2	1.6	1500	0.28	2200	20000	0.87	1500	0.15	2200	20000	
A 50 4_631.2	631.2	1.4	1500	0.25	2200	20000	0.79	1500	0.14	2200	20000	
A 50 4_707.9	707.9	1.3	1500	0.22	2200	20000	0.71	1500	0.12	2200	20000	
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A 55

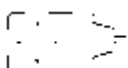
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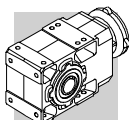
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A 55 2_6.4	6.4	438	800	39	1950	16400	219	950	23	2860	20300	
A 55 2_8.5	8.5	329	800	30	2810	18000	165	950	17.5	3500	22200	
A 55 2_10.4	10.4	269	840	25	2900	19100	135	1000	15.1	3500	23600	
A 55 2_13.1	13.1	214	840	20	3230	20600	107	1000	11.9	3500	25500	
A 55 2_15.7	15.7	178	840	16.7	3440	21900	89	1000	9.9	3500	27000	
A 55 2_19.2	19.2	146	925	15.0	3160	23200	73	1100	8.9	3500	28600	
A 55 3_23.8	23.8	118	1600	22	2050	21000	59	1950	13.2	2640	26000	
A 55 3_29.9	29.9	94	1700	18.3	2110	22500	47	2000	10.8	2770	28200	
A 55 3_40.3	40.3	69	1850	14.8	2150	24800	35	2000	8.0	2930	30000	
A 55 3_51.0	51.0	55	2000	12.6	2170	26500	27.5	2000	6.3	3050	30000	
A 55 3_64.3	64.3	44	2000	10.0	2230	29000	21.8	2000	5.0	3110	30000	
A 55 3_79.5	79.5	35	2000	8.1	1040	30000	17.6	2000	4.1	2820	30000	
A 55 3_101.4	101.4	27.6	2000	6.4	1340	30000	13.8	2000	3.2	3130	30000	
A 55 3_123.9	123.9	22.6	2000	5.2	1450	30000	11.3	2000	2.6	3230	30000	
A 55 3_132.7	132.7	21.1	2000	4.9	1450	30000	10.6	2000	2.4	3240	30000	
A 55 3_146.8	146.8	19.1	2000	4.4	1610	30000	9.5	2000	2.2	3290	30000	
A 55 3_160.4	160.4	17.5	2000	4.0	1660	30000	8.7	2000	2.0	3300	30000	
A 55 3_175.0	175.0	16.0	2000	3.7	1660	30000	8.0	2000	1.8	3300	30000	
A 55 3_194.2	194.2	14.4	2000	3.3	1710	30000	7.2	2000	1.7	3310	30000	
A 55 4_208.1	208.1	13.5	1600	2.5	1890	30000	6.7	1950	1.5	2200	30000	
A 55 4_262.6	262.6	10.7	1650	2.1	1980	30000	5.3	2000	1.3	2200	30000	
A 55 4_324.7	324.7	8.6	1750	1.8	2030	30000	4.3	2000	1.0	2200	30000	
A 55 4_414.0	414.0	6.8	1850	1.5	2080	30000	3.4	2000	0.80	2200	30000	
A 55 4_505.9	505.9	5.5	1900	1.2	2120	30000	2.8	2000	0.65	2200	30000	
A 55 4_542.0	542.0	5.2	1900	1.2	2140	30000	2.6	2000	0.61	2200	30000	
A 55 4_599.5	599.5	4.7	1950	1.1	2150	30000	2.3	2000	0.55	2200	30000	
A 55 4_655.1	655.1	4.3	1950	1.0	2180	30000	2.1	2000	0.50	2200	30000	
A 55 4_714.7	714.7	3.9	1950	0.90	2200	30000	2.0	2000	0.46	2200	30000	
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A 55

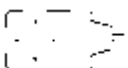
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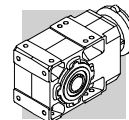
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A 55 2_6.4	6.4	141	1060	16.6	3500	23200	78	1230	10.7	3500	27700	
A 55 2_8.5	8.5	106	1060	12.6	3500	25400	59	1230	8.1	3500	30000	
A 55 2_10.4	10.4	87	1120	10.8	3500	27000	48	1290	6.9	3500	30000	
A 55 2_13.1	13.1	69	1120	8.6	3500	29100	38	1290	5.5	3500	30000	
A 55 2_15.7	15.7	57	1120	7.2	3500	30000	32	1290	4.6	3500	30000	
A 55 2_19.2	19.2	47	1230	6.4	3500	30000	26.0	1420	4.1	3500	30000	
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A 55 3_64.3	64.3	14.0	2000	3.2	3500	30000	7.8	2000	1.8	3500	30000	
A 55 3_79.5	79.5	11.3	2000	2.6	3500	30000	6.3	2000	1.4	3500	30000	
A 55 3_101.4	101.4	8.9	2000	2.0	3500	30000	4.9	2000	1.1	3500	30000	
A 55 3_123.9	123.9	7.3	2000	1.7	3500	30000	4.0	2000	0.93	3500	30000	
A 55 3_132.7	132.7	6.8	2000	1.6	3500	30000	3.8	2000	0.87	3500	30000	
A 55 3_146.8	146.8	6.1	2000	1.4	3500	30000	3.4	2000	0.78	3500	30000	
A 55 3_160.4	160.4	5.6	2000	1.3	3500	30000	3.1	2000	0.72	3500	30000	
A 55 3_175.0	175.0	5.1	2000	1.2	3500	30000	2.9	2000	0.66	3500	30000	
A 55 3_194.2	194.2	4.6	2000	1.1	3500	30000	2.6	2000	0.59	3500	30000	
A 55 4_208.1	208.1	4.3	2000	1.0	2200	30000	2.4	2000	0.57	2200	30000	
A 55 4_262.6	262.6	3.4	2000	0.81	2200	30000	1.9	2000	0.45	2200	30000	
A 55 4_324.7	324.7	2.8	2000	0.65	2200	30000	1.5	2000	0.36	2200	30000	
A 55 4_414.0	414.0	2.2	2000	0.51	2200	30000	1.2	2000	0.28	2200	30000	
A 55 4_505.9	505.9	1.8	2000	0.42	2200	30000	1.0	2000	0.23	2200	30000	
A 55 4_542.0	542.0	1.7	2000	0.39	2200	30000	0.92	2000	0.22	2200	30000	
A 55 4_599.5	599.5	1.5	2000	0.35	2200	30000	0.83	2000	0.20	2200	30000	
A 55 4_655.1	655.1	1.4	2000	0.32	2200	30000	0.76	2000	0.18	2200	30000	
A 55 4_714.7	714.7	1.3	2000	0.30	2200	30000	0.70	2000	0.16	2200	30000	
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A 60

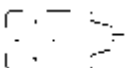
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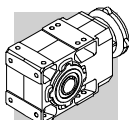
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A 60 2_10.3	10.3	271	950	29	2970	24600	136	1200	18.1	3740	30000	
A 60 2_12.7	12.7	220	1000	25	3020	26200	110	1250	15.3	3810	30000	
A 60 2_16.7	16.7	167	1050	19.6	3080	28600	84	1300	12.1	3910	30000	
A 60 2_20.6	20.6	136	1100	16.7	3100	30000	68	1400	10.6	3890	30000	
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A 60 3_45.2	45.2	62	2800	20	3060	30000	31	2800	10.0	4200	30000	
A 60 3_51.3	51.3	55	2800	17.6	3030	30000	27.3	2800	8.8	4180	30000	
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A 60 3_70.4	70.4	40	2800	12.8	3210	30000	19.9	2800	6.4	4360	30000	
A 60 3_79.7	79.7	35	2800	11.3	3160	30000	17.6	2800	5.7	4310	30000	
A 60 3_86.4	86.4	32	2800	10.4	3260	30000	16.2	2800	5.2	4410	30000	
A 60 3_99.5	99.5	28.1	2800	9.1	3210	30000	14.1	2800	4.5	4360	30000	
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A 60 3_156.0	156.0	17.9	2800	5.8	3360	30000	9.0	2800	2.9	4510	30000	
A 60 3_171.5	171.5	16.3	2800	5.3	3290	30000	8.2	2800	2.6	4430	30000	
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A 60 4_286.3	286.3	9.8	2800	3.2	2900	30000	4.9	2800	1.6	3500	30000	
A 60 4_324.2	324.2	8.6	2800	2.8	2960	30000	4.3	2800	1.4	3500	30000	
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A 60 4_404.7	404.7	6.9	2800	2.3	3050	30000	3.5	2800	1.1	3500	30000	
A 60 4_438.4	438.4	6.4	2800	2.1	3070	30000	3.2	2800	1.1	3500	30000	
A 60 4_500.3	500.3	5.6	2800	1.8	3110	30000	2.8	2800	0.92	3500	30000	
A 60 4_542.0	542.0	5.2	2800	1.7	3140	30000	2.6	2800	0.85	3500	30000	
A 60 4_585.8	585.8	4.8	2800	1.6	3150	30000	2.4	2800	0.79	3500	30000	
A 60 4_634.6	634.6	4.4	2800	1.5	3170	30000	2.2	2800	0.73	3500	30000	
A 60 4_697.3	697.3	4.0	2800	1.3	3190	30000	2.0	2800	0.66	3500	30000	
A 60 4_755.4	755.4	3.7	2800	1.2	3210	30000	1.9	2800	0.61	3500	30000	



A 60

2800 Nm

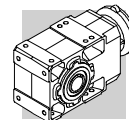
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		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
A 60 2_7.9	7.9	114	1300	16.6	4190	30000	64	1550	11.0	4700	30000	331
A 60 2_10.3	10.3	87	1300	12.6	4470	30000	48	1550	8.4	4700	30000	
A 60 2_12.7	12.7	71	1400	11.0	4490	30000	39	1700	7.5	4700	30000	
A 60 2_16.7	16.7	54	1450	8.7	4610	30000	29.9	1700	5.7	4700	30000	
A 60 2_20.6	20.6	44	1550	7.5	4600	30000	24.3	1800	4.9	4700	30000	
A 60 3_25.7	25.7	35	2800	11.3	4680	30000	19.4	2800	6.3	4700	30000	
A 60 3_27.9	27.9	32	2800	10.4	4700	30000	18.0	2800	5.8	4700	30000	
A 60 3_31.7	31.7	28.4	2800	9.2	4700	30000	15.8	2800	5.1	4700	30000	
A 60 3_34.3	34.3	26.2	2800	8.5	4700	30000	14.6	2800	4.7	4700	30000	
A 60 3_41.7	41.7	21.6	2800	7.0	4700	30000	12.0	2800	3.9	4700	30000	
A 60 3_45.2	45.2	19.9	2800	6.4	4700	30000	11.1	2800	3.6	4700	30000	
A 60 3_51.3	51.3	17.5	2800	5.6	4700	30000	9.7	2800	3.1	4700	30000	
A 60 3_55.6	55.6	16.2	2800	5.2	4700	30000	9.0	2800	2.9	4700	30000	
A 60 3_65.0	65.0	13.8	2800	4.5	4700	30000	7.7	2800	2.5	4700	30000	
A 60 3_70.4	70.4	12.8	2800	4.1	4700	30000	7.1	2800	2.3	4700	30000	
A 60 3_79.7	79.7	11.3	2800	3.6	4700	30000	6.3	2800	2.0	4700	30000	
A 60 3_86.4	86.4	10.4	2800	3.4	4700	30000	5.8	2800	1.9	4700	30000	
A 60 3_99.5	99.5	9.0	2800	2.9	4700	30000	5.0	2800	1.6	4700	30000	
A 60 3_107.8	107.8	8.3	2800	2.7	4700	30000	4.6	2800	1.5	4700	30000	
A 60 3_123.0	123.0	7.3	2800	2.4	4700	30000	4.1	2800	1.3	4700	30000	
A 60 3_133.3	133.3	6.8	2800	2.2	4700	30000	3.8	2800	1.2	4700	30000	
A 60 3_144.0	144.0	6.2	2800	2.0	4700	30000	3.5	2800	1.1	4700	30000	
A 60 3_156.0	156.0	5.8	2800	1.9	4700	30000	3.2	2800	1.0	4700	30000	
A 60 3_171.5	171.5	5.2	2800	1.7	4700	30000	2.9	2800	0.94	4700	30000	
A 60 3_185.8	185.8	4.8	2800	1.6	4700	30000	2.7	2800	0.87	4700	30000	
A 60 4_208.7	208.7	4.3	2800	1.4	3500	30000	2.4	2800	0.79	3500	30000	
A 60 4_226.1	226.1	4.0	2800	1.3	3500	30000	2.2	2800	0.73	3500	30000	
A 60 4_264.3	264.3	3.4	2800	1.1	3500	30000	1.9	2800	0.62	3500	30000	
A 60 4_286.3	286.3	3.1	2800	1.0	3500	30000	1.7	2800	0.58	3500	30000	
A 60 4_324.2	324.2	2.8	2800	0.91	3500	30000	1.5	2800	0.51	3500	30000	
A 60 4_351.2	351.2	2.6	2800	0.84	3500	30000	1.4	2800	0.47	3500	30000	
A 60 4_404.7	404.7	2.2	2800	0.73	3500	30000	1.2	2800	0.41	3500	30000	
A 60 4_438.4	438.4	2.1	2800	0.68	3500	30000	1.1	2800	0.38	3500	30000	
A 60 4_500.3	500.3	1.8	2800	0.59	3500	30000	1.0	2800	0.33	3500	30000	
A 60 4_542.0	542.0	1.7	2800	0.55	3500	30000	0.92	2800	0.30	3500	30000	
A 60 4_585.8	585.8	1.5	2800	0.51	3500	30000	0.85	2800	0.28	3500	30000	
A 60 4_634.6	634.6	1.4	2800	0.47	3500	30000	0.79	2800	0.26	3500	30000	
A 60 4_697.3	697.3	1.3	2800	0.43	3500	30000	0.72	2800	0.24	3500	30000	
A 60 4_755.4	755.4	1.2	2800	0.39	3500	30000	0.66	2800	0.22	3500	30000	



A 70

5000 Nm

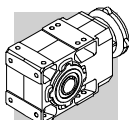
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		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
A 70 3_9.4	9.4	297	2300	79	1900	25900	148	2800	48	2550	31900	335
A 70 3_10.2	10.2	274	2400	76	2480	26400	137	3200	50	1480	31900	
A 70 3_12.1	12.1	232	2400	64	2420	28000	116	3200	43	1400	33900	
A 70 3_13.1	13.1	214	2600	64	2420	28400	107	3350	41	2100	34600	
A 70 3_15.4	15.4	182	2700	56	2100	29900	91	3350	35	2430	36700	
A 70 3_16.7	16.7	168	2850	55	2500	30400	84	3600	35	2590	37200	
A 70 3_19.7	19.7	142	2900	48	2030	32100	71	3700	30	1790	39300	
A 70 3_21.3	21.3	131	3000	45	2750	32900	66	4000	30	1830	39800	
A 70 3_23.5	23.5	119	3500	48	4930	32900	60	4300	30	6250	40500	
A 70 3_27.8	27.8	101	3450	40	4960	35100	50	4200	24	6300	43300	
A 70 3_30.1	30.1	93	3700	40	4970	35600	47	4550	24	6300	43900	
A 70 3_35.4	35.4	79	3650	33	5040	37900	40	4500	21	6370	46600	
A 70 3_38.4	38.4	73	3950	33	5040	38400	36	4850	20	6380	47300	
A 70 3_45.2	45.2	62	3900	28	5050	40800	31	4800	17.1	6400	50000	
A 70 3_49.0	49.0	57	4250	28	5050	41300	28.6	5000	16.4	6450	50000	
A 70 3_53.2	53.2	53	4100	25	5030	42900	26.3	5000	15.1	6380	50000	
A 70 3_57.7	57.7	49	4450	25	5030	43400	24.3	5000	14.0	6490	50000	
A 70 3_66.9	66.9	42	4350	21	5050	46000	20.9	5000	12.0	6480	50000	
A 70 3_72.5	72.5	39	4750	21	5040	46500	19.3	5000	11.1	6580	50000	
A 70 3_79.3	79.3	35	4600	18.7	5020	48400	17.6	5000	10.2	6520	50000	
A 70 3_85.9	85.9	33	4950	18.6	5030	49100	16.3	5000	9.4	6620	50000	
A 70 3_96.2	96.2	29.1	4850	16.2	5000	50000	14.6	5000	8.4	6570	50000	
A 70 3_104.2	104.2	26.9	5000	15.5	5060	50000	13.4	5000	7.7	6660	50000	
A 70 3_120.6	120.6	23.2	5000	13.4	5010	50000	11.6	5000	6.7	6610	50000	
A 70 3_130.7	130.7	21.4	5000	12.3	5100	50000	10.7	5000	6.2	6690	50000	
A 70 3_141.9	141.9	19.7	5000	11.4	5040	50000	9.9	5000	5.7	6640	50000	
A 70 3_153.7	153.7	18.2	3300	6.9	5410	50000	9.1	4050	4.2	6920	50000	
A 70 4_169.8	169.8	16.5	5000	9.7	1130	50000	8.2	5000	4.9	2520	50000	
A 70 4_183.9	183.9	15.2	5000	9.0	1450	50000	7.6	5000	4.5	2670	50000	
A 70 4_220.3	220.3	12.7	5000	7.5	1560	50000	6.4	5000	3.7	2710	50000	
A 70 4_238.6	238.6	11.7	5000	6.9	1860	50000	5.9	5000	3.5	2770	50000	
A 70 4_292.0	292.0	9.6	5000	5.6	1900	50000	4.8	5000	2.8	2790	50000	
A 70 4_316.4	316.4	8.9	5000	5.2	2110	50000	4.4	5000	2.6	2850	50000	
A 70 4_369.4	369.4	7.6	5000	4.5	2110	50000	3.8	5000	2.2	2840	50000	
A 70 4_400.2	400.2	7.0	5000	4.1	2160	50000	3.5	5000	2.1	2900	50000	
A 70 4_475.8	475.8	5.9	5000	3.5	2150	50000	2.9	5000	1.7	2890	50000	
A 70 4_515.4	515.4	5.4	5000	3.2	2200	50000	2.7	5000	1.6	2940	50000	
A 70 4_595.0	595.0	4.7	5000	2.8	2190	50000	2.4	5000	1.4	2920	50000	
A 70 4_644.6	644.6	4.3	5000	2.6	2230	50000	2.2	5000	1.3	2970	50000	
A 70 4_705.1	705.1	4.0	5000	2.3	2200	50000	2.0	5000	1.2	2940	50000	
A 70 4_763.9	763.9	3.7	5000	2.2	2250	50000	1.8	5000	1.1	2990	50000	
A 70 4_855.3	855.3	3.3	5000	1.9	2220	50000	1.6	5000	0.96	2960	50000	
A 70 4_926.5	926.5	3.0	5000	1.8	2270	50000	1.5	5000	0.89	3000	50000	
A 70 4_1072	1072	2.6	5000	1.5	2240	50000	1.3	5000	0.77	2970	50000	
A 70 4_1161	1161	2.4	5000	1.4	2280	50000	1.2	5000	0.71	3020	50000	
A 70 4_1242	1242	2.3	5000	1.3	2250	50000	1.1	5000	0.66	2980	50000	
A 70 4_1346	1346	2.1	5000	1.2	2290	50000	1.0	5000	0.61	3030	50000	
A 70 4_1583	1583	1.8	5000	1.0	2260	50000	0.88	5000	0.52	2990	50000	
A 70 4_1715	1715	1.6	5000	0.96	2300	50000	0.82	5000	0.48	3040	50000	



A 70

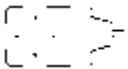
5000 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
A 70 3_9.4	9.4	95	3000	33	4290	36900	53	3000	18.3	7000	45400	335
A 70 3_10.2	10.2	88	3250	33	4290	37400	49	3250	18.3	7000	46100	
A 70 3_12.1	12.1	75	3650	31	1620	38700	41	3650	17.4	6470	47900	
A 70 3_13.1	13.1	69	3950	31	1650	39200	38	3950	17.4	6500	48600	
A 70 3_15.4	15.4	58	3700	25	3510	42200	32	3700	13.8	7000	50000	
A 70 3_16.7	16.7	54	4000	25	3560	42800	30	4000	13.8	7000	50000	
A 70 3_19.7	19.7	46	3700	19.5	4910	46100	25.4	3700	10.8	7000	50000	
A 70 3_21.3	21.3	42	4000	19.4	4950	46800	23.5	4000	10.8	7000	50000	
A 70 3_23.5	23.5	38	4900	21.6	7000	46300	21.3	5000	12.2	7000	50000	
A 70 3_27.8	27.8	32	4800	17.9	7000	49400	18.0	5000	10.4	7000	50000	
A 70 3_30.1	30.1	29.9	5000	17.2	7000	50000	16.6	5000	9.6	7000	50000	
A 70 3_35.4	35.4	25.4	5000	14.6	7000	50000	14.1	5000	8.1	7000	50000	
A 70 3_38.4	38.4	23.4	5000	13.5	7000	50000	13.0	5000	7.5	7000	50000	
A 70 3_45.2	45.2	19.9	5000	11.4	7000	50000	11.1	5000	6.4	7000	50000	
A 70 3_49.0	49.0	18.4	5000	10.6	7000	50000	10.2	5000	5.9	7000	50000	
A 70 3_53.2	53.2	16.9	5000	9.7	7000	50000	9.4	5000	5.4	7000	50000	
A 70 3_57.7	57.7	15.6	5000	9.0	7000	50000	8.7	5000	5.0	7000	50000	
A 70 3_66.9	66.9	13.4	5000	7.7	7000	50000	7.5	5000	4.3	7000	50000	
A 70 3_72.5	72.5	12.4	5000	7.1	7000	50000	6.9	5000	4.0	7000	50000	
A 70 3_79.3	79.3	11.3	5000	6.5	7000	50000	6.3	5000	3.6	7000	50000	
A 70 3_85.9	85.9	10.5	5000	6.0	7000	50000	5.8	5000	3.3	7000	50000	
A 70 3_96.2	96.2	9.4	5000	5.4	7000	50000	5.2	5000	3.0	7000	50000	
A 70 3_104.2	104.2	8.6	5000	5.0	7000	50000	4.8	5000	2.8	7000	50000	
A 70 3_120.6	120.6	7.5	5000	4.3	7000	50000	4.1	5000	2.4	7000	50000	
A 70 3_130.7	130.7	6.9	5000	4.0	7000	50000	3.8	5000	2.2	7000	50000	
A 70 3_141.9	141.9	6.3	5000	3.7	7000	50000	3.5	5000	2.0	7000	50000	
A 70 3_153.7	153.7	5.9	4600	3.1	7000	50000	3.3	5000	1.9	7000	50000	
A 70 4_169.8	169.8	5.3	5000	3.1	3170	50000	2.9	5000	1.7	3500	50000	
A 70 4_183.9	183.9	4.9	5000	2.9	3240	50000	2.7	5000	1.6	3500	50000	
A 70 4_220.3	220.3	4.1	5000	2.4	3270	50000	2.3	5000	1.3	3500	50000	
A 70 4_238.6	238.6	3.8	5000	2.2	3340	50000	2.1	5000	1.2	3500	50000	
A 70 4_292.0	292.0	3.1	5000	1.8	3350	50000	1.7	5000	1.0	3500	50000	
A 70 4_316.4	316.4	2.8	5000	1.7	3410	50000	1.6	5000	0.93	3500	50000	
A 70 4_369.4	369.4	2.4	5000	1.4	3410	50000	1.4	5000	0.80	3500	50000	
A 70 4_400.2	400.2	2.2	5000	1.3	3460	50000	1.2	5000	0.74	3500	50000	
A 70 4_475.8	475.8	1.9	5000	1.1	3450	50000	1.1	5000	0.62	3500	50000	
A 70 4_515.4	515.4	1.7	5000	1.0	3500	50000	0.97	5000	0.57	3500	50000	
A 70 4_595.0	595.0	1.5	5000	0.89	3480	50000	0.84	5000	0.49	3500	50000	
A 70 4_644.6	644.6	1.4	5000	0.82	3500	50000	0.78	5000	0.46	3500	50000	
A 70 4_705.1	705.1	1.3	5000	0.75	3500	50000	0.71	5000	0.42	3500	50000	
A 70 4_763.9	763.9	1.2	5000	0.69	3500	50000	0.65	5000	0.39	3500	50000	
A 70 4_855.3	855.3	1.1	5000	0.62	3500	50000	0.58	5000	0.34	3500	50000	
A 70 4_926.5	926.5	0.97	5000	0.57	3500	50000	0.54	5000	0.32	3500	50000	
A 70 4_1072	1072	0.84	5000	0.49	3500	50000	0.47	5000	0.27	3500	50000	
A 70 4_1161	1161	0.77	5000	0.46	3500	50000	0.43	5000	0.25	3500	50000	
A 70 4_1242	1242	0.72	5000	0.43	3500	50000	0.40	5000	0.24	3500	50000	
A 70 4_1346	1346	0.67	5000	0.39	3500	50000	0.37	5000	0.22	3500	50000	
A 70 4_1583	1583	0.57	5000	0.33	3500	50000	0.32	5000	0.19	3500	50000	
A 70 4_1715	1715	0.52	5000	0.31	3500	50000	0.29	5000	0.17	3500	50000	

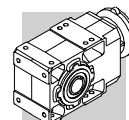


A 80

8000 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
A 80 3_9.8	9.8	285	3100	102	—	26300	142	3900	64	—	32100	338
A 80 3_10.7	10.7	263	3450	104	—	26300	131	4300	65	—	32300	
A 80 3_12.3	12.3	228	3450	91	—	27700	114	4300	56	—	34000	
A 80 3_13.3	13.3	211	3450	84	1150	28700	105	4300	52	1150	35200	
A 80 3_15.5	15.5	181	3300	69	1560	30600	91	4100	43	1730	37600	
A 80 3_16.7	16.7	167	3600	69	1440	30900	84	4500	43	1460	37900	
A 80 3_19.3	19.3	145	3500	58	1870	32800	72	4400	37	1880	40200	
A 80 3_20.9	20.9	134	3840	59	1670	33100	67	4800	37	1740	40600	
A 80 3_22.6	22.6	124	5050	72	4500	31200	62	6250	45	5830	38400	
A 80 3_24.5	24.5	114	5500	72	4470	31300	57	6750	44	5840	38600	
A 80 3_28.2	28.2	99	5350	61	4700	33500	50	6600	38	5960	41200	
A 80 3_30.6	30.6	92	5250	55	4840	34900	46	6450	34	6140	43000	
A 80 3_35.5	35.5	79	5700	52	4700	36000	39	7000	32	6000	44300	
A 80 3_38.5	38.5	73	6150	51	4720	36200	36	7600	32	6000	44500	
A 80 3_44.5	44.5	63	6050	44	4790	38600	31	7450	27	6070	47500	
A 80 3_48.2	48.2	58	6550	44	4790	38800	29.1	8000	27	6090	47900	
A 80 3_55.2	55.2	51	6400	37	4710	41300	25.4	7900	23	6050	50800	
A 80 3_59.8	59.8	47	6950	37	4690	41500	23.4	8000	22	6170	52300	
A 80 3_66.8	66.8	42	6800	33	4670	43700	21.0	8000	19.3	6150	54600	
A 80 3_72.4	72.4	39	7350	33	4680	44000	19.3	8000	17.8	6280	56500	
A 80 3_82.3	82.3	34	7200	28	4570	46600	17.0	8000	15.7	6230	59300	
A 80 3_89.2	89.2	31	7800	28	4570	46900	15.7	8000	14.5	6350	61400	
A 80 3_96.0	96.0	29.2	7500	25	4410	48900	14.6	8000	13.4	6260	63000	
A 80 3_104.0	104.0	26.9	8000	25	4500	49500	13.5	8000	12.4	6380	65000	
A 80 3_116.0	116.0	24.1	7950	22	4230	51700	12.1	8000	11.1	6300	65000	
A 80 3_125.6	125.6	22.3	8000	21	4630	53400	11.1	8000	10.3	6420	65000	
A 80 3_144.7	144.7	19.3	8000	17.8	4320	56400	9.7	8000	8.9	6350	65000	
A 80 3_156.8	156.8	17.9	8000	16.4	4750	58300	8.9	8000	8.2	6460	65000	
A 80 4_171.3	171.3	16.3	8000	15.4	—	65000	8.2	8000	7.7	1230	65000	
A 80 4_214.7	214.7	13.0	8000	12.3	—	65000	6.5	8000	6.1	1400	65000	
A 80 4_232.6	232.6	12.0	8000	11.3	—	65000	6.0	8000	5.7	1810	65000	
A 80 4_277.3	277.3	10.1	8000	9.5	540	65000	5.0	8000	4.8	1930	65000	
A 80 4_300.4	300.4	9.3	8000	8.8	900	65000	4.7	8000	4.4	2290	65000	
A 80 4_354.0	354.0	7.9	8000	7.4	800	65000	4.0	8000	3.7	2190	65000	
A 80 4_383.5	383.5	7.3	8000	6.9	1140	65000	3.7	8000	3.4	2530	65000	
A 80 4_442.1	442.1	6.3	8000	6.0	1040	65000	3.2	8000	3.0	2430	65000	
A 80 4_478.9	478.9	5.8	8000	5.5	1370	65000	2.9	8000	2.8	2670	65000	
A 80 4_560.5	560.5	5.0	8000	4.7	1240	65000	2.5	8000	2.4	2630	65000	
A 80 4_607.2	607.2	4.6	8000	4.3	1550	65000	2.3	8000	2.2	2720	65000	
A 80 4_703.5	703.5	4.0	8000	3.7	1440	65000	2.0	8000	1.9	2690	65000	
A 80 4_762.1	762.1	3.7	8000	3.5	1730	65000	1.8	8000	1.7	2760	65000	
A 80 4_829.5	829.5	3.4	8000	3.2	1530	65000	1.7	8000	1.6	2720	65000	
A 80 4_898.7	898.7	3.1	8000	2.9	1820	65000	1.6	8000	1.5	2780	65000	
A 80 4_1001	1001	2.8	8000	2.6	1620	65000	1.4	8000	1.3	2740	65000	
A 80 4_1085	1085	2.6	8000	2.4	1900	65000	1.3	8000	1.2	2800	65000	
A 80 4_1237	1237	2.3	8000	2.1	1660	65000	1.1	8000	1.1	2750	65000	
A 80 4_1340	1340	2.1	8000	2.0	1940	65000	1.0	8000	0.98	2810	65000	
A 80 4_1438	1438	1.9	8000	1.8	1730	65000	0.97	8000	0.92	2770	65000	
A 80 4_1558	1558	1.8	8000	1.7	2000	65000	0.90	8000	0.85	2830	65000	

(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)

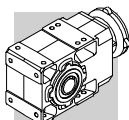


A 80

8000 Nm

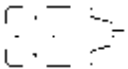
	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
A 80 3_9.8	9.8	92	4450	47	—	36700	51	5300	31	—	43800	338
A 80 3_10.7	10.7	84	4900	48	—	36900	47	5850	32	—	44000	
A 80 3_12.3	12.3	73	4900	41	—	38900	41	5850	27	—	46400	
A 80 3_13.3	13.3	68	4900	38	1360	40200	38	5850	25	1600	47900	
A 80 3_15.5	15.5	58	4650	31	2130	43000	32	5550	21	2530	51300	
A 80 3_16.7	16.7	54	5100	32	1840	43400	29.9	6100	21	2120	51700	
A 80 3_19.3	19.3	47	5000	27	2260	46000	25.9	6000	17.9	2530	54800	
A 80 3_20.9	20.9	43	5470	27	2030	46400	23.9	6500	17.9	2530	55400	
A 80 3_22.6	22.6	40	7100	33	6810	43900	22.1	8000	20.4	7000	53400	
A 80 3_24.5	24.5	37	7700	33	6800	44100	20.4	8000	18.8	7000	55300	
A 80 3_28.2	28.2	32	7550	28	6940	47000	17.7	8000	16.3	7000	58400	
A 80 3_30.6	30.6	29.4	7400	25	7000	49000	16.4	8000	15.1	7000	60400	
A 80 3_35.5	35.5	25.3	8000	23	6980	50600	14.1	8000	13.0	7000	63900	
A 80 3_38.5	38.5	23.4	8000	22	7000	52400	13.0	8000	12.0	7000	65000	
A 80 3_44.5	44.5	20.2	8000	18.6	7000	55400	11.2	8000	10.3	7000	65000	
A 80 3_48.2	48.2	18.7	8000	17.2	7000	57300	10.4	8000	9.6	7000	65000	
A 80 3_55.2	55.2	16.3	8000	15.0	7000	60300	9.1	8000	8.3	7000	65000	
A 80 3_59.8	59.8	15.1	8000	13.9	7000	62300	8.4	8000	7.7	7000	65000	
A 80 3_66.8	66.8	13.5	8000	12.4	7000	65000	7.5	8000	6.9	7000	65000	
A 80 3_72.4	72.4	12.4	8000	11.4	7000	65000	6.9	8000	6.4	7000	65000	
A 80 3_82.3	82.3	10.9	8000	10.1	7000	65000	6.1	8000	5.6	7000	65000	
A 80 3_89.2	89.2	10.1	8000	9.3	7000	65000	5.6	8000	5.2	7000	65000	
A 80 3_96.0	96.0	9.4	8000	8.6	7000	65000	5.2	8000	4.8	7000	65000	
A 80 3_104.0	104.0	8.7	8000	8.0	7000	65000	4.8	8000	4.4	7000	65000	
A 80 3_116.0	116.0	7.8	8000	7.1	7000	65000	4.3	8000	4.0	7000	65000	
A 80 3_125.6	125.6	7.2	8000	6.6	7000	65000	4.0	8000	3.7	7000	65000	
A 80 3_144.7	144.7	6.2	8000	5.7	7000	65000	3.5	8000	3.2	7000	65000	
A 80 3_156.8	156.8	5.7	8000	5.3	7000	65000	3.2	8000	2.9	7000	65000	
A 80 4_171.3	171.3	5.3	8000	4.9	2300	65000	2.9	8000	2.7	3500	65000	
A 80 4_214.7	214.7	4.2	8000	3.9	2470	65000	2.3	8000	2.2	3500	65000	
A 80 4_232.6	232.6	3.9	8000	3.6	2870	65000	2.1	8000	2.0	3500	65000	
A 80 4_277.3	277.3	3.2	8000	3.1	3000	65000	1.8	8000	1.7	3500	65000	
A 80 4_300.4	300.4	3.0	8000	2.8	3120	65000	1.7	8000	1.6	3500	65000	
A 80 4_354.0	354.0	2.5	8000	2.4	3100	65000	1.4	8000	1.3	3500	65000	
A 80 4_383.5	383.5	2.3	8000	2.2	3180	65000	1.3	8000	1.2	3500	65000	
A 80 4_442.1	442.1	2.0	8000	1.9	3160	65000	1.1	8000	1.1	3500	65000	
A 80 4_478.9	478.9	1.9	8000	1.8	3230	65000	1.0	8000	0.98	3500	65000	
A 80 4_560.5	560.5	1.6	8000	1.5	3210	65000	0.89	8000	0.84	3500	65000	
A 80 4_607.2	607.2	1.5	8000	1.4	3280	65000	0.82	8000	0.78	3500	65000	
A 80 4_703.5	703.5	1.3	8000	1.2	3260	65000	0.71	8000	0.67	3500	65000	
A 80 4_762.1	762.1	1.2	8000	1.1	3320	65000	0.66	8000	0.62	3500	65000	
A 80 4_829.5	829.5	1.1	8000	1.0	3280	65000	0.60	8000	0.57	3500	65000	
A 80 4_898.7	898.7	1.0	8000	0.94	3340	65000	0.56	8000	0.52	3500	65000	
A 80 4_1001	1001	0.90	8000	0.85	3300	65000	0.50	8000	0.47	3500	65000	
A 80 4_1085	1085	0.83	8000	0.78	3360	65000	0.46	8000	0.43	3500	65000	
A 80 4_1237	1237	0.73	8000	0.68	3310	65000	0.40	8000	0.38	3500	65000	
A 80 4_1340	1340	0.67	8000	0.63	3370	65000	0.37	8000	0.35	3500	65000	
A 80 4_1438	1438	0.63	8000	0.59	3330	65000	0.35	8000	0.33	3500	65000	
A 80 4_1558	1558	0.58	8000	0.54	3390	65000	0.32	8000	0.30	3500	65000	

(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)

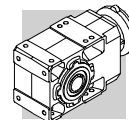


A 90

14000 Nm

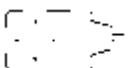
	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
A 90 3_9.7	9.7	289	7800	260	2440	27600	145	9050	151	5520	35000	341
A 90 3_10.5	10.5	267	8350	257	2620	27700	134	9800	151	5530	34900	
A 90 3_12.6	12.6	221	8500	217	2700	29800	111	10450	133	4790	36700	
A 90 3_13.7	13.7	204	8050	189	4670	31800	102	11150	131	5060	36900	
A 90 3_15.6	15.6	180	8900	184	3240	32000	90	10950	113	5410	39400	
A 90 3_16.9	16.9	166	9650	184	3230	31900	83	11850	113	5440	39300	
A 90 3_19.4	19.4	144	9400	156	3160	34300	72	11550	96	5350	42300	
A 90 3_21.0	21.0	133	10150	156	3210	34300	67	12400	95	5510	42400	
A 90 3_22.3	22.3	126	9850	143	9660	35700	63	12150	88	12200	43900	
A 90 3_24.1	24.1	116	10700	143	9660	35500	58	13150	88	12200	43800	
A 90 3_29.1	29.1	96	10550	117	9800	38900	48	13000	72	12400	47900	
A 90 3_31.5	31.5	89	11450	117	9800	38800	44	14000	72	12400	47900	
A 90 3_35.8	35.8	78	11150	100	9910	41600	39	13750	62	12500	51100	
A 90 3_38.8	38.8	72	12100	100	9900	41500	36	14000	58	12700	52700	
A 90 3_44.6	44.6	63	11800	85	9920	44600	31	14000	51	12700	56000	
A 90 3_48.3	48.3	58	12800	85	9920	44500	29.0	14000	47	12800	58000	
A 90 3_55.0	55.0	51	12550	73	9960	47500	25.4	14000	41	12800	61400	
A 90 3_59.6	59.6	47	13550	73	9970	47500	23.5	14000	38	13000	63500	
A 90 3_68.8	68.8	41	13350	63	9960	50900	20.4	14000	33	13000	67400	
A 90 3_74.5	74.5	38	14000	61	10000	51700	18.8	14000	30	13100	69700	
A 90 3_80.4	80.4	35	13900	56	9920	53500	17.4	14000	28	13000	71900	
A 90 3_87.1	87.1	32	14000	52	10100	55500	16.1	14000	26	13200	74300	
A 90 3_98.6	98.6	28.4	14000	46	9990	58500	14.2	14000	23	13100	75000	
A 90 3_106.8	106.8	26.2	14000	42	10100	60600	13.1	14000	21	13300	75000	
A 90 3_116.9	116.9	24.0	14000	39	10100	63000	12.0	14000	19.3	13200	75000	
A 90 3_126.6	126.6	22.1	10650	27	10600	71400	11.1	13150	16.7	13400	75000	
A 90 3_139.4	139.4	20.1	10350	24	10600	74500	10.0	12750	14.7	13400	75000	
A 90 3_151.0	151.0	18.5	11200	24	10600	75000	9.3	13800	14.7	13400	75000	
A 90 4_166.1	166.1	16.9	14000	28	—	75000	8.4	14000	13.9	—	75000	
A 90 4_180.0	180.0	15.6	14000	26	—	75000	7.8	14000	12.8	—	75000	
A 90 4_209.0	209.0	13.4	14000	22	—	75000	6.7	14000	11.0	—	75000	
A 90 4_226.4	226.4	12.4	14000	20	—	75000	6.2	14000	10.2	—	75000	
A 90 4_281.4	281.4	9.9	14000	16.4	—	75000	5.0	14000	8.2	—	75000	
A 90 4_304.9	304.9	9.2	14000	15.1	—	75000	4.6	14000	7.6	—	75000	
A 90 4_355.8	355.8	7.9	14000	13.0	—	75000	3.9	14000	6.5	—	75000	
A 90 4_385.4	385.4	7.3	14000	12.0	—	75000	3.6	14000	6.0	680	75000	
A 90 4_449.2	449.2	6.2	14000	10.3	—	75000	3.1	14000	5.1	—	75000	
A 90 4_486.6	486.6	5.8	14000	9.5	—	75000	2.9	14000	4.7	950	75000	
A 90 4_555.3	555.3	5.0	14000	8.3	—	75000	2.5	14000	4.2	740	75000	
A 90 4_601.6	601.6	4.7	14000	7.7	—	75000	2.3	14000	3.8	1200	75000	
A 90 4_707.9	707.9	4.0	14000	6.5	—	75000	2.0	14000	3.3	1050	75000	
A 90 4_766.9	766.9	3.7	14000	6.0	—	75000	1.8	14000	3.0	1490	75000	
A 90 4_865.1	865.1	3.2	14000	5.3	—	75000	1.6	14000	2.7	1170	75000	
A 90 4_937.2	937.2	3.0	14000	4.9	—	75000	1.5	14000	2.5	1590	75000	
A 90 4_1025	1025	2.7	14000	4.5	—	75000	1.4	14000	2.2	1330	75000	
A 90 4_1111	1111	2.5	14000	4.2	—	75000	1.3	14000	2.1	1740	75000	
A 90 4_1222	1222	2.3	14000	3.8	—	75000	1.1	14000	1.9	1380	75000	
A 90 4_1324	1324	2.1	14000	3.5	—	75000	1.1	14000	1.7	1790	75000	
A 90 4_1507	1507	1.9	14000	3.1	—	75000	0.93	14000	1.5	1440	75000	
A 90 4_1632	1632	1.7	14000	2.8	—	75000	0.86	14000	1.4	1840	75000	

(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)

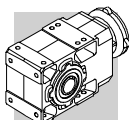


A 90

14000 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
A 90 3_9.7	9.7	93	9050	97	9800	42300	52	9050	54	15000	53700	341
A 90 3_10.5	10.5	86	9800	97	9810	42500	48	9800	54	15000	54200	
A 90 3_12.6	12.6	71	11800	97	6720	42100	40	11800	54	13500	54500	
A 90 3_13.7	13.7	66	12750	96	6770	42100	37	12800	54	13500	54600	
A 90 3_15.6	15.6	58	11550	77	8730	46700	32	11550	43	15000	59900	
A 90 3_16.9	16.9	53	12500	77	8750	46800	29.6	12500	43	15000	60300	
A 90 3_19.4	19.4	46	11550	62	9630	51400	25.8	11550	34	15000	65400	
A 90 3_21.0	21.0	43	12400	61	9790	51700	23.8	12400	34	15000	66100	
A 90 3_22.3	22.3	40	13850	64	14200	50200	22.5	14000	36	15000	64700	
A 90 3_24.1	24.1	37	14000	60	14400	51900	20.7	14000	33	15000	66900	
A 90 3_29.1	29.1	31	14000	50	14600	56200	17.2	14000	28	15000	72100	
A 90 3_31.5	31.5	28.6	14000	46	14800	58400	15.9	14000	26	15000	74700	
A 90 3_35.8	35.8	25.1	14000	40	14900	61700	14.0	14000	23	15000	75000	
A 90 3_38.8	38.8	23.2	14000	37	15000	63900	12.9	14000	21	15000	75000	
A 90 3_44.6	44.6	20.2	14000	33	15000	67700	11.2	14000	18.1	15000	75000	
A 90 3_48.3	48.3	18.6	14000	30	15000	70000	10.4	14000	16.7	15000	75000	
A 90 3_55.0	55.0	16.4	14000	26	15000	73800	9.1	14000	14.6	15000	75000	
A 90 3_59.6	59.6	15.1	14000	24	15000	75000	8.4	14000	13.5	15000	75000	
A 90 3_68.8	68.8	13.1	14000	21	15000	75000	7.3	14000	11.7	15000	75000	
A 90 3_74.5	74.5	12.1	14000	19.5	15000	75000	6.7	14000	10.8	15000	75000	
A 90 3_80.4	80.4	11.2	14000	18.0	15000	75000	6.2	14000	10.0	15000	75000	
A 90 3_87.1	87.1	10.3	14000	16.7	15000	75000	5.7	14000	9.3	15000	75000	
A 90 3_98.6	98.6	9.1	14000	14.7	15000	75000	5.1	14000	8.2	15000	75000	
A 90 3_106.8	106.8	8.4	14000	13.6	15000	75000	4.7	14000	7.5	15000	75000	
A 90 3_116.9	116.9	7.7	14000	12.4	15000	75000	4.3	14000	6.9	15000	75000	
A 90 3_126.6	126.6	7.1	14000	11.4	15000	75000	3.9	14000	6.4	15000	75000	
A 90 3_139.4	139.4	6.5	14000	10.4	15000	75000	3.6	14000	5.8	15000	75000	
A 90 3_151.0	151.0	6.0	14000	9.6	15000	75000	3.3	14000	5.3	15000	75000	
A 90 4_166.1	166.1	5.4	14000	8.9	—	75000	3.0	14000	5.0	700	75000	
A 90 4_180.0	180.0	5.0	14000	8.2	—	75000	2.8	14000	4.6	1400	75000	
A 90 4_209.0	209.0	4.3	14000	7.1	—	75000	2.4	14000	3.9	1500	75000	
A 90 4_226.4	226.4	4.0	14000	6.5	500	75000	2.2	14000	3.6	2100	75000	
A 90 4_281.4	281.4	3.2	14000	5.3	690	75000	1.8	14000	2.9	2300	75000	
A 90 4_304.9	304.9	3.0	14000	4.9	1230	75000	1.6	14000	2.7	2900	75000	
A 90 4_355.8	355.8	2.5	14000	4.2	1240	75000	1.4	14000	2.3	2900	75000	
A 90 4_385.4	385.4	2.3	14000	3.8	1750	75000	1.3	14000	2.1	3400	75000	
A 90 4_449.2	449.2	2.0	14000	3.3	1540	75000	1.1	14000	1.8	3200	75000	
A 90 4_486.6	486.6	1.8	14000	3.0	2020	75000	1.0	14000	1.7	3500	75000	
A 90 4_555.3	555.3	1.6	14000	2.7	1810	75000	0.90	14000	1.5	3500	75000	
A 90 4_601.6	601.6	1.5	14000	2.5	2270	75000	0.83	14000	1.4	3500	75000	
A 90 4_707.9	707.9	1.3	14000	2.1	2120	75000	0.71	14000	1.2	3500	75000	
A 90 4_766.9	766.9	1.2	14000	1.9	2560	75000	0.65	14000	1.1	3500	75000	
A 90 4_865.1	865.1	1.0	14000	1.7	2240	75000	0.58	14000	0.95	3500	75000	
A 90 4_937.2	937.2	0.96	14000	1.6	2660	75000	0.53	14000	0.88	3500	75000	
A 90 4_1025	1025	0.88	14000	1.4	2400	75000	0.49	14000	0.80	3500	75000	
A 90 4_1111	1111	0.81	14000	1.3	2810	75000	0.45	14000	0.74	3500	75000	
A 90 4_1222	1222	0.74	14000	1.2	2450	75000	0.41	14000	0.67	3500	75000	
A 90 4_1324	1324	0.68	14000	1.1	2860	75000	0.38	14000	0.62	3500	75000	
A 90 4_1507	1507	0.60	14000	0.98	2410	75000	0.33	14000	0.55	3500	75000	
A 90 4_1632	1632	0.55	14000	0.91	2910	75000	0.31	14000	0.50	3500	75000	

(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



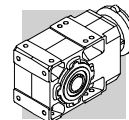
40 PREDISPOSITIONS MOTEUR

Dans les tableaux suivants sont indiqués les accouplements possibles en termes de dimensions.

Le choix le plus approprié de motoréducteur à utiliser, doit être effectué selon les indications du paragraphe 12, ainsi qu'en fonction des tableaux de sélection, en respectant en particulier la condition $S \geq f_s$.

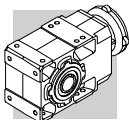
(C 40)

		IEC_     (IM B5)																							
		BN	BE	BX	BXN	BN	BE	BX	BXN	BN	BE	BX	BXN	BN	BE	BX	BXN	BN	BE	BX	BXN	BN	BE	BX	BXN
P _{n1} (#) [kW]	2p	0.37	—	—	—	0.75	—	—	—	1.5	1.1	—	—	2.2	2.2	—	—	4	3	—	—	4	4	—	—
	4p	0.25	0.18	0.25	0.18	0.55	0.37	0.37	0.37	1.1	0.75	0.75	0.75	1.85	1.5	1.5	1.5	3	3	3	3	4	4	4	4
	6p	0.12	—	—	—	0.37	—	—	—	0.75	—	—	—	1.1	0.75	—	—	1.85	1.5	—	—	2.2	2.2	—	—
		P63				P71				P80				P90				P100				P112			
A 05 2		5.5_91.6				5.5_51.3				5.5_51.3															
A 10 2		5.5_91.6				5.5_91.6				5.5_65.9				5.5_65.9				5.5_65.9				5.5_65.9			
A 20 2		7.3_92.3 ⊖(10.3)				7.3_92.3 ⊖(10.3)				5.4_79.9				5.4_79.9				5.4_79.9				5.4_79.9			
A 20 3		109.2_380.9				109.2_380.9				109.2_380.9				109.2_380.9				109.2_380.9				109.2_380.9			
A 30 2		9.3_97.5 ⊖(10.5; 13.6_16.3)				9.3_97.5 ⊖(10.5; 13.6_16.3)				5.4_97.5				5.4_97.5				5.4_97.5				5.4_97.5			
A 30 3		109.1_400.8				109.1_400.8				109.1_400.8				109.1_400.8				109.1_400.8				109.1_400.8			
A 35 2		9.3_95.6 ⊖(13.1_20.4)				9.3_95.6 ⊖(13.1_20.4)				5.4_95.6				5.4_95.6				5.4_95.6				5.4_95.6			
A 35 3		105.5_393.2				105.5_393.2				105.5_393.2				105.5_393.2				105.5_393.2				105.5_393.2			
A 41 2		11.7_79.2 ⊖(13.8_17.8)				11.7_79.2 ⊖(13.8_17.8)				5.2_79.2				5.2_79.2				5.2_79.2				5.2_79.2			
A 41 3		92.8_376.8				92.8_376.8				92.8_376.8				92.8_376.8				92.8_376.8				92.8_376.8			
A 50 2		20.9				20.9				7.7_20.9				7.7_20.9				7.7_20.9				7.7_20.9			
A 50 3		51.7_190.6				51.7_190.6				24.0_190.6				24.0_190.6				24.0_190.6				24.0_190.6			
A 50 4	i =	211.0_778.2				211.0_778.2				211.0_778.2				211.0_778.2				211.0_778.2				211.0_778.2			
A 55 2										13.1_19.2				13.1_19.2				13.1_19.2				13.1_19.2			
A 55 3		64.3_194.2				64.3_194.2				23.8_194.2				23.8_194.2				23.8_194.2				23.8_194.2			
A 55 4		208.1_793.0				208.1_793.0				208.1_793.0				208.1_793.0				208.1_793.0				208.1_793.0			
A 60 2										10.3_20.6				10.3_20.6				10.3_20.6				10.3_20.6			
A 60 3		65.0_185.8				65.0_185.8				25.7_185.8				25.7_185.8				25.7_185.8				25.7_185.8			
A 60 4		208.7_755.4				208.7_755.4				208.7_755.4				208.7_755.4				208.7_755.4				208.7_755.4			
A 70 3										66.9_153.7				66.9_153.7				66.9_153.7				66.9_153.7			
A 70 4		292.0_1715				292.0_1715				169.8_1715				169.8_1715				169.8_1715				169.8_1715			
A 80 3										82.3_156.8				82.3_156.8				82.3_156.8				82.3_156.8			
A 80 4		354.0_1558				354.0_1558				171.3_1558				171.3_1558				171.3_1558				171.3_1558			
A 90 3										98.6_151.0				98.6_151.0				98.6_151.0				98.6_151.0			
A 90 4		449.2_1632				449.2_1632				166.1_1632				166.1_1632				166.1_1632				166.1_1632			



		IEC_     (IM B5)													
		BN	BE	BX	BXN	BN	BE	BX	BN	BE	BX	BN	BX	BX	BX
P_{n1}(#) [kW]	2p	9.2	9.2	—	—	18.5	18.5	—	22	—	—	30	—	—	—
	4p	9.2	9.2	7.5	7.5	15	15	15	22	22	22	30	30	45	55
	6p	5.5	4	—	—	11	7.5	—	15	—	—	18.5	—	—	—
		P132				P160			P180			P200		P225	P250
A 05 2															
A 10 2															
A 20 2															
A 20 3															
A 30 2															
A 30 3															
A 35 2		5.4_11.8													
A 35 3															
A 41 2		5.2_45.1													
A 41 3															
A 50 2		7.7_20.9				7.7_20.9			7.7_20.9						
A 50 3		24.0_109.4				24.0_109.4			24.0_109.4						
A 50 4	i =														
A 55 2		4.9_19.2				4.9_19.2			4.9_19.2						
A 55 3		23.8_123.9				23.8_123.9			23.8_123.9						
A 55 4															
A 60 2		7.9_20.6				7.9_20.6			7.9_20.6						
A 60 3		25.7_133.3				25.7_133.3			25.7_133.3						
A 60 4															
A 70 3		15.4_153.7 ⊖ (23.5_30.1)				9.4_153.7			9.4_153.7			9.4_38.4 ⊖ (19.7_21.3)			
A 70 4		169.8_644.6													
A 80 3		19.3_156.8 ⊖ (22.6_38.5)				12.3_156.8 ⊖ (22.6_24.5)			9.8_156.8			9.8_104.0		9.8_104.0	
A 80 4		171.3_762.1													
A 90 3		55.0_151.0				19.4_151.0 ⊖ (22.3_38.8)			9.7_151.0			9.7_126.6		9.7_126.6	9.7_126.6
A 90 4		166.1_937.2				166.1_937.2			166.1_937.2						

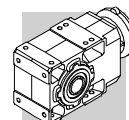
(#) P_{n1} = puissance maximum installable en entrée P_



(C 41)

		<div></div>					
		M05 - ME05 - MXN05	M1 - ME1 - MXN10*	ME2 - MX2 - MXN20*	ME3 - MX4	ME4 - MX4	ME5 - MX5
A 05 2	i =	5.5_91.6	5.5_51.3	5.5_65.9			
A 10 2		5.5_91.6	5.5_51.3	5.5_65.9	5.5_65.9		
A 20 2		7.3_92.3 ⊖ (10.3)	7.3_63.1 ⊖ (10.3)	5.4_79.9	5.4_79.9		
A 20 3		109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9		
A 30 2			9.3_76.5 ⊖ (10.5 ; 13.6_16.3)	5.4_97.5	5.4_97.5		
A 30 3		109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8		
A 35 2			9.3_95.6 ⊖ (13.1_20.4)	5.4_95.6	5.4_95.6	5.4_11.8	
A 35 3		105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2		
A 41 2			11.7_79.2 ⊖ (13.8_17.8)	5.2_79.2	5.2_79.2	5.2_45.1	
A 41 3		92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8		
A 50 2			20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9
A 50 3			51.7_190.6	24.0_190.6	24.0_190.6	24.0_109.4	24.0_109.4
A 50 4			211.0_778.2	211.0_778.2	211.0_778.2		
A 55 2				13.1_19.2	13.1_19.2	4.9_19.2	4.9_19.2
A 55 3			64.3_194.2	23.8_194.2	23.8_194.2	23.8_123.9	23.8_123.9
A 55 4			208.1_793.0	208.1_793.0	208.1_793.0		
A 60 2				10.3_20.6	10.3_20.6	7.9_20.6	7.9_20.6
A 60 3				25.7_185.8	25.7_185.8	25.7_133.3	25.7_133.3
A 60 4			208.7_755.4	208.7_755.4	208.7_755.4		
A 70 3				66.9_153.7	66.9_153.7	15.4_153.7 ⊖ (23.5_30.1)	15.4_153.7 ⊖ (23.5_30.1)
A 70 4			292.0_1715	169.8_1715	169.8_1715	169.8_644.6	
A 80 3					82.3_156.8	19.3_156.8 ⊖ (22.6_38.5)	19.3_156.8 ⊖ (22.6_38.5)
A 80 4			354.0_1558	171.3_1558	171.3_1558	171.3_762.1	
A 90 3					98.6_151.0	55.0_151.0	55.0_151.0
A 90 4			449.2_1632	166.1_1632	166.1_1632	166.1_937.2	

* Le réducteur A 05 2 n'est pas disponible en combinaison avec MXN 10 et MXN 20, mais uniquement avec MXN 05.



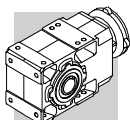
Sont disponibles des prédispositions pour l'accouplement des réducteurs A05...A60 avec les servomoteurs les plus répandus. Les dimensions des brides sont indiquées dans les pages des dimensions de chaque réducteur. Le code **SK** indique un arbre d'entrée muni d'une rainure de clavette ; le code **SC** indique un arbre d'entrée muni d'une frette de serrage (fournie).

(C 42)

		SERVO INPUT					
		SK40A	SK60A	SK60B	SK80A	SK80B	SK80C
		SC40A	SC60A	SC60B	SC80A	SC80B	SC80C
A 05 2	i =	5.5_91.6	5.5_91.6	5.5_51.3	5.5_51.3		
A 10 2			5.5_91.6	5.5_51.3	5.5_51.3		5.5_65.9
A 20 2			7.3_92.3 ● (10.3)	7.3_63.1 ● (10.3)	7.3_63.1 ● (10.3)		5.4_79.9
A 20 3			109.2_380.9	109.2_380.9	109.2_380.9		109.2_380.9
A 30 2			9.3_97.5 ● (10.5 ; 13.6_16.3)	9.3_76.5 ● (10.5 ; 13.6_16.3)	9.3_76.5 ● (10.5 ; 13.6_16.3)		5.4_97.5
A 30 3			109.1_400.8	109.1_400.8	109.1_400.8		109.1_400.8
A 35 2			9.3_95.6 ● (13.1_20.4)	9.3_95.6 ● (13.1_20.4)	9.3_95.6 ● (13.1_20.4)		5.4_95.6
A 35 3			105.5_393.2	105.5_393.2	105.5_393.2		105.5_393.2
A 41 2						11.7_79.2 ● (13.8_17.8)	5.2_79.2
A 41 3			92.8_376.8	92.8_376.8	92.8_376.8		92.8_376.8
A 50 2						20.9	7.7_20.9
A 50 3						51.7_190.6	24.0_190.6
A 50 4							211.0_778.2
A 55 2							13.1_19.2
A 55 3						64.3_194.2	23.8_194.2
A 55 4							208.1_793.0
A 60 2							10.3_20.6
A 60 3							25.7_185.8
A 60 4						208.7_755.4	208.7_755.4

(C 43)

		SERVO INPUT							
		SK95A	SK95B	SK95C	SK110A	SK110B	SK130A	SK130B	SK180A
		SC95A	SC95B	SC95C	SC110A	SC110B	SC130A	SC130B	SC180A
A 10 2	i =	5.5_51.3	5.5_65.9	5.5_65.9	5.5_65.9	5.5_65.9			
A 20 2		7.3_63.1 ● (10.3)	5.4_79.9	5.4_79.9	5.4_79.9	5.4_79.9			
A 20 3		109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9			
A 30 2		9.3_76.5 ● (10.5 ; 13.6_16.3)	5.4_97.5	5.4_97.5	5.4_97.5	5.4_97.5	5.4_97.5		
A 30 3		109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8			
A 35 2		9.3_95.6 ● (13.1_20.4)	5.4_95.6	5.4_95.6	5.4_95.6	5.4_95.6	5.4_95.6		
A 35 3		105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2			
A 41 2		11.7_79.2 ● (13.8_17.8)	5.2_79.2	5.2_79.2	5.2_79.2	5.2_79.2	5.2_79.2	5.2_45.1	5.2_45.1
A 41 3		92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8			
A 50 2		20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9
A 50 3		51.7_190.6	24.0_190.6	24.0_190.6	24.0_190.6	24.0_190.6	24.0_190.6	24.0_109.4	24.0_109.4
A 50 4		211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2		
A 55 2			13.1_19.2	13.1_19.2	13.1_19.2	13.1_19.2	13.1_19.2	4.9_19.2	4.9_19.2
A 55 3			64.3_194.2	23.8_194.2	23.8_194.2	23.8_194.2	23.8_194.2	23.8_123.9	23.8_123.9
A 55 4			208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0		
A 60 2			10.3_20.6	10.3_20.6	10.3_20.6	10.3_20.6	10.3_20.6	7.9_20.6	7.9_20.6
A 60 3			65.0_185.8	25.7_185.8	25.7_185.8	25.7_185.8	25.7_185.8	25.7_133.3	25.7_133.3
A 60 4			208.7_755.4	208.7_755.4	208.7_755.4	208.7_755.4	208.7_755.4		



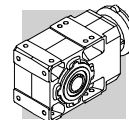
41 MOMENT D'INERTIE

Les tableaux suivants indiquent les valeurs du moment d'inertie J_r [kgm²] au niveau de l'arbre rapide du réducteur ; pour une plus grande facilité de lecture, nous vous prions de noter les définitions des symboles employés.

	Les valeurs liées à ces symboles sont à assigner au réducteur compact sans moteur. Dans ce cas, afin d'avoir le moment d'inertie total du motoréducteur, on devra additionner la valeur correspondant au réducteur compact, à celle du moteur à assembler (donnée que l'on peut repérer dans les tableaux des caractéristiques techniques des moteurs électriques).		Les valeurs liées à ces symboles sont à assigner au réducteur prédisposé pour accouplement moteur seulement (taille IEC...).
	Les valeurs liées au réducteur sont assignées à ce symbole		Les valeurs liées à ces symboles sont à assigner au réducteur prédisposé pour liaison a servo-moteur.

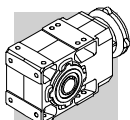
A 05

	i	J (•10 ⁻⁴) [kgm ²]				
			IEC			
			63	71	80	
A 05 2_5.5	5.5	0.72	0.99	1.0	1.4	—
A 05 2_6.3	6.3	0.56	0.83	0.86	1.2	—
A 05 2_7.2	7.2	0.48	0.74	0.77	1.1	—
A 05 2_8.5	8.5	0.36	0.63	0.65	1.0	—
A 05 2_9.6	9.6	0.29	0.55	0.58	0.92	—
A 05 2_10.6	10.6	0.50	0.77	0.80	1.1	—
A 05 2_12.3	12.3	0.18	0.45	0.48	0.82	—
A 05 2_13.9	13.9	0.35	0.62	0.65	0.99	—
A 05 2_16.4	16.4	0.27	0.54	0.57	0.91	—
A 05 2_18.6	18.6	0.22	0.49	0.51	0.86	—
A 05 2_21.4	21.4	0.16	0.43	0.46	0.80	—
A 05 2_23.8	23.8	0.14	0.41	0.43	0.78	—
A 05 2_25.5	25.5	0.13	0.39	0.42	0.76	—
A 05 2_28.6	28.6	0.11	0.38	0.40	0.75	—
A 05 2_32.2	32.2	0.09	0.36	0.39	0.73	—
A 05 2_35.1	35.1	0.08	0.35	0.37	0.72	—
A 05 2_40.9	40.9	0.07	0.33	0.36	0.70	—
A 05 2_45.4	45.4	0.05	0.32	0.35	0.69	—
A 05 2_51.3	51.3	0.04	0.31	0.34	0.68	—
A 05 2_58.6	58.6	0.04	0.31	—	—	—
A 05 2_65.9	65.9	0.03	0.30	—	—	—
A 05 2_76.4	76.4	0.02	0.29	—	—	—
A 05 2_91.6	91.6	0.02	0.28	—	—	—



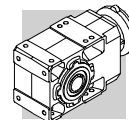
A 05

	i	J ($\cdot 10^{-4}$) [kgm ²]					
		 SERVO					
		40A		60A		60B 80A	
		SK	SC	SK	SC	SK	SC
A 05 2_5.5	5.5	0.89	1.1	0.99	1.3	1.0	1.4
A 05 2_6.3	6.3	0.73	0.89	0.83	1.1	0.86	1.3
A 05 2_7.2	7.2	0.65	0.81	0.74	1.0	0.77	1.2
A 05 2_8.5	8.5	0.53	0.69	0.63	0.89	0.65	1.1
A 05 2_9.6	9.6	0.46	0.62	0.55	0.81	0.58	1.0
A 05 2_10.6	10.6	0.67	0.83	0.77	1.0	0.80	1.2
A 05 2_12.3	12.3	0.35	0.51	0.45	0.71	0.48	0.92
A 05 2_13.9	13.9	0.52	0.68	0.62	0.88	0.65	1.1
A 05 2_16.4	16.4	0.44	0.60	0.54	0.80	0.57	1.0
A 05 2_18.6	18.6	0.39	0.55	0.49	0.75	0.51	0.95
A 05 2_21.4	21.4	0.33	0.49	0.43	0.69	0.46	0.90
A 05 2_23.8	23.8	0.31	0.47	0.41	0.67	0.43	0.87
A 05 2_25.5	25.5	0.30	0.46	0.39	0.65	0.42	0.86
A 05 2_28.6	28.6	0.28	0.44	0.38	0.64	0.40	0.84
A 05 2_32.2	32.2	0.26	0.42	0.36	0.62	0.39	0.83
A 05 2_35.1	35.1	0.25	0.41	0.35	0.61	0.37	0.81
A 05 2_40.9	40.9	0.24	0.40	0.33	0.59	0.36	0.80
A 05 2_45.4	45.4	0.22	0.38	0.32	0.58	0.35	0.79
A 05 2_51.3	51.3	0.21	0.37	0.31	0.57	0.34	0.78
A 05 2_58.6	58.6	0.21	0.37	0.31	0.57	—	—
A 05 2_65.9	65.9	0.20	0.36	0.30	0.56	—	—
A 05 2_76.4	76.4	0.19	0.35	0.29	0.55	—	—
A 05 2_91.6	91.6	0.19	0.35	0.28	0.54	—	—



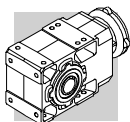
A 10

	i	J (•10 ⁻⁴) [kgm ²]							
			IEC						
			63	71	80	90	100	112	
A 10 2_5.5	5.5	1.0	2.5	2.5	3.9	3.8	5.1	5.1	1.8
A 10 2_6.3	6.3	0.80	2.3	2.3	3.7	3.6	4.9	4.9	1.6
A 10 2_7.2	7.2	0.60	2.1	2.1	3.5	3.4	4.7	4.7	1.5
A 10 2_8.5	8.5	0.45	1.9	1.9	3.3	3.1	4.5	4.5	1.4
A 10 2_9.6	9.6	0.30	1.8	1.8	3.2	3.1	4.4	4.4	1.3
A 10 2_10.6	10.6	0.50	2.0	2.0	3.4	3.3	4.6	4.6	1.4
A 10 2_12.3	12.3	0.20	1.7	1.7	3.1	3.0	4.3	4.3	1.1
A 10 2_13.9	13.9	0.30	1.8	1.8	3.2	3.1	4.6	4.6	1.2
A 10 2_16.4	16.4	0.25	1.7	1.7	3.1	3.0	4.3	4.3	1.1
A 10 2_18.6	18.6	0.20	1.7	1.7	3.1	3.0	4.3	4.3	1.0
A 10 2_21.4	21.4	0.15	1.6	1.6	3.0	2.9	4.2	4.2	1.0
A 10 2_23.8	23.8	0.10	1.6	1.6	3.0	2.9	4.2	4.2	1.0
A 10 2_25.5	25.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	1.0
A 10 2_28.6	28.6	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 10 2_32.2	32.2	0.08	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 10 2_35.1	35.1	0.07	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 10 2_40.9	40.9	0.06	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 10 2_45.4	45.4	0.05	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 10 2_51.3	51.3	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 10 2_58.6	58.6	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 10 2_65.9	65.9	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 10 2_76.4	76.4	0.02	1.5	1.5	—	—	—	—	0.90
A 10 2_91.6	91.6	0.01	1.5	1.5	—	—	—	—	0.90



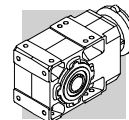
A 10

	i	J (•10 ⁻⁴) [kgm ²]									
		SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 10 2_5.5	5.5	1.3	1.5	1.3	1.7	3.8	4.3	3.9	4.4	3.8	4.8
A 10 2_6.3	6.3	1.1	1.3	1.1	1.5	3.6	4.1	3.7	4.2	3.6	4.6
A 10 2_7.2	7.2	0.87	1.1	0.89	1.3	3.4	3.9	3.5	4.0	3.4	4.4
A 10 2_8.5	8.5	0.72	0.98	0.74	1.2	3.3	3.7	3.3	3.8	3.1	4.1
A 10 2_9.6	9.6	0.57	0.83	0.59	1.0	3.1	3.6	3.2	3.7	3.1	4.1
A 10 2_10.6	10.6	0.77	1.0	0.79	1.2	3.3	3.8	3.4	3.9	3.3	4.3
A 10 2_12.3	12.3	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0
A 10 2_13.9	13.9	0.57	0.83	0.59	1.0	3.1	3.6	3.2	3.7	3.1	4.1
A 10 2_16.4	16.4	0.52	0.78	0.54	0.98	3.1	3.5	3.1	3.6	3.0	4.0
A 10 2_18.6	18.6	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0
A 10 2_21.4	21.4	0.42	0.68	0.44	0.88	3.0	3.4	3.0	3.5	2.9	3.9
A 10 2_23.8	23.8	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 10 2_25.5	25.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 10 2_28.6	28.6	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 10 2_32.2	32.2	0.35	0.61	0.37	0.81	2.9	3.3	3.0	3.5	2.9	3.9
A 10 2_35.1	35.1	0.34	0.60	0.36	0.80	2.9	3.3	3.0	3.5	2.9	3.9
A 10 2_40.9	40.9	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9
A 10 2_45.4	45.4	0.32	0.58	0.34	0.78	2.9	3.3	3.0	3.5	2.9	3.9
A 10 2_51.3	51.3	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
A 10 2_58.6	58.6	0.30	0.56	—	—	—	—	2.9	3.4	2.8	3.8
A 10 2_65.9	65.9	0.29	0.55	—	—	—	—	2.9	3.4	2.8	3.8
A 10 2_76.4	76.4	0.29	0.55	—	—	—	—	—	—	—	—
A 10 2_91.6	91.6	0.28	0.54	—	—	—	—	—	—	—	—



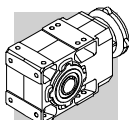
A 20

	i	J (•10 ⁻⁴) [kgm ²]							
			 IEC						
			63	71	80	90	100	112	
A 20 2_5.4	5.4	2.4	—	—	5.3	5.2	6.5	6.5	4.3
A 20 2_6.5	6.5	1.9	—	—	4.8	4.7	6.0	6.0	3.8
A 20 2_7.3	7.3	1.4	2.9	2.9	4.3	4.2	5.5	5.5	3.3
A 20 2_8.4	8.4	1.1	2.6	2.6	4.0	3.9	5.2	5.2	3.0
A 20 2_9.4	9.4	0.90	2.4	2.4	3.8	3.7	5.0	5.0	2.8
A 20 2_10.3	10.3	1.2	—	—	4.1	4.0	5.3	5.3	3.0
A 20 2_12.0	12.0	0.50	2.0	2.0	3.4	3.3	4.6	4.6	2.4
A 20 2_14.1	14.1	0.70	2.2	2.2	3.6	3.5	4.8	4.8	2.6
A 20 2_16.2	16.2	0.55	2.0	2.0	3.4	3.3	4.6	4.6	2.5
A 20 2_18.1	18.1	0.40	1.9	1.9	3.3	3.2	4.5	4.5	2.4
A 20 2_21.2	21.2	0.35	1.8	1.8	3.2	3.1	4.4	4.4	2.3
A 20 2_23.1	23.1	0.30	1.8	1.8	3.2	3.1	4.4	4.4	2.2
A 20 2_26.5	26.5	0.25	1.7	1.7	3.1	3.0	4.3	4.3	2.1
A 20 2_29.2	29.2	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.1
A 20 2_31.3	31.3	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.1
A 20 2_35.4	35.4	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.1
A 20 2_39.6	39.6	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.0
A 20 2_43.2	43.2	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.0
A 20 2_48.3	48.3	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.0
A 20 2_53.7	53.7	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.0
A 20 2_63.1	63.1	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.0
A 20 2_71.0	71.0	0.05	1.5	1.5	2.9	2.8	4.1	4.1	2.0
A 20 2_79.9	79.9	0.03	1.5	1.5	2.9	2.8	4.1	4.1	2.0
A 20 2_92.3	92.3	0.02	1.5	1.5	—	—	—	—	2.0
A 20 3_109.2	109.2	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_120.5	120.5	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_129.1	129.1	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_146.1	146.1	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_163.4	163.4	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_178.3	178.3	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_199.2	199.2	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_221.3	221.3	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_260.5	260.5	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_292.8	292.8	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_329.4	329.4	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_380.9	380.9	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90



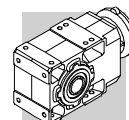
A 20

	i	J (•10 ⁻⁴) [kgm ²]									
		 SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 20 2_5.4	5.4	—	—	—	—	—	—	5.3	5.8	5.2	6.2
A 20 2_6.5	6.5	—	—	—	—	—	—	4.8	5.3	4.7	5.7
A 20 2_7.3	7.3	1.7	1.9	1.7	2.1	4.2	4.7	4.3	4.8	4.2	5.2
A 20 2_8.4	8.4	1.4	1.6	1.4	1.8	3.9	4.6	4.0	4.5	3.9	4.9
A 20 2_9.4	9.4	1.2	1.4	1.2	1.6	3.7	4.2	3.8	4.3	3.7	4.7
A 20 2_10.3	10.3	—	—	—	—	—	—	4.1	4.6	4.0	5.0
A 20 2_12.0	12.0	0.77	1.0	0.79	1.2	3.3	3.8	3.4	3.9	3.3	4.3
A 20 2_14.1	14.1	0.97	1.2	0.99	1.4	3.5	4.0	3.6	4.1	3.5	4.5
A 20 2_16.2	16.2	0.82	1.1	0.84	1.3	3.4	3.8	3.4	3.9	3.3	4.3
A 20 2_18.1	18.1	0.67	0.93	0.69	1.1	3.2	3.7	3.3	3.8	3.2	4.2
A 20 2_21.2	21.2	0.62	0.88	0.64	1.1	3.2	3.6	3.2	3.7	3.1	4.1
A 20 2_23.1	23.1	0.57	0.83	0.59	1.0	3.1	3.6	3.2	3.7	3.1	4.1
A 20 2_26.5	26.5	0.52	0.78	0.54	0.98	3.1	3.5	3.1	3.6	3.0	4.0
A 20 2_29.2	29.2	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0
A 20 2_31.3	31.3	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0
A 20 2_35.4	35.4	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0
A 20 2_39.6	39.6	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 20 2_43.2	43.2	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 20 2_48.3	48.3	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 20 2_53.7	53.7	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 20 2_63.1	63.1	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 20 2_71.0	71.0	0.32	0.58	—	—	—	—	2.9	3.4	2.8	3.8
A 20 2_79.9	79.9	0.30	0.56	—	—	—	—	2.9	3.4	2.8	3.8
A 20 2_92.3	92.3	0.29	0.55	—	—	—	—	—	—	—	—
A 20 3_109.2	109.2	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_120.5	120.5	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_129.1	129.1	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_146.1	146.1	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_163.4	163.4	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_178.3	178.3	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_199.2	199.2	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_221.3	221.3	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_260.5	260.5	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_292.8	292.8	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_329.4	329.4	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_380.9	380.9	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8



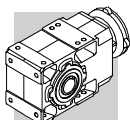
A 30

	i	J (•10 ⁻⁴) [kgm ²]							
			63	71	80	90	100	112	
A 30 2_5.4	5.4	4.5	—	—	7.4	7.3	8.6	8.6	6.9
A 30 2_6.4	6.4	3.4	—	—	6.6	6.6	7.8	7.8	6.0
A 30 2_7.0	7.0	2.9	—	—	5.8	5.8	7.0	7.0	5.2
A 30 2_8.5	8.5	2.2	—	—	5.1	5.1	6.3	6.3	4.6
A 30 2_9.3	9.3	1.6	3.1	3.1	4.5	4.4	5.7	5.7	4.0
A 30 2_10.5	10.5	2.3	—	—	5.2	5.1	6.4	6.4	4.6
A 30 2_11.8	11.8	1.1	2.6	2.6	4.0	3.9	5.2	5.2	3.4
A 30 2_13.6	13.6	1.5	—	—	4.4	4.3	5.6	5.6	3.9
A 30 2_16.3	16.3	1.2	—	—	4.1	4.0	5.3	5.3	3.5
A 30 2_18.0	18.0	0.90	2.4	2.4	3.8	3.7	5.0	5.0	3.2
A 30 2_20.5	20.5	0.70	2.2	2.2	3.6	3.5	4.8	4.8	3.1
A 30 2_22.8	22.8	0.60	2.1	2.1	3.5	3.4	4.7	4.7	3.0
A 30 2_26.5	26.5	0.50	2.0	2.0	3.4	3.3	4.6	4.6	2.9
A 30 2_29.3	29.3	0.40	1.9	1.9	3.3	3.2	4.5	4.5	2.8
A 30 2_33.4	33.4	0.35	1.8	1.8	3.2	3.1	4.4	4.4	2.7
A 30 2_36.6	36.6	0.30	1.8	1.8	3.2	3.1	4.4	4.4	2.7
A 30 2_39.3	39.3	0.25	1.7	1.7	3.1	3.0	4.3	4.3	2.6
A 30 2_43.4	43.4	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.6
A 30 2_48.3	48.3	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.6
A 30 2_52.7	52.7	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.5
A 30 2_59.4	59.4	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.5
A 30 2_66.0	66.0	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.5
A 30 2_76.5	76.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.5
A 30 2_86.7	86.7	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.5
A 30 2_97.5	97.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.4
A 30 3_109.1	109.1	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_120.5	120.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_137.4	137.4	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_150.7	150.7	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_161.4	161.4	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_178.5	178.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_198.5	198.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_216.6	216.6	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_244.3	244.3	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_271.5	271.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_314.5	314.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_356.3	356.3	0.06	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_400.8	400.8	0.04	1.5	1.6	2.9	2.8	4.1	4.1	0.90



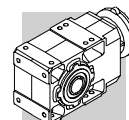
A 30

	i	J (•10 ⁻⁴) [kgm ²]											
		 SERVO											
		60A		60B 80A		95A		80C 95B 110A		95C 110B		130A	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 30 2_5.4	5.4	—	—	—	—	—	—	7.4	7.9	7.3	8.3	7.3	8.3
A 30 2_6.4	6.4	—	—	—	—	—	—	6.6	7.1	6.6	7.6	6.6	7.6
A 30 2_7.0	7.0	—	—	—	—	—	—	5.8	6.3	5.8	6.8	5.8	6.8
A 30 2_8.5	8.5	—	—	—	—	—	—	5.1	5.6	5.1	6.1	5.1	6.1
A 30 2_9.3	9.3	1.9	2.1	1.9	2.3	4.4	4.9	4.5	5.0	4.4	5.4	4.4	5.4
A 30 2_10.5	10.5	—	—	—	—	—	—	5.2	5.7	5.1	6.1	5.1	6.1
A 30 2_11.8	11.8	1.4	1.6	1.4	1.8	3.9	4.4	4.0	4.5	3.9	4.9	3.9	4.9
A 30 2_13.6	13.6	—	—	—	—	—	—	4.4	4.9	4.3	5.3	4.3	5.3
A 30 2_16.3	16.3	—	—	—	—	—	—	4.1	4.6	4.0	5.0	4.0	5.0
A 30 2_18.0	18.0	1.2	1.4	1.2	1.6	3.7	4.2	3.8	4.3	3.7	4.7	3.7	4.7
A 30 2_20.5	20.5	0.97	1.2	0.99	1.4	3.5	4.0	3.6	4.1	3.5	4.5	3.5	4.5
A 30 2_22.8	22.8	0.87	1.1	0.89	1.3	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4
A 30 2_26.5	26.5	0.77	1.0	0.79	1.2	3.3	3.8	3.4	3.9	3.3	4.3	3.3	4.3
A 30 2_29.3	29.3	0.67	0.93	0.69	1.1	3.2	3.7	3.3	3.8	3.2	4.2	3.2	4.2
A 30 2_33.4	33.4	0.62	0.88	0.64	1.1	3.2	3.6	3.2	3.7	3.1	4.1	3.1	4.1
A 30 2_36.6	36.6	0.57	0.83	0.59	1.0	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1
A 30 2_39.3	39.3	0.52	0.78	0.54	0.98	3.1	3.5	3.1	3.6	3.0	4.0	3.0	4.0
A 30 2_43.4	43.4	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0	3.0	4.0
A 30 2_48.3	48.3	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0	3.0	4.0
A 30 2_52.7	52.7	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0	3.0	4.0
A 30 2_59.4	59.4	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9
A 30 2_66.0	66.0	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9
A 30 2_76.5	76.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9
A 30 2_86.7	86.7	0.37	0.63	—	—	—	—	3.0	3.5	2.9	3.9	2.9	3.9
A 30 2_97.5	97.5	0.37	0.63	—	—	—	—	3.0	3.5	2.9	3.9	2.9	3.9
A 30 3_109.1	109.1	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_120.5	120.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_137.4	137.4	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_150.7	150.7	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_161.4	161.4	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_178.5	178.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_198.5	198.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_216.6	216.6	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_244.3	244.3	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_271.5	271.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_314.5	314.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_356.3	356.3	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
A 30 3_400.8	400.8	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8	—	—



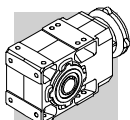
A 35

	i	J (•10 ⁻⁴) [kgm ²]								
			 IEC							
			63	71	80	90	100	112	132	
A 35 2_5.4	5.4	7.3	—	—	10	9.9	11	11	24	9.4
A 35 2_6.4	6.4	5.4	—	—	8.1	8.0	9.2	9.2	22	7.4
A 35 2_7.0	7.0	4.6	—	—	7.3	7.2	8.4	8.4	21	6.6
A 35 2_8.5	8.5	3.3	—	—	6.1	5.9	7.1	7.1	20	5.4
A 35 2_9.3	9.3	2.8	3.5	3.5	5.6	5.4	6.6	6.6	19	4.9
A 35 2_10.6	10.6	2.1	2.9	2.9	4.9	4.8	6.0	6.0	19	4.2
A 35 2_11.8	11.8	1.8	2.5	2.5	4.6	4.4	5.7	5.7	18	3.9
A 35 2_13.1	13.1	3.0	—	—	5.7	5.6	6.8	6.8	—	5.0
A 35 2_15.5	15.5	2.2	—	—	5.0	4.9	6.1	6.1	—	4.3
A 35 2_17.0	17.0	2.0	—	—	4.7	4.6	5.8	5.8	—	4.0
A 35 2_20.4	20.4	1.6	—	—	4.3	4.2	5.4	5.4	—	3.6
A 35 2_22.5	22.5	1.3	2.0	2.0	4.1	3.9	5.1	5.1	—	3.4
A 35 2_25.7	25.7	0.97	1.7	1.7	3.7	3.6	4.8	4.8	—	3.0
A 35 2_28.4	28.4	0.86	1.6	1.6	3.6	3.5	4.7	4.7	—	2.9
A 35 2_33.2	33.2	0.69	1.4	1.4	3.5	3.3	4.5	4.5	—	2.8
A 35 2_36.6	36.6	0.58	1.3	1.3	3.3	3.2	4.4	4.4	—	2.6
A 35 2_41.8	41.8	0.48	1.2	1.2	3.2	3.1	4.3	4.3	—	2.5
A 35 2_45.8	45.8	0.42	1.1	1.1	3.2	3.1	4.3	4.3	—	2.5
A 35 2_49.1	49.1	0.38	1.1	1.1	3.1	3.0	4.2	4.2	—	2.4
A 35 2_54.3	54.3	0.33	1.1	1.0	3.1	3.0	4.2	4.2	—	2.4
A 35 2_60.4	60.4	0.29	1.0	1.0	3.0	2.9	4.1	4.1	—	2.3
A 35 2_65.8	65.8	0.25	1.0	1.0	3.0	2.9	4.1	4.1	—	2.3
A 35 2_74.3	74.3	0.21	0.95	0.93	3.0	2.8	4.1	4.1	—	2.3
A 35 2_82.5	82.5	0.18	0.92	0.90	2.9	2.8	4.0	4.0	—	2.2
A 35 2_95.6	95.6	0.15	0.88	0.87	2.9	2.8	4.0	4.0	—	2.2
A 35 3_105.5	105.5	0.11	0.89	0.87	2.9	2.8	4.0	4.0	—	0.80
A 35 3_116.9	116.9	0.11	0.88	0.87	2.9	2.8	4.0	4.0	—	0.79
A 35 3_136.3	136.3	0.10	0.87	0.86	2.9	2.8	4.0	4.0	—	0.78
A 35 3_150.6	150.6	0.09	0.86	0.85	2.9	2.8	4.0	4.0	—	0.77
A 35 3_171.8	171.8	0.08	0.86	0.84	2.9	2.8	4.0	4.0	—	0.77
A 35 3_188.3	188.3	0.08	0.85	0.84	2.9	2.7	4.0	4.0	—	0.76
A 35 3_201.8	201.8	0.08	0.85	0.84	2.9	2.7	4.0	4.0	—	0.76
A 35 3_223.2	223.2	0.08	0.85	0.84	2.9	2.7	4.0	4.0	—	0.76
A 35 3_248.1	248.1	0.07	0.85	0.83	2.9	2.7	4.0	4.0	—	0.76
A 35 3_270.7	270.7	0.07	0.84	0.83	2.9	2.7	4.0	4.0	—	0.75
A 35 3_305.4	305.4	0.07	0.84	0.83	2.9	2.7	4.0	4.0	—	0.75
A 35 3_339.3	339.3	0.07	0.84	0.83	2.9	2.7	4.0	4.0	—	0.75
A 35 3_393.2	393.2	0.07	0.84	0.83	2.9	2.7	3.9	3.9	—	0.75



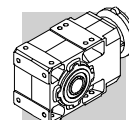
A 35

	i	J (•10 ⁻⁴) [kgm ²]											
		 SERVO											
		60A		60B 80A		95A		80C 95B 110A		95C 110B		130A	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 35 2_5.4	5.4	—	—	—	—	—	—	10	11	9.9	10.9	9.9	11
A 35 2_6.4	6.4	—	—	—	—	—	—	8.1	8.6	8.0	9.0	8.0	9.0
A 35 2_7.0	7.0	—	—	—	—	—	—	7.3	7.8	7.2	8.2	7.2	8.2
A 35 2_8.5	8.5	—	—	—	—	—	—	6.1	6.6	5.9	6.9	5.9	6.9
A 35 2_9.3	9.3	3.1	3.3	3.1	3.5	5.6	6.1	5.6	6.1	5.4	6.4	5.4	6.4
A 35 2_10.6	10.6	2.4	2.6	2.4	2.8	4.9	5.4	4.9	5.4	4.8	5.8	4.8	5.8
A 35 2_11.8	11.8	2.1	2.3	2.1	2.5	4.6	5.1	4.6	5.1	4.4	5.4	4.4	5.4
A 35 2_13.1	13.1	—	—	—	—	—	—	5.7	6.2	5.6	6.6	5.6	6.6
A 35 2_15.5	15.5	—	—	—	—	—	—	5.0	5.5	4.9	5.9	4.9	5.9
A 35 2_17.0	17.0	—	—	—	—	—	—	4.7	5.2	4.6	5.6	4.6	5.6
A 35 2_20.4	20.4	—	—	—	—	—	—	4.3	4.8	4.2	5.2	4.2	5.2
A 35 2_22.5	22.5	1.6	1.8	1.6	2.0	4.1	4.6	4.1	4.6	3.9	4.9	3.9	4.9
A 35 2_25.7	25.7	1.2	1.5	1.3	1.7	3.8	4.2	3.7	4.2	3.6	4.6	3.6	4.6
A 35 2_28.4	28.4	1.1	1.4	1.2	1.6	3.7	4.1	3.6	4.1	3.5	4.5	3.5	4.5
A 35 2_33.2	33.2	0.96	1.2	0.98	1.4	3.5	3.9	3.5	4.0	3.3	4.3	3.3	4.3
A 35 2_36.6	36.6	0.85	1.1	0.87	1.3	3.4	3.8	3.3	3.8	3.2	4.2	3.2	4.2
A 35 2_41.8	41.8	0.75	1.0	0.77	1.2	3.3	3.7	3.2	3.7	3.1	4.1	3.1	4.1
A 35 2_45.8	45.8	0.69	0.95	0.71	1.1	3.2	3.7	3.2	3.7	3.1	4.1	3.1	4.1
A 35 2_49.1	49.1	0.65	0.91	0.67	1.1	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0
A 35 2_54.3	54.3	0.60	0.86	0.62	1.1	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0
A 35 2_60.4	60.4	0.56	0.82	0.58	1.0	3.1	3.5	3.0	3.5	2.9	3.9	2.9	3.9
A 35 2_65.8	65.8	0.52	0.78	0.54	0.98	3.1	3.5	3.0	3.5	2.9	3.9	2.9	3.9
A 35 2_74.3	74.3	0.48	0.74	0.50	0.94	3.0	3.5	3.0	3.5	2.8	3.8	2.8	3.8
A 35 2_82.5	82.5	0.45	0.71	0.47	0.91	3.0	3.4	2.9	3.4	2.8	3.8	2.8	3.8
A 35 2_95.6	95.6	0.42	0.68	0.44	0.88	3.0	3.4	2.9	3.4	2.8	3.8	2.8	3.8
A 35 3_105.5	105.5	0.38	0.64	0.40	0.84	2.9	3.4	2.9	3.4	2.8	3.8	—	—
A 35 3_116.9	116.9	0.38	0.64	0.40	0.84	2.9	3.4	2.9	3.4	2.8	3.8	—	—
A 35 3_136.3	136.3	0.37	0.63	0.39	0.83	2.9	3.4	2.9	3.4	2.8	3.8	—	—
A 35 3_150.6	150.6	0.36	0.62	0.38	0.82	2.9	3.3	2.9	3.4	2.8	3.8	—	—
A 35 3_171.8	171.8	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.8	3.8	—	—
A 35 3_188.3	188.3	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_201.8	201.8	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_223.2	223.2	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_248.1	248.1	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_270.7	270.7	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_305.4	305.4	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_339.3	339.3	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_393.2	393.2	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—



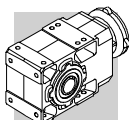
A 41

	i	J (•10 ⁻⁴) [kgm ²]								
			63	71	80	90	100	112	132	
A 41 2_5.2	5.2	13	—	—	16	16	17	17	32	23
A 41 2_7.1	7.1	7.3	—	—	10	10	11	11	26	18
A 41 2_8.3	8.3	5.9	—	—	8.8	8.7	10	10	25	16
A 41 2_9.2	9.2	4.5	—	—	7.4	7.3	8.6	8.6	23	15
A 41 2_10.1	10.1	5.9	—	—	8.8	8.7	10	10	25	16
A 41 2_11.7	11.7	2.9	4.4	4.4	5.8	5.7	7.0	7.0	22	13
A 41 2_13.8	13.8	3.6	—	—	6.5	6.4	7.7	7.7	23	14
A 41 2_16.1	16.1	2.9	—	—	5.8	5.7	7.0	7.0	22	13
A 41 2_17.8	17.8	2.2	—	—	5.1	5.0	6.3	6.3	21	11
A 41 2_22.7	22.7	1.5	3.0	3.0	4.4	4.3	5.6	5.6	20	11
A 41 2_28.3	28.3	1.1	2.6	2.6	4.0	3.9	5.2	5.2	20	10
A 41 2_35.9	35.9	1.7	3.2	3.2	4.6	4.5	5.8	5.8	20	9.8
A 41 2_45.1	45.1	1.5	3.0	3.0	4.4	4.3	5.6	5.6	20	9.6
A 41 2_48.3	48.3	1.4	2.9	2.9	4.3	4.2	5.5	5.5	—	9.5
A 41 2_53.1	53.1	1.4	2.9	2.9	4.3	4.2	5.5	5.5	—	9.5
A 41 2_58.8	58.8	1.3	2.8	2.8	4.2	4.1	5.4	5.4	—	9.4
A 41 2_64.2	64.2	1.3	2.8	2.8	4.2	4.1	5.4	5.4	—	9.4
A 41 2_71.3	71.3	1.2	2.7	2.7	4.1	4.0	5.3	5.3	—	9.3
A 41 2_79.2	79.2	1.2	2.7	2.7	4.1	4.0	5.3	5.3	—	9.3
A 41 3_92.8	92.8	1.1	2.6	2.6	4.0	3.9	5.2	5.2	—	9.2
A 41 3_115.9	115.9	0.20	1.7	1.7	2.9	3.0	4.3	4.3	—	2.1
A 41 3_146.9	146.9	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.1
A 41 3_184.4	184.4	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.1
A 41 3_197.5	197.5	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0
A 41 3_217.4	217.4	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0
A 41 3_240.6	240.6	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0
A 41 3_262.5	262.5	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0
A 41 3_291.7	291.7	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0
A 41 3_324.2	324.2	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0
A 41 3_376.8	376.8	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0



A 41

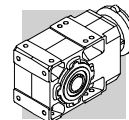
	i	J (•10 ⁻⁴) [kgm ²]																	
		SERVO																	
		60A		60B 80A		80B		95A		80C 95B 110A		95C 110B		130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 41 2_5.2	5.2	—	—	—	—	—	—	—	—	16	16.5	16	17	16	17	30	32	32	37
A 41 2_7.1	7.1	—	—	—	—	—	—	—	—	10	10.5	10	11	10	11	24	27	26	31
A 41 2_8.3	8.3	—	—	—	—	—	—	—	—	8.8	9.3	8.7	9.7	8.7	9.7	23	25	25	30
A 41 2_9.2	9.2	—	—	—	—	—	—	—	—	7.4	7.9	7.3	8.3	7.3	8.3	21	24	23	28
A 41 2_10.1	10.1	—	—	—	—	—	—	—	—	8.8	9.3	8.7	9.7	8.7	9.7	23	25	25	30
A 41 2_11.7	11.7	—	—	—	—	5.7	6.2	5.7	6.2	5.8	6.3	5.7	6.7	5.7	6.7	20	22	22	27
A 41 2_13.8	13.8	—	—	—	—	—	—	—	—	6.5	7.0	6.4	7.4	6.4	7.4	21	23	23	28
A 41 2_16.1	16.1	—	—	—	—	—	—	—	—	5.8	6.3	5.7	6.7	5.7	6.7	20	22	22	27
A 41 2_17.8	17.8	—	—	—	—	—	—	—	—	5.1	5.6	5.0	6.0	5.0	6.0	19	22	21	26
A 41 2_22.7	22.7	—	—	—	—	4.3	4.8	4.3	4.8	4.4	4.9	4.3	5.3	4.3	5.3	18	21	20	25
A 41 2_28.3	28.3	—	—	—	—	3.9	4.4	3.9	4.4	4.0	4.5	3.9	4.9	3.9	4.9	18	21	20	25
A 41 2_35.9	35.9	—	—	—	—	4.5	5.0	4.5	5.0	4.6	5.1	4.5	5.5	4.5	5.5	19	21	20	25
A 41 2_45.1	45.1	—	—	—	—	4.3	4.8	4.3	4.8	4.4	4.9	4.3	5.3	4.3	5.3	18	21	20	25
A 41 2_48.3	48.3	—	—	—	—	4.2	4.7	4.2	4.7	4.3	4.8	4.2	5.2	4.2	5.2	—	—	—	—
A 41 2_53.1	53.1	—	—	—	—	4.2	4.7	4.2	4.7	4.3	4.8	4.2	5.2	4.2	5.2	—	—	—	—
A 41 2_58.8	58.8	—	—	—	—	4.1	4.6	4.1	4.6	4.2	4.7	4.1	5.1	4.1	5.1	—	—	—	—
A 41 2_64.2	64.2	—	—	—	—	4.1	4.6	4.1	4.6	4.2	4.7	4.1	5.1	4.1	5.1	—	—	—	—
A 41 2_71.3	71.3	—	—	—	—	4.0	4.5	4.0	4.5	4.1	4.6	4.0	5.0	4.0	5.0	—	—	—	—
A 41 2_79.2	79.2	—	—	—	—	4.0	4.5	4.0	4.5	4.1	4.6	4.0	5.0	4.0	5.0	—	—	—	—
A 41 3_92.8	92.8	1.4	1.6	1.4	1.8	—	—	3.9	4.4	4.0	4.5	3.9	4.9	—	—	—	—	—	—
A 41 3_115.9	115.9	0.47	0.73	0.49	0.93	—	—	3.0	3.5	2.9	3.4	3.0	4.0	—	—	—	—	—	—
A 41 3_146.9	146.9	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_184.4	184.4	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_197.5	197.5	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_217.4	217.4	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_240.6	240.6	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_262.5	262.5	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_291.7	291.7	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_324.2	324.2	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_376.8	376.8	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—



A 50

	i	J (•10 ⁻⁴) [kgm ²]										
			63	71	80	90	100	112	132	160	180	
A 50 2_7.7	7.7	15	—	—	18	18	19	19	34	93	91	24
A 50 2_9.7	9.7	10	—	—	13	13	14	14	29	89	86	19
A 50 2_13.1	13.1	6.3	—	—	9.2	9.1	10	10	25	85	82	15
A 50 2_16.6	16.6	4.2	—	—	7.0	7.0	8.2	8.2	23	82	80	13
A 50 2_20.9	20.9	2.8	4.2	4.2	5.7	5.6	6.9	6.9	22	81	79	12
A 50 3_24.0	24.0	6.0	—	—	8.9	8.8	10	10	25	84	82	15
A 50 3_26.4	26.4	5.8	—	—	8.7	8.6	9.9	9.9	25	84	82	15
A 50 3_32.4	32.4	4.0	—	—	6.8	6.8	8.1	8.1	23	82	80	13
A 50 3_35.6	35.6	3.9	—	—	6.7	6.7	8.0	8.0	23	82	80	13
A 50 3_40.9	40.9	2.7	—	—	5.6	5.5	6.8	6.8	22	81	79	12
A 50 3_45.0	45.0	2.6	—	—	5.5	5.4	6.7	6.7	22	81	79	12
A 50 3_51.7	51.7	1.9	3.4	3.4	4.7	4.7	6.0	6.0	21	80	78	11
A 50 3_56.8	56.8	1.9	3.3	3.3	4.7	4.6	5.9	5.9	21	80	78	11
A 50 3_63.9	63.9	1.4	2.9	2.8	4.2	4.2	5.5	5.5	20	80	77	11
A 50 3_70.2	70.2	1.4	2.8	2.8	4.2	4.1	5.4	5.4	20	80	77	10
A 50 3_81.5	81.5	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	79	77	10
A 50 3_89.5	89.5	0.90	2.4	2.4	3.7	3.7	5.0	5.0	20	79	77	10
A 50 3_99.5	99.5	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	79	77	9.7
A 50 3_109.4	109.4	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	79	77	9.7
A 50 3_118.0	118.0	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	9.6
A 50 3_129.7	129.7	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	9.6
A 50 3_140.6	140.6	0.40	1.8	1.8	3.2	3.2	4.4	4.4	—	—	—	9.4
A 50 3_154.6	154.6	0.40	1.8	1.8	3.2	3.2	4.4	4.4	—	—	—	9.4
A 50 3_173.4	173.4	0.30	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	9.3
A 50 3_190.6	190.6	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	9.3

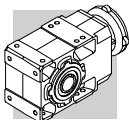
Quant aux valeurs des moments d'inertie, se référant aux réducteurs à 4 étages, consultez notre Service Technique.



A 50

	i	J (•10 ⁻⁴) [kgm ²]									
		 SERVO									
		80B 95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 50 2_7.7	7.7	—	—	18	19	18	19	32	34	34	39
A 50 2_9.7	9.7	—	—	13	14	13	14	27	29	29	34
A 50 2_13.1	13.1	—	—	9.2	9.7	9.1	10	23	26	25	30
A 50 2_16.6	16.6	—	—	7.0	7.5	7.0	8.0	21	24	23	28
A 50 2_20.9	20.9	5.6	6.1	5.7	6.2	5.6	6.6	20	22	22	27
A 50 3_24.0	24.0	—	—	8.9	9.4	8.8	9.8	23	25	25	30
A 50 3_26.4	26.4	—	—	8.7	9.2	8.6	9.6	23	25	25	30
A 50 3_32.4	32.4	—	—	6.8	7.3	6.8	7.8	21	23	23	28
A 50 3_35.6	35.6	—	—	6.7	7.2	6.7	7.7	21	23	23	28
A 50 3_40.9	40.9	—	—	5.6	6.1	5.5	6.5	20	22	22	27
A 50 3_45.0	45.0	—	—	5.5	6.0	5.4	6.4	20	22	22	27
A 50 3_51.7	51.7	4.7	5.1	4.7	5.2	4.7	5.7	19	21	21	26
A 50 3_56.8	56.8	4.7	5.1	4.7	5.2	4.6	5.6	19	21	21	26
A 50 3_63.9	63.9	4.2	4.7	4.2	5.2	4.2	5.2	18	21	20	25
A 50 3_70.2	70.2	4.2	4.7	4.2	5.2	4.1	5.1	18	21	20	25
A 50 3_81.5	81.5	3.7	4.1	3.8	4.3	3.7	4.7	18	20	20	25
A 50 3_89.5	89.5	3.7	4.1	3.7	4.2	3.7	4.7	18	20	20	25
A 50 3_99.5	99.5	3.4	3.9	3.5	4.0	3.4	4.4	18	20	20	25
A 50 3_109.4	109.4	3.4	3.9	3.5	4.0	3.4	4.4	18	20	20	25
A 50 3_118.0	118.0	3.3	3.8	3.4	4.0	3.3	4.3	—	—	—	—
A 50 3_129.7	129.7	3.3	3.8	3.4	4.0	3.3	4.3	—	—	—	—
A 50 3_140.6	140.6	3.2	3.7	3.2	3.7	3.2	4.2	—	—	—	—
A 50 3_154.6	154.6	3.2	3.7	3.2	3.7	3.2	4.2	—	—	—	—
A 50 3_173.4	173.4	3.1	3.6	3.1	3.6	3.0	4.0	—	—	—	—
A 50 3_190.6	190.6	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—

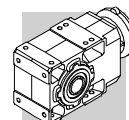
Quant aux valeurs des moments d'inertie, se référant aux réducteurs à 4 étages, consultez notre Service Technique.



A 55

	i	J (•10 ⁻⁴) [kgm ²]										
			 IEC									
			63	71	80	90	100	112	132	160	180	
A 55 2_4.9	4.9	61	—	—	—	—	—	—	77	123	120	70
A 55 2_6.4	6.4	41	—	—	—	—	—	—	57	103	100	50
A 55 2_8.5	8.5	26	—	—	—	—	—	—	42	88	85	35
A 55 2_10.4	10.4	19	—	—	—	—	—	—	35	81	78	28
A 55 2_13.1	13.1	12	—	—	14	14	17	17	28	74	72	21
A 55 2_15.7	15.7	8.9	—	—	11	11	14	14	25	71	68	18
A 55 2_19.2	19.2	6.2	—	—	8.6	8.5	11	11	23	68	66	15
A 55 3_23.8	23.8	11	—	—	13	13	16	16	27	73	70	20
A 55 3_29.9	29.9	7.9	—	—	10	10	13	13	24	70	67	17
A 55 3_40.3	40.3	5.3	—	—	7.8	7.6	10	10	22	68	65	14
A 55 3_51.0	51.0	3.6	—	—	6.0	5.9	8.6	8.6	20	66	63	13
A 55 3_64.3	64.3	2.6	3.1	3.0	5.1	5.0	7.7	7.7	19	65	62	12
A 55 3_79.5	79.5	2.0	2.4	2.4	4.5	4.4	7.1	7.1	18	64	62	11
A 55 3_101.4	101.4	1.3	1.8	1.8	3.8	3.7	6.5	6.5	18	64	61	10
A 55 3_123.9	123.9	1.0	1.5	1.5	3.6	3.4	6.2	6.2	17	63	61	10
A 55 3_132.7	132.7	0.71	1.4	1.4	3.5	3.3	6.1	6.1	—	—	—	9.5
A 55 3_146.8	146.8	0.66	1.4	1.4	3.4	3.3	6.0	6.0	—	—	—	9.4
A 55 3_160.4	160.4	0.58	1.3	1.3	3.3	3.2	6.0	6.0	—	—	—	9.4
A 55 3_175.0	175.0	0.50	1.2	1.2	3.3	3.1	5.9	5.9	—	—	—	9.3
A 55 3_194.2	194.2	0.43	1.2	1.2	3.2	3.1	5.8	5.8	—	—	—	9.2

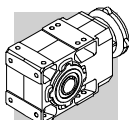
Quant aux valeurs des moments d'inertie, se référant aux réducteurs à 4 étages, consultez notre Service Technique.



A 55

	i	J (•10 ⁻⁴) [kgm ²]									
		 SERVO									
		80B 95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 55 2_4.9	4.9	—	—	—	—	—	—	78	80	77	82
A 55 2_6.4	6.4	—	—	—	—	—	—	58	60	57	62
A 55 2_8.5	8.5	—	—	—	—	—	—	43	45	42	47
A 55 2_10.4	10.4	—	—	—	—	—	—	36	38	35	40
A 55 2_13.1	13.1	—	—	14	15	14	15	29	31	28	33
A 55 2_15.7	15.7	—	—	11	12	11	12	26	28	25	30
A 55 2_19.2	19.2	—	—	8.6	9.1	8.5	9.5	23	26	23	28
A 55 3_23.8	23.8	—	—	13	14	13	14	28	30	27	32
A 55 3_29.9	29.9	—	—	10	11	10	11	25	27	24	29
A 55 3_40.3	40.3	—	—	7.8	8.3	7.6	8.6	22	25	22	27
A 55 3_51.0	51.0	—	—	6.0	6.5	5.9	6.9	21	23	20	25
A 55 3_64.3	64.3	5.4	5.9	5.1	5.6	5.0	6.0	20	22	19	24
A 55 3_79.5	79.5	4.8	5.3	4.5	5.0	4.4	5.4	19	21	18	23
A 55 3_101.4	101.4	4.1	4.6	3.8	4.3	3.7	4.7	18	21	18	23
A 55 3_123.9	123.9	3.8	4.3	3.6	4.1	3.4	4.4	18	20	17	22
A 55 3_132.7	132.7	3.5	4.0	3.5	4.0	3.3	4.3	—	—	—	—
A 55 3_146.8	146.8	3.5	3.9	3.4	3.9	3.3	4.3	—	—	—	—
A 55 3_160.4	160.4	3.4	3.8	3.3	3.8	3.2	4.2	—	—	—	—
A 55 3_175.0	175.0	3.3	3.8	3.3	3.8	3.1	4.1	—	—	—	—
A 55 3_194.2	194.2	3.3	3.7	3.2	3.7	3.1	4.1	—	—	—	—

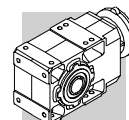
Quant aux valeurs des moments d'inertie, se référant aux réducteurs à 4 étages, consultez notre Service Technique.



A 60

	i	J (•10 ⁻⁴) [kgm ²]										
			IEC									
			63	71	80	90	100	112	132	160	180	
A 60 2_7.9	7.9	36	—	—	—	—	—	—	54	114	112	57
A 60 2_10.3	10.3	23	—	—	25	25	27	27	41	101	99	44
A 60 2_12.7	12.7	16	—	—	19	19	20	20	35	94	92	37
A 60 2_16.7	16.7	9.4	—	—	12	12	14	14	28	88	85	30
A 60 2_20.6	20.6	6.7	—	—	9.6	9.5	11	11	26	85	83	28
A 60 3_25.7	25.7	14	—	—	17	17	18	18	33	92	90	35
A 60 3_27.9	27.9	14	—	—	17	17	18	18	33	92	90	35
A 60 3_31.7	31.7	10	—	—	13	13	15	15	29	89	86	31
A 60 3_34.3	34.3	10	—	—	13	13	14	14	29	89	86	31
A 60 3_41.7	41.7	6.1	—	—	9.0	8.9	10	10	25	84	82	27
A 60 3_45.2	45.2	6.1	—	—	8.9	8.9	10	10	25	84	82	27
A 60 3_51.3	51.3	5.0	—	—	7.4	7.4	8.7	8.7	24	83	81	26
A 60 3_55.6	55.6	4.5	—	—	7.4	7.3	8.6	8.6	23	83	81	26
A 60 3_65.0	65.0	3.2	4.7	4.6	6.1	6.0	7.3	7.3	22	82	79	24
A 60 3_70.4	70.4	3.2	4.7	4.6	6.1	6.0	7.3	7.3	22	81	79	24
A 60 3_79.7	79.7	2.1	3.6	3.5	5.0	4.9	6.2	6.2	21	80	78	23
A 60 3_86.4	86.4	2.1	3.6	3.5	5.0	4.9	6.2	6.2	21	80	78	23
A 60 3_99.5	99.5	2.0	3.5	3.4	4.3	4.3	5.6	5.6	20	80	78	23
A 60 3_107.8	107.8	1.5	3.0	2.9	4.3	4.3	5.6	5.6	20	80	78	22
A 60 3_123.0	123.0	1.1	2.6	2.5	4.0	3.9	5.2	5.2	20	79	77	22
A 60 3_133.3	133.3	1.1	2.6	2.5	3.9	3.9	5.2	5.2	20	79	77	22
A 60 3_144.0	144.0	0.80	2.3	2.2	3.7	3.6	5.0	5.0	—	—	—	22
A 60 3_156.0	156.0	0.80	2.3	2.2	3.7	3.6	5.0	5.0	—	—	—	22
A 60 3_171.5	171.5	0.60	2.1	2.0	3.5	3.4	4.7	4.7	—	—	—	22
A 60 3_185.8	185.8	0.60	2.1	2.0	3.5	3.4	4.7	4.7	—	—	—	22

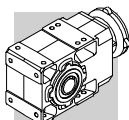
Quant aux valeurs des moments d'inertie, se référant aux réducteurs à 4 étages, consultez notre Service Technique.



A 60

	i	J (•10 ⁻⁴) [kgm ²]									
		 SERVO									
		95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 60 2_7.9	7.9	—	—	—	—	—	—	53	55	54	59
A 60 2_10.3	10.3	—	—	25	26	25	26	40	42	41	46
A 60 2_12.7	12.7	—	—	19	20	19	20	33	35	35	40
A 60 2_16.7	16.7	—	—	12	13	12	13	26	29	28	33
A 60 2_20.6	20.6	—	—	9.6	10	9.5	10	24	26	26	31
A 60 3_25.7	25.7	—	—	17	18	17	18	31	33	33	38
A 60 3_27.9	27.9	—	—	17	18	17	18	31	33	33	38
A 60 3_31.7	31.7	—	—	13	14	13	14	27	29	29	34
A 60 3_34.3	34.3	—	—	13	14	13	14	27	29	29	34
A 60 3_41.7	41.7	—	—	9.0	9.5	8.9	9.9	23	26	25	30
A 60 3_45.2	45.2	—	—	8.9	9.4	8.9	9.9	23	26	25	30
A 60 3_51.3	51.3	—	—	7.4	7.9	7.4	8.4	22	24	24	29
A 60 3_55.6	55.6	—	—	7.4	7.9	7.3	8.3	21	24	23	28
A 60 3_65.0	65.0	6.0	6.5	6.1	6.6	6.0	7.0	20	23	22	27
A 60 3_70.4	70.4	6.0	6.5	6.1	6.6	6.0	7.0	20	23	22	27
A 60 3_79.7	79.7	4.9	5.4	5.0	5.5	4.9	5.9	19	22	21	26
A 60 3_86.4	86.4	4.9	5.4	5.0	5.5	4.9	5.9	19	22	21	26
A 60 3_99.5	99.5	4.8	5.3	4.3	4.8	4.3	5.3	19	21	20	25
A 60 3_107.8	107.8	4.3	4.8	4.3	4.8	4.3	5.3	18	21	20	25
A 60 3_123.0	123.0	3.9	4.4	4.0	4.5	3.9	4.9	18	21	20	25
A 60 3_133.3	133.3	3.9	4.4	3.9	4.4	3.9	4.9	18	21	20	25
A 60 3_144.0	144.0	3.6	4.1	3.7	4.2	3.6	4.6	—	—	—	—
A 60 3_156.0	156.0	3.6	4.1	3.7	4.2	3.6	4.6	—	—	—	—
A 60 3_171.5	171.5	3.4	3.9	3.5	4.0	3.4	4.4	—	—	—	—
A 60 3_185.8	185.8	3.4	3.9	3.5	4.0	3.4	4.4	—	—	—	—

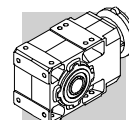
Quant aux valeurs des moments d'inertie, se référant aux réducteurs à 4 étages, consultez notre Service Technique.



A 70

	i	J (•10 ⁻⁴) [kgm ²]											
			80	90	100	112	132	160	180	200	225	250	
A 70 3_9.4	9.4	—	—	—	—	—	—	187	185	194	—	—	150
A 70 3_10.2	10.2	—	—	—	—	—	—	183	180	190	—	—	146
A 70 3_12.1	12.1	—	—	—	—	—	—	150	148	157	—	—	113
A 70 3_13.1	13.1	—	—	—	—	—	—	147	145	154	—	—	111
A 70 3_15.4	15.4	45	—	—	—	—	64	124	121	161	—	—	87
A 70 3_16.7	16.7	44	—	—	—	—	63	122	120	129	—	—	85
A 70 3_19.7	19.7	30	—	—	—	—	49	109	107	—	—	—	72
A 70 3_21.3	21.3	29	—	—	—	—	48	108	106	—	—	—	71
A 70 3_23.5	23.5	—	—	—	—	—	—	116	114	123	—	—	79
A 70 3_27.8	27.8	—	—	—	—	—	—	118	116	125	—	—	81
A 70 3_30.1	30.1	—	—	—	—	—	—	117	115	124	—	—	81
A 70 3_35.4	35.4	26	—	—	—	—	45	104	102	111	—	—	67
A 70 3_38.4	38.4	25	—	—	—	—	44	104	101	111	—	—	67
A 70 3_45.2	45.2	18	—	—	—	—	37	97	94	—	—	—	59
A 70 3_49.0	49.0	18	—	—	—	—	37	96	94	—	—	—	59
A 70 3_53.2	53.2	15	—	—	—	—	34	93	91	—	—	—	56
A 70 3_57.7	57.7	15	—	—	—	—	34	93	91	—	—	—	56
A 70 3_66.9	66.9	9.7	12	12	13	13	29	88	86	—	—	—	51
A 70 3_72.5	72.5	9.6	12	12	13	13	28	88	86	—	—	—	51
A 70 3_79.3	79.3	6.8	9.4	9.3	11	11	26	85	83	—	—	—	48
A 70 3_85.9	85.9	6.7	9.3	9.3	11	11	26	85	83	—	—	—	48
A 70 3_96.2	96.2	5.4	8.2	8.2	9.4	9.4	24	84	82	—	—	—	47
A 70 3_104.2	104.2	5.4	8.2	8.1	9.4	9.4	24	84	81	—	—	—	47
A 70 3_120.6	120.6	3.4	6.2	6.2	7.5	7.5	22	82	79	—	—	—	45
A 70 3_130.7	130.7	3.4	6.2	6.2	7.4	7.4	22	82	79	—	—	—	45
A 70 3_141.9	141.9	2.4	5.3	5.2	6.5	6.5	21	81	78	—	—	—	44
A 70 3_153.7	153.7	2.4	5.2	5.2	6.5	6.5	21	81	78	—	—	—	44

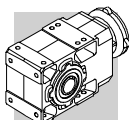
Quant aux valeurs des moments d'inertie, se référant aux réducteurs à 4 étages, consultez notre Service Technique.



A 80

	i	J (•10 ⁻⁴) [kgm ²]											
		IEC	IEC										IEC
			80	90	100	112	132	160	180	200	225	250	
A 80 3_9.8	9.8	—	—	—	—	—	—	—	320	333	611	—	286
A 80 3_10.7	10.7	—	—	—	—	—	—	—	309	323	601	—	276
A 80 3_12.3	12.3	—	—	—	—	—	—	239	239	253	531	—	205
A 80 3_13.3	13.3	—	—	—	—	—	—	232	233	246	524	—	199
A 80 3_15.5	15.5	—	—	—	—	—	—	187	185	194	478	—	150
A 80 3_16.7	16.7	—	—	—	—	—	—	183	180	190	474	—	150
A 80 3_19.3	19.3	69	—	—	—	—	88	147	145	154	440	—	111
A 80 3_20.9	20.9	66	—	—	—	—	85	145	142	152	437	—	108
A 80 3_22.6	22.6	—	—	—	—	—	—	—	205	219	496	—	171
A 80 3_24.5	24.5	—	—	—	—	—	—	—	203	217	494	—	169
A 80 3_28.2	28.2	—	—	—	—	—	—	165	166	179	457	—	132
A 80 3_30.6	30.6	—	—	—	—	—	—	164	164	178	456	—	130
A 80 3_35.5	35.5	—	—	—	—	—	—	140	138	147	432	—	104
A 80 3_38.5	38.5	—	—	—	—	—	—	140	137	147	431	—	103
A 80 3_44.5	44.5	39	—	—	—	—	58	118	115	125	410	—	81
A 80 3_48.2	48.2	39	—	—	—	—	58	117	115	124	410	—	90
A 80 3_55.2	55.2	29	—	—	—	—	48	108	105	136	399	—	70
A 80 3_59.8	59.8	29	—	—	—	—	48	107	105	136	399	—	70
A 80 3_66.8	66.8	22	—	—	—	—	41	101	98	128	391	—	63
A 80 3_72.4	72.4	22	—	—	—	—	41	100	98	128	391	—	63
A 80 3_82.3	82.3	15	17	17	18	18	34	94	91	120	384	—	56
A 80 3_89.2	89.2	15	17	17	18	18	34	93	91	120	386	—	56
A 80 3_96.0	96.0	14	16	16	17	17	32	92	90	119	382	—	55
A 80 3_104.0	104.0	13	16	16	17	17	32	92	89	119	382	—	55
A 80 3_116.0	116.0	9.1	12	12	13	13	28	87	85	—	—	—	50
A 80 3_125.6	125.6	9.1	12	12	13	13	28	87	85	—	—	—	50
A 80 3_144.7	144.7	5.4	8.3	8.2	10	10	24	84	82	—	—	—	47
A 80 3_156.8	156.8	5.4	3.0	2.9	4.2	4.2	19	78	76	—	—	—	41

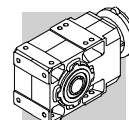
Quant aux valeurs des moments d'inertie, se référant aux réducteurs à 4 étages, consultez notre Service Technique.



A 90

	i	J (•10 ⁻⁴) [kgm ²]											
		IEC	IEC										IEC
			80	90	100	112	132	160	180	200	225	250	
A 90 3_9.7	9.7	—	—	—	—	—	—	—	597	611	889	918	898
A 90 3_10.5	10.5	—	—	—	—	—	—	—	575	589	867	896	876
A 90 3_12.6	12.6	—	—	—	—	—	—	—	402	416	693	723	703
A 90 3_13.7	13.7	—	—	—	—	—	—	—	389	403	681	710	690
A 90 3_15.6	15.6	—	—	—	—	—	—	—	306	319	597	627	607
A 90 3_16.9	16.9	—	—	—	—	—	—	—	297	311	589	618	598
A 90 3_19.4	19.4	—	—	—	—	—	—	236	234	243	527	559	530
A 90 3_21.0	21.0	—	—	—	—	—	—	231	228	238	522	553	524
A 90 3_22.3	22.3	—	—	—	—	—	—	—	326	340	618	647	627
A 90 3_24.1	24.1	—	—	—	—	—	—	—	322	336	614	643	623
A 90 3_29.1	29.1	—	—	—	—	—	—	—	243	257	535	564	544
A 90 3_31.5	31.5	—	—	—	—	—	—	—	241	254	532	562	542
A 90 3_35.8	35.8	—	—	—	—	—	—	—	201	215	493	522	502
A 90 3_38.8	38.8	—	—	—	—	—	—	—	200	213	491	521	500
A 90 3_44.6	44.6	—	—	—	—	—	—	169	166	176	460	491	462
A 90 3_48.3	48.3	—	—	—	—	—	—	168	165	175	459	490	461
A 90 3_55.0	55.0	66	—	—	—	—	85	144	142	151	437	468	438
A 90 3_59.6	59.6	66	—	—	—	—	84	144	141	151	436	468	437
A 90 3_68.8	68.8	48	—	—	—	—	67	126	124	154	418	449	416
A 90 3_74.5	74.5	47	—	—	—	—	66	126	123	154	417	449	416
A 90 3_80.4	80.4	43	—	—	—	—	62	121	119	149	412	443	412
A 90 3_87.1	87.1	43	—	—	—	—	62	121	119	148	412	443	412
A 90 3_98.6	98.6	28	30	30	32	32	47	106	104	134	397	428	399
A 90 3_106.8	106.8	28	30	30	31	31	47	106	104	133	397	428	399
A 90 3_116.9	116.9	23	25	25	26	26	41	101	99	128	391	423	394
A 90 3_126.6	126.6	22	25	25	26	26	41	101	98	128	391	422	394
A 90 3_139.4	139.4	15	17	17	19	19	33	93	91	—	—	—	386
A 90 3_151.0	151.0	14	3.0	3.0	4.3	4.3	19	79	76	—	—	—	372

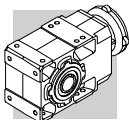
Quant aux valeurs des moments d'inertie, se référant aux réducteurs à 4 étages, consultez notre Service Technique.



42 RAPPORTS EXACTS

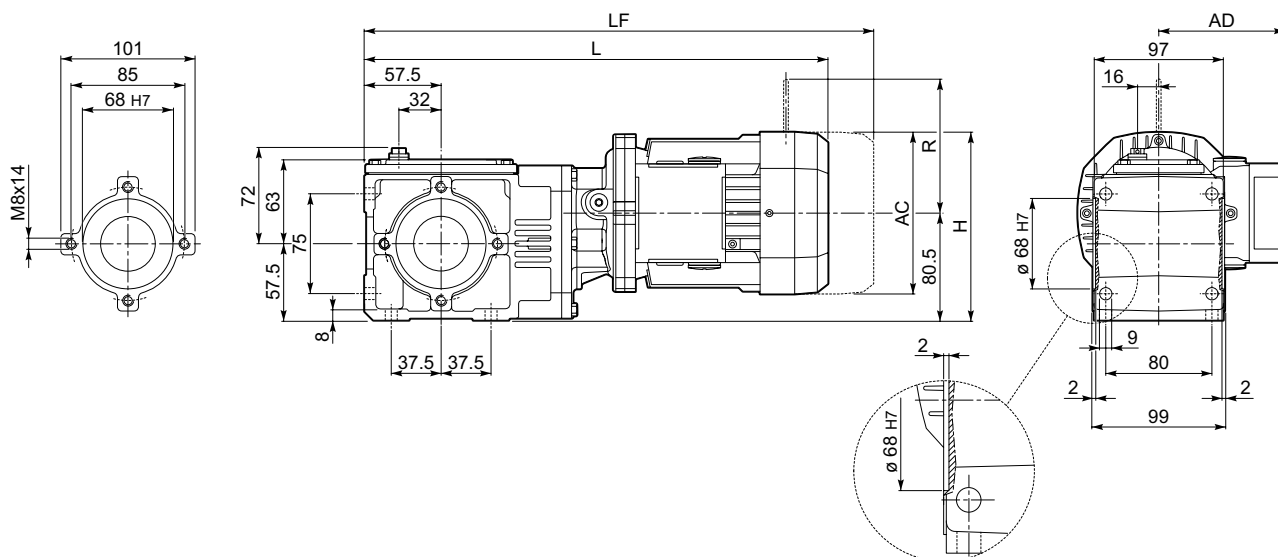
i _N	A 05	A 10	A 20	A 30	A 35	A 41	A 50	A 55	A 60	A 70	A 80	A 90
5.0								4.94505				
5.6	5.46559	5.46559	5.35117	5.41311	5.41311	5.24476						
6.3	6.33484	6.33484	6.53846	6.41026	6.41026			6.41026				
7.1	7.21154	7.21154	7.28745	7.02341	7.02341	7.12251						
8.0	8.51648	8.51648	8.37104	8.46154	8.46154	8.33333	7.73684	8.46154	7.86420			
9.0	9.61538	9.61538	9.37500	9.31174	9.31174	9.19732				9.43946		9.67545
10.0	10.55639	10.55639	10.33540	10.45503	10.63348	10.12987	9.73401	10.35503	10.31579	10.22609	9.83278	10.48174
11.2				11.77885	11.77885	11.74089				12.08027	10.65217	12.64214
12.5	12.30769	12.30769	11.96581		13.06878		13.10700	13.07692	12.70370	13.08696	12.27130	13.69565
14.0	13.92857	13.92857	14.07519	13.56522	15.47619	13.75661				15.40468	13.29391	15.57512
16.0	16.44898	16.44898	16.16807	16.34286	16.95652	16.09524	16.57005	15.68047	16.73663	16.68841	15.45151	16.87304
18.0	18.57143	18.57143	18.10714	17.98496		17.76398					19.33779	19.38462
20.0	21.35714	21.35714	21.22449	20.53782	20.42857		20.91813	19.23077	20.5942	19.66555	20.94928	21.00000
22.4	23.77143	23.77143	23.11111	22.75000	22.48120	22.67669				21.30435	22.61538	22.25354
25.0	25.46939	25.46939	26.46429	26.53061	25.67227		24.04795	23.79021	25.71012	23.52000	24.50000	24.10800
28.0	28.57143	28.57143	29.21905	29.30159	28.43750	28.32143	26.43733			27.85263	27.78462	29.07692
31.5	32.19048	32.19048	31.30612	33.42857	33.16327		32.38095	29.93134	31.66154	30.10000	30.57600	31.50000
35.5	35.11688	35.11688	35.42857	36.64762	36.62698	35.90476	35.59829		34.30000	35.43077	35.53846	35.82277
40.0	40.85714	40.85714	39.61905	39.26531	41.78571	45.06667	40.93645	40.30303	41.71282	38.38333	38.50000	38.80800
45.0	45.39683	45.39683	43.22078	43.42857	45.80952	48.28571	45.00386		45.18889	45.23077	44.47692	44.58462
50.0	51.25714	51.25714	48.28571	48.28571	49.08163	53.14286	51.67843	50.95166	51.32709	49.00000	48.18333	48.30000
56.0	58.60317	58.60317	53.65079	52.67532	54.28571	58.80952	56.81314		55.60435	53.23314	55.18154	55.03077
63.0	65.92857	65.92857	63.14286	59.42857	60.35714	64.15584	63.89011	64.32168	64.98947	66.94154	66.80237	59.61667
71.0			70.98413	66.03175	65.84416	71.31429	70.23817		70.40526	72.52000	72.36923	68.75077
80.0	76.40816	76.40816	79.85714	76.51429	74.28571	79.23810	81.45055	79.52098	79.71923	79.32781	82.32000	80.37160
90.0	91.61905	91.61905	92.32653	86.66667	82.53968	92.76828	89.54339		86.36250	85.93846	89.18000	87.06923
100.0				97.50000	95.64286		99.53407	101.37762	99.50769	96.21818	104.03077	98.60308
112.2			109.16518	109.07029	105.54155	115.86039	109.42367	123.88531	107.80000	104.23636	115.95524	116.90414
125.0			120.52857	120.46208	116.90972		129.67046	132.73427	123.02769	120.61538	125.61818	126.64615
140.0			146.14286	137.42857	136.33787	146.88312	140.61938	146.80796	144.04260	141.86014	144.73846	139.39301
160.0			163.42857	161.42404	150.57760		154.59118	160.43706	171.46573	169.75499	156.80000	166.12694
180.0			178.28571	178.53968	171.78571	184.36364	173.36264	175.02225	185.75455	183.90123	171.29752	179.97085
200.0			199.17857	198.50794	201.78005	197.53247	190.58777	194.19860	208.73017		214.73193	209.01044
225.0			221.30952	216.55411	223.17460	217.40260	231.98700	208.05260	226.12435	220.25418	232.62626	226.42797
250.0			260.46429	244.31746	248.13492	240.58442	260.88462		264.29053	238.60870		
280.0			292.80952	271.46384	270.69264	291.74026	286.80584	262.64685	286.31474	292.01619	277.28428	281.43590
315.0			329.41071	314.55873	305.39683	324.15584	332.58974		324.19154	316.35088	300.39130	304.88889
355.0				356.29630	339.32981	376.83117	365.63552	324.71066	351.20750	369.38462	353.96864	355.79521
400.0			380.84694	400.83333	393.19841		406.43077		404.66462	400.16667	383.46603	385.44482
450.0							446.81331	413.95862	438.38667	475.76068	442.07937	449.15802
500.0							481.63314	505.86503	500.31262	515.40741	478.91932	486.58785
560.0							574.19580	541.99825	585.77325	595.03590	560.45035	555.29467
630.0							631.24731	655.11801	634.58769	644.62222	607.15455	601.56923
710.0							707.89744	714.67419	697.29399	705.13609	703.46182	707.91953
800.0							778.23340	792.97762	755.40182	855.27273	829.52598	766.91282
900.0										926.54545	898.65315	865.09065
1000.0										1072.13675	1001.43166	1025.1594
1125.0										1161.48148	1084.88430	1110.58935
1250.0										1242.33846	1236.85594	1222.17967
1400.0										1345.86667	1339.92727	1324.02797
1600.0										1583.07692	1557.66545	1506.76450
1800.0										1715.00000		1632.32821





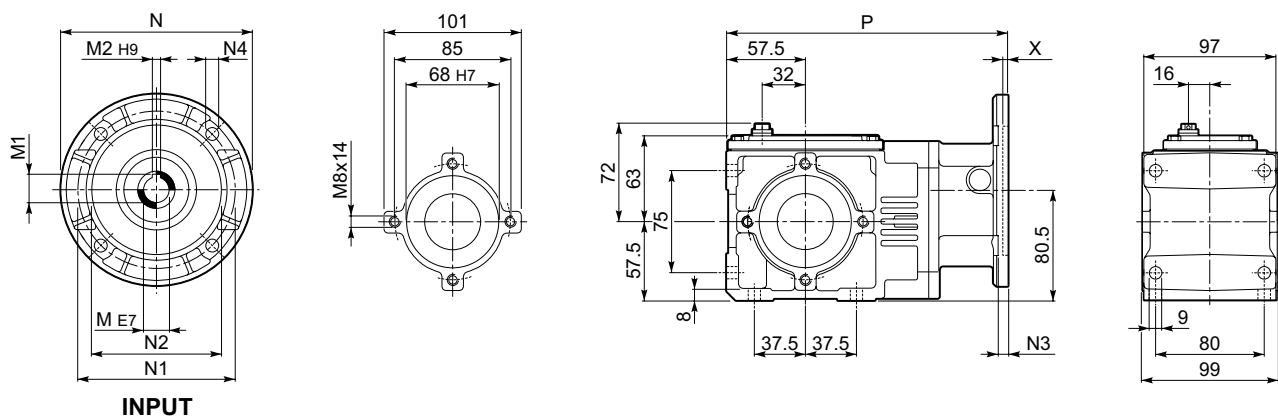
43 DIMENSIONS

A 05...M/ME/MX/MXN



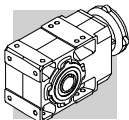
			Gearmotor - Without brake							Gearmotor - With brake									
			AC	H	L		AD		M...FD				M...FDD						
					plastic	metal			LF		R	AD	LF			R	AD		
													plastic	metal					
A 05 2	S05	M05	121	141	—	360.5	95	7.5	426.5	9	96	122	—	—	—	—	—		
		ME05	121	141	—	360.5	95	7.5	426.5	9	96	119	—	—	—	—	—		
		MX05	121	141	—	360.5	95	7.5	426.5	9	96	119	—	—	—	—	—		
	SX05	MXN05	123	142	407	385	122.3	9.3	—	—	—	—	434	399.7	10.4	106	136		
	S1	M1	138	149.5	—	389.5	108	11.5	450.5	14	103	135	—	—	—	—	—		
		ME1	138	149.5	—	389.5	108	11.5	450.5	14	103	135	—	—	—	—	—		
		MX1	138	149.5	—	389.5	108	11.5	450.5	14	103	135	—	—	—	—	—		
	S2	ME2S	156	158.5	—	418.5	119	15.5	488.5	17.1	129	143	—	—	—	—	—		
		MX2S	156	158.5	—	452.5	119	20.6	524.5	24.4	129	143	—	—	—	—	—		

A 05...P(IEC)



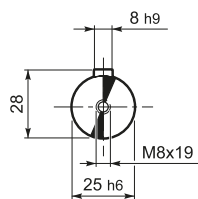
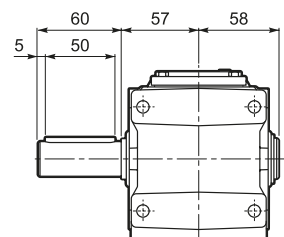
		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 05 2	P63	11	12.8	4	140	115	95	7	9.5	3.5	206	5
A 05 2	P71	14	16.3	5	160	130	110	7	9.5	4	213	5
A 05 2	P80	19	20.8#	6	200	165	130	7	11.5	4	223	5.5

Clavette de type rabaisé de fourniture Bonfiglioli

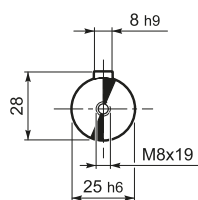
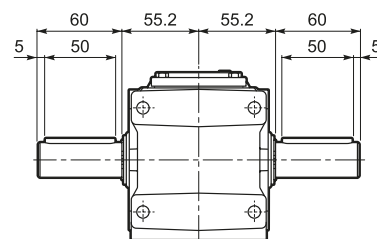


A 05

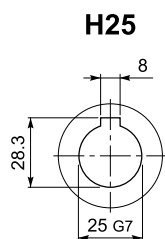
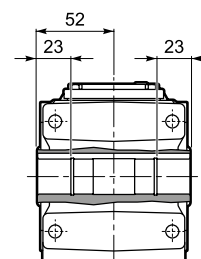
A 05...UR



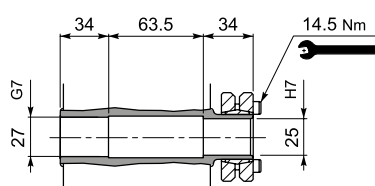
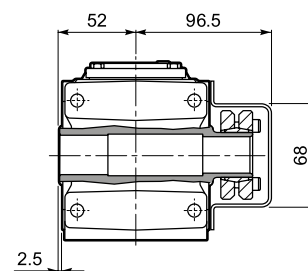
A 05...UD

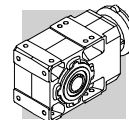


A 05...UH

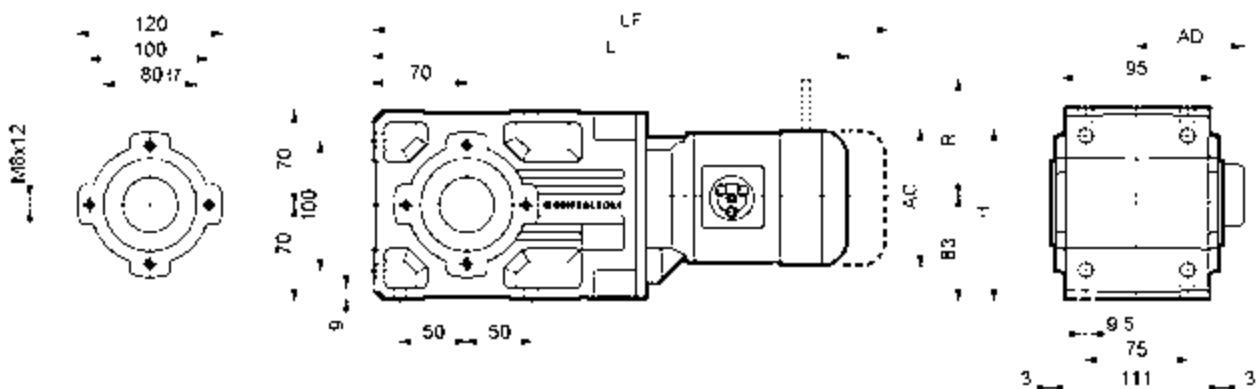


A 05...US

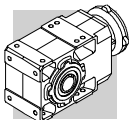




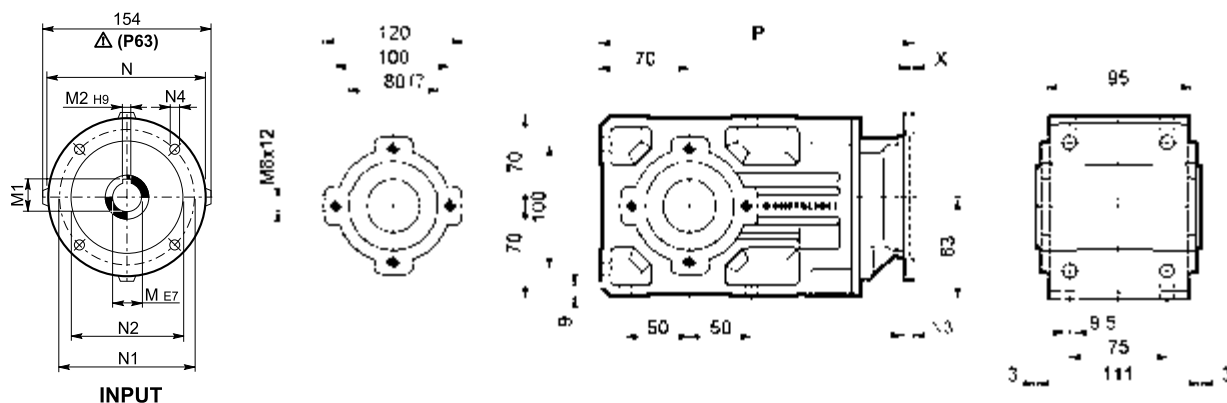
A 10...M/ME/MX/MXN



			Gearmotor - Without brake							Gearmotor - With brake								
			AC H L AD 							M...FD				M...FDD				
										LF  R AD				LF			R	AD
														plastic	metal			
A 10 2	S05	M05	121	143.5	—	408.5	95	12	474.5	14	96	122	—	—	—	—	—	
		ME05	121	143.5	—	408.5	95	12	474.5	14	96	119	—	—	—	—	—	
		MX05	121	143.5	—	408.5	95	12	474.5	14	96	119	—	—	—	—	—	
	SX05	MXN05	123	144.5	455	433	122.3	13.8	—	—	—	—	482	447.7	14.9	106	136	
	S1	M1	138	152	—	437.5	108	14	498.5	17	103	135	—	—	—	—	—	
		ME1	138	152	—	437.5	108	14	498.5	17	103	135	—	—	—	—	—	
		MX1	138	152	—	437.5	108	14	498.5	17	103	135	—	—	—	—	—	
	SX10	MXN10	138	152	466.5	447	123.3	16.4	—	—	—	—	502.5	467.6	18.8	106	138	
	S2	ME2S	156	161	—	466.5	119	18	536.5	20.1	129	143	—	—	—	—	—	
		MX2S	156	161	—	510.5	119	23.1	568	27.3	129	143	—	—	—	—	—	
	SX20	MXN20	158	162	564	547.7	132.8	25.3	—	—	—	—	605	566.8	27.7	115	148	
	S3	ME3S	195	180.5	—	509.5	142	24.5	605.5	30.5	160	155	—	—	—	—	—	
		MX3S	195	180.5	—	541.5	142	27.5	631.5	34.5	160	155	—	—	—	—	—	
		ME3L	195	180.5	—	541.5	142	30	632.5	32.6	160	155	—	—	—	—	—	
		MX3L	195	180.5	—	585.5	142	36	677.5	43.4	160	155	—	—	—	—	—	

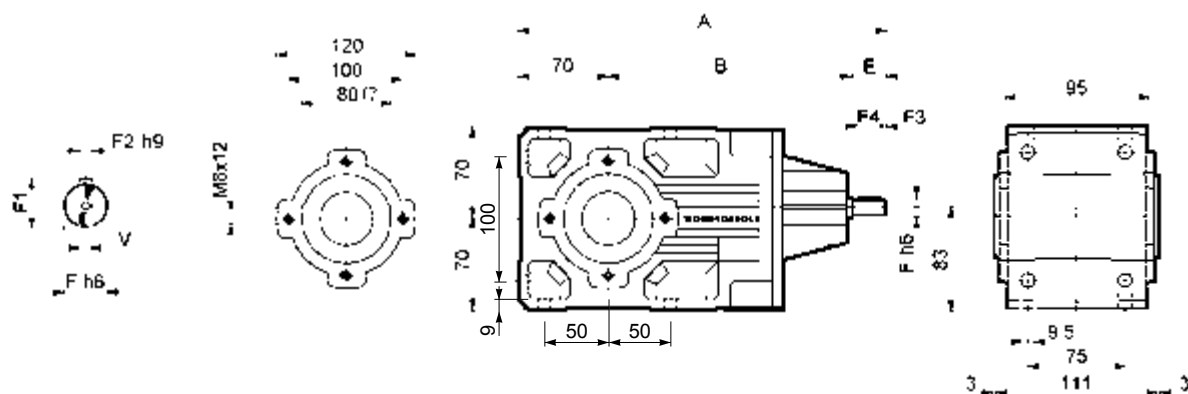


A 10...P(IEC)

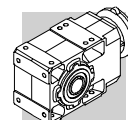


		M	M1	M2	N	N1	N2	N3	N4	X	P	
A 10 2	P63	11	12.8	4	140	115	95	—	M8x10	4	282.5	8
A 10 2	P71	14	16.3	5	160	130	110	—	M8x10	4.5	282.5	9
A 10 2	P80	19	21.8	6	200	165	130	—	M10x14.5	4	302	9
A 10 2	P90	24	27.3	8	200	165	130	—	M10x14.5	4	302	9
A 10 2	P100	28	31.3	8	250	215	180	—	M12x16	4.5	312	13
A 10 2	P112	28	31.3	8	250	215	180	—	M12x16	4.5	312	13

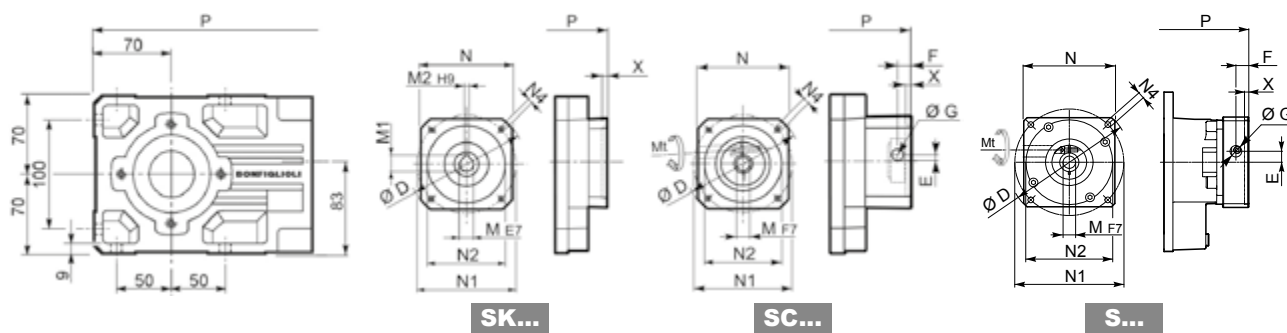
A 10...HS



		A	B	E	F	F1	F2	F3	F4	V	
A 10 2	HS	289.5	179.5	40	16	18	5	2.5	35	M6x16	7.8



A 10...SK / SC / S

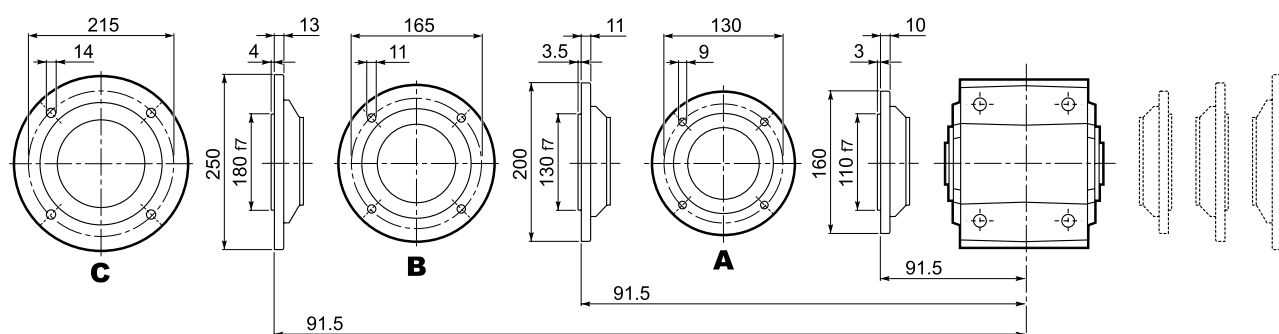


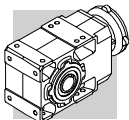
		D	M	M1	M2	N	N1	N2	N4	X	P	
A 10 2	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	254	8
A 10 2	SK60B	102	14	16.3	5	82	75	60	M5x10	4	261	8
A 10 2	SK80A	115	14	16.3	5	90	100	80	M6x12	4	261	8
A 10 2	SK80C	120	19	21.8	6	96	100	80	M6x12	4	302	9
A 10 2	SK95A	130	14	16.3	5	102	115	95	M8x12	4	302	9
A 10 2	SK95B	130	19	21.8	6	102	115	95	M8x12	4	302	9
A 10 2	SK95C	130	24	27.3	8	102	115	95	M8x12	4	302	9
A 10 2	SK110A	150	19	21.8	6	120	130	110	M8x12	5	302	9
A 10 2	SK110B	150	24	27.3	8	120	130	110	M8x12	5	302	9

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	
A 10 2	SC60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	281	9
A 10 2	SC60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	281	9
A 10 2	SC80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	281	9
A 10 2	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	325.5	10
A 10 2	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	325.5	10
A 10 2	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	325.5	10
A 10 2	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	325.5	10
A 10 2	SC110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	325.5	12
A 10 2	SC110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	325.5	12

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	
A 10 2	S11F60A2	M6	11	135	16.3	15.5	13.75	11	100	75	60	M5x14	6.5	327.5	10
A 10 2	S14F60A2	M6	11	135	15.5	16.3	13.75	14	100	75	60	M5x14	6.5	327.5	10
A 10 2	S14F80A1	M6	11	135	15.5	16.3	13.75	14	100	100	80	M6x16	6.5	327.5	10
A 10 2	S19F80A1	M6	11	135	15.5	16.3	13.75	19	100	100	80	M6x16	6.5	327.5	10
A 10 2	S16F80A1	M6	11	135	15.5	16.3	17.75	16	100	100	80	M6x16	6.5	327.5	10
A 10 2	S19F70B1	M6	11	135	15.5	16.3	17.75	19	100	90	70	M5x12	6.5	327.5	10
A 10 2	S19F95A	M6	11	135	15.5	16.3	17.75	19	100	115	95	M8x18	6.5	327.5	10
A 10 2	S24F110A	M6	14	155	15.5	16.3	17.75	24	115	130	110	M8x18	6.5	327.5	10
A 10 2	S24F95A	M6	14	135	15.5	16.3	17.75	24	100	115	95	M8x18	6.5	327.5	10

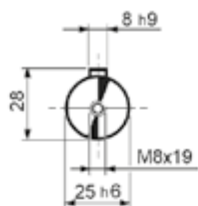
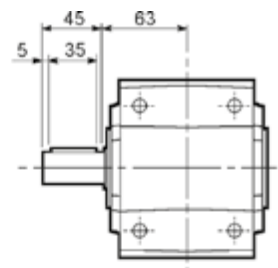
A 10...F...



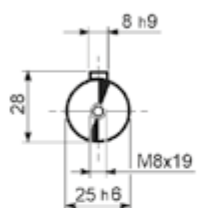
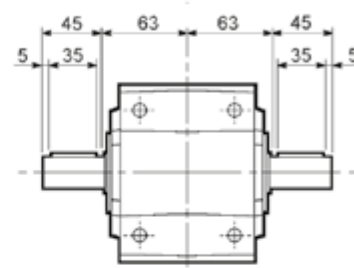


A 10

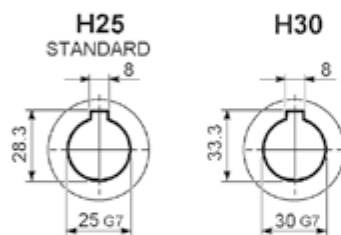
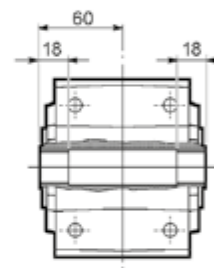
A 10...UR



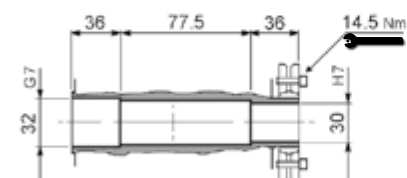
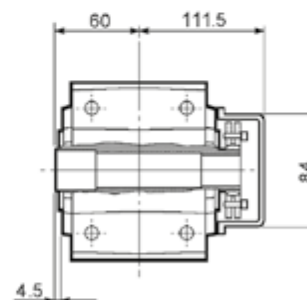
A 10...UD



A 10...UH

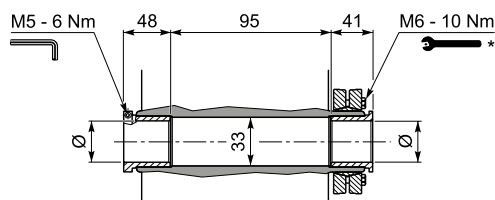
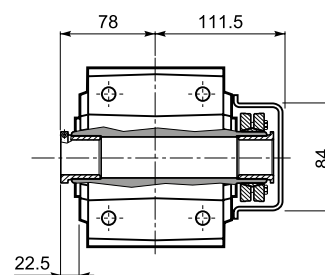


A 10...US

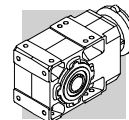


A10...QF

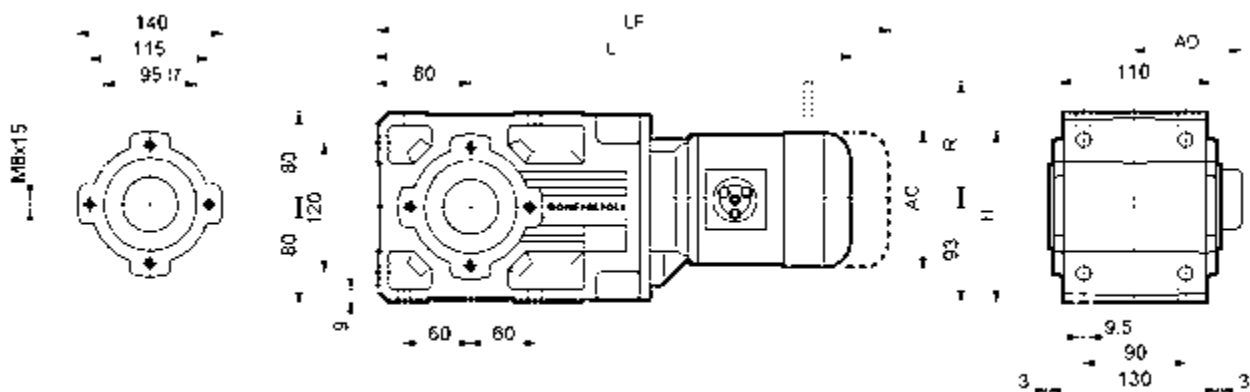
	Ø
QF25	25
QF30	30



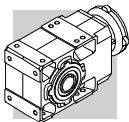
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



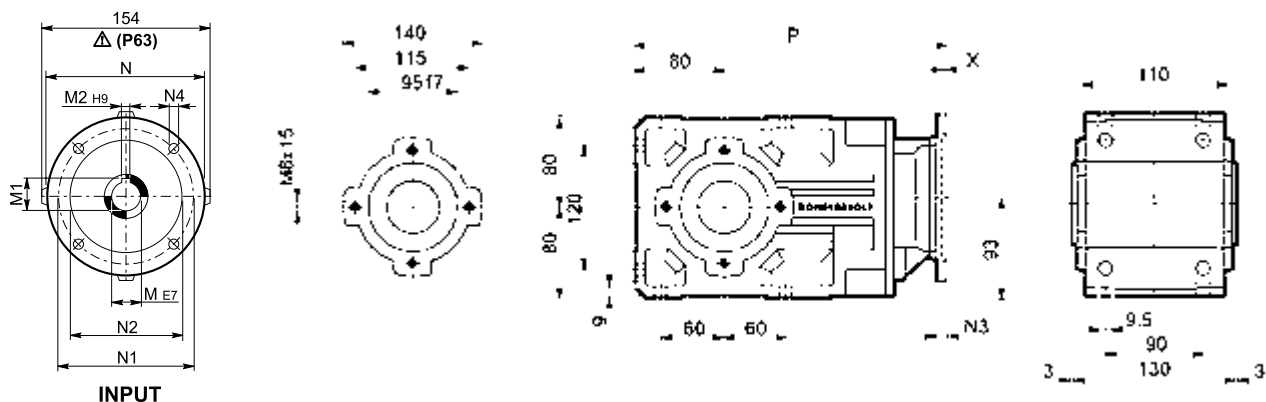
A 20...M/ME/MX/MXN



			Gearmotor - Without brake							Gearmotor - With brake									
					L				M...FD				M...FDD						
			AC	H			AD		LF		R	AD	LF			R	AD		
					plastic	metal							plastic	metal					
A 20 2	S05	M05	121	143.5	—	432	95	16	498	18	96	122	—	—	—	—	—		
		ME05	121	143.5	—	432	95	16	498	18	96	119	—	—	—	—	—		
		MX05	121	143.5	—	432	95	16	498	18	96	119	—	—	—	—	—		
	SX05	MXN05	123	144.5	478.5	456.5	122.3	17.8	—	—	—	—	505.5	471.2	18.9	106	136		
		S1	M1	138	152	—	461	108	18	522	21	103	135	—	—	—	—	—	
			ME1	138	152	—	461	108	18	522	21	103	135	—	—	—	—	—	
	MX1		138	152	—	461	108	18	522	21	103	135	—	—	—	—	—		
	SX10	MXN10	138	152	490	470.5	123.3	20.4	—	—	—	—	526	491.1	22.8	106	138		
	S2	ME2S	156	161	—	490	119	22	560	24.1	129	143	—	—	—	—	—		
		MX2S	156	161	—	534	119	27.1	606	31.3	129	143	—	—	—	—	—		
	SX20	MXN20	158	162	487.5	471.2	132.8	29.3	—	—	—	—	528.5	490.3	31.5	115	148		
	S3	ME3S	195	180.5	—	533	142	28.5	629	34.5	160	155	—	—	—	—	—		
		MX3S	195	180.5	—	565	142	31.5	655	38.5	160	155	—	—	—	—	—		
		ME3L	195	180.5	—	565	142	34	656	40	160	155	—	—	—	—	—		
		MX3L	195	180.5	—	609	142	40	701	47	160	155	—	—	—	—	—		
A 20 3	S05	M05	121	143.5	—	457.5	95	16	553.5	18	96	122	—	—	—	—	—		
		ME05	121	143.5	—	457.5	95	16	553.5	18	96	119	—	—	—	—	—		
		MX05	121	143.5	—	457.5	95	16	553.5	18	96	119	—	—	—	—	—		
	SX05	MXN05	123	144.5	504	482	122.3	17.8	—	—	—	—	531	496.7	18.9	106	136		
	S1	M1	138	152	—	486.5	108	19	577.5	21	103	135	—	—	—	—	—		
		ME1	138	152	—	486.5	108	19	577.5	21	103	135	—	—	—	—	—		
		MX1	138	152	—	486.5	108	19	577.5	21	103	135	—	—	—	—	—		
	SX10	MXN10	138	152	515.5	496	123.3	21.4	—	—	—	—	551.5	516.6	23.8	106	138		
	S2	ME2S	156	161	—	545.5	119	23	615.5	24.6	129	143	—	—	—	—	—		
		MX2S	156	161	—	589.5	119	28.1	661.5	31.9	129	143	—	—	—	—	—		
	SX20	MXN20	158	162	643	626.7	132.8	30.3	—	—	—	—	684	645.8	32.5	115	148		
	S3	ME3S	195	180.5	—	588.5	142	29.5	684.5	35.5	160	155	—	—	—	—	—		
		MX3S	195	180.5	—	620.5	142	32.5	710.5	39.5	160	155	—	—	—	—	—		
		ME3L	195	180.5	—	620.5	142	35	711.5	41	160	155	—	—	—	—	—		
		MX3L	195	180.5	—	664.5	142	41	756.5	48	160	155	—	—	—	—	—		

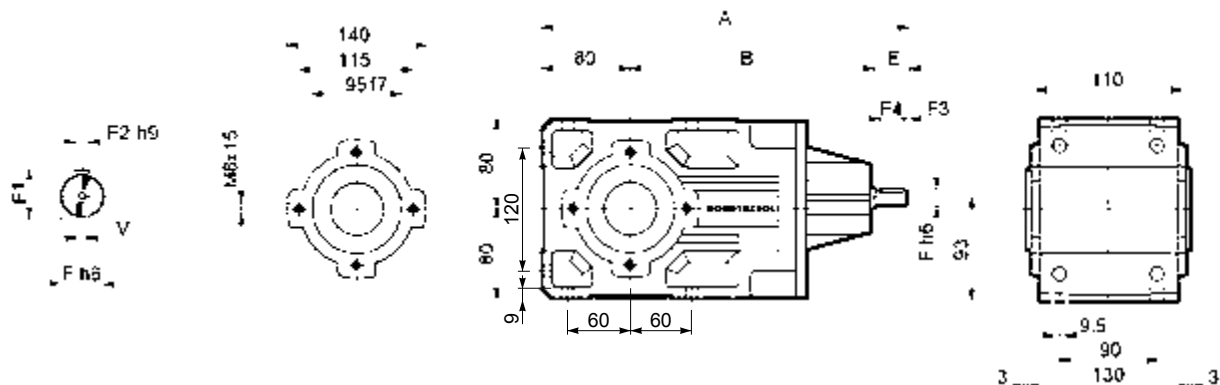


A 20...P(IEC)



		M	M1	M2	N	N1	N2	N3	N4	X	P	
A 20 2	P63	11	12.8	4	140	115	95	—	M8x19	4	306	12
A 20 2	P71	14	16.3	5	160	130	110	—	M8x16	4.5	306	12
A 20 2	P80	19	21.8	6	200	165	130	—	M10x14.5	4	325.5	13
A 20 2	P90	24	27.3	8	200	165	130	—	M10x14.5	4	325.5	13
A 20 2	P100	28	31.3	8	250	215	180	—	M12x16	4.5	335.5	17
A 20 2	P112	28	31.3	8	250	215	180	—	M12x16	4.5	335.5	17
A 20 3	P63	11	12.8	4	140	115	95	—	M8x19	4	361.5	13
A 20 3	P71	14	16.3	5	160	130	110	—	M8x16	4.5	361.5	13
A 20 3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	381	14
A 20 3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	381	14
A 20 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	391	18
A 20 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	391	18

A 20...HS

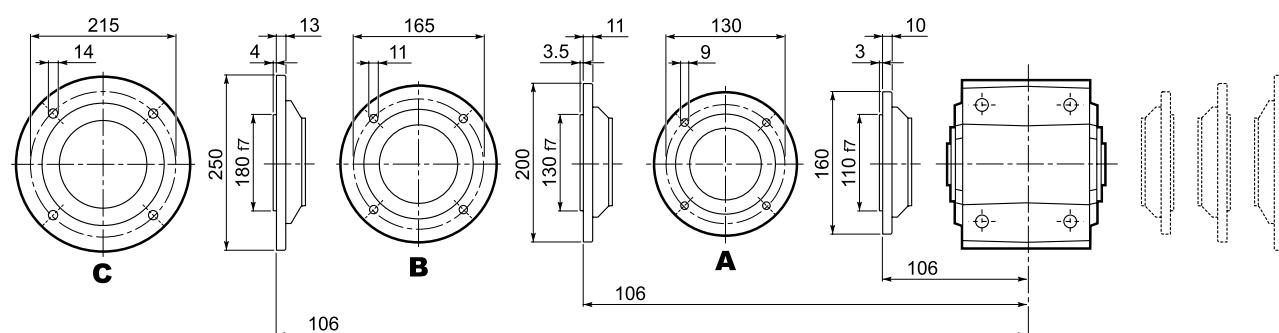


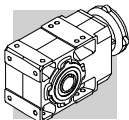
		A	B	E	F	F1	F2	F3	F4	V	Kg
A 20 2	HS	356	236	40	19	21.5	6	2.5	35	M6x16	11.9
A 20 3	HS	368.5	248.5	40	16	18	5	2.5	35	M6x16	12.2



		 Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P			
													 2x	 3x		
A 20 2/3	S11F60A2	M6	11	135	16.3	15.5	13.75	11	100	75	60	M5x14	6.5	351	406.5	14/15
A 20 2/3	S14F60A2	M6	11	135	15.5	16.3	13.75	14	100	75	60	M5x14	6.5	351	406.5	14/15
A 20 2/3	S14F80A1	M6	11	135	15.5	16.3	13.75	14	100	100	80	M6x16	6.5	351	406.5	14/15
A 20 2/3	S19F80A1	M6	11	135	15.5	16.3	13.75	19	100	100	80	M6x16	6.5	351	406.5	14/15
A 20 2/3	S16F80A1	M6	11	135	15.5	16.3	17.75	16	100	100	80	M6x16	6.5	351	406.5	14/15
A 20 2/3	S19F70B1	M6	11	135	15.5	16.3	17.75	19	100	90	70	M5x12	6.5	351	406.5	14/15
A 20 2/3	S19F95A	M6	11	135	15.5	16.3	17.75	19	100	115	95	M8x18	6.5	351	406.5	14/15
A 20 2/3	S24F110A	M6	14	155	15.5	16.3	17.75	24	115	130	110	M8x18	6.5	351	406.5	14/15
A 20 2/3	S24F95A	M6	14	135	15.5	16.3	17.75	24	100	115	95	M8x18	6.5	351	406.5	14/15

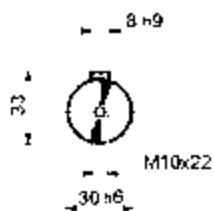
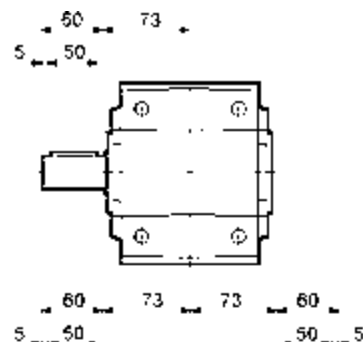
A 20...F...



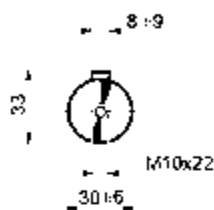
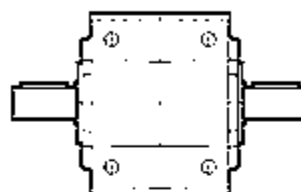


A 20

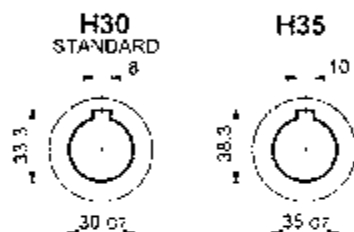
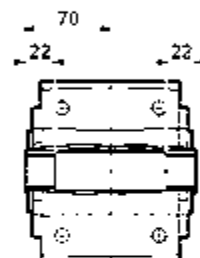
A 20...UR



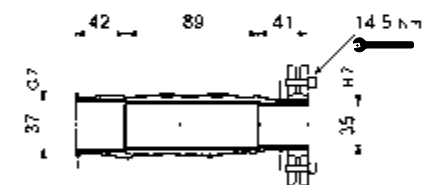
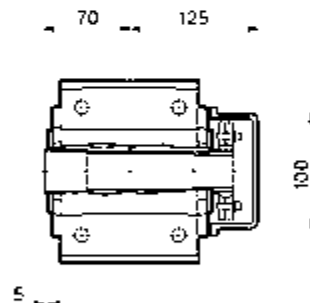
A 20...UD



A 20...UH

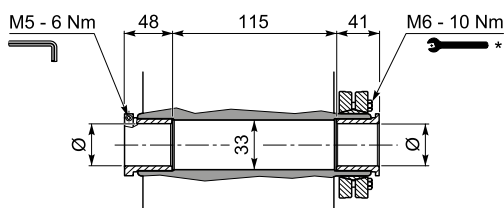
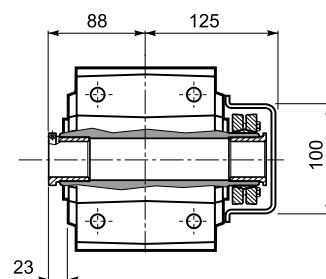


A 20...US

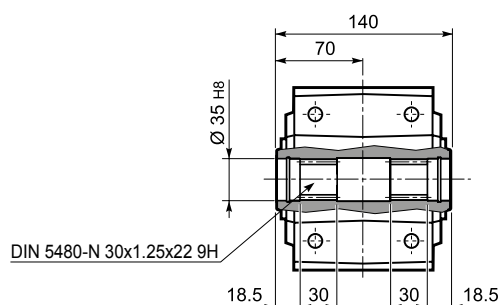


A 20...QF

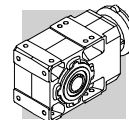
	Ø
QF25	25
QF30	30



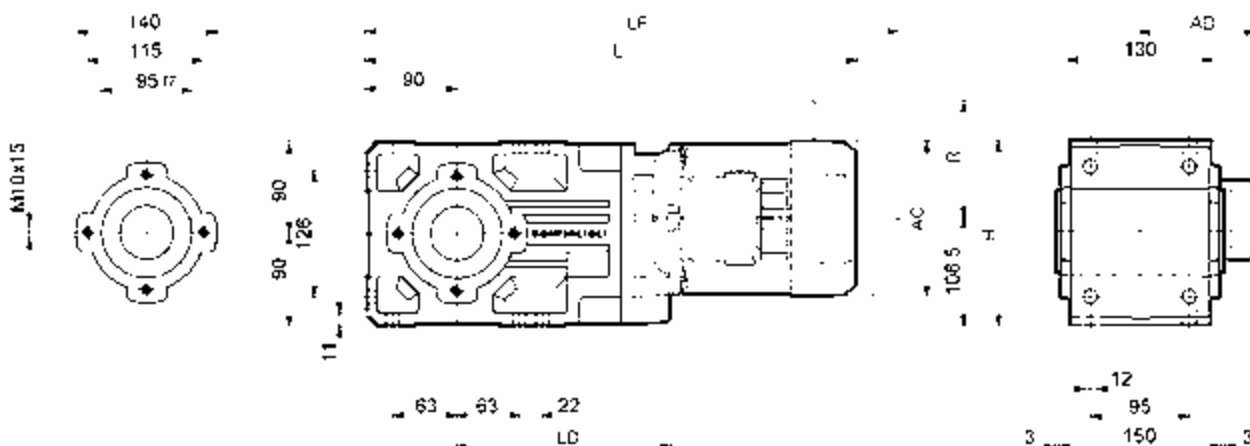
A 20...UV



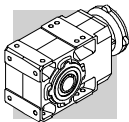
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



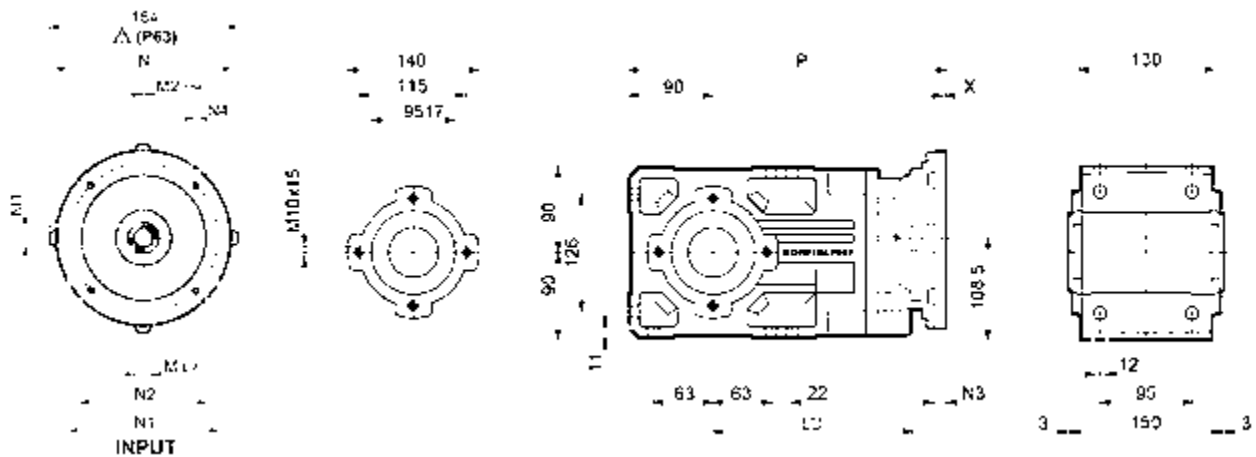
A 30...M/ME/MX/MXN



			Gearmotor - Without brake							Gearmotor - With brake								
			AC	H	L		LD	AD		M...FD				M...FDD				
					plastic	metal				LF		R	AD	LF			R	AD
														plastic	metal			
A 30 2	S1	M1	138	177.5	—	488	201	108	22	549	24	103	135	—	—	—	—	—
		ME1	138	177.5	—	488	201	108	22	549	24	103	135	—	—	—	—	—
		MX1	138	177.5	—	488	201	108	22	549	24	103	135	—	—	—	—	—
	SX10	MXN10	138	177.5	517	497.5	201	123.3	24.4	—	—	—	—	553	518.1	26.8	—	—
	S2	ME2S	156	186.5	—	517	213	119	25	587	27.1	129	143	—	—	—	—	—
		MX2S	156	186.5	—	561	213	119	30.1	633	34.6	129	143	—	—	—	—	—
	S3	ME3S	195	206	—	560	223	142	31.5	656	37.5	160	155	—	—	—	—	—
		MX3S	195	206	—	592	223	142	34.5	682	41.5	160	155	—	—	—	—	—
		ME3L	195	206	—	592	223	142	38	683	44	160	155	—	—	—	—	—
	MX3L	195	206	—	636	223	142	44	728	51	160	155	—	—	—	—	—	
A 30 3	S05	M05	121	169	—	516.5	—	95	21	582.5	22	96	122	—	—	—	—	—
		ME05	121	169	—	516.5	—	95	21	582.5	22	96	119	—	—	—	—	—
		MX05	121	169	—	516.5	—	95	21	582.5	22	96	119	—	—	—	—	—
	SX05	MXN05	123	170	563	541	—	122.3	22.8	—	—	—	—	590	555.7	23.9	106	136
	S1	M1	138	177.5	—	545.5	—	108	23	606.5	26	103	135	—	—	—	—	—
		ME1	138	177.5	—	545.5	—	108	23	606.5	26	103	135	—	—	—	—	—
		MX1	138	177.5	—	545.5	—	108	23	606.5	26	103	135	—	—	—	—	—
	SX10	MXN10	138	177.5	574.5	555	—	123.3	25.4	—	—	—	—	610.5	575.6	27.8	106	138
	S2	ME2S	156	186.5	—	574.5	—	119	25	644.5	29.1	129	143	—	—	—	—	—
		MX2S	156	186.5	—	618.5	—	119	30.1	690.5	36.6	129	143	—	—	—	—	—
	SX20	MXN20	158	187.5	672	655.7	—	132.8	32.3	—	—	—	—	713	674.8	34.5	115	148
	S3	ME3S	195	206	—	617.5	—	142	31.5	713.5	38.4	160	155	—	—	—	—	—
		MX3S	195	206	—	649.5	—	142	34.5	739.5	41.5	160	155	—	—	—	—	—
		ME3L	195	206	—	649.5	—	142	38	740.5	44	160	155	—	—	—	—	—
		MX3L	195	206	—	693.5	—	142	44	785.5	51	160	155	—	—	—	—	—

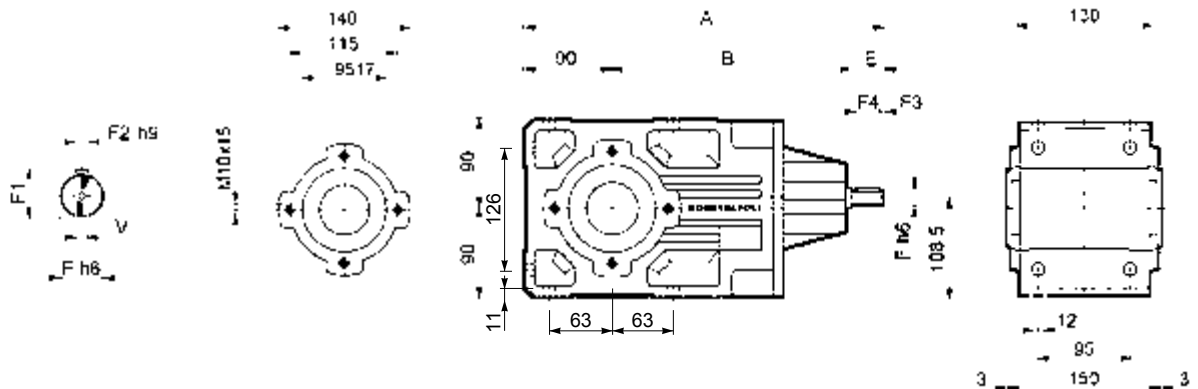


A 30...P(IEC)



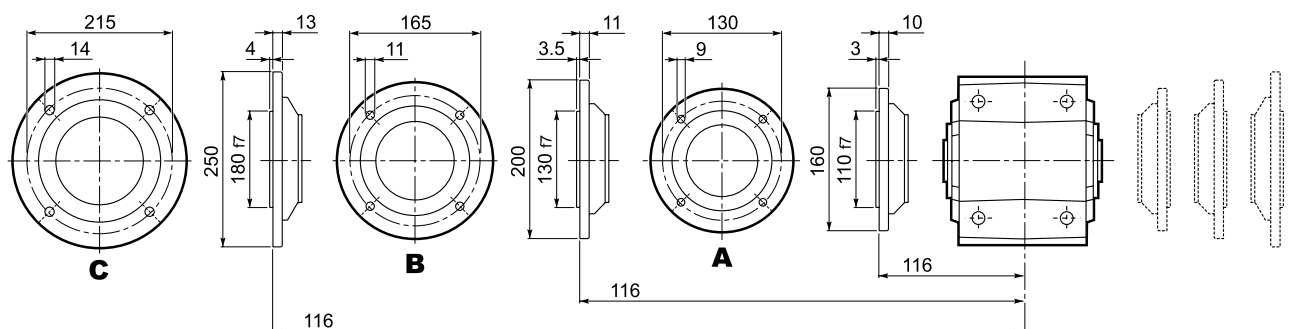
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 30 2	P63	213	11	12.8	4	140	115	95	—	M8x19	4	333	16
A 30 2	P71	213	14	16.3	5	160	130	110	—	M8x16	4.5	333	16
A 30 2	P80	223	19	21.8	6	200	165	130	—	M10x14.5	4	352.5	17
A 30 2	P90	223	24	27.3	8	200	165	130	—	M10x14.5	4	352.5	17
A 30 2	P100	223	28	31.3	8	250	215	180	—	M12x16	4.5	362.5	20
A 30 2	P112	223	28	31.3	8	250	215	180	—	M12x16	4.5	362.5	20
A 30 3	P63	—	11	12.8	4	140	115	95	—	M8x19	4	390.5	17
A 30 3	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	390.5	17
A 30 3	P80	—	19	21.8	6	200	165	130	—	M10x14.5	4	410	18
A 30 3	P90	—	24	27.3	8	200	165	130	—	M10x14.5	4	410	18
A 30 3	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	420	22
A 30 3	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	420	22

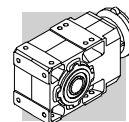
A 30...HS



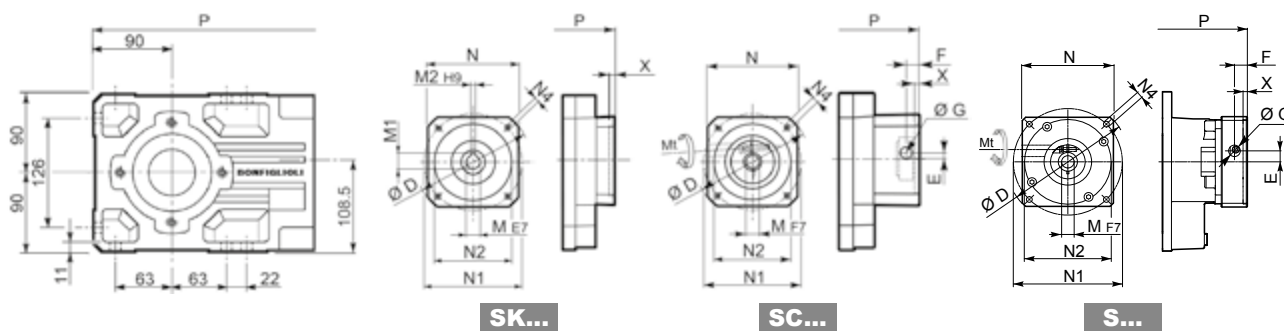
		A	B	E	F	F1	F2	F3	F4	V	Kg
A 30 2	HS	383	253	40	19	21.5	6	2.5	35	M6x16	16.7
A 30 3	HS	397.5	267.5	40	16	18	5	2.5	35	M6x16	16.5

A 30...F...





A 30...SK / SC / S

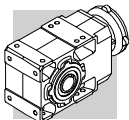


		D	M	M1	M2	N	N1	N2	N4	X	P		Kg
											2x	3x	
A 30 2/3	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	304.5	362	15/16
A 30 2/3	SK60B	102	14	16.3	5	82	75	60	M5x10	4	311.5	369	16/17
A 30 2/3	SK80A	115	14	16.3	5	90	100	80	M6x12	4	311.5	369	16/17
A 30 2/3	SK80C	120	19	21.8	6	96	100	80	M6x12	4	352.5	410	17/18
A 30 2/3	SK95A	130	14	16.3	5	102	115	95	M8x12	4	352.5	410	17/18
A 30 2/3	SK95B	130	19	21.8	6	102	115	95	M8x12	4	352.5	410	17/18
A 30 2/3	SK95C	130	24	27.3	8	102	115	95	M8x12	4	352.5	410	17/18
A 30 2/3	SK110A	150	19	21.8	6	120	130	110	M8x12	5	352.5	410	17/18
A 30 2/3	SK110B	150	24	27.3	8	120	130	110	M8x12	5	352.5	410	17/18
A 30 2	SK130A	188	24	27.3	8	142	165	130	M10x20	5	352.5	—	18

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		Kg
													2x	3x	
A 30 2/3	SC60A	M6 15	102	7	12.5	12.5	11	82	75	60	M5x10	4	331.5	389	16/17
A 30 2/3	SC60B	M6 15	102	7	12.5	12.5	14	82	75	60	M5x10	4	331.5	389	17/18
A 30 2/3	SC80A	M6 15	115	6	12.5	12.5	14	90	100	80	M6x12	4	331.5	389	17/18
A 30 2/3	SC80C	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	376	433.5	18/19
A 30 2/3	SC95A	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	376	433.5	18/19
A 30 2/3	SC95B	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	376	433.5	18/19
A 30 2/3	SC95C	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	376	433.5	18/19
A 30 2/3	SC 110A	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	376	433.5	19/20
A 30 2/3	SC 110B	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	376	433.5	19/20
A 30 2	SC 130A	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	376	—	20

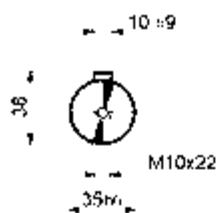
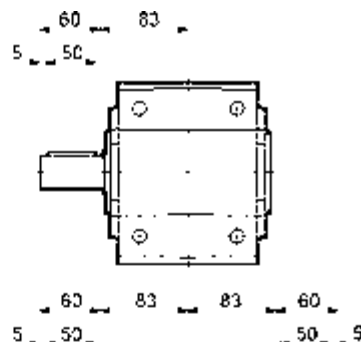
		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		Kg
													2x	3x	
A 30 2	S14F80A2	M6 11	165	17	19.5	17.75	14	130	100	80	M6x15	4	382	—	19
A 30 2	S16F80A2	M6 11	165	17	19.5	17.75	16	130	100	80	M6x15	4	382	—	19
A 30 2	S19F110B1	M6 11	165	17	29.5	17.75	19	130	145	110	M8x20	6.5	392	—	19
A 30 2	S22F110B1	M6 14	165	17	29.5	17.75	22	130	145	110	M8x20	6.5	392	—	19
A 30 2	S24F110B1	M6 14	165	17	29.5	17.75	24	130	145	110	M8x20	6.5	392	—	19
A 30 2	S19F80A2	M6 11	165	17	19.5	17.75	19	130	100	80	M6x15	4	382	—	19
A 30 2	S19F95A1	M6 11	165	17	19.5	17.75	19	130	115	95	M8x20	6.5	382	—	19
A 30 2	S24F110A1	M6 14	165	17	19.5	17.75	24	130	130	110	M8x20	4	382	—	19
A 30 2	S24F130A	M6 14	190	17	19.5	17.75	24	140	165	130	M10x20	6.5	382	—	19
A 30 2	S24F95A1	M6 14	165	17	19.5	17.75	24	130	115	95	M8x20	6.5	382	—	19
A 30 2	S28F130A	M8 20	190	17	19.5	17.75	28	140	165	130	M10x20	6.5	382	—	19
A 30 2	S28F180A	M8 20	205	21.5	29.5	17.75	28	190	215	180	M14x25	5.5	392	—	19

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		Kg
													2x	3x	
A 30 3	S11F60A2	M6 11	135	16.3	15.5	13.75	11	100	75	60	M5x14	6.5	—	435.5	19
A 30 3	S14F60A2	M6 11	135	15.5	16.3	13.75	14	100	75	60	M5x14	6.5	—	435.5	19
A 30 3	S14F80A1	M6 11	135	15.5	16.3	13.75	14	100	100	80	M6x16	6.5	—	435.5	19
A 30 3	S19F80A1	M6 11	135	15.5	16.3	13.75	19	100	100	80	M6x16	6.5	—	435.5	19
A 30 3	S16F80A1	M6 11	135	15.5	16.3	17.75	16	100	100	80	M6x16	6.5	—	435.5	19
A 30 3	S19F70B1	M6 11	135	15.5	16.3	17.75	19	100	90	70	M5x12	6.5	—	435.5	19
A 30 3	S19F95A	M6 11	135	15.5	16.3	17.75	19	100	115	95	M8x18	6.5	—	435.5	19
A 30 3	S24F110A	M6 14	155	15.5	16.3	17.75	24	115	130	110	M8x18	6.5	—	435.5	19
A 30 3	S24F95A	M6 14	135	15.5	16.3	17.75	24	100	115	95	M8x18	6.5	—	435.5	19

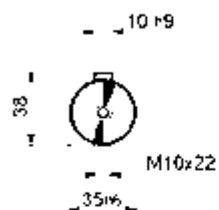
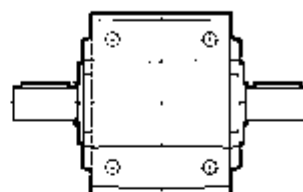


A 30

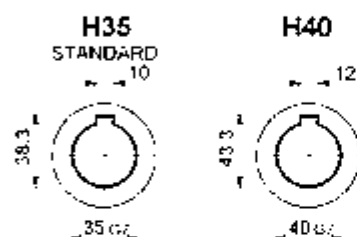
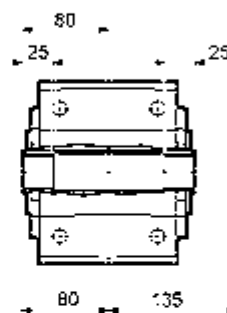
A 30...UR



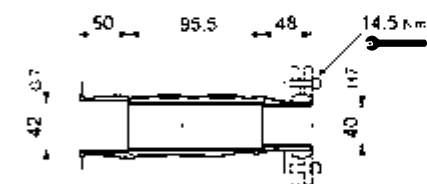
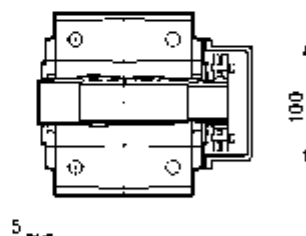
A 30...UD



A 30...UH

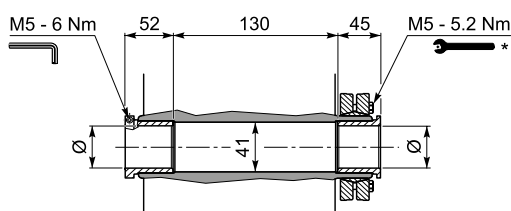
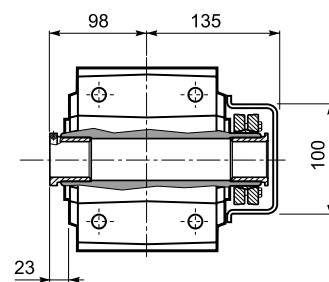


A 30...US

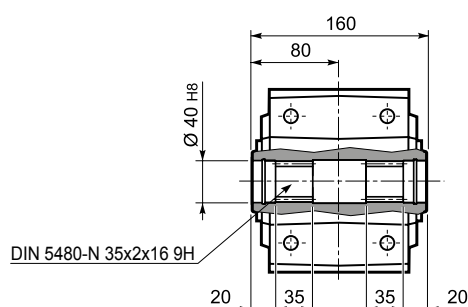


A 30...QF

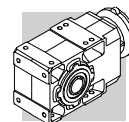
	Ø
QF35	35
QF40	40



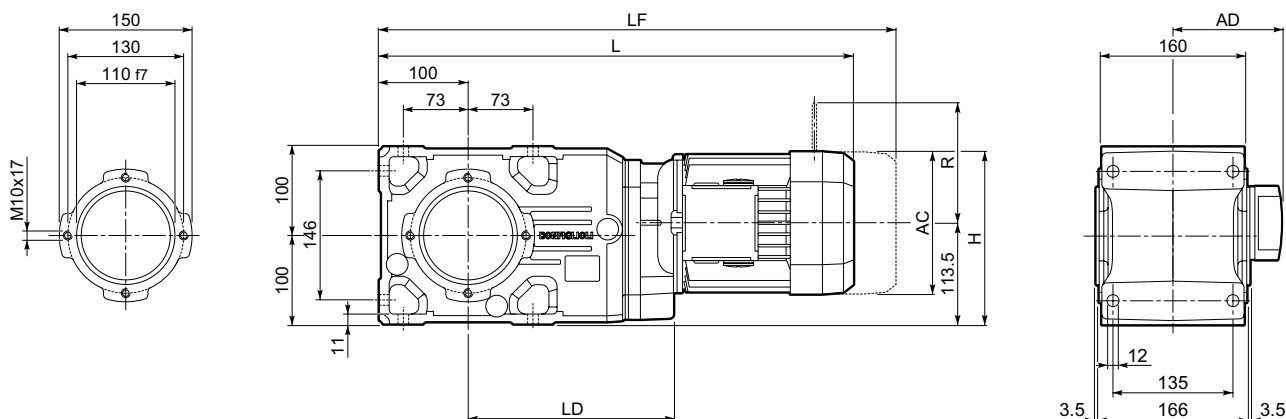
A 30...UV



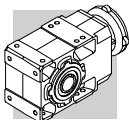
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



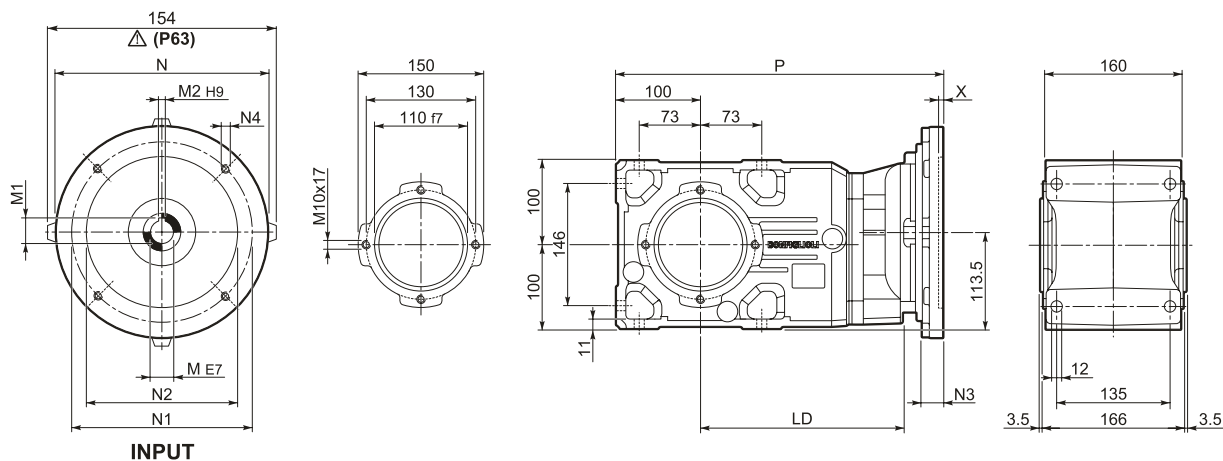
A 35...M/ME/MX/MXN



				Gearmotor - Without brake							Gearmotor - With brake								
				AC	H	L		LD	AD		M...FD				M...FDD				
						plastic	metal				LF		R	AD	LF			R	AD
															plastic	metal			
A 35 2	S1	M1		138	182.5	—	514.5	217.5	108	34	575.5	36	103	135	—	—	—	—	—
		ME1		138	182.5	—	514.5	217.5	108	34	575.5	36	103	135	—	—	—	—	—
		MX1		138	182.5	—	514.5	217.5	108	34	575.5	36	103	135	—	—	—	—	—
	SX10	MXN10		138	182.5	543.5	524.5	217.5	123.3	36.4	—	—	—	—	579.5	544.6	38.8	106	138
	S2	ME2S		156	191.5	—	543.5	229.5	119	37	613.5	39.1	129	143	—	—	—	—	—
		MX2S		156	191.5	—	587.5	229.5	119	37	659.5	46.3	129	143	—	—	—	—	—
	S3	ME3S		195	211	—	586.5	239.5	142	43.5	682.5	49.5	160	155	—	—	—	—	—
		MX3S		195	211	—	618.5	239.5	142	43.5	708.5	50.5	160	155	—	—	—	—	—
		ME3L		195	211	—	618.5	239.5	142	50	709.5	56	160	155	—	—	—	—	—
	S4	MX3L		195	211	—	652.5	239.5	142	50	744.5	57	160	155	—	—	—	—	—
		ME4	MX4	258	242.5	—	726.5	—	193	89	835.5	102	204	210	—	—	—	—	—
		ME4LB	MX4LA	258	242.5	—	761.5	—	193	97	860.5	113	226	210	—	—	—	—	—
A 35 3	S05	M05S		121	174	—	543	—	95	33	609	34	96	122	—	—	—	—	—
		ME05S		121	174	—	543	—	95	33	609	34	96	119	—	—	—	—	—
	SX05	MXN05		123	175	589.5	567.5	—	122.3	34.8	—	—	—	—	637	602.1	35.9	106	136
	S1	M1		138	182.5	—	572	—	108	35	633	38	103	135	—	—	—	—	—
		ME1		138	182.5	—	572	—	108	35	633	38	103	135	—	—	—	—	—
		MX1		138	182.5	—	572	—	108	35	633	38	103	135	—	—	—	—	—
	SX10	MXN10		138	182.5	601	581.5	—	123.3	37.4	—	—	—	—	739.5	701.3	39.8	106	138
	S2	ME2S		156	191.5	—	601	—	119	37	671	41.1	129	143	—	—	—	—	—
		MX2S		156	191.5	—	645	—	119	37	717	48.3	129	143	—	—	—	—	—
	SX20	MXN20		158	192.5	698.5	682.2	—	132.8	39.2	—	—	—	—	713	674.8	41.4	115	148
	S3	ME3S		195	211	—	644	—	142	43.5	740	50.4	160	155	—	—	—	—	—
		MX3S		195	211	—	676	—	142	43.5	766	52.4	160	155	—	—	—	—	—
		ME3L		195	211	—	676	—	142	50	767	53.6	160	155	—	—	—	—	—
		MX3L		195	211	—	720	—	142	50	812	59.4	160	155	—	—	—	—	—

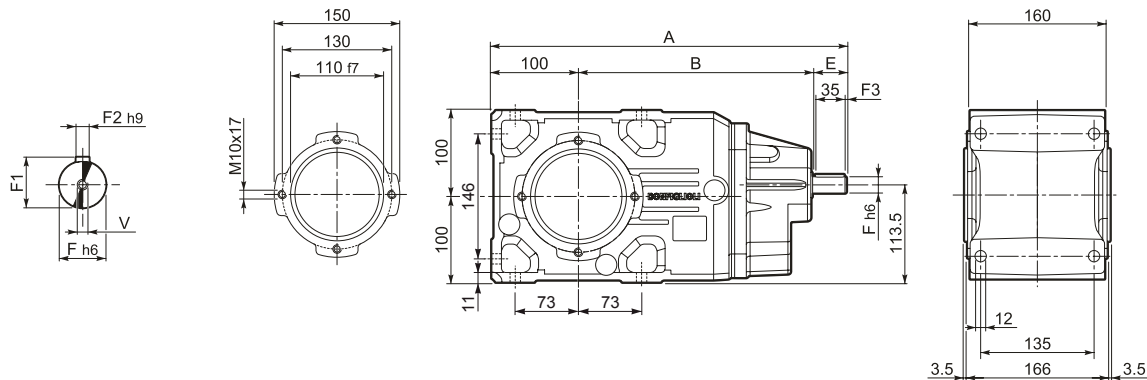


A 35...P(IEC)



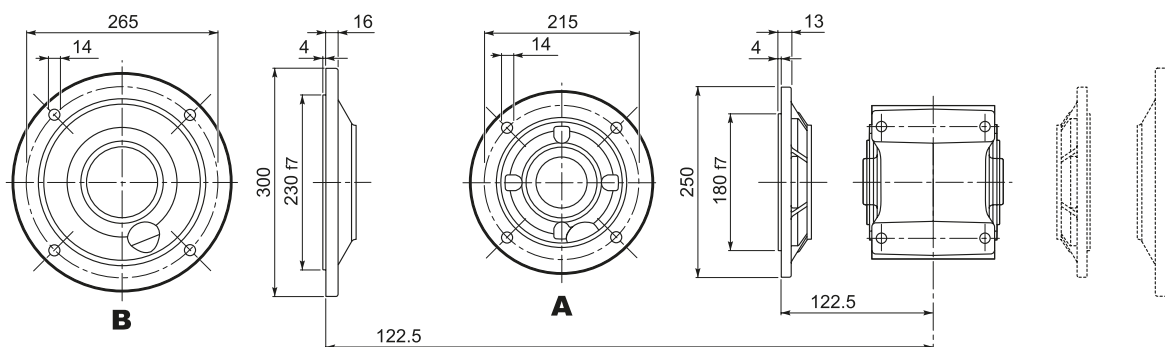
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 35 2	P63	229.5	11	12.8	4	140	115	95	—	M8x19	4	359.5	28
A 35 2	P71	229.5	14	16.3	5	160	130	110	—	M8x16	4.5	359.5	28
A 35 2	P80	239.5	19	21.8	6	200	165	130	—	M10x14.5	4	379	29
A 35 2	P90	239.5	24	27.3	8	200	165	130	—	M10x14.5	4	379	29
A 35 2	P100	239.5	28	31.3	8	250	215	180	—	M12x16	4.5	389	32
A 35 2	P112	239.5	28	31.3	8	250	215	180	—	M12x16	4.5	389	32
A 35 2	P132	—	38	41.3	10	300	265	230	16	14	5	425.5	40
A 35 3	P63	—	11	12.8	4	140	115	95	—	M8x19	4	417	29
A 35 3	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	417	29
A 35 3	P80	—	19	21.8	6	200	165	130	—	M10x14.5	4	436.5	30
A 35 3	P90	—	24	27.3	8	200	165	130	—	M10x14.5	4	436.5	30
A 35 3	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	446.5	34
A 35 3	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	446.5	34

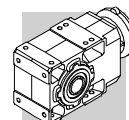
A 35...HS



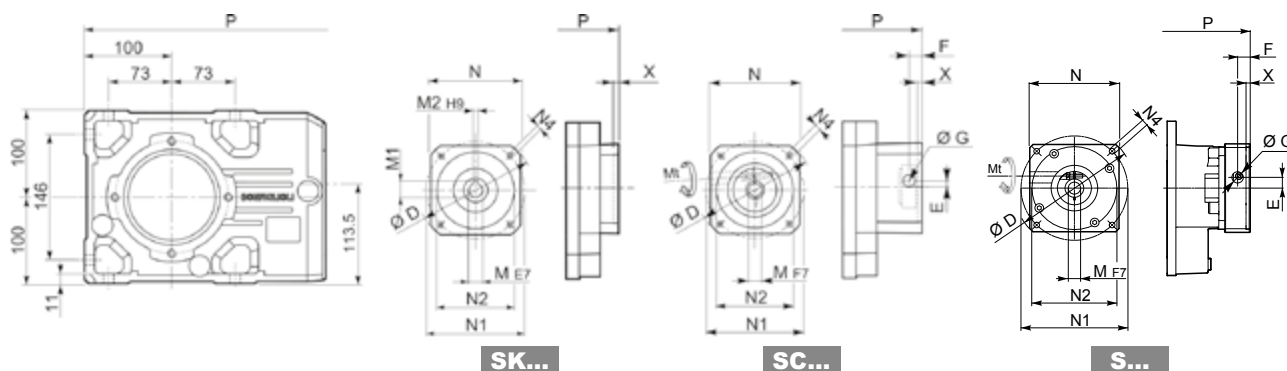
		A	B	E	F	F1	F2	F3	F4	V	Kg
A 35 2	HS	409.5	269.5	40	19	21.5	6	2.5	35	M6x16	29
A 35 3		424	284	40	16	18	5	2.5	35	M6x16	29

A 35...F...





A 35...SK / SC / S

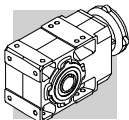


		D	M	M1	M2	N	N1	N2	N4	X	P		
											2x 	3x 	
A 35 2/3	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	331	388.5	27/28
A 35 2/3	SK60B	102	14	16.3	5	82	75	60	M5x10	4	338	395.5	28/29
A 35 2/3	SK80A	115	14	16.3	5	90	100	80	M6x12	4	338	395.5	28/29
A 35 2/3	SK80C	120	19	21.8	6	96	100	80	M6x12	4	379	436.5	29/30
A 35 2/3	SK95A	130	14	16.3	5	102	115	95	M8x12	4	379	436.5	29/30
A 35 2/3	SK95B	130	19	21.8	6	102	115	95	M8x12	4	379	436.5	29/30
A 35 2/3	SK95C	130	24	27.3	8	102	115	95	M8x12	4	379	436.5	29/30
A 35 2/3	SK110A	150	19	21.8	6	120	130	110	M8x12	5	379	436.5	29/30
A 35 2/3	SK110B	150	24	27.3	8	120	130	110	M8x12	5	379	436.5	29/30
A 35 2	SK130A	188	24	27.3	8	142	165	130	M10x20	5	379	—	30

		 Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		
													 2x	 3x	
A 35 2/3	SC60A	M6 15	102	7	12.5	12.5	11	82	75	60	M5x10	4	358	415.5	28/29
A 35 2/3	SC60B	M6 15	102	7	12.5	12.5	14	82	75	60	M5x10	4	358	415.5	29/30
A 35 2/3	SC80A	M6 15	115	6	12.5	12.5	14	90	100	80	M6x12	4	358	415.5	29/30
A 35 2/3	SC80C	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	402.5	460	30/31
A 35 2/3	SC95A	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	402.5	460	30/31
A 35 2/3	SC95B	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	402.5	460	30/31
A 35 2/3	SC95C	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	402.5	460	30/31
A 35 2/3	SC110A	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	402.5	460	32/33
A 35 2/3	SC110B	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	402.5	460	32/33
A 35 2	SC130A	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	402.5	—	33

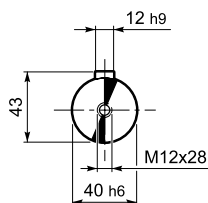
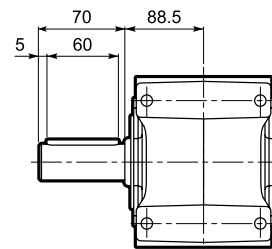
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		
														2x 	3x 	
A 35 2	S14F80A2	M6	11	165	17	19.5	17.75	14	130	100	80	M6x15	4	408.5	—	31
A 35 2	S16F80A2	M6	11	165	17	19.5	17.75	16	130	100	80	M6x15	4	408.5	—	31
A 35 2	S19F110B1	M6	11	165	17	29.5	17.75	19	130	145	110	M8x20	6.5	408.5	—	31
A 35 2	S22F110B1	M6	14	165	17	29.5	17.75	22	130	145	110	M8x20	6.5	418.5	—	31
A 35 2	S24F110B1	M6	14	165	17	29.5	17.75	24	130	145	110	M8x20	6.5	418.5	—	31
A 35 2	S19F80A2	M6	11	165	17	19.5	17.75	19	130	100	80	M6x15	4	408.5	—	31
A 35 2	S19F95A1	M6	11	165	17	19.5	17.75	19	130	115	95	M8x20	6.5	408.5	—	31
A 35 2	S24F110A1	M6	14	165	17	19.5	17.75	24	130	130	110	M8x20	4	408.5	—	31
A 35 2	S24F130A	M6	14	190	17	19.5	17.75	24	140	165	130	M10x20	6.5	408.5	—	31
A 35 2	S24F95A1	M6	14	165	17	19.5	17.75	24	130	115	95	M8x20	6.5	408.5	—	31
A 35 2	S28F130A	M8	20	190	17	19.5	17.75	28	140	165	130	M10x20	6.5	408.5	—	31
A 35 2	S28F180A	M8	20	205	21.5	29.5	17.75	28	190	215	180	M14x25	5.5	418.5	—	31

		 Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		
													2x 	3x 	
A 35 3	S11F60A2	M6 11	135	16.3	15.5	13.75	11	100	75	60	M5x14	6.5	—	462	32
A 35 3	S14F60A2	M6 11	135	15.5	16.3	13.75	14	100	75	60	M5x14	6.5	—	462	32
A 35 3	S14F80A1	M6 11	135	15.5	16.3	13.75	14	100	100	80	M6x16	6.5	—	462	32
A 35 3	S19F80A1	M6 11	135	15.5	16.3	13.75	19	100	100	80	M6x16	6.5	—	462	32
A 35 3	S16F80A1	M6 11	135	15.5	16.3	17.75	16	100	100	80	M6x16	6.5	—	462	32
A 35 3	S19F70B1	M6 11	135	15.5	16.3	17.75	19	100	90	70	M5x12	6.5	—	462	32
A 35 3	S19F95A	M6 11	135	15.5	16.3	17.75	19	100	115	95	M8x18	6.5	—	462	32
A 35 3	S24F110A	M6 14	155	15.5	16.3	17.75	24	115	130	110	M8x18	6.5	—	462	32
A 35 3	S24F95A	M6 14	135	15.5	16.3	17.75	24	100	115	95	M8x18	6.5	—	462	32

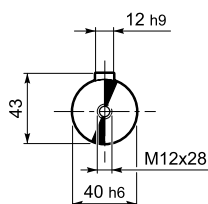
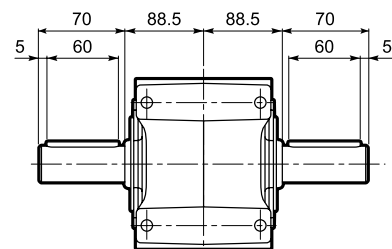


A 35

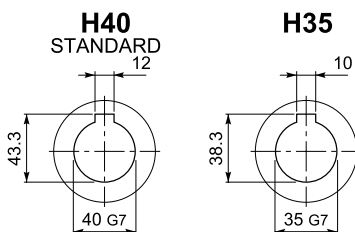
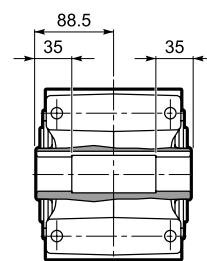
A 35...UR



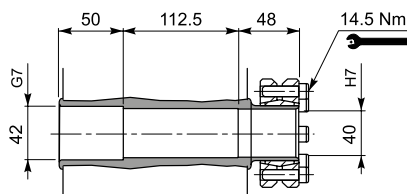
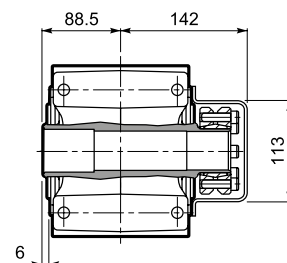
A 35...UD



A 35...UH



A 35...US

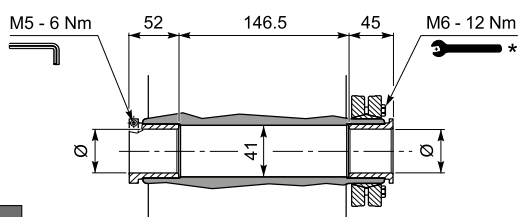
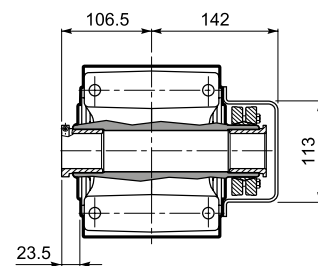


A 35...QF

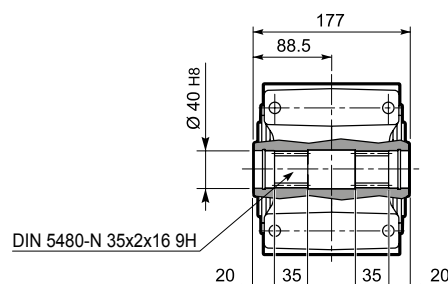
	Ø
QF35	35
QF40	40



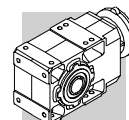
	M _{n2} max [Nm]
A 35 QF35	550



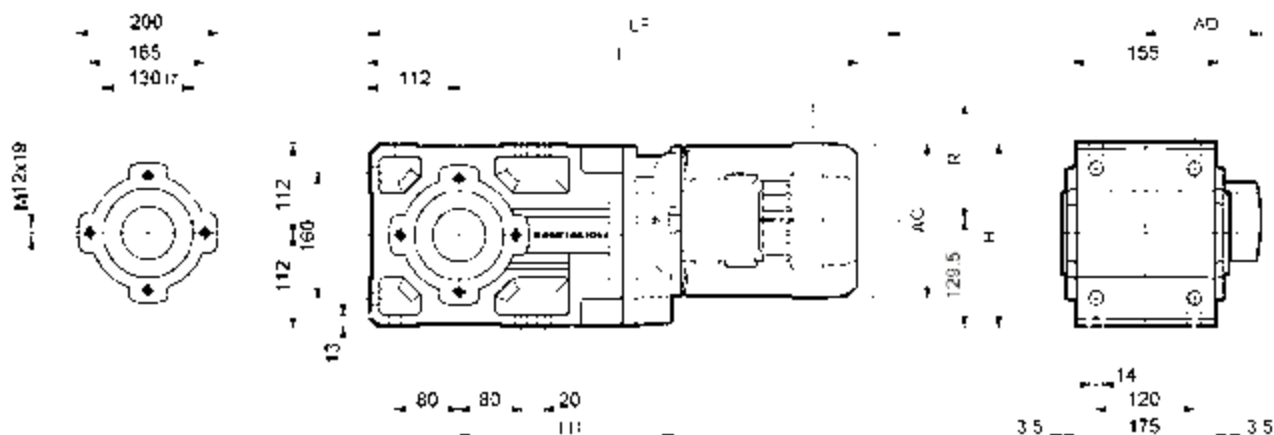
A 35...UV



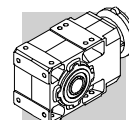
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



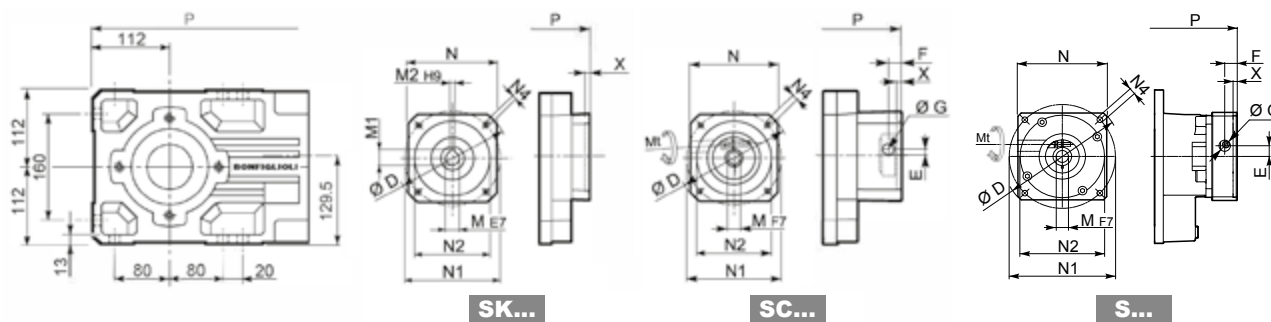
A 41...M/ME/MX/MXN



				Gearmotor - Without brake							Gearmotor - With brake									
				AC	H	L		LD	AD		M...FD				M...FDD					
						plastic	metal				LF		R	AD	LF			R	AD	
															plastic	metal				
A 41 2	S1	M1		138	198.5	—	530	216.5	108	41	591	44	103	135	—	—	—	—	—	
		ME1		138	198.5	—	530	216.5	108	41	591	44	103	135	—	—	—	—	—	
		MX1		138	198.5	—	530	216.5	108	41	591	44	103	135	—	—	—	—	—	
	S2	ME2S		156	207.5	—	559	232	119	45	629	46.8	129	143	—	—	—	—	—	
		MX2S		156	207.5	—	603	232	119	50.1	675	53.7	129	143	—	—	—	—	—	
	S3	ME3S		195	227	—	602	248	142	51.5	698	57.5	160	155	—	—	—	—	—	
		MX3S		195	227	—	634	248	142	54.5	692	61.5	160	155	—	—	—	—	—	
		ME3L		195	227	—	634	248	142	58	725	64.3	160	155	—	—	—	—	—	
	S4	MX3L		195	227	—	678	248	142	64	770	71	160	155	—	—	—	—	—	
ME4		MX4	258	258.5	—	742	—	193	92	851	105	204	210	—	—	—	—	—		
		ME4LB	MX4LA	258	258.5	—	777	—	193	100	876	116	226	210	—	—	—	—	—	
A 41 3	S05	M05		121	245	—	562.5	—	95	44	628.5	46	96	122	—	—	—	—	—	
		ME05		121	245	—	562.5	—	95	44	628.5	46	96	119	—	—	—	—	—	
		MX05		121	245	—	562.5	—	95	44	628.5	46	96	119	—	—	—	—	—	
	SX05	MXN05		123	246	609	587	—	122.3	45.8	—	—	—	—	636	601.7	46.9	106	136	
	S1	M1		138	198.5	—	591.5	—	108	46	652.5	49	103	135	—	—	—	—	—	
		ME1		138	198.5	—	591.5	—	108	46	652.5	49	103	135	—	—	—	—	—	
		MX1		138	198.5	—	591.5	—	108	46	652.5	49	103	135	—	—	—	—	—	
	SX10	MXN10		138	198.5	620.5	601	—	123.3	48.4	—	—	—	—	656.5	621.6	50.8	106	138	
	S2	ME2S		156	207.5	—	620.5	—	119	50	690.5	51.6	129	143	—	—	—	—	—	
		MX2S		156	207.5	—	664.5	—	119	55.1	736.5	58.9	129	143	—	—	—	—	—	
	SX20	MXN20		158	208.5	718	701.7	—	132.8	57.3	—	—	—	—	759	720.8	59.5	115	148	
	S3	ME3S		195	227	—	663.5	—	142	56.5	759.5	62.5	160	155	—	—	—	—	—	
		MX3S		195	227	—	695.5	—	142	59.5	785.5	66.5	160	155	—	—	—	—	—	
		ME3L		195	227	—	695.5	—	142	61	786.5	67.3	160	155	—	—	—	—	—	
		MX3L		195	227	—	739.5	—	142	67	831.5	74.8	160	155	—	—	—	—	—	



A 41...SK / SC / S

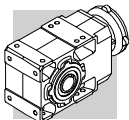


		D	M	M1	M2	N	N1	N2	N4	X	P		Kg
											2x	3x	
A41 3	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	—	408	40
A41 3	SK60B	102	14	16.3	5	82	75	60	M5x10	4	—	415	40
A41 3	SK80A	115	14	16.3	5	90	100	80	M6x12	4	—	415	40
A41 2	SK80B	120	14	16.3	5	96	100	80	M6x12	4	394.5	—	39
A41 2/3	SK80C	120	19	21.8	6	96	100	80	M6x12	4	394.5	456	39/40
A41 2/3	SK95A	130	14	16.3	5	102	115	95	M8x12	4	394.5	456	39/40
A41 2/3	SK95B	130	19	21.8	6	102	115	95	M8x12	4	394.5	456	39/41
A41 2/3	SK95C	130	24	27.3	8	102	115	95	M8x12	4	394.5	456	39/44
A41 2/3	SK110A	150	19	21.8	6	120	130	110	M8x12	5	394.5	456	39/44
A41 2/3	SK110B	150	24	27.3	8	120	130	110	M8x12	5	394.5	456	39/44
A41 2	SK130A	188	24	27.3	8	142	165	130	M10x20	5	394.5	—	41
A41 2	SK130B	189	32	35.3	10	160	165	130	M10x20	5	441	—	43
A41 2	SK180A	240	32	35.3	10	192	215	180	M12x19	5	441	—	43
A41 2	SK180B	240	38	41.3	10	192	215	180	M12x19	5	441	—	43

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		Kg
													2x	3x	
A41 3	SC60A	M6 15	102	7	12.5	12.5	11	82	75	60	M5x10	4	—	435	41
A41 3	SC60B	M6 15	102	7	12.5	12.5	14	82	75	60	M5x10	4	—	435	41
A41 3	SC80A	M6 15	115	6	12.5	12.5	14	90	100	80	M6x12	4	—	435	41
A41 2	SC80B	M6 15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	418	—	40
A41 2/3	SC80C	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	418	479.5	40/41
A41 2/3	SC95A	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	418	479.5	40/42
A41 2/3	SC95B	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	418	479.5	40/42
A41 2/3	SC95C	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	418	479.5	40/43
A41 2/3	SC110A	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	418	479.5	41/47
A41 2/3	SC110B	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	418	479.5	41/47
A41 2	SC130A	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	418	—	42
A41 2	SC130B	M8 36	189	20	17	17.75	32	160	165	130	M10x20	5	464	—	46
A41 2	SC180A	M8 36	240	20	17.5	17.75	32	192	215	180	M12x24	5	468	—	46
A41 2	SC180B	M8 36	240	20	17.5	17.75	38	192	215	180	M12x24	5	468	—	46

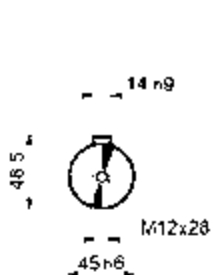
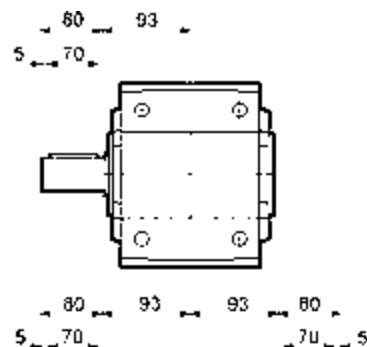
		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		Kg
													2x	3x	
A 41 2	S19F80A2	M6 11	165	17	19.5	17.75	19	140	100	80	M6x15	5	466.5	—	44
A 41 2	S19F95A1	M6 11	165	17	19.5	17.75	19	140	115	95	M8x20	6.5	466.5	—	44
A 41 2	S24F110A1	M6 14	165	17	19.5	17.75	24	140	130	110	M8x20	5	466.5	—	44
A 41 2	S24F130A	M6 14	190	17	19.5	17.75	24	140	165	130	M10x20	6.5	466.5	—	44
A 41 2	S24F95A1	M6 14	165	17	19.5	17.75	24	140	115	95	M8x20	6.5	466.5	—	44
A 41 2	S28F130A	M8 20	190	17	19.5	17.75	28	140	165	130	M10x20	6.5	466.5	—	44
A 41 2	S28F180A	M8 20	250	21.5	29.5	17.75	28	190	215	180	M14x25	6.5	476.5	—	44
A 41 2	S32F130A	M8 20	190	17	19.5	17.75	32	140	165	130	M10x20	6.5	466.5	—	44
A 41 2	S32F180A	M8 20	250	21.5	29.5	17.75	32	190	215	180	M14x25	6.5	476.5	—	44
A 41 2	S38F180A1	M8 25	250	29.5	44.5	17.75	38	190	215	180	M14x25	6.5	496.5	—	44

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		Kg
													2x	3x	
A 41 3	S11F60A2	M6 11	135	16.3	15.5	13.75	11	100	75	60	M5x14	6.5	—	481.5	43
A 41 3	S14F60A2	M6 11	135	15.5	16.3	13.75	14	100	75	60	M5x14	6.5	—	481.5	43
A 41 3	S14F80A1	M6 11	135	15.5	16.3	13.75	14	100	100	80	M6x16	6.5	—	481.5	43
A 41 3	S19F80A1	M6 11	135	15.5	16.3	13.75	19	100	100	80	M6x16	6.5	—	481.5	43
A 41 3	S16F80A1	M6 11	135	15.5	16.3	17.75	16	100	100	80	M6x16	6.5	—	481.5	43
A 41 3	S19F70B1	M6 11	135	15.5	16.3	17.75	19	100	90	70	M5x12	6.5	—	481.5	43
A 41 3	S19F95A	M6 11	135	15.5	16.3	17.75	19	100	115	95	M8x18	6.5	—	481.5	43
A 41 3	S24F110A	M6 14	155	15.5	16.3	17.75	24	115	130	110	M8x18	6.5	—	481.5	43
A 41 3	S24F95A	M6 14	135	15.5	16.3	17.75	24	100	115	95	M8x18	6.5	—	481.5	43

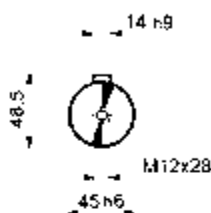
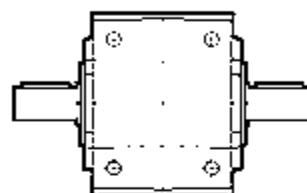


A 41

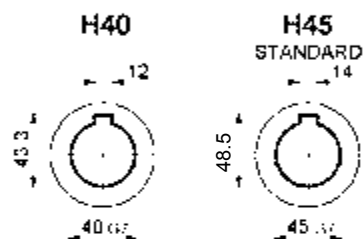
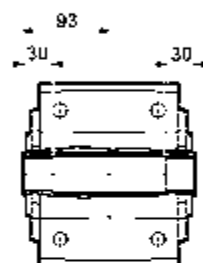
A 41...UR



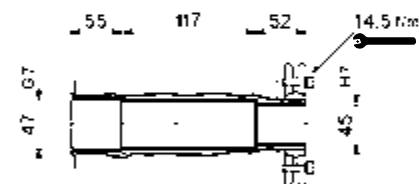
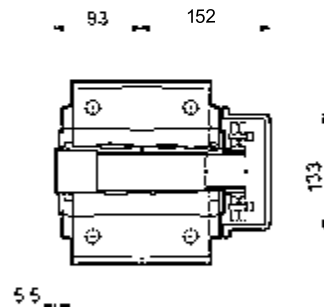
A 41...UD



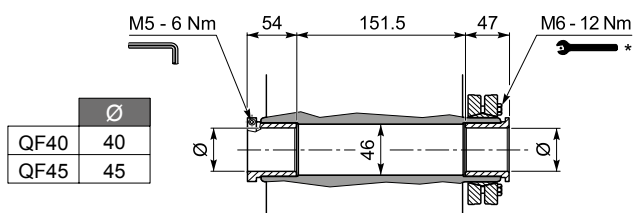
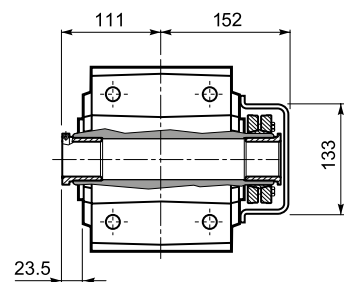
A 41...UH



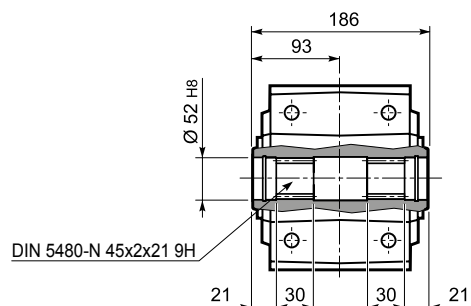
A 41...US



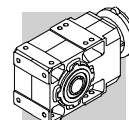
A 41...QF



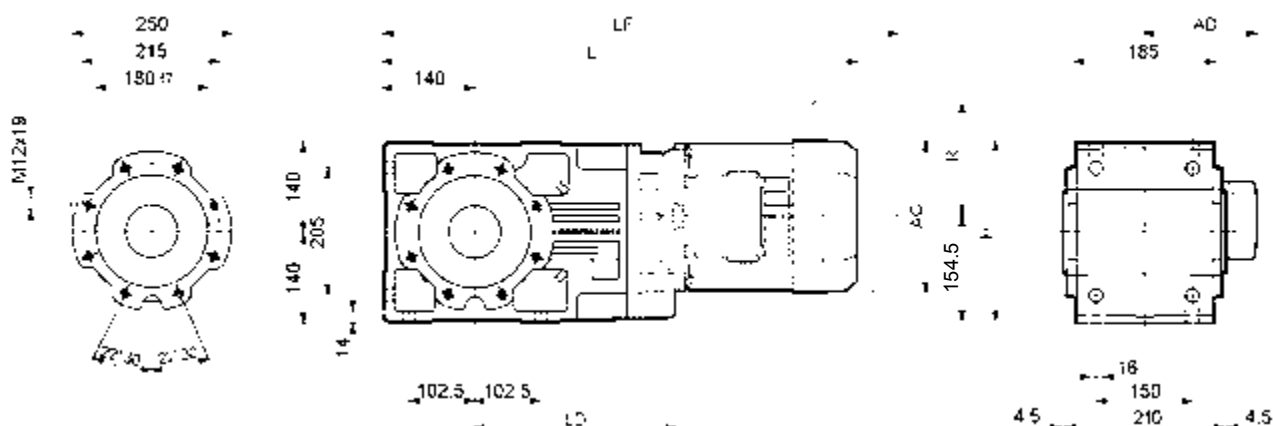
A 41...UV



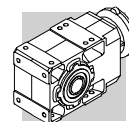
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



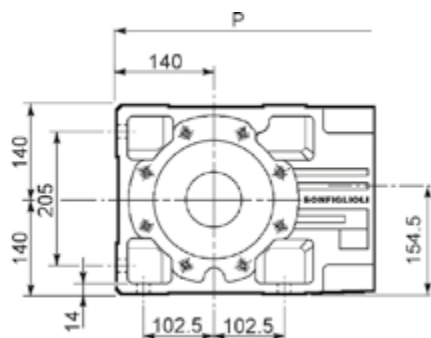
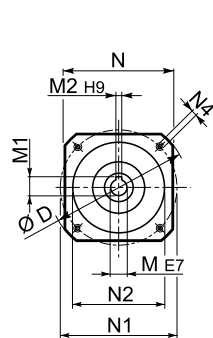
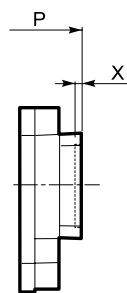
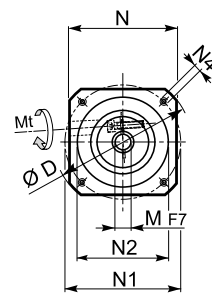
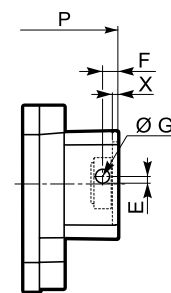
A 50...M/ME/MX/MXN



				Gearmotor - Without brake							Gearmotor - With brake								
				AC	H	L		LD	AD		M...FD				M...FDD				
						plastic	metal				LF		R	AD	LF			R	AD
A 50 2/3	S1	M1		138	223	—	609.5	—	108	66	670.5	69	103	135	—	—	—	—	—
		ME1		138	223	—	609.5	—	108	66	670.5	69	103	135	—	—	—	—	—
		MX1		138	223	—	609.5	—	108	66	670.5	69	103	135	—	—	—	—	—
	S2	ME2S		156	232	—	638.5	284.5	119	68	708.5	72.1	129	143	—	—	—	—	—
		MX2S		156	232	—	682.5	284.5	119	73.1	754.5	79.3	129	143	—	—	—	—	—
	S3	ME3S		195	251.5	—	681.5	299.5	142	74.5	777.5	81.4	160	155	—	—	—	—	—
		MX3S		195	251.5	—	713.5	299.5	142	77.5	803.5	86.4	160	155	—	—	—	—	—
		ME3L		195	251.5	—	713.5	299.5	142	81	804.5	87.9	160	155	—	—	—	—	—
		MX3L		195	251.5	—	757.5	299.5	142	87	849.5	95.4	160	155	—	—	—	—	—
	S4	ME4	MX4	258	283	—	821.5	284.5	193	115	930.5	128	204	210	—	—	—	—	—
		ME4LB	MX4LA	258	283	—	856.5	284.5	193	123	955.5	139.4	226	210	—	—	—	—	—
	S5	ME5S	MX5S	310	309	—	908	—	245	143	1048.5	184.4	266	245	—	—	—	—	—
ME5L		MX5L	310	309	—	952	—	245	159	1092.5	210.4	266	245	—	—	—	—	—	
A 50 4	S1	M1		138	223	—	681	—	108	67	742	70	103	135	—	—	—	—	—
		ME1		138	223	—	681	—	108	67	742	70	103	135	—	—	—	—	—
		MX1		138	223	—	681	—	108	67	742	70	103	135	—	—	—	—	—
	SX10	MXN10		138	223	710	690.5	—	123.3	69.4	—	—	—	—	746	711.1	71.8	106	138
	S2	ME2S		156	232	—	710	—	119	71	780	73.1	129	143	—	—	—	—	—
		MX2S		156	232	—	754	—	119	76.1	826	80.3	129	143	—	—	—	—	—
	S3	ME3S		195	251.5	—	753	—	142	77.5	849	83.5	160	155	—	—	—	—	—
		MX3S		195	251.5	—	785	—	142	80.5	875	87.4	160	155	—	—	—	—	—
		ME3L		195	251.5	—	785	—	142	83	876	89	160	155	—	—	—	—	—
		MX3L		195	251.5	—	829	—	142	89	921	96.4	160	155	—	—	—	—	—



A 50...SK / SC



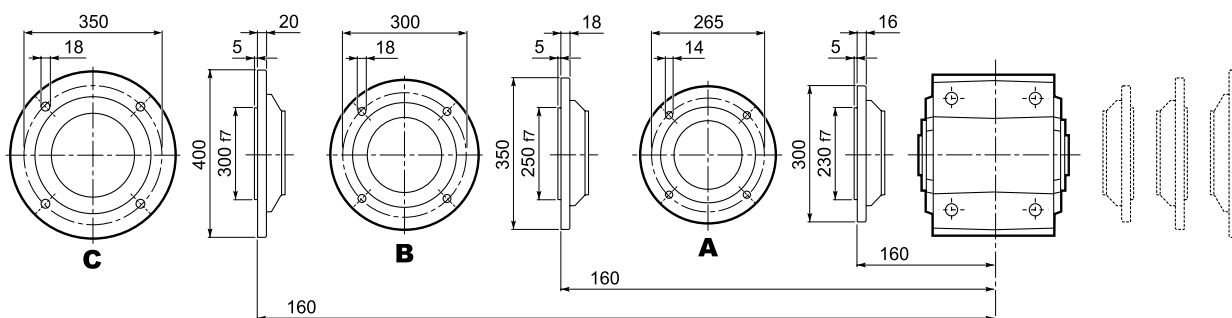
SK...

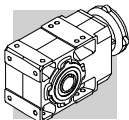
SC...

		D	M	M1	M2	N	N1	N2	N4	X	P		
											2/3x 	4x 	
A 50 2/3	SK80B	120	14	16.3	5	96	100	80	M6x12	4	474	—	61/61
A 50 2/3/4	SK80C	120	19	21.8	6	96	100	80	M6x12	4	474	545.5	61/61/63
A 50 2/3/4	SK95A	130	14	16.3	5	102	115	95	M8x12	4	474	545.5	61/61/63
A 50 2/3/4	SK95B	130	19	21.8	6	102	115	95	M8x12	4	474	545.5	61/61/63
A 50 2/3/4	SK95C	130	24	27.3	8	102	115	95	M8x12	4	474	545.5	61/61/63
A 50 2/3/4	SK110A	150	19	21.8	6	120	130	110	M8x12	5	474	545.5	61/61/65
A 50 2/3/4	SK110B	150	24	27.3	8	120	130	110	M8x12	5	474	575	61/61/65
A 50 2/3/4	SK130A	188	24	27.3	8	142	165	130	M10x20	5	474	575	63/63/66
A 50 2/3	SK130B	189	32	35.3	10	160	165	130	M10x20	5	520.5	—	69/69
A 50 2/3	SK180A	240	32	35.3	10	192	215	180	M12x19	5	520.5	—	69/69
A 50 2/3	SK180B	240	38	41.3	10	192	215	180	M12x19	5	520.5	—	69/69

			 Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		
														 2/3x	 3x	
A 50 2/3	SC80B	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	497.5	—	62/62
A 50 2/3/4	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	497.5	569	62/62/64
A 50 2/3/4	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	497.5	569	62/62/64
A 50 2/3/4	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	497.5	569	62/62/64
A 50 2/3/4	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	497.5	569	62/62/64
A 50 2/3/4	SC110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	497.5	569	63/63/66
A 50 2/3/4	SC110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	497.5	569	63/63/66
A 50 2/3/4	SC130A	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	497.5	569	64/64/67
A 50 2/3	SC130B	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	543.5	—	68/68
A 50 2/3	SC180A	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	547.5	—	68/68
A 50 2/3	SC180B	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	547.5	—	68/68

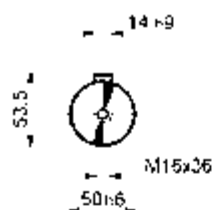
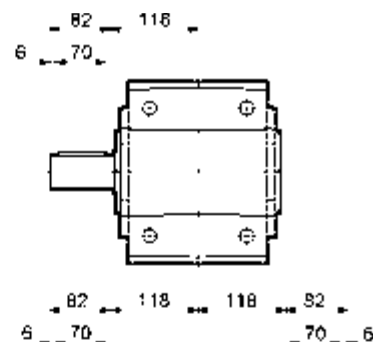
A 50...F...



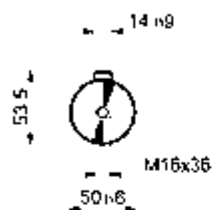
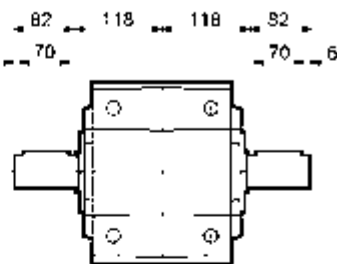


A 50

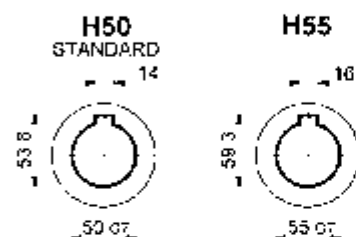
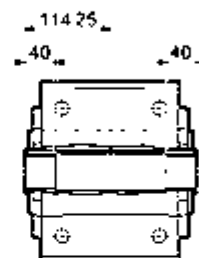
A 50...UR



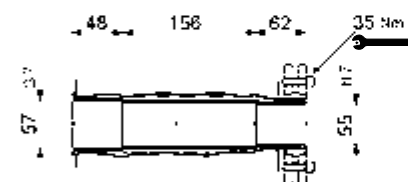
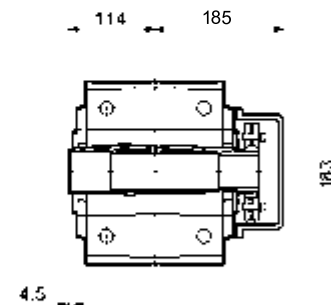
A 50...UD



A 50...UH

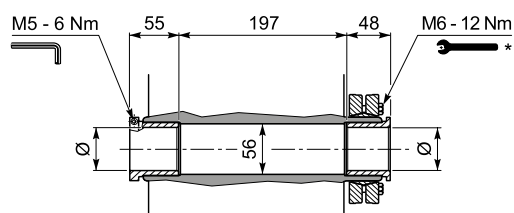
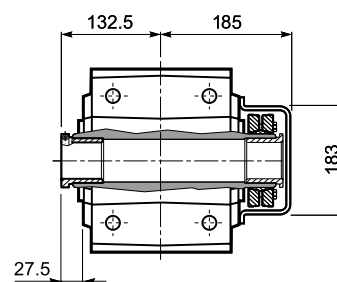


A 50...US

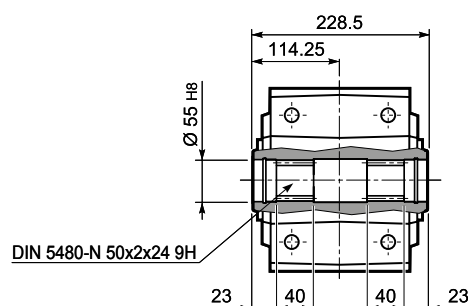


A 50...QF

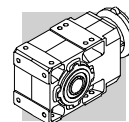
	Ø
QF50	50
QF55	55



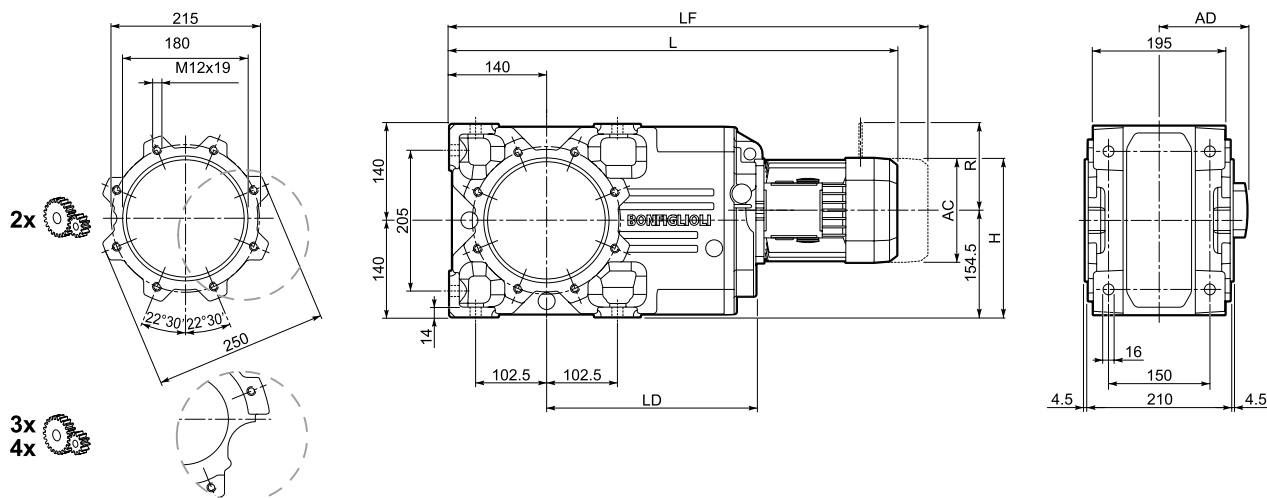
A 50...UV



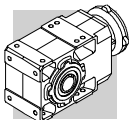
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



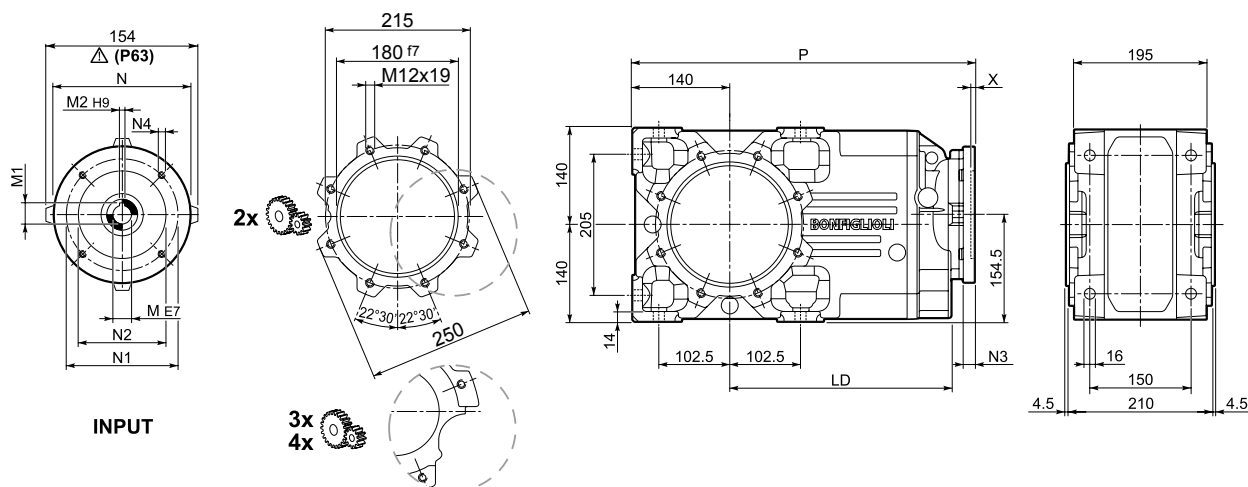
A 55...M/ME/MX/MXN



				Gearmotor - Without brake							Gearmotor - With brake								
				AC	H	L		LD	AD		M...FD				M...FDD				
						plastic	metal					R	AD	LF			R	AD	
														plastic	metal				
A 55 3	S1	M1		138	198.5	—	627.5	—	108	81	688.5	84	103	135	—	—	—	—	—
		ME1		138	198.5	—	627.5	—	108	81	688.5	84	103	135	—	—	—	—	—
		MX1		138	198.5	—	627.5	—	108	81	688.5	84	103	135	—	—	—	—	—
A 55 2/3	S2	ME2S		156	232	—	656.5	302.5	119	88	726.5	89.6	129	143	—	—	—	—	—
		MX2S		156	232	—	700.5	302.5	119	93.1	787.5	96.9	129	143	—	—	—	—	—
	S3	ME3S		195	251	—	699.5	317.5	142	94.5	795.5	100.5	160	155	—	—	—	—	—
		MX3S		195	251	—	731.5	317.5	142	97.5	823.5	104.5	160	155	—	—	—	—	—
		ME3L		195	251	—	731.5	317.5	142	101	822.5	107	160	155	—	—	—	—	—
	S4	MX3L		195	251	—	775.5	317.5	142	107	867.5	114	160	155	—	—	—	—	—
		ME4	MX4	258	283	—	839.5	302.5	193	135	979.5	148	204	210	—	—	—	—	—
	S5	ME4LB	MX4LA	258	283	—	874.5	302.5	193	143	973.5	156	226	210	—	—	—	—	—
		ME5S	MX5S	310	309.5	—	926	—	245	163	1066.5	275	266	245	—	—	—	—	—
		ME5L	MX5L	310	309.5	—	970	—	245	179	1110.5	275	266	245	—	—	—	—	—
A 55 4	S1	M1		138	223	—	699	—	108	82	760	85	103	135	—	—	—	—	—
		ME1		138	223	—	699	—	108	82	760	85	103	135	—	—	—	—	—
		MX1		138	223	—	699	—	108	82	760	85	103	135	—	—	—	—	—
	SX10	MXN10		138	223	728	708.5	—	123.3	84.4	—	—	—	—	764	729.1	86.8	106	138
	S2	ME2S		156	232	—	728	—	119	86	798	88.1	129	143	—	—	—	—	—
		MX2S		156	232	—	772	—	119	91.1	859	95.3	129	143	—	—	—	—	—
	S3	ME3S		195	251.5	—	771	—	142	92.5	867	98.5	160	155	—	—	—	—	—
		MX3S		195	251.5	—	803	—	142	95.5	893	102.5	160	155	—	—	—	—	—
		ME3L		195	251.5	—	803	—	142	98	894	104	160	155	—	—	—	—	—
		MX3L		195	251.5	—	847	—	142	104	939	111.4	160	155	—	—	—	—	—

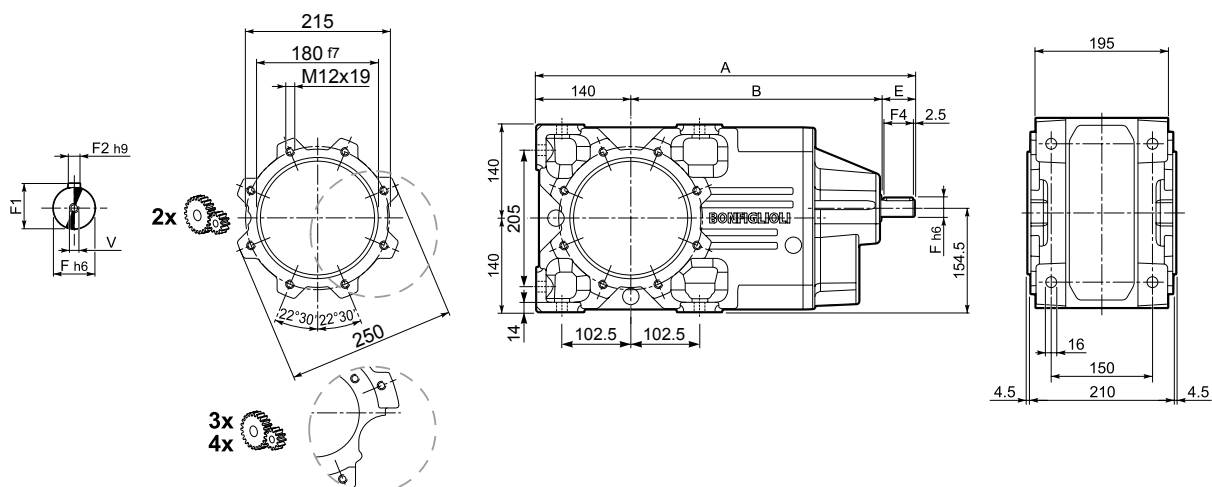


A 55...P(IEC)

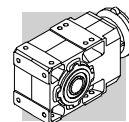


		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 55 3	P63	302.5	11	12.8	4	140	115	95	—	M8x19	4	472.5	75
A 55 3	P71	302.5	14	16.3	5	160	130	110	—	M8x16	4.5	472.5	75
A 55 2/3	P80	317.5	19	21.8	6	200	165	130	—	M10x14.5	4	492	81
A 55 2/3	P90	317.5	24	27.3	8	200	165	130	—	M10x14.5	4	492	81
A 55 2/3	P100	302.5	28	31.3	8	250	215	180	—	M12x16	4.5	502	85
A 55 2/3	P112	302.5	28	31.3	8	250	215	180	—	M12x16	4.5	502	85
A 55 2/3	P132	302.5	38	41.3	10	300	265	230	16	14	5	538.5	93
A 55 2/3	P160	—	42	45.3	12	350	300	250	23	18	5.5	589	110
A 55 2/3	P180	—	48	51.8	14	350	300	250	23	18	5.5	589	110
A 55 4	P63	—	11	12.8	4	140	115	95	—	M8x19	4	544	77
A 55 4	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	544	77
A 55 4	P80	—	19	21.8	6	200	165	130	—	M10x14.5	4	563.5	78
A 55 4	P90	—	24	27.3	8	200	165	130	—	M10x14.5	4	563.5	78
A 55 4	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	573.5	82
A 55 4	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	573.5	82

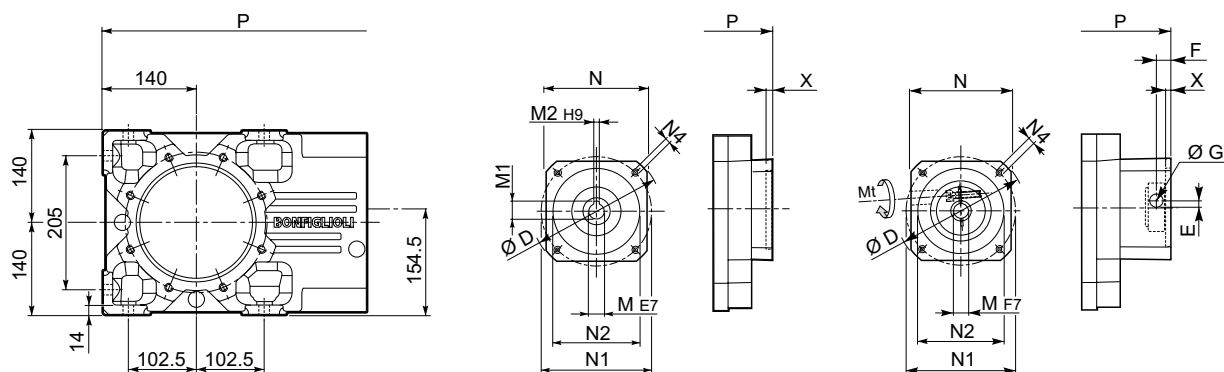
A 55...HS



		A	B	E	F	F1	F2	F3	F4	V	Kg
A 55 2	HS	561.5	371.5	50	24	27	8	2.5	45	M8x19	96
A 55 3		561.5	371.5	50	24	27	8	2.5	45	M8x19	91
A 55 4		594	414	40	19	21.5	6	2.5	35	M6x16	92



A 55...SK / SC



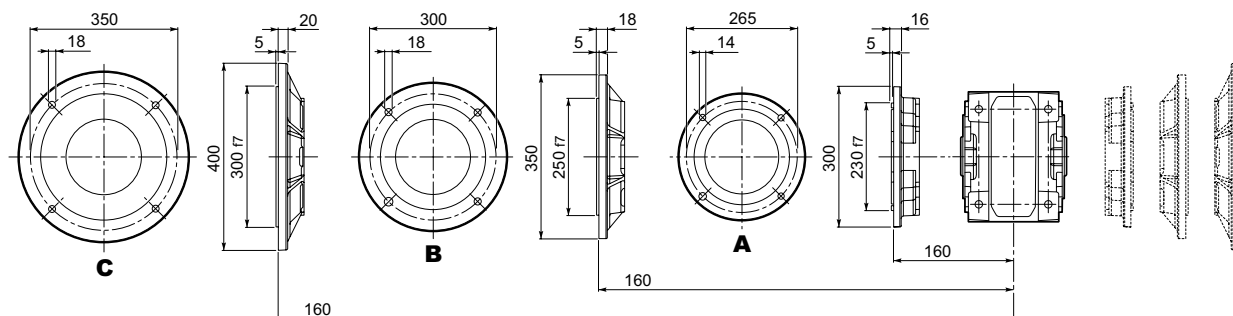
SK...

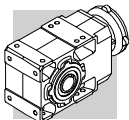
SC...

		D	M	M1	M2	N	N1	N2	N4	X	P		
											2/3x	4x	Kg
A 55 3	SK80B	120	14	16.3	5	96	100	80	M6x12	4	492	—	81
A 55 2/3/4	SK80C	120	19	21.8	6	96	100	80	M6x12	4	492	563.5	81/81/77
A 55 3/4	SK95A	130	14	16.3	5	102	115	95	M8x12	4	492	563.5	81/81/77
A 55 2/3/4	SK95B	130	19	21.8	6	102	115	95	M8x12	4	492	563.5	81/81/77
A 55 2/3/4	SK95C	130	24	27.3	8	102	115	95	M8x12	4	492	563.5	81/81/77
A 55 2/3/4	SK110A	150	19	21.8	6	120	130	110	M8x12	5	492	593	81/81/78
A 55 2/3/4	SK110B	150	24	27.3	8	120	130	110	M8x12	5	492	593	81/81/78
A 55 2/3/4	SK130A	188	24	27.3	8	142	165	130	M10x20	5	492	593	83/83/79
A 55 2/3	SK130B	189	32	35.3	10	160	165	130	M10x20	5	538.5	—	90/90
A 55 2/3	SK180A	240	32	35.3	10	192	215	180	M12x19	5	538.5	—	90/90
A 55 2/3	SK180B	240	38	41.3	10	192	215	180	M12x19	5	538.5	—	90/90

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		
													2/3x	3x	Kg
A 55 3	SC80B	M6 15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	515.5	—	82
A 55 2/3/4	SC80C	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	515.5	587	82/82/78
A 55 3/4	SC95A	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	515.5	587	82/82/78
A 55 2/3/4	SC95B	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	515.5	587	82/82/78
A 55 2/3/4	SC95C	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	515.5	587	82/82/78
A 55 2/3/4	SC110A	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	515.5	587	83/83/79
A 55 2/3/4	SC110B	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	515.5	587	83/83/79
A 55 2/3/4	SC130A	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	515.5	587	84/84/80
A 55 2/3	SC130B	M8 36	189	20	17	17.75	32	160	165	130	M10x20	5	561.5	—	93/93
A 55 2/3	SC180A	M8 36	240	20	17.5	17.75	32	192	215	180	M12x24	5	565.5	—	93/93
A 55 2/3	SC180B	M8 36	240	20	17.5	17.75	38	192	215	180	M12x24	5	565.5	—	93/93

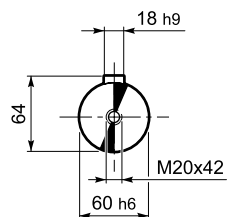
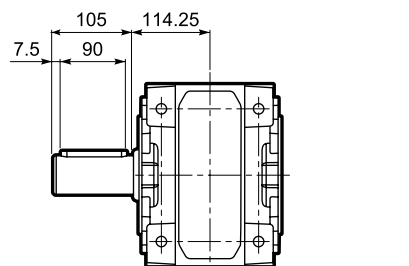
A 55...F...



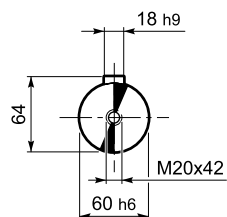
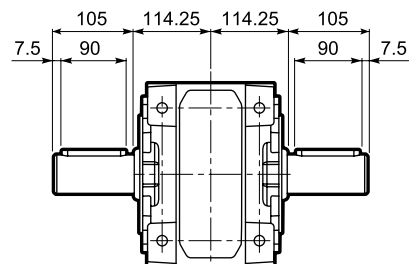


A 55

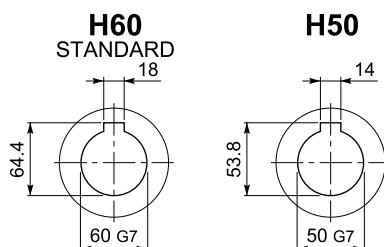
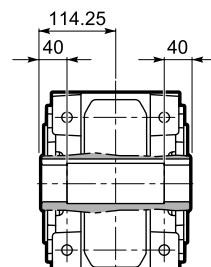
A 55...UR



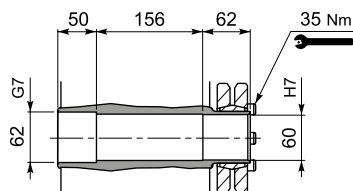
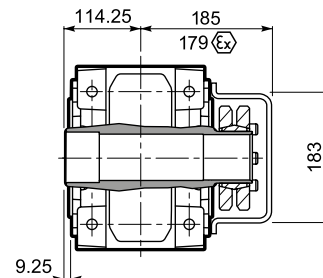
A 55...UD



A 55...UH



A 55...US

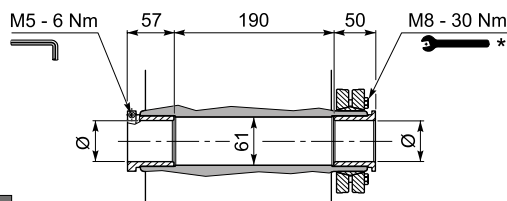
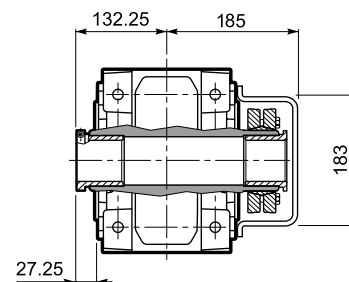


A 55...QF

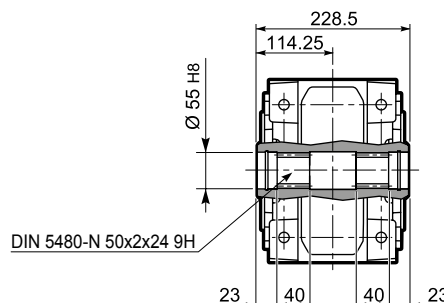
	Ø
QF55	55
QF60	60



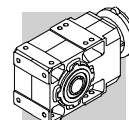
	M _{n2 max} [Nm]
A 55 QF55	1900



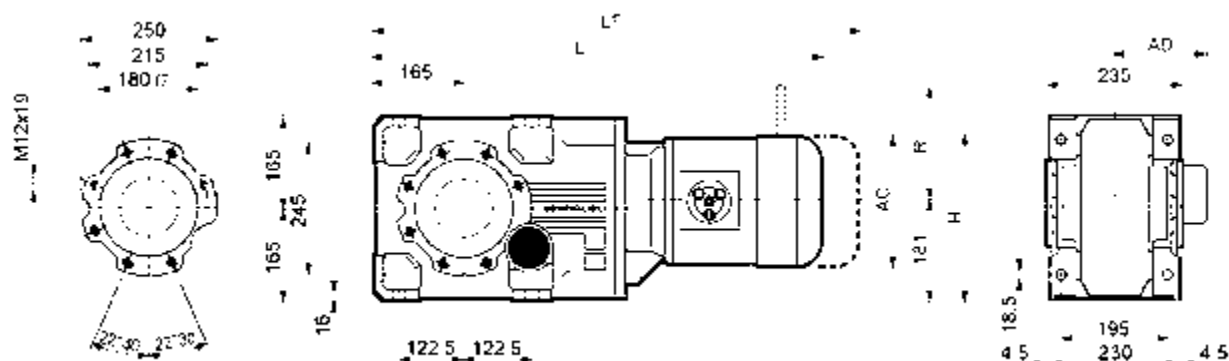
A 55...UV



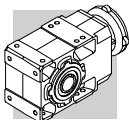
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



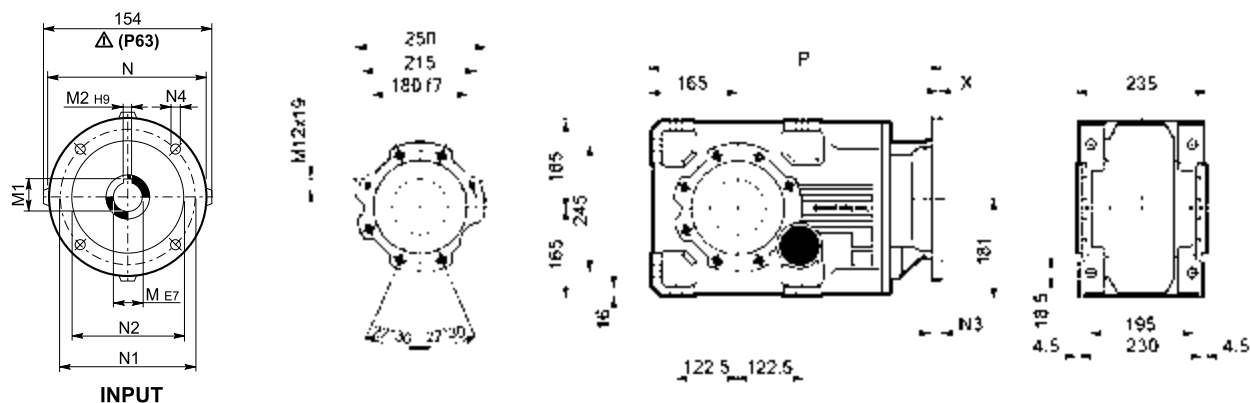
A 60...M/ME/MX



				Gearmotor - Without brake					Gearmotor - With brake			
									M...FD			
				AC	H	L	AD		LF		R	AD
A 60 2/3	S2	ME2S		156	256.5	700.5	119	98	770.5	99.6	129	143
		MX2S		156	256.5	744.5	119	103.1	816.5	106.9	129	143
	S3	ME3S		195	276	743.5	142	103	839.5	109	160	155
		MX3S		195	276	775.5	142	106	865.5	113	160	155
		ME3L		195	276	775.5	142	111	866.5	117	160	155
		MX3L		195	276	819.5	142	117	911.5	124	160	155
	S4	ME4	MX4	258	307.5	883.5	193	145	992.5	158	204	210
		ME4LB	MX4LA	258	307.5	918.5	193	153	1017.5	169	226	210
	S5	ME5S	MX5S	310	333.5	970	245	173	1110.5	224.5	266	245
		ME5L	MX5L	310	333.5	1014	245	189	1154.5	235.5	266	245
A 60 4	S1	M1		138	247.5	742	108	100	803	103	103	135
		ME1		138	247.5	742	108	100	803	103	103	135
		MX1		138	247.5	742	108	100	803	103	103	135
	S2	ME2S		156	256.5	771	119	104	841	107.5	129	143
		MX2S		156	256.5	815	119	109.1	887	114.7	129	143
	S3	ME3S		195	276	814	142	109	910	116.8	160	155
		MX3S		195	276	846	142	112	936	121.8	160	155
		ME3L		195	276	846	142	117	937	123.3	160	155
		MX3L		195	276	890	142	123	982	130.8	160	155

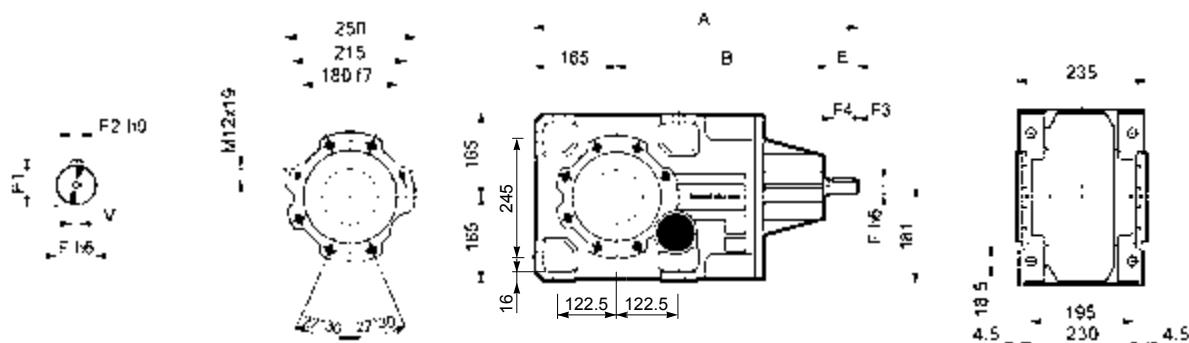


A 60...P(IEC)

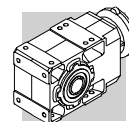


		M	M1	M2	N	N1	N2	N3	N4	X	P	
A 60 3	P63	11	12.8	4	140	115	95	—	M8x19	4	516.5	90
A 60 3	P71	14	16.3	5	160	130	110	—	M8x16	4.5	516.5	90
A 60 2/3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	536	91
A 60 2/3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	536	91
A 60 2/3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	546	95
A 60 2/3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	546	95
A 60 2/3	P132	38	41.3	10	300	265	230	16	14	5	582.5	104
A 60 2/3	P160	42	45.3	12	350	300	250	23	18	5.5	633	121
A 60 2/3	P180	48	51.8	14	350	300	250	23	18	5.5	633	121
A 60 4	P63	11	12.8	4	140	115	95	—	M8x19	4	587	88
A 60 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	587	88
A 60 4	P80	19	21.8	6	200	165	130	—	M10x14.5	4	606.5	90
A 60 4	P90	24	27.3	8	200	165	130	—	M10x14.5	4	606.5	90
A 60 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	616.5	94
A 60 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	616.5	94

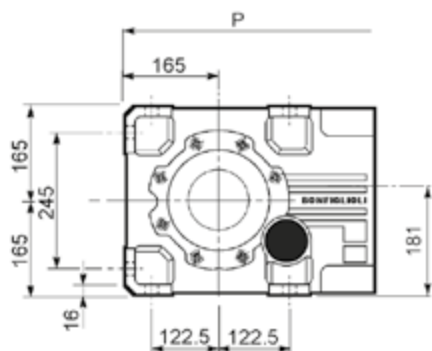
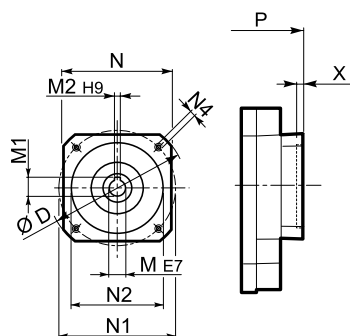
A 60...HS



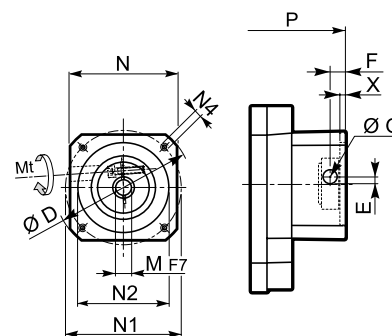
		A	B	E	F	F1	F2	F3	F4	V	
A 60 2	HS	633	408	60	28	31	8	5.0	50	M10x22	106
A 60 3		633	408	60	28	31	8	5.0	50	M10x22	106
A 60 4		676	461	50	24	27	8	2.5	45	M8x19	112



A 60...SK / SC



SK...

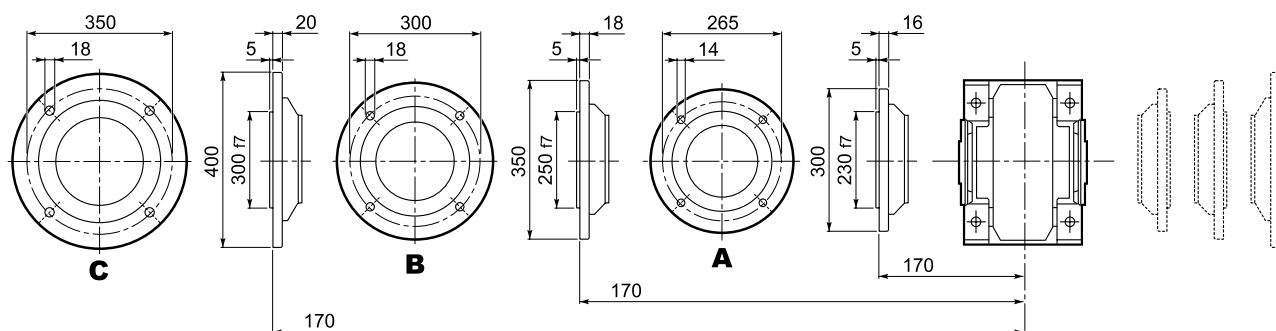


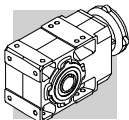
SC...

		D	M	M1	M2	N	N1	N2	N4	X	P		Kg
											2/3x	4x	
A 60 4	SK80B	120	14	16.3	5	96	100	80	M6x12	4	—	606.5	89
A 60 2/3/4	SK80C	120	19	21.8	6	96	100	80	M6x12	4	536	606.5	93/93/92
A 60 2/3/4	SK95A	130	14	16.3	5	102	115	95	M8x12	4	536	606.5	93/93/92
A 60 2/3/4	SK95B	130	19	21.8	6	102	115	95	M8x12	4	536	606.5	93/93/92
A 60 2/3/4	SK95C	130	24	27.3	8	102	115	95	M8x12	4	536	606.5	93/93/92
A 60 2/3/4	SK110A	140	19	21.8	6	120	130	110	M8x12	5	536	606.5	93/93/92
A 60 2/3/4	SK110B	140	24	27.3	8	120	130	110	M8x12	5	536	606.5	93/93/92
A 60 2/3/4	SK130A	188	24	27.3	8	142	165	130	M10x20	5	536	606.5	97/97/103
A 60 2/3	SK130B	189	32	35.3	10	160	165	130	M10x20	5	582.5	—	102/102
A 60 2/3	SK180A	240	32	35.3	10	192	215	180	M12x19	5	582.5	—	102/102
A 60 2/3	SK180B	240	38	41.3	10	192	215	180	M12x19	5	582.5	—	102/102

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		Kg
													2/3x	3x	
A 60 4	SC80B	M6 15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	—	630	90
A 60 2/3/4	SC80C	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	559.5	630	94/94/93
A 60 2/3/4	SC95A	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	559.5	630	94/94/93
A 60 2/3/4	SC95B	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	559.5	630	94/94/93
A 60 2/3/4	SC95C	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	559.5	630	94/94/93
A 60 2/3/4	SC110A	M6 15	140	16.5	16	17.75	19	120	130	110	M8x16	5	559.5	630	95/95/93
A 60 2/3/4	SC110B	M6 15	140	16.5	16	17.75	24	120	130	110	M8x16	5	559.5	630	95/95/93
A 60 2/3/4	SC130A	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	559.5	630	96/96/104
A 60 2/3	SC130B	M8 36	189	20	17	17.75	32	160	165	130	M10x20	5	605.5	—	105/105
A 60 2/3	SC180A	M8 36	240	20	17.5	17.75	32	192	215	180	M12x24	5	609.5	—	105/105
A 60 2/3	SC180B	M8 36	240	20	17.5	17.75	38	192	215	180	M12x24	5	609.5	—	105/105

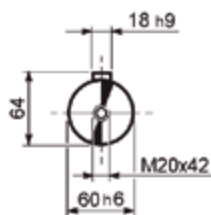
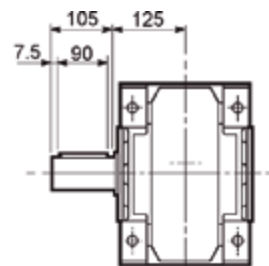
A 60...F...



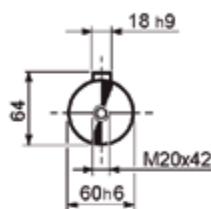
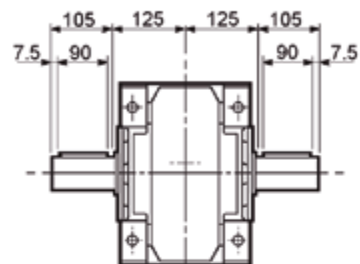


A 60

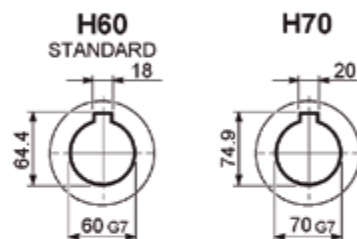
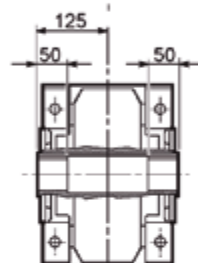
A 60...UR



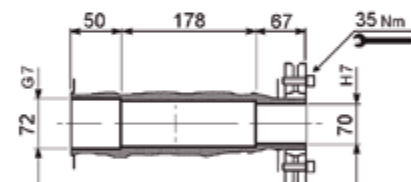
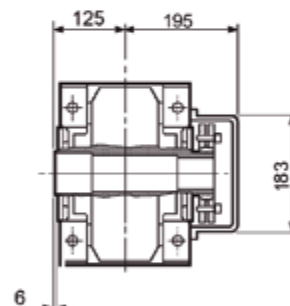
A 60...UD



A 60...UH

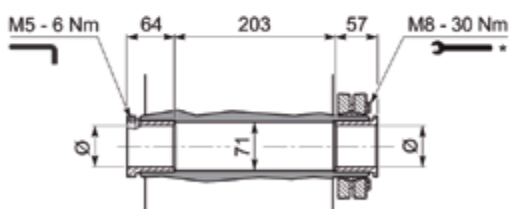
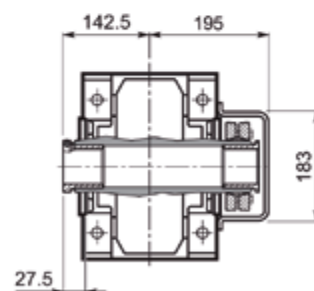


A 60...US

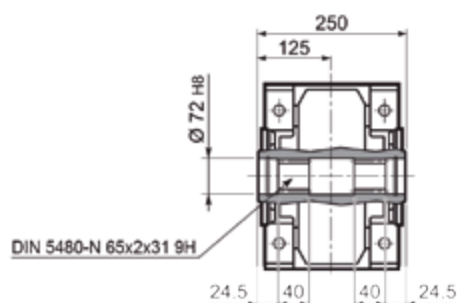


A 60...QF

	Ø
QF60	60
QF65	65
QF70	70



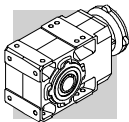
A 60...UV



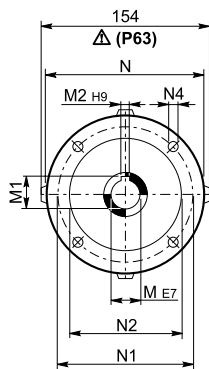
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



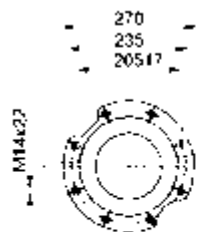
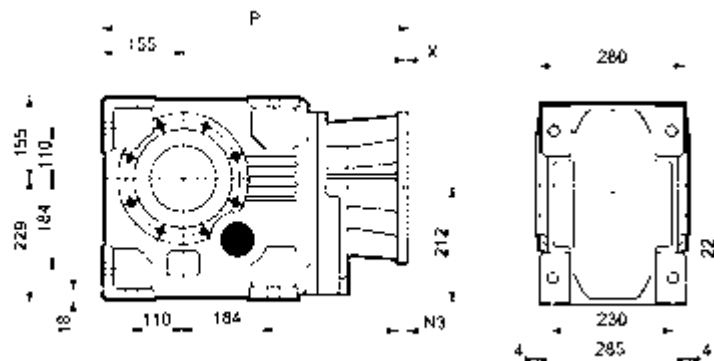
				Gearmotor - Without brake					Gearmotor - With brake			
									M...FD			
				AC	H	L	AD		LF		R	AD
A 70 3	S2	ME2S		156	290	688.5	119	152	758.5	155.9	129	143
		MX2S		156	290	732.5	119	157.1	804.5	163.1	129	143
	S3	ME3S		195	309.5	731.5	142	158.5	827.5	165.2	160	155
		MX3S		195	309.5	763.5	142	161.5	853.5	170.2	160	155
		ME3L		195	309.5	763.5	142	164	854.5	171.7	160	155
		MX3L		195	309.5	807.5	142	170	899.5	179.2	160	155
	S4	ME4	MX4	258	341	872.5	193	198	1012.5	211	204	210
		ME4LB	MX4LA	258	341	907.5	193	206	1006.5	223.2	226	210
	S5	ME5S	MX5S	310	367	958	245	226	1098.5	283.2	266	245
		ME5L	MX5L	310	367	1002	245	242	1142.5	294.2	266	245
A 70 4	S1	M1		138	281	710.5	108	152	771.5	155	103	135
		ME1		138	281	710.5	108	152	771.5	155	103	135
		MX1		138	281	710.5	108	152	771.5	155	103	135
	S2	ME2S		156	290	739.5	119	156	809.5	159.5	129	143
		MX2S		156	290	783.5	119	161.1	855.5	166.7	129	143
	S3	ME3S		195	309.5	782.5	142	162.5	878.5	168.8	160	155
		MX3S		195	309.5	814.5	142	165.5	904.5	173.8	160	155
		ME3L		195	309.5	814.5	142	168	905.5	175.5	160	155
		MX3L		195	309.5	858.5	142	174	950.5	182.8	160	155
	S4	ME4	MX4	258	341	922.5	193	202	1031.5	215	204	210
		ME4LB	MX4LA	258	341	957.5	193	210	1056.5	226.8	226	210



A 70...P (IEC)

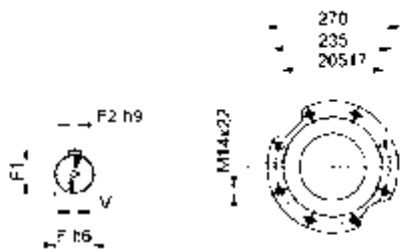
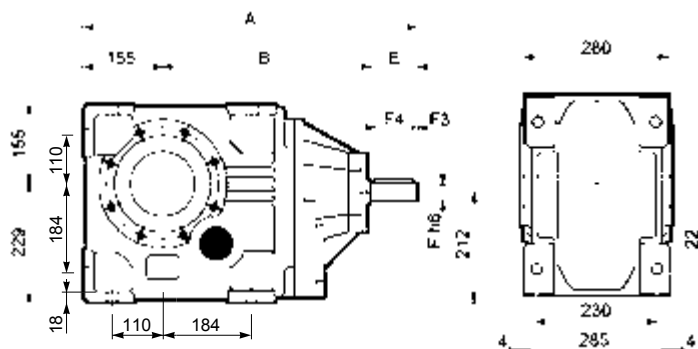


INPUT

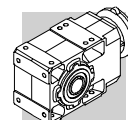


		M	M1	M2	N	N1	N2	N3	N4	X	P	
A 70 3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	524	144
A 70 3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	524	144
A 70 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	534	146
A 70 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	534	146
A 70 3	P132	38	41.3	10	300	265	230	16	14	5	570.5	154
A 70 3	P160	42	45.3	12	350	300	250	23	18	6	626	169
A 70 3	P180	48	51.8	14	350	300	250	23	18	6	626	169
A 70 3	P200	55	59.3	16	400	350	300	—	M16x25	7	651	179
A 70 4	P63	11	12.8	4	140	115	95	—	M8x19	4	555.5	146
A 70 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	555.5	146
A 70 4	P80	19	21.8	6	200	165	130	—	M10x14.5	4	575	147
A 70 4	P90	24	27.3	8	200	165	130	—	M10x14.5	4	575	147
A 70 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	585	148
A 70 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	585	148
A 70 4	P132	38	41.3	10	300	265	230	16	14	5	618.5	157

A 70...HS

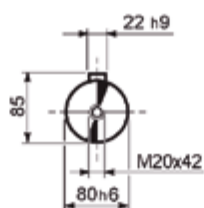
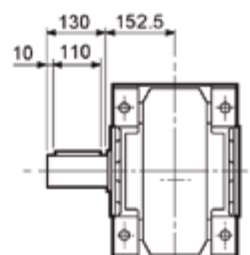


		A	B	E	F	F1	F2	F3	F4	V	
A 70 3	HS	708.5	443.5	110	42	45	12	10	90	M12x28	165
A 70 4		644.5	439.5	50	24	27	8	2.5	45	M8x19	149

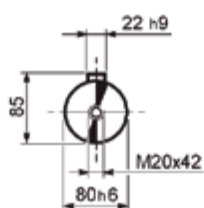
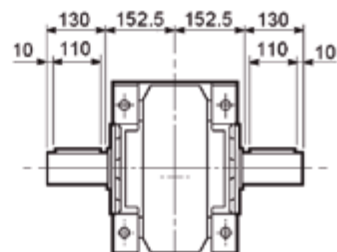


A 70

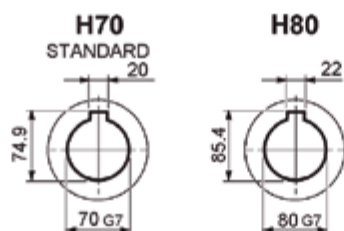
A 70...UR



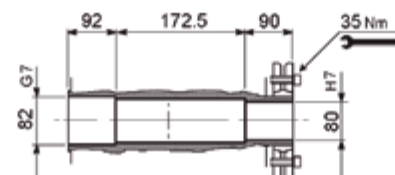
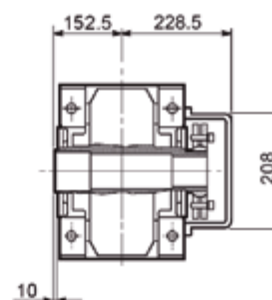
A 70...UD



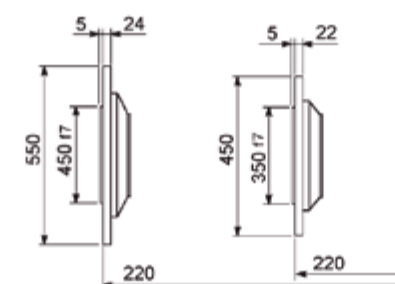
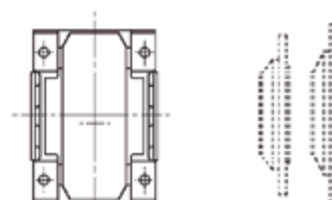
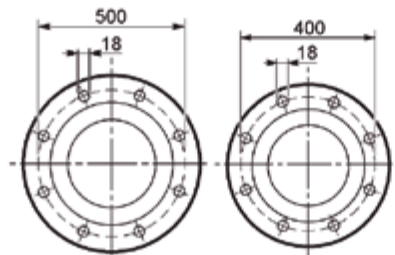
A 70...UH



A 70...US

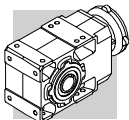


A 70...F...

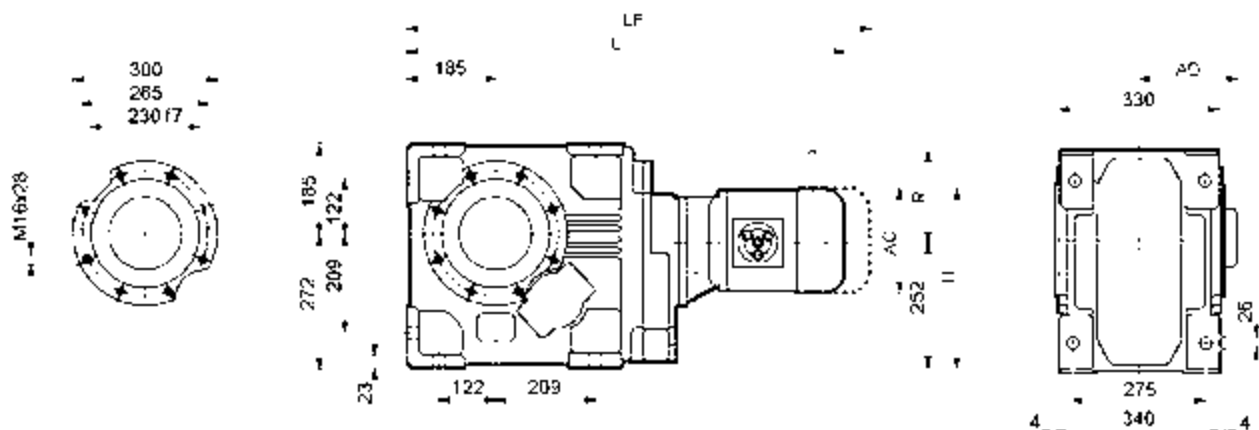


B

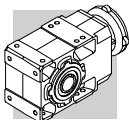
A



A 80...M/ME/MX

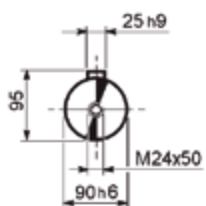
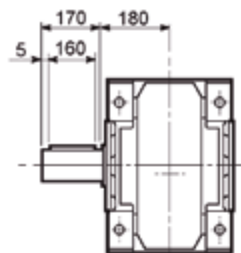


				Gearmotor - Without brake					Gearmotor - With brake			
									M...FD			
				AC	H	L	AD		LF		R	AD
A 80 3	S3	ME3S		195	349.5	809.5	142	257.5	905.5	264	160	155
		MX3S		195	349.5	841.5	142	260.5	934.5	269	160	155
		ME3L		195	349.5	841.5	142	264	932.5	270.5	160	155
		MX3L		195	349.5	885.5	142	270	976.5	278	160	155
	S4	ME4	MX4	258	381	949.5	193	298	1058.5	311	204	210
		ME4LB	MX4LA	258	381	984.5	193	306	1083.5	322	226	210
	S5	ME5S	MX5S	310	407	1036	245	326	1176.5	382	266	245
		ME5L	MX5L	310	407	1080	245	342	1220.5	393	266	245
A 80 4	S1	M1		138	321	800.5	108	246	861.5	249	103	135
		ME1		138	321	800.5	108	246	851.5	249	103	135
		MX1		138	321	800.5	108	246	851.5	249	103	135
	S2	ME2S		156	330	829.5	119	250	946.5	253.7	129	143
		MX2S		156	330	873.5	119	255.1	992.5	260.9	129	143
	S3	ME3S		195	349.5	872.5	142	256.5	1000.5	263	160	155
		MX3S		195	349.5	904.5	142	259.5	1029.5	268	160	155
		ME3L		195	349.5	904.5	142	262	1027.5	269.5	160	155
		MX3L		195	349.5	948.5	142	268	1071.5	277	160	155
	S4	ME4	MX4	258	381	1012.5	193	296	1144.5	309	204	210
		ME4LB	MX4LA	258	381	1047.5	193	304	1169.5	321	226	210

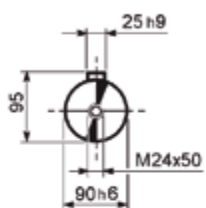
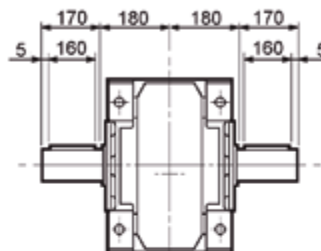


A 80

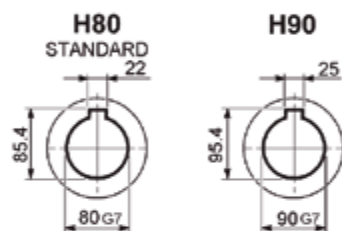
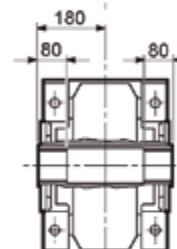
A 80...UR



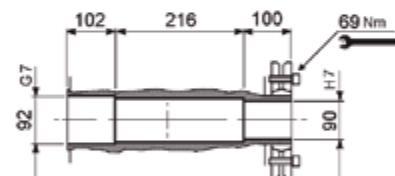
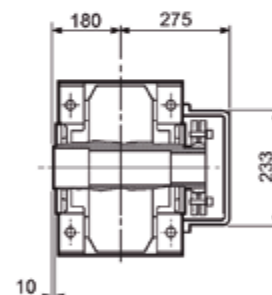
A 80...UD



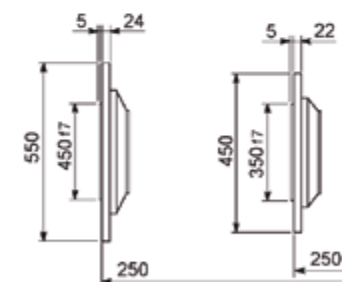
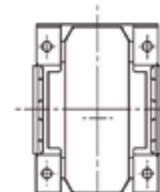
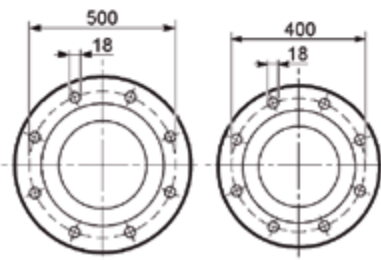
A 80...UH



A 80...US

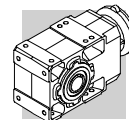


A 80...F...

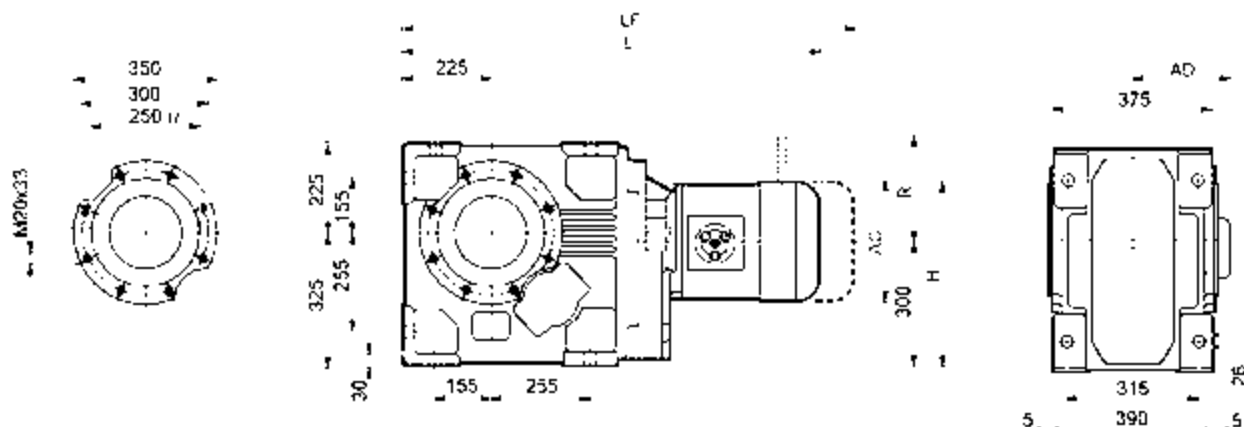


B

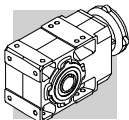
A



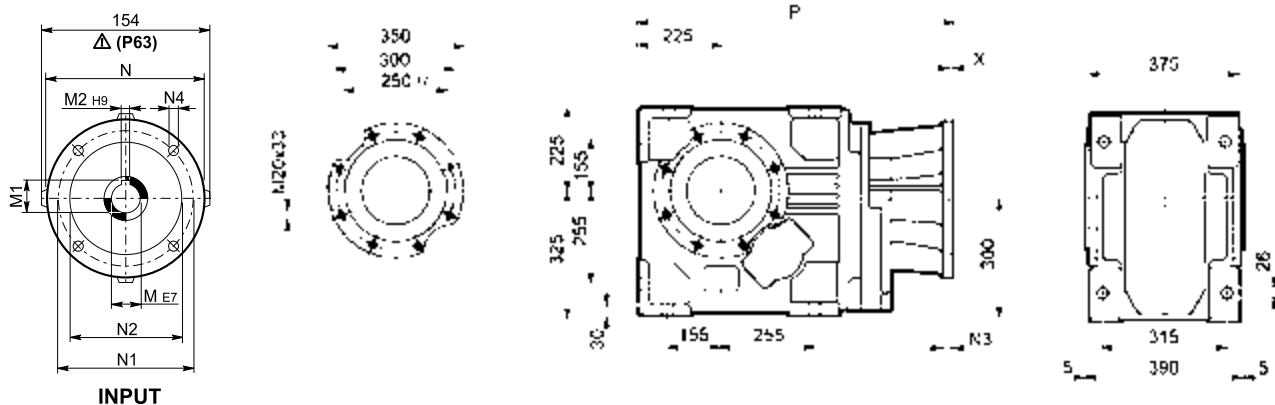
A 90...M/ME/MX



				Gearmotor - Without brake					Gearmotor - With brake			
									M...FD			
				AC	H	L	AD		LF		R	AD
A 90 3	S3	ME3S		195	397.5	930.5	142	414.5	1026.5	420.5	160	155
		MX3S		195	397.5	962.5	142	413.5	1055.5	420.5	160	155
		ME3L		195	397.5	962.5	142	420	1053.5	426	160	155
		MX3L		195	397.5	1006.5	142	426	1097.5	433	160	155
	S4	ME4	MX4	258	429	1070.5	193	454	1179.5	467	204	210
		ME4LB	MX4LA	258	429	1105.5	193	462	1204.5	478	226	210
	S5	ME5S	MX5S	310	455	1157	245	482	1297.5	532.5	266	245
		ME5L	MX5L	310	455	1201	245	498	1341.5	543.5	226	245
A 90 4	S1	M1		138	369	941.5	108	412	1002.5	414.7	103	135
		ME1		138	369	941.5	108	412	1002.5	414.7	103	135
		MX1		138	369	941.5	108	412	1002.5	414.7	103	135
	S2	ME2S		156	378	970.5	119	422	1055.5	423.6	129	143
		MX2S		156	378	1014.5	119	427.1	1101.5	430.8	129	143
	S3	ME3S		195	397.5	1013.5	142	428.5	1109.5	434.5	160	155
		MX3S		195	397.5	1045.5	142	431.5	1138.5	438.5	160	155
		ME3L		195	397.5	1045.5	142	434	1136.5	440	160	155
		MX3L		195	397.5	1089.5	142	440	1181.5	447	160	155
	S4	ME4	MX4	258	429	1153.5	193	468	1262.5	481	204	210
		ME4LB	MX4LA	258	429	1188.5	193	476	1287.5	489	226	210

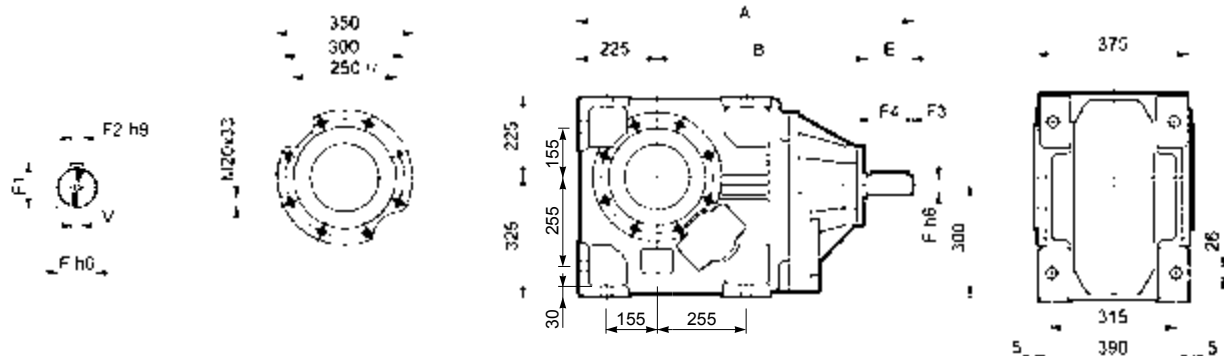


A 90...P (IEC)

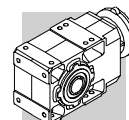


		M	M1	M2	N	N1	N2	N3	N4	X	P	
A 90 3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	723	400
A 90 3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	723	400
A 90 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	733	401
A 90 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	733	401
A 90 3	P132	38	41.3	10	300	265	230	16	14	5	769.5	409
A 90 3	P160	42	45.3	12	350	300	250	23	18	6	825	428
A 90 3	P180	48	51.8	14	350	300	250	23	18	6	825	429
A 90 3	P200	55	59.3	16	400	350	300	—	M16x25	7	850	436
A 90 3	P225	60	64.4	18	450	400	350	30	18	6	895.5	472
A 90 3	P250	65	69.4	18	550	500	450	30	18	6	925.5	475
A 90 4	P63	11	12.8	4	140	115	95	—	M8x19	4	786.5	411
A 90 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	786.5	412
A 90 4	P80	19	21.8	6	200	165	130	—	M10x14.5	4	806	413
A 90 4	P90	24	27.3	8	200	165	130	—	M10x14.5	4	806	413
A 90 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	816	415
A 90 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	816	415
A 90 4	P132	38	41.3	10	300	265	230	16	14	5	852.5	423
A 90 4	P160	42	45.3	12	350	300	250	23	18	5.5	903	434
A 90 4	P180	48	51.8	14	350	300	250	23	18	5.5	903	434

A 90...HS

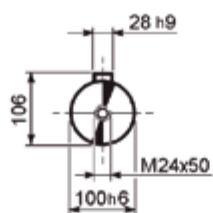
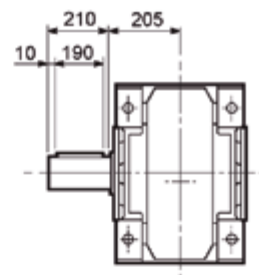


		A	B	E	F	F1	F2	F3	F4	V	
A 90 3	HS	1009	644	140	60	64	18	10	120	M16x36	465
A 90 4		875.5	600.5	50	24	27	8	2.5	45	M8x19	415

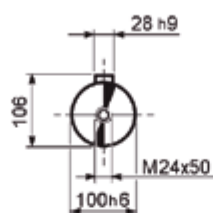
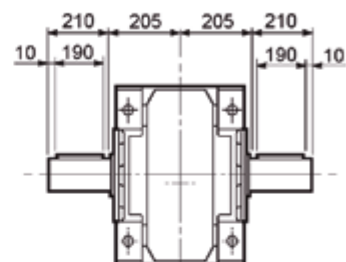


A 90

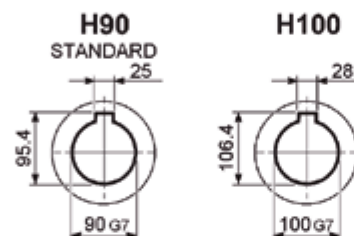
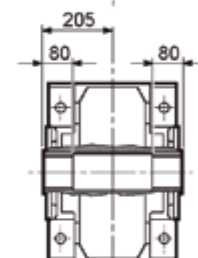
A 90...UR



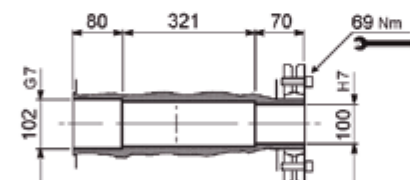
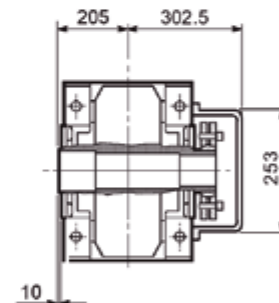
A 90...UD



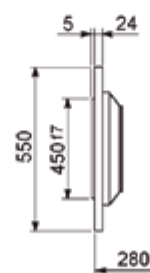
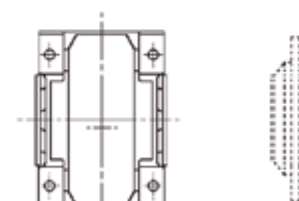
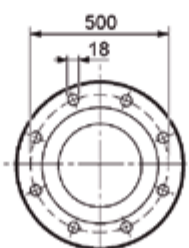
A 90...UH



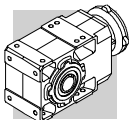
A 90...US



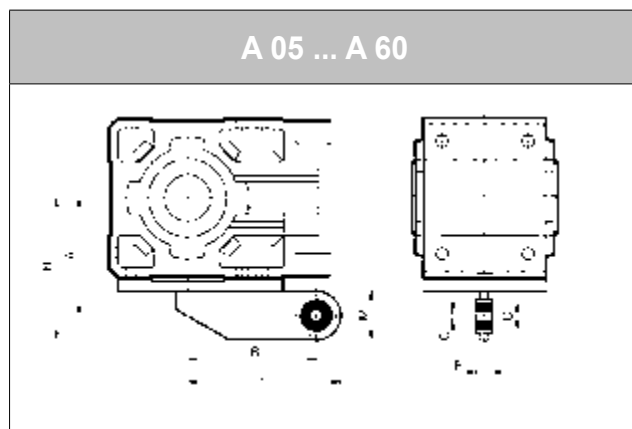
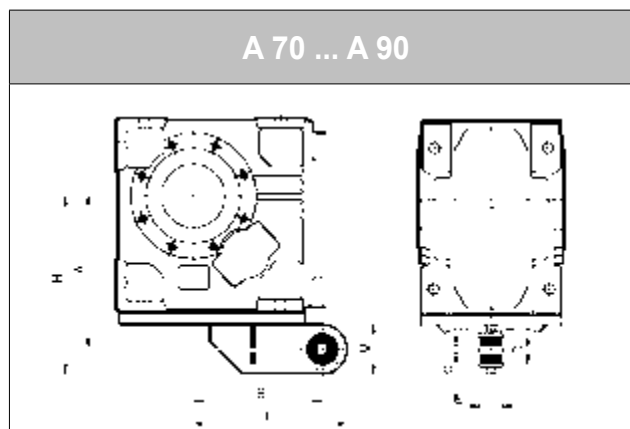
A 90...F...



A

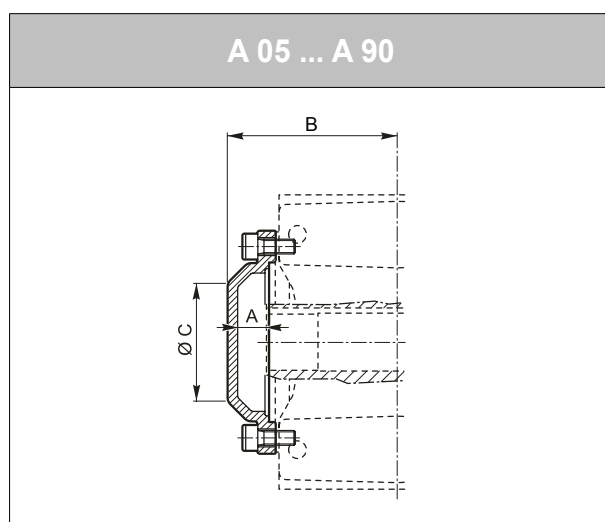


44 DIMENSIONS DES REDUCTEURS AVEC BRAS DE REACTION



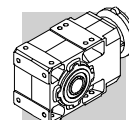
	A	B	C	D	E	H	L	M
A05	90.5	80	10	30	20	115.5	105	50
A10	108	118	10	30	20	138	148	60
A20	118	137	10	30	20	148	167	60
A30	135	150	20	40	25	170	185	70
A35	145	165	20	40	25	180	200	70
A41	157	200	20	40	25	192	235	70
A50	200	250	32	56	40	245	295	90
A55	200	250	32	56	40	245	295	90
A60	225	300	32	56	40	270	345	90
A70	289	250	32	56	40	334	295	90
A80	357	300	42	78	60	422	365	130
A90	410	350	42	78	60	475	415	130

45 DIMENSIONS DES REDUCTEURS AVEC COUVERCLE DE PROTECTION



	A	Ø C	B
A 05	17.5	36	73.5
A 10	20.5	60	84.5
A 20	20	75	94
A 30	20	75	104
A 35	19.5	80	114
A 41	21	110	120
A 50	26	100	148.5
A 55	27	100	149
A 60	25	100	158
A 70	33.5	120	193.5
A 80	38	140	228
A 90	43	152	258

Les cotes communes aux autres configurations sont indiquées de la page 299 à la page 342.

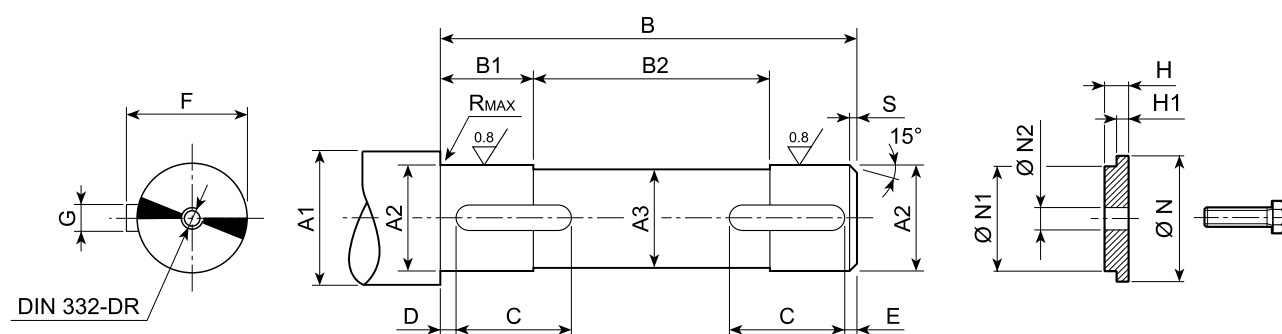


46 ARBRE MACHINE

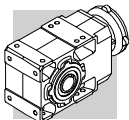
Réaliser l'arbre accouplé avec le réducteur avec de l'acier de bonne qualité et respecter les dimensions indiquées sur le tableau.

Il est recommandé de compléter le montage par un dispositif de blocage axial de l'arbre, à titre d'exemple voir comme illustré ci-dessous, en prenant soin de vérifier et de dimensionner les divers composants en fonction des différentes exigences de l'application.

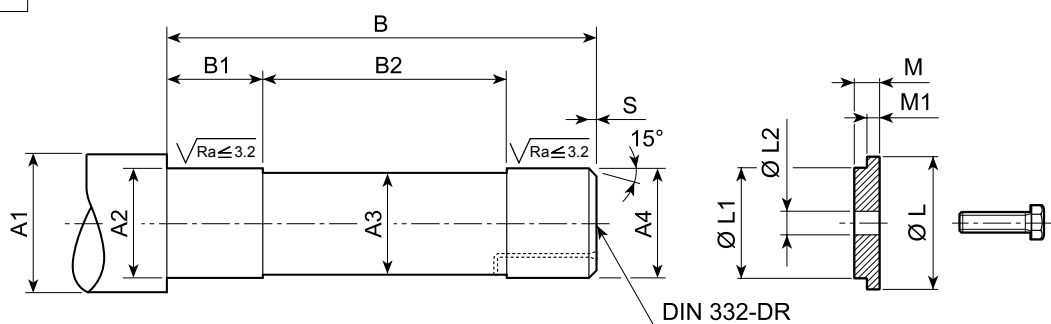
UH_



	A1	A2	A3	B	B1	B2	C	D	E	F	G	R	S	 UNI 6604	N	N1	N2	H	H1	 UNI 5739
A05 UH25	≥ 30	25 h7	24	102	21	62	20	2	2	28	8 h9	0.5	1.5	8x7x20 A	35	25 d9	9	7	5.5	M8x25
A10 UH30	≥ 35	30 h7	29	118	16	87	20	2	2	33	8 h9	0.5	1.5	8x7x20 A	35	30 d9	11	8.5	7	M10x30
A10 UH25	≥ 30	25 h7	24	118	16	87	20	2	2	28	8 h9	0.5	1.5	8x7x20 A	30+35	25 d9	9	7	5.5	M8x25
A20 UH35	≥ 42	35 h7	34	138	20	98	20	2	2	38	10 h9	0.5	1.5	10x8x20 A	42	35 d9	11	8.5	7	M10x30
A20 UH30	≥ 35	30 h7	29	138	20	98	25	2	2	33	8 h9	0.5	1.5	8x7x25 A	35+42	30 d9	11	8.5	7	M10x30
A30 UH40	≥ 47	40 h7	39	158	23	112	30	2	2	43	12 h9	0.5	1.5	12x8x30 A	47	40 d9	14	8.5	7	M12x35
A30 UH35	≥ 42	35 h7	34	158	23	112	30	2	2	38	10 h9	0.5	1.5	10x8x30 A	42+47	35 d9	11	8.5	7	M10x30
A35 UH40	≥ 47	40 h7	39	175	33	109	40	2	2	43	12 h9	1	1.5	12x8x40 A	47	40 d9	14	8.5	7	M12x35
A35 UH35	≥ 42	35 h7	34	175	33	109	40	2	2	38	10 h9	1	1.5	10x8x40 A	42+47	35 d9	11	8.5	7	M10x30
A41 UH45	≥ 52	45 h7	44	184	28	128	45	2.5	2.5	48.5	14 h9	1	2	14x9x45 A	52	45 d9	14	8.5	7	M12x35
A41 UH40	≥ 47	40 h7	39	184	28	128	50	2.5	2.5	43	12 h9	1	2	12x8x50 A	47+52	40 d9	14	8.5	7	M12x35
A50 UH55	≥ 63	55 h7	54	226	37.5	151	55	2.5	2.5	59	16 h9	1	2	16x10x55 A	63	55 d9	22	10	8	M20x50
A50 UH50	≥ 57	50 h7	49	226	37.5	151	65	2.5	2.5	53.5	14 h9	1	2	14x9x65 A	57+63	50 d9	18	10	8	M16x45
A55 UH60	≥ 70	60 h7	59	226	37.5	151	65	2.5	2.5	64	18 h9	2	2	18x11x65 A	70	60 d9	22	10	8	M20x50
A55 UH50	≥ 60	50 h7	49	226	37.5	151	75	2.5	2.5	53.5	14 h9	2	2	14x9x75 A	60+70	50 d9	18	10	8	M16x45
A60 UH70	≥ 78	70 h7	69	248	48	152	70	2.5	2.5	74.5	20 h9	2.5	2	20x12x70 A	78	70 d9	22	10	8.5	M20x50
A60 UH60	≥ 68	60 h7	59	248	48	152	80	2.5	2.5	64	18 h9	2.5	2	18x11x80 A	68+78	60 d9	22	10	8.5	M20x50
A70 UH80	≥ 89	80 h7	79	303	58	187	90	3	3	85	22 h9	2.5	2.5	22x14x90 A	89	80 d9	22	10	8.5	M20x50
A70 UH70	≥ 78	70 h7	69	303	58	187	110	3	3	74.5	20 h9	2.5	2.5	20x12x110 A	78+89	70 d9	22	10	8.5	M20x50
A80 UH90	≥ 99	90 h7	89	358	78	202	120	3	3	95	25 h9	2.5	2.5	25x14x120 A	99	90 d9	26	22	20.5	M24x70
A80 UH80	≥ 89	80 h7	79	358	78	202	130	3	3	85	22 h9	2.5	2.5	22x14x130 A	89+99	80 d9	22	10	8.5	M20x50
A90 UH100	≥ 111	100 h7	99	408	78	252	160	3	3	106	28 h9	2.5	2.5	28x16x160 A	111	100 d9	26	22	20.5	M24x70
A90 UH90	≥ 99	90 h7	89	408	78	252	190	3	3	95	25 h9	2.5	2.5	25x14x190 A	99+111	90 d9	26	22	20.5	M24x70

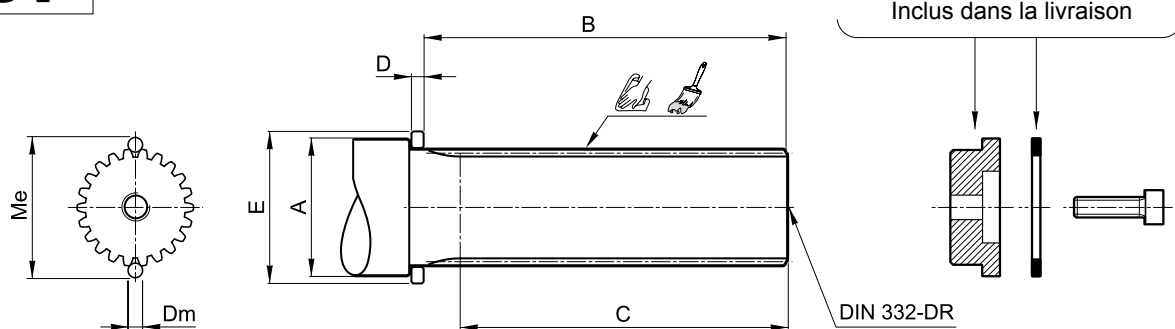


US

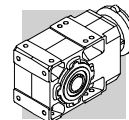


	A1	A2	A3	A4	B	B1	B2	R	S	L	L1	L2	M	M1	 UNI 5739
A 05	≥ 35	27 h7	24	25 h6	129.5	32	63.5	0.5	1.5	29.5	25 d9	11	8.5	7	M10x30
A 10	≥ 42	32 h7	29	30 h6	147.5	34	77.5	0.5	1.5	35.5	30 d9	11	8.5	7	M10x30
A 20	≥ 48	37 h7	34	35 h6	170	40	89	0.5	1.5	43	35 d9	14	8.5	7	M12x35
A 30	≥ 54	42 h7	39	40 h6	191.5	48	95.5	0.5	1.5	49	40 d9	18	10	8.5	M16x45
A 35	≥ 54	42 h7	39	40 h6	208.5	48	112.5	0.5	1.5	49	40 d9	18	10	8.5	M16x45
A 41	≥ 60	47 h7	44	45 h6	222	53	117	1	2	54	45 d9	18	10	8.5	M16x45
A 50	≥ 72	57 h7	54	55 g6	264	46	156	1	2	72	55 d9	22	10	8.5	M20x50
A 55	≥ 72	62 h7	59	60 g6	266	46	158	2.5	2	72	60 d9	22	10	8.5	M20x50
A 60	≥ 90	72 h7	69	70 g6	293	48	178	2.5	2.5	85	70 d9	22	10	8.5	M20x50
A 70	≥ 104	82 h7	79	80 g6	352.5	90	172.5	2.5	2.5	95	80 d9	22	10	8.5	M20x50
A 80	≥ 114	92 h7	89	90 g6	416	100	216	2.5	2.5	105	90 d9	26	22	20.5	M24x70
A 90	≥ 126	102 h7	99	100 g6	469	78	321	2.5	2.5	120	100 d9	26	22	20.5	M24x70

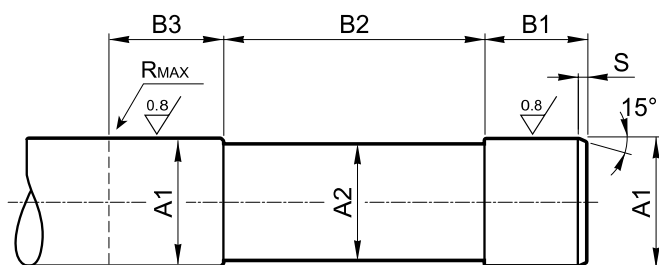
UV



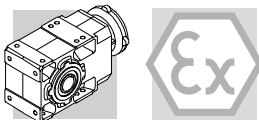
	 DIN 5480	Me	Dm	A	B	C	D	E	 ISO 4762
A 20	30x1.25x22	33.04 +0/-0.04	2.75	≥ 40	111.5	≥ 95	7	45	M10x35
A 30	35x2x16	38.93 +0/-0.04	4	≥ 45	130.5	≥ 112	7	50	M12x40
A 35	35x2x16	38.93 +0/-0.04	4	≥ 45	147.5	≥ 129	7	50	M12x40
A 41	45x2x21	48.86 +0/-0.04	4	≥ 55	155.5	≥ 136	7	60	M16x45
A 50	50x2x24	54.14 +0/-0.05	4	≥ 60	196	≥ 175	7	65	M16x45
A 55	50x2x24	54.14 +0/-0.05	4	≥ 60	196	≥ 175	7	65	M16x45
A 60	65x2x31	68.97 +0/-0.05	4	≥ 75	213.5	≥ 191	7	80	M20x55



QF



		A1	A2	B1	B2	B3	S
A 10	QF25	25 h6	24	41	95	≥ 50	1.5
	QF30	30 h6	29				
A 20	QF25	25 h6	24	41	115	≥ 50	1.5
	QF30	30 h6	29				
A 30	QF35	35 h6	34	45	130	≥ 54	1.5
	QF40	40 h6	39				
A 35	QF35	35 h6	34	45	146.5	≥ 54	1.5
	QF40	40 h6	39				
A 41	QF40	40 h6	39	47	151.5	≥ 56	2
	QF45	45 h6	44				
A 50	QF50	50 h6	49	48	197	≥ 57	2
	QF55	55 h6	54				
A 55	QF55	55 h6	54	50	190	≥ 59	2
	QF60	60 h6	59				
A 60	QF60	60 h6	59	57	203	≥ 66	2.5
	QF65	65 h6	64				
	QF70	70 h6	69				



REDUCTEURS A ARBRES ORTHOGONAUX SERIE A EN EXECUTION ATEX

47 INTRODUCTION AUX DIRECTIVES ATEX

47.1 Atmosphère explosive

D'après la directive 2014/34/UE, une **atmosphère explosive** est constituée par un mélange :

- a. de **substances inflammables** sous forme de gaz, vapeurs, brouillards et poussières,
- b. avec **l'air**,
- c. dans des conditions atmosphériques données,
- d. où, une fois amorcée, la combustion se propage à l'ensemble du mélange non brûlé (à noter qu'en présence de poussières, la quantité de combustible n'est pas toujours entièrement consommée par la combustion).

Une atmosphère susceptible de se transformer en atmosphère explosive à cause des conditions locales et/ou opérationnelles est définie « **atmosphère explosible** ». C'est uniquement à ce type d'atmosphère potentiellement explosive que sont destinés les produits concernés par la directive 2014/34/UE.

47.2 Normes européennes harmonisées ATEX

La directive 2014/34/UE fixe les prescriptions minimales de sécurité pour les produits destinés à être utilisés dans des zones à risque d'explosion, à l'intérieur des pays de l'Union européenne. De plus, cette directive classe ces appareils par **catégories** dont elle fournit la définition.

Elle contient également un système de classification décrivant les **zones** dans lesquelles le responsable d'un équipement caractérisé par la présence d'atmosphère explosive doit subdiviser les aires d'application des appareillage.

(C 1)

Zones		Fréquence de la formation d'atmosphère potentiellement explosive	Type de danger
Atmosphère gazeuse G	Atmosphère poussiéreuse D		
0	20	Présence constante ou pendant de longues périodes	Permanent
1	21	Occasionnelle au cours du fonctionnement normal	Potentiel
2	22	Très rare et/ou de courte durée au cours du fonctionnement normal	Minimum

Les réducteurs fabriqués par BONFIGLIOLI RIDUTTORI et présentés dans le présent catalogue peuvent être installés sans problèmes dans les zones 1, 21, surlignés en gris clair dans le schéma ci-dessus et conviennent également pour une installation dans des zones avec un niveau de protection inférieur (zones 2 et 22).

À partir du 20 avril 2016, la directive ATEX 2014/34/UE est appliquée sur tout le territoire de l'Union Européenne et elle remplace les lois divergentes jusqu'alors en vigueur aux échelles nationales et européenne en matière d'atmosphère explosive et la précédente directive 94/9/CE. Il est bon de souligner que, pour la première fois, les directives s'appliquent également aux appareils de nature mécanique, hydraulique et pneumatique, et non plus seulement aux appareils électriques, comme au paravant.

Il est nécessaire de préciser que la directive 2014/34/UE définit un ensemble d'exigences très spécifiques et détaillées ayant trait aux dangers dérivant d'atmosphères explosives, tandis que la Directive Machines 2006/42/CE contient uniquement des exigences de caractère très général concernant la sécurité contre le risque d'explosions (Annexe I).

Ainsi donc, c'est la directive 2014/34/UE qui doit être appliquée en matière de protection contre l'explosion en présence d'une atmosphère explosive.

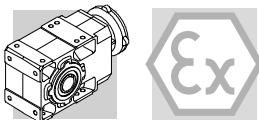
Pour tous les autres risques issus des équipements, il faudra également appliquer les exigences visées à la Directive Machines.

47.3 Niveaux de protection pour les différentes catégories d'appareils

Les différentes catégories d'appareils doivent être en mesure de fonctionner à des niveaux de protection donnés, conformément aux paramètres opérationnels fixés par le constructeur.
La disponibilité de produits BONFIGLIOLI RIDUTTORI est indiquée par les cases de couleur grise.

(C 2)

Niveau de protection	Catégorie		Type de protection	Conditions de fonctionnement
	Groupe I	Groupe II		
Très élevé	M1		Deux moyens de protection indépendants ou niveau de sécurité garanti même lorsqu'il se produit deux pannes indépendantes l'une de l'autre.	Les appareils doivent être alimentés et rester en service même en présence d'atmosphère explosive.
Très élevé		1	Deux moyens de protection indépendants ou niveau de sécurité garanti même lorsqu'il se produit deux pannes indépendantes l'une de l'autre.	Les appareils doivent être alimentés et rester en service dans les zones 0, 1, 2 (G) et/ou dans les zones 20, 21, 22 (D).
Élevé	M2		Protection adaptée au fonctionnement normal et à des conditions de fonctionnement pénibles.	Les appareils doivent être coupés de l'alimentation électrique en présence d'une atmosphère potentiellement explosive
Élevé		2	Protection adaptée à un fonctionnement normal et à des perturbations fréquentes ou appareils dans lesquels les pannes sont normalement prises en compte	Les appareils doivent être alimentés et rester en service dans les zones 1, 2 (G) et/ou dans les zones 21, 22 (D).
Normal		3	Protection adaptée au fonctionnement normal.	Les appareils doivent être alimentés et rester en service dans les zones 2 (G) et/ou dans les zones 22 (D).



47.4 Définition des groupes

Groupe I inclut les appareils destinés à être utilisés pour des travaux souterrains, dans les mines et leurs installations de surface, c'est-à-dire des milieux exposés au risque de dégagement de grisou et/ou de poussières combustibles.

Groupe II inclut les appareils destinés à être utilisés dans d'autres milieux où il est probable que des atmosphères explosives se présentent.

Aucun appareil BONFIGLIOLI RIDUTTORI ne pourra être installé dans des applications minières pouvant être classées dans le **groupe I** et le **groupe II**, catégorie 1.

En résumé, l'ensemble des classifications des appareils en groupes, catégories et zones peut être représenté par le tableau suivant, dans lequel la disponibilité de produits BONFIGLIOLI RIDUTTORI est toujours indiquée par les cases de couleur grise.

(C 3)

Groupe	I		II					
	Mines, grisou		Autres zones explosives du fait de la présence de gaz ou de poussières					
Catégorie	M1	M2	1		2		3	
Atmosphère ⁽¹⁾			G	D	G	D	G	D
Zone			0	20	1	21	2	22
Type de protection réducteur					Ex h Gb	Ex h Db	Ex h Gc	Ex h Dc

⁽¹⁾ G = gaz D = poussière

Les produits décrits ci-après sont conformes aux exigences minimales établies par la directive européenne 2014/34/UE, qui fait partie des directives connues sous le nom d'ATEX (ATmosphères EXplosibles).

47.5 Déclaration de conformité

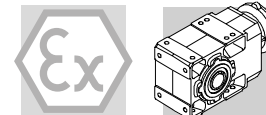
Le Déclaration de conformité est le document qui atteste de la conformité du produit à la directive 2014/34/UE.

La validité de la déclaration est liée au respect des instructions contenues dans le Manuel d'installation, d'utilisation et d'entretien, qui décrit l'utilisation en toute sécurité du produit au cours de toutes les phases de sa vie active.

L'utilisateur est invité à télécharger une copie du manuel à l'adresse www.bonfiglioli.com où il est disponible en différentes langues (format Pdf).

Les prescriptions relatives aux conditions ambiantes revêtent une importance particulière : si elles ne sont pas respectées au cours du fonctionnement, la validité du certificat en question est annulée.

En cas de doute sur la validité du certificat de conformité, contacter le service technico-commercial de BONFIGLIOLI RIDUTTORI.



48 SELECTION

Pour effectuer une sélection correcte d'un réducteur ou d'un réducteur avec interface moteur CEI en version ATEX, il est obligatoire de vérifier le réducteur mécaniquement (en adoptant un facteur de service spécifique nommé **f ATEX**) et thermiquement.

48,1 Vérification mécanique

À partir du couple de sortie nominal M_{n2} valable pour la vitesse d'entrée $n_1 = 1400 \text{ min}^{-1}$, appliquer le facteur de service suivant :

Pour la configuration HS, se référer au couple de sortie nominal M_{n2} valable pour la vitesse d'entrée $n_1 = 1400 \text{ min}^{-1}$ et appliquer **f ATEX = 1.25**, sauf pour la configuration répertoriée dans le tableau suivant où **f ATEX = 1.4**

Taille	Nbre d'etages	Rapport de reduction
A 10	2	$10.6 \leq i \leq 32.2$
A 30	2	$10.5 \leq i \leq 66$
A 35	2	$13.1 \leq i \leq 82.5$
A 41	2	$13.8 \leq i \leq 79.2$

Par conséquent, **$M_2 \text{ ATEX} = M_{n2} / f \text{ ATEX}$**

Pour la configuration CEI, sélectionnez uniquement le motoréducteur ayant un facteur de service ≥ 1.4

En cas de vitesse d'entrée supérieure à 1400 min^{-1} , veuillez contacter le service technique de Bonfiglioli.

Charge radiale admissible sur l'arbre d'entrée : **$R_1 \text{ ATEX} = R_{n1} / 1.5$**

Permissible radial load on output shaft: **$R_2 \text{ ATEX} = R_{n2}$**

48,2 Vérification thermique (valable également pour la sélection standard)

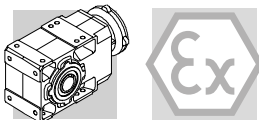
La puissance thermique totale P_t peut être calculée à l'aide de la formule suivante :

$$P_t = P_{tB} \times f_{Ta} \times f_{ratio} \times f_{POS} \times f_{INT} \times f_{AIR}$$

Les capacités thermiques de base **P_{tB}** sont listées dans le tableau ci-dessous et valables dans les conditions de fonctionnement suivantes :

- Position de montage B3
- Vitesse d'entrée 1400 min^{-1} et 2800 min^{-1}
- Température ambiante 20°C
- Espace confiné (vitesse de l'air $\leq 1.4 \text{ m/s}$)
- Altitude $\leq 1000 \text{ m}$.

$P_{tB} [\text{kW}] @ T_a 20^\circ \text{C}$		
	$n_1 = 1400 \text{ min}^{-1}$	$n_1 = 2800 \text{ min}^{-1}$
A 05	2.0	1.5
A 10	2.1	1.5
A 20	6.0	5.4
A 30	8.0	6.6
A 35	9.5	8.2



A 41	11.5	9.6
A 50	20	18
A 55	21	18
A 60	27	23
A 70	31	24
A 80	44	33
A 90	64	48

f_{Ta} = facteur de température ambiante

Température ambiante °C	f_{Ta}
20	1.0
30	0.88
40	0.76

f_{ratio} = facteur pour le rapport de réduction

Taille reducteur	f_{ratio}	
A05 - A60	0.8 se $i \leq 17$	1 se $i > 17$
A70 - A90	0.8 se $i \leq 13$	1 se $i > 13$

f_{POS} = facteur de position de montage

Position de montage	Coefficient de correction f_{POS}
B3	1.00
B8	1.00
B6	0.9
B7	0.9
VA	0.8
VB	0.8

f_{INT} = facteur de service intermittent

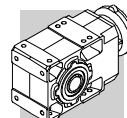
Niveau de fonctionnement intermittent %	f_{INT}
100	1.00
80	1.05
70	1.15
40	1.35
20	1.80

f_{AIR} = facteur pour le type d'ambiance

Vitesse de l'air [m/s]	f_{AIR}
Vitesse de l'air ≤ 0.5 m/s, espaces confinés (intérieur)	0.75
Vitesse de l'air ≤ 1.4 m/s, grands espaces (intérieur)	1.00

Veuillez vous référer au service technique de Bonfiglioli pour la configuration spécifique ou les données d'application différentes de la norme.

La condition à vérifier est : **P_{r1} ≤ P_t**



49 INSTALLATION, UTILISATION ET ENTRETIEN



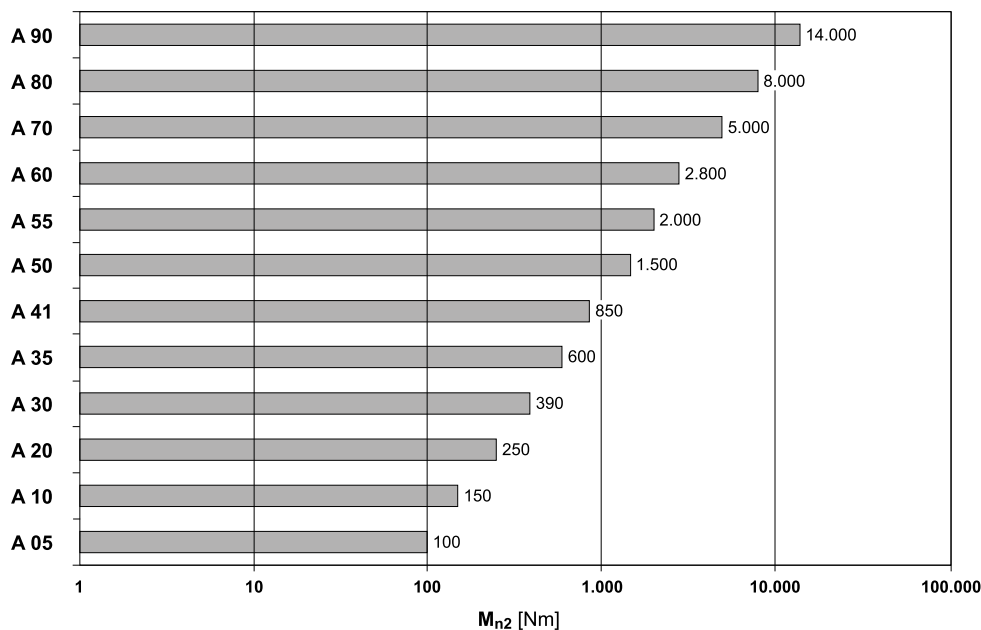
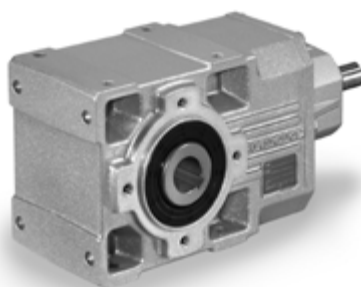
Toutes les instructions concernant l'installation, l'utilisation et l'entretien du produit sont spécifiées dans le Manuel dédié. L'utilisateur est invité à télécharger une copie du manuel à l'adresse www.bonfiglioli.com où il est disponible en différentes langues (format PDF).

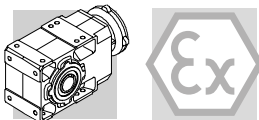
Le document devra être conservé, pendant toute la durée de vie du réducteur, dans un lieu approprié près de l'endroit d'installation et mis à disposition de tout le personnel autorisé à intervenir sur le produit.

50 CARACTERISTIQUES DE CONSTRUCTION DES GROUPES ATEX

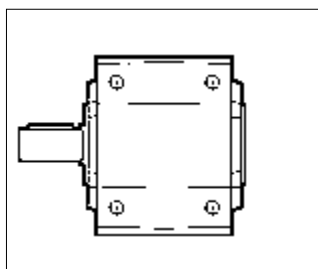
- Appareils livrés avec bouchons de service pour le contrôle périodique du niveau de lubrifiant.
- Appareils livrés avec reniflards avec soupape anti-intrusion.
- Charge de lubrifiant (huile synthétique), effectuée en usine en fonction de la position de montage spécifiée dans la commande.
- Bagues d'étanchéité en élastomère fluoré.
- Aucune pièce en matière plastique.
- Plaque d'identification spécifiant la catégorie du produit et le type de protection.
- Composants résistants aux températures limite prévues.
- Equipement de capteurs thermiques.

(C 4)





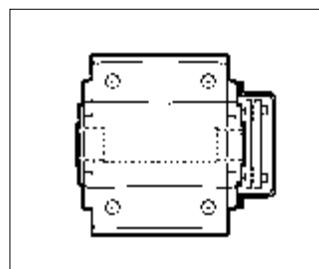
51 FORMES DE CONSTRUCTION



UR

Arbre lent sortant
d'un seul côté

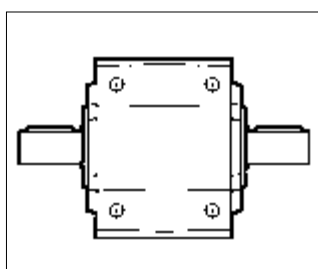
A 10 ... A 90



US

Arbre lent creux et
frette de serrage

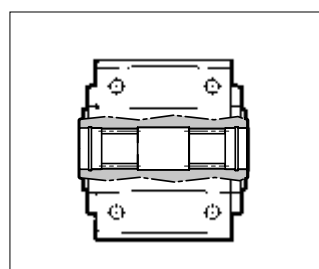
A 05 ... A 90



UD

Arbre lent sortant
des deux côtés

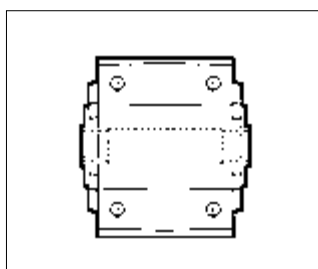
A 10 ... A 90



UV

Arbre creux cannelé
DIN 5480

A 20 ... A 60



UH

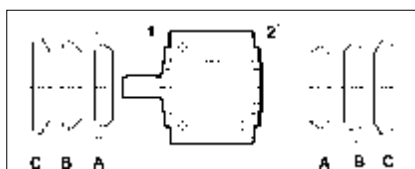
Arbre lent creux
claveté

A 05 ... A 90

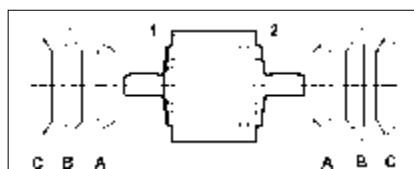
Formes de construction avec bride rapportée

Les schémas reportés définissent les brides applicables aux formes de construction standard et leur position (①,②).

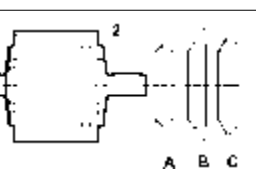
UR F1...



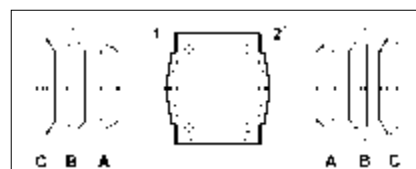
UR F2...



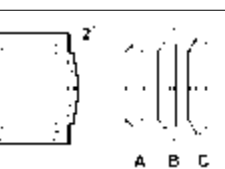
UD F1...



UD F2...

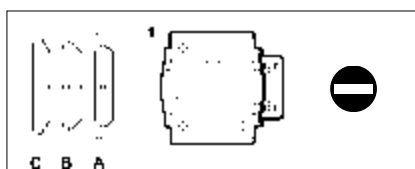


UH... F1...

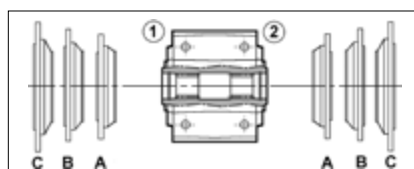


UH... F2...

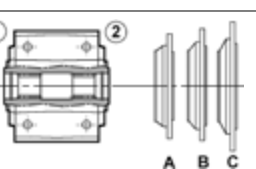
US F1...



US F2...

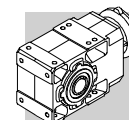


UV F1...



UV F2...





52 DESIGNATION

REDUCTEUR

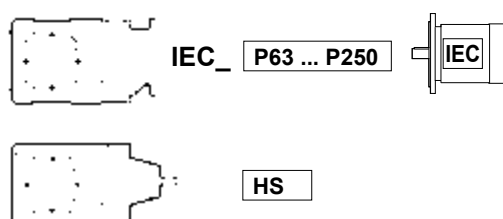
A 50 3 UH50 F1A 99.5 P90 B3 EX

OPTIONS

POSITION DE MONTAGE

B3 (Standard), **B6**, **B7**, **B8**, **VA**, **VB**

DESIGNATION ENTREE



RAPPORT DE REDUCTION

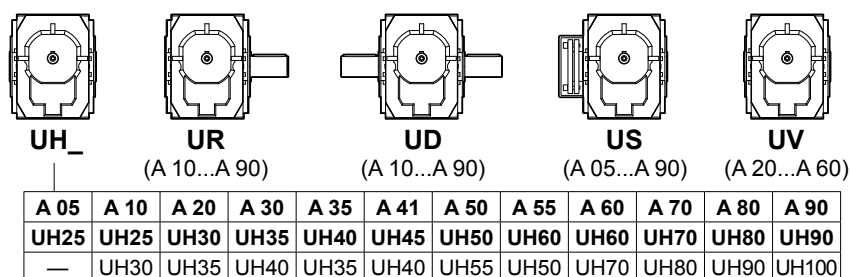
TAILLE ET POSITION BRIDE EN SORTIE
(spécifier si elle est demandée)

F = Version avec bride

1, 2 = Position bride

A, B, C = Taille bride

FORME DE CONSTRUCTION



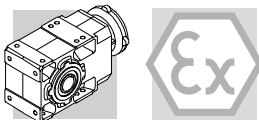
Nbre ETAGES DE REDUCTION

2 (A 05...A 60), **3** (A 20...A 90), **4** (A 50...A 90)

TAILLE REDUCTEUR

05, 10, 20, 30, 35, 41, 50, 55, 60, 70, 80, 90

TYPE: **A** = Réducteurs avec arbres orthogonaux



Options réducteurs

EX

Le réducteur peut être installé dans les zones 1 et 21 (catégories 2G et 2D).
La classe de température est T4 (max. 135 °C).

PREUVES DOCUMENTAIRES

AC - Certificat de conformité

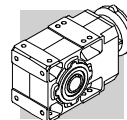
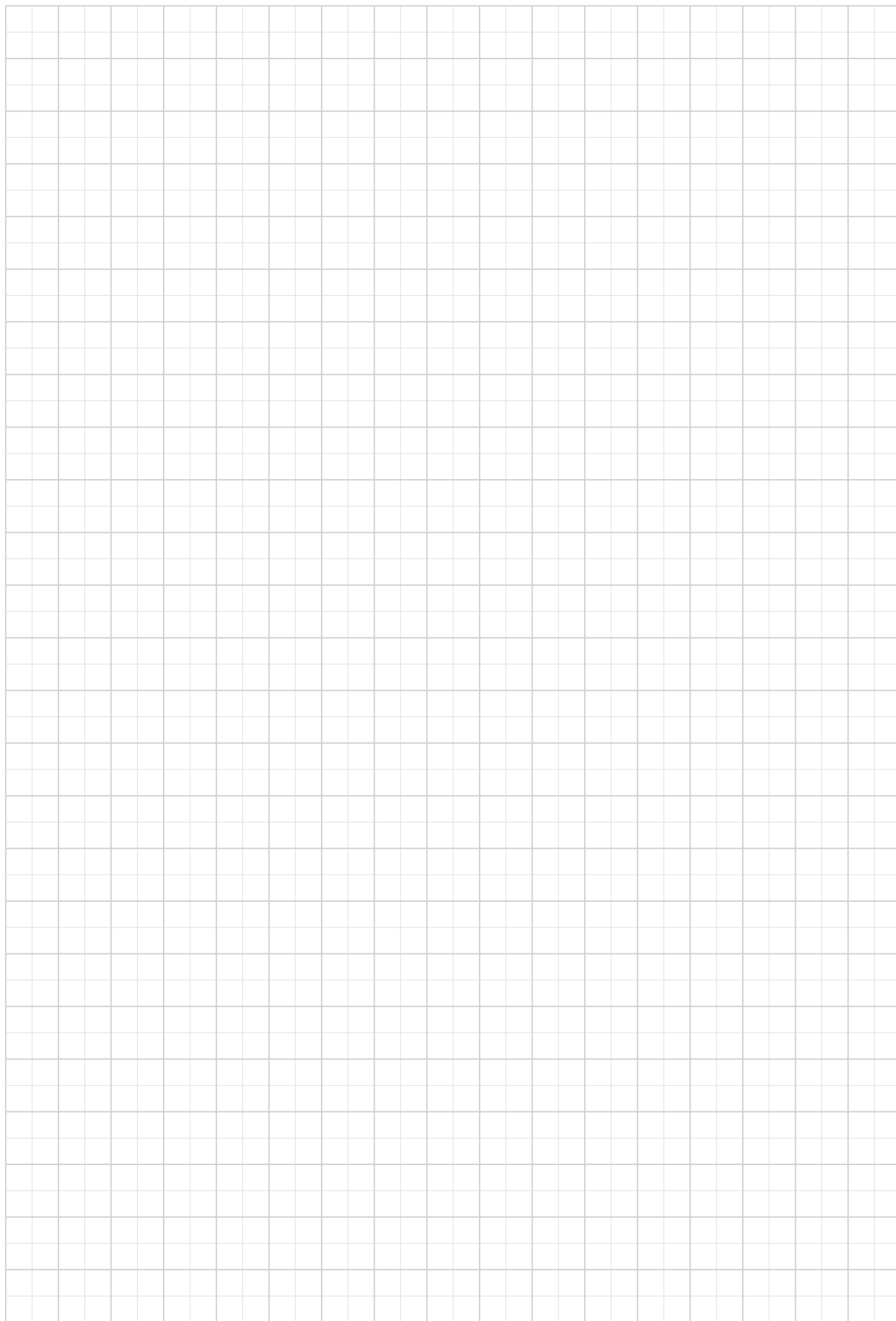
Document dont la délivrance atteste de la conformité du produit à la commande et de la construction de celui-ci conformément aux procédures standard de traitement et de contrôle prévues par le système de Qualité Bonfiglioli Riduttori.

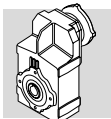
CC - Certificat d'inspection

La spécification implique la réalisation de vérifications de conformité à la commande, des contrôles visuels généraux et des vérifications instrumentales des dimensions d'accouplement. En outre, des contrôles généraux de fonctionnement à vide et des vérifications de la fonctionnalité des joints d'étanchéité sont réalisés en modalité statique et en fonctionnement. La vérification s'applique à un échantillon statistique du lot d'expédition.

53 AUTRES INFORMATIONS CONCERNANT LES REDUCTEURS ET MOTOREDUCTEURS

Les positions de montage, et les données techniques, les prédispositions moteur, les moments d'inertie et les dimensions des réducteurs séries **A-EX (Atex)** ne changent pas en comparaison aux produits équivalents des séries **A**. Toutes ces informations peuvent être retrouvées dans les chapitres relatifs de ce catalogue.





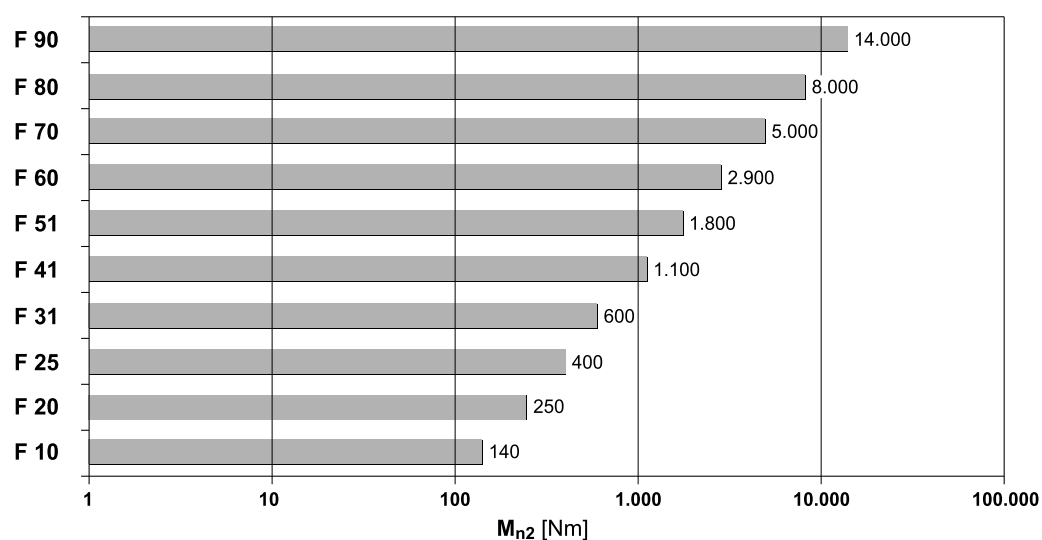
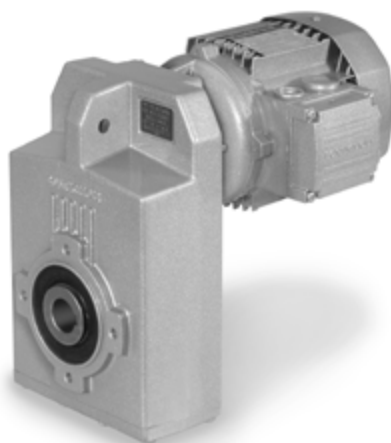
REDUCTEURS PENDULAIRES SERIE F

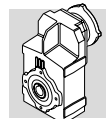
54 CARACTERISTIQUES DE CONSTRUCTION

Les principales caractéristiques de construction sont :

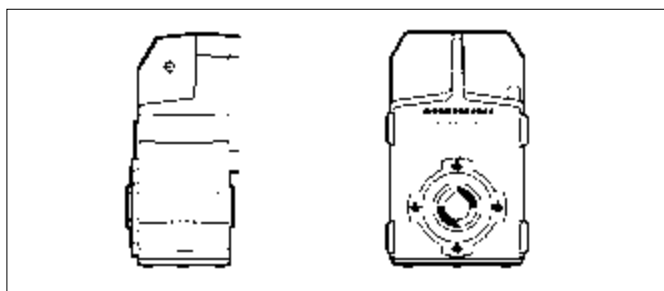
- modularité
- compacité
- montages universels
- rendements élevés
- faible niveau de bruit
- engrenages en acier allié cementés et trempés
- carters en aluminium non peints dans les tailles 10, 20 et 25,
carters en fonte à haute résistance peints dans les autres tailles.

(D 44)





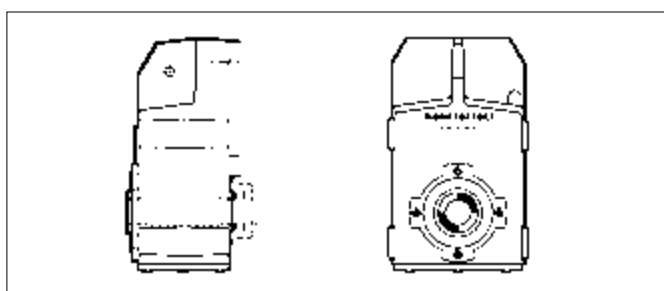
55 FORMES DE CONSTRUCTION



H

Arbre lent creux claveté

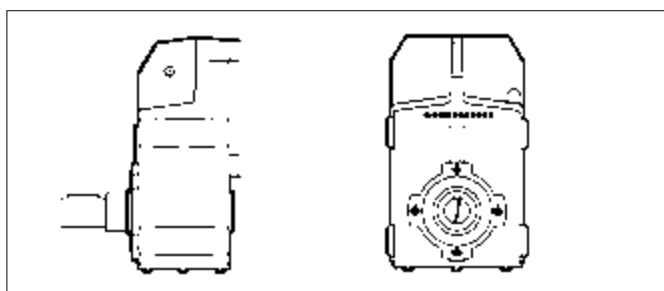
F 10 ... F 90



S

Arbre lent creux et frette de serrage

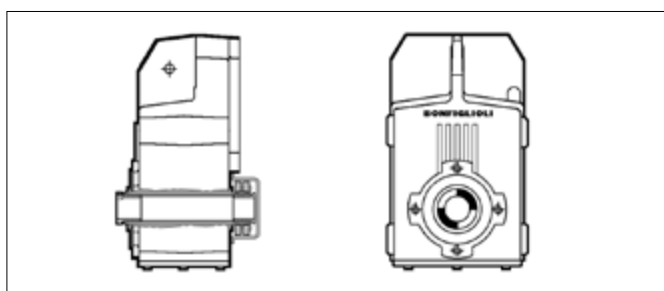
F 10 ... F 90



R

Arbre lent sortant

F 10 ... F 90



QF (Quick-fit)

Arbre creux avec
douilles d'adaptation
et frette de serrage

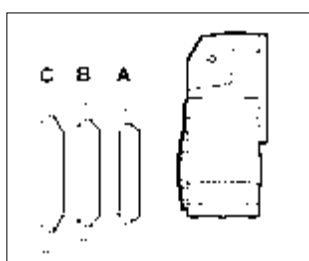
F 10 ... F 60

$M_{n2 \max}$ [Nm]	
F 25 QF30	350
F 41 QF42	850
F 41 QF45	1000
F 51 QF50	1750

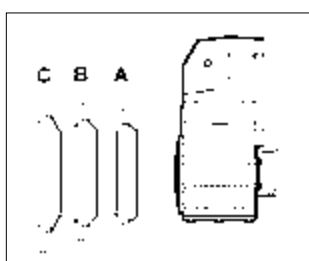
Formes de construction avec bride rapportée

Les schémas reportés définissent les brides applicables aux formes de construction standard.

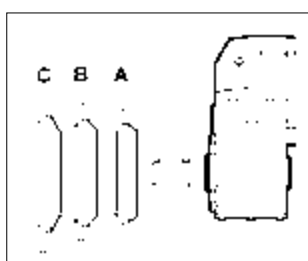
H... F...



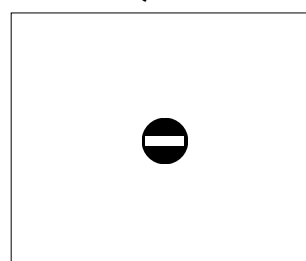
S F...

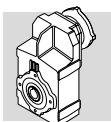


R F...



QF...





56 DESIGNATION

REDUCTEUR

F 10 2 H30 FA 9.8 S2 H5

OPTIONS

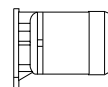
POSITION DE MONTAGE

H1 (Default), **H2**, **H3**, **H4**, **H5**, **H6**

DESIGNATION ENTREE



S05 ... S5



M - ME - MX - MXN

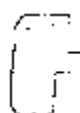


IEC_

P63 ... P250



BN - BE - BX - BXN



SK_

SC_



HS

RAPPORT DE REDUCTION

TAILLE ET POSITION BRIDE EN SORTIE (spécifier si elle est demandée)

F = Version avec bride

A, B, C = Taille bride

FORME DE CONSTRUCTION



S

(F 10...F 90)



R

(F 10...F 90)



QF

(F 10...F 60)

H											
	F 10	F 20	F 25	F 31	F 41	F 51	F 60	F 70	F 80	F 90	
Standard	H25	H30	H35	H35	H40	H50	H60	H80	H90	H100	
Alternative	H30	H35	H40	H40	H45	H55	H70	H70	H80	H90	

← Diamètres alternatifs sur demande

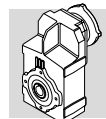
Nbre ETAGES DE REDUCTION

2 (F 10...F 51), **3** (F 20...F 90), **4** (F 31...F 90)

TAILLE REDUCTEUR

10, 20, 25, 31, 41, 51, 60, 70, 80, 90

TYPE: **F** = pendulaires



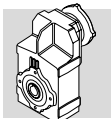
MOTEUR					FREIN										
M	1	LA	4	230/400-50	IP54	CLF		W	FD	7.5	R	SB	220	SA	
															OPTIONS
															ALIMENTATION FREIN
															TYPE REDRESSEUR AC/DC NB, SB, NBR, SBR, NR, SR
															LEVIER DE DEBLOCAGE FREIN R, RM
															COUPLE FREIN
															TYPE DE FREIN FD (frein c.c.) FDD (frein à courant continu haute performance)
															POSITION BOITE A BORNES W (défault), N, E, S
															FORME DE CONSTRUCTION — (moteur compact) B5 (moteur IEC)
															CLASSE ISOLATION CL F standard CL H option
															DEGRE DE PROTECTION IP54, IP55, IP56
															TENSION - FRÉQUENCE Par BXN/MXN voir la section “ Tension et fréquence ” dans le catalogue EVOX
															Nbre POLES 2, 4, 6
															TAILLE MOTEUR 0B ... 5LA (moteur compact) 63A ... 280SBK (moteur IEC)

TYPE MOTEUR

MX-MXN = 3phasé compact, classe IE3
BX-BXN = 3phasé IEC, classe IE3

ME = 3phasé compact, classe IE2
BE = 3phasé IEC, classe IE2

M = 3phasé compact
BN = 3phasé IEC



56.1 Options réducteurs

LUBRIFICATION

Les réducteurs F10, F20, 25, F31 et F41 sont généralement remplis d'huile en usine dans la version standard. Les réducteurs F51, F60, F70, F80 et F90 sont généralement fournis non lubrifiés dans la version standard.

Cependant, pour toutes les tailles de réducteurs remplis d'huile en usine, il est possible de demander la fourniture avec plus de types d'huile, sélectionnables selon ce qui est défini dans le tableau suivant.

L'option n'est pas disponible pour les réducteurs F51, F60, F70, F80 et F90 en position de montage H6.

LUBRIFICATION	Type	Désignation	Producteur
LU	Polyalphaoléfine (PAO)	OMALA S4 GX 150	
LY	Polyalphaoléfine (PAO)	OMALA S4 GX 220	
LV	Polyalphaoléfine (PAO)	OMALA S4 GX 320	
LW	Polyalphaoléfine (PAO)	OMALA S4 GX 460	
LH	Polyglycol (PAG)	OMALA S4 WE 150	
LS	Polyglycol (PAG)	OMALA S4 WE 220	
LO*	Polyglycol (PAG)	OMALA S4 WE 320	
LK	Polyglycol (PAG)	OMALA S4 WE 460	
LN ^[1]	Base minérale EP	OMALA S2 G 150	
LZ ^[1]	Base minérale EP	OMALA S2 G 220	
LI ^[1]	Base minérale EP	OMALA S2 G 320	
LJ ^[1]	Base minérale EP	OMALA S2 G 460	
LA	Utilisation alimentaire	KLUBERSYNTH UH1 6-150	
LB	Utilisation alimentaire	KLUBERSYNTH UH1 6-220	
LC	Utilisation alimentaire	KLUBERSYNTH UH1 6-320	
LD	Utilisation alimentaire	KLUBERSYNTH UH1 6-460	

* Sauf indication contraire, les réducteurs F10, F20, F25, F31 et F41 livrés avec une charge de lubrifiant utilisent de l'huile OMALA S4 WE 320.

[1] L'utilisation d'huile minérale est autorisée dans les motoréducteurs avec facteur de service $f_s \geq 1,30$.

SO

Les réducteurs F 10...F 41, habituellement fournis avec lubrifiant par la société BONFIGLIOLI RIDUTTORI, sont demandés sans lubrifiant.

DV

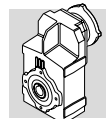
2 bagues d'étanchéité sur l'arbre rapide. (Disponible seulement sur motoréducteurs compacts).

VV

Bague d'étanchéité en élastomère fluoré sur l'arbre rapide.

PV

Toutes les bagues d'étanchéité en élastomère fluoré.



AL, AR

Sur demande le réducteur peut être fourni avec un dispositif anti-retour. Ce dispositif permet la rotation de l'arbre lent seulement dans le sens souhaité.

Pour les motoréducteurs compacts, le dispositif anti-retour est également disponible en option du moteur (voir Options moteur).

Lors de la commande du réducteur, le sens de rotation libre doit être spécifié au moyen de l'option AR ou AL. Le tableau suivant (D46) indique les réducteurs sur lesquels le dispositif anti-retour peut être installé et permet de sélectionner l'option AR ou AL en fonction du sens de rotation libre souhaité sur l'arbre lent du réducteur (sens horaire ou antihoraire).

(D 45)



(D 46)

Option à sélectionner en fonction du sens de rotation libre requis sur l'arbre lent du réducteur						
Le tableau se réfère à la position de montage H1. (CW : sens horaire, CCW : sens antihoraire)						
CW			CCW			
2x 	3x 	4x 	2x 	3x 	4x 	
10						
20						
25						
31	AR ¹⁾	AR ¹⁾		AL ¹⁾	AL ¹⁾	
41	AR ²⁾	AR		AL ²⁾	AL	
51		AR	AR		AL	AL
60		AR	AR		AL	AL
70		AR	AR		AL	AL
80		AR	AR		AL	AL
90		AR	AR		AL	AL

1) F 31 2 et A 31 3 : dispositif anti-retour non compatible avec les adaptateurs pour servomoteur de type S60A, S 60B, S_80A

2) F 41 2 : dispositif anti-retour non disponible pour les rapports 6.7 ... 10,8

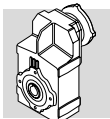


REMARQUE : Lorsque le dispositif anti-retour intervient très souvent, vérifier que le couple de l'arbre de sortie, résultant de l'application de la charge, ne dépasse pas 70% du couple nominal M_{n2} du réducteur en question.

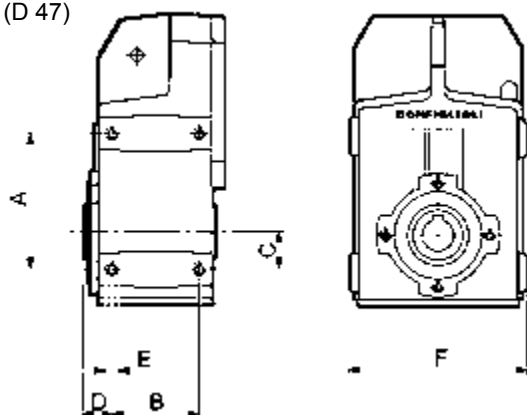
FL

Sur demande on peut recevoir le réducteur/motoréducteur F 10...F 41 avec ses faces latérales surfacées et taraudées pour en permettre l'assemblage.

Le tableau suivant comporte les dimensions des trous et les entraxes correspondants (ces usinages sont standard sur les réducteurs F 51...F 90).



(D 47)



	A	B	C	D	E	F
F 10	115	60	35	21.25	M8x16	163
F 20	130	70	40	26.5	M10x20	181
F 25	130	70	40	27.5	M10x20	181
F 31	147	80	45	30	M12x20	203
F 41	190	95	60	32.5	M12x22	235

IHB

Pour les applications où le rapport Couple nominal M_{n2} - Couple demandé M_{r2} du réducteur :

$$\frac{M_{n2}}{M_{r2}} \leq 1.5$$

certaines réducteurs peuvent être demandées avec des roulements à capacité de charge accrue en spécifiant l'option **IHB** dans la commande. L'option IHB est disponible pour tous les réducteurs livrés avec adaptateur moteur IEC : P160 - P180 - P200.

Il est conseillé de contacter le Service Technique Bonfiglioli pour vérifier l'application.

BP

Les réducteurs, généralement fournis avec un reniflard ouvert, sont fournis avec un reniflard à soupape. L'étalonnage de la soupape peut varier de 0,10 à 0,15 bar selon le type de reniflard. La soupape s'ouvre à intervalles réguliers et permet l'évacuation de la pression interne empêchant les corps étrangers de pénétrer.

Pour la disponibilité des options, voir le chapitre «Positions de montage et fiches de service» du manuel d'installation, d'utilisation et d'entretien (disponible sur: www.bonfiglioli.com).

Si nécessaire, contactez le service technique de Bonfiglioli.

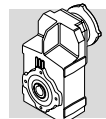
STOCKAGE LONGUE DUREE

En présence de l'option Stockage longue durée, le produit configuré est fourni sans l'huile de lubrification standard mais avec un liquide de protection anticorrosion pour garantir l'intégrité et la pleine fonctionnalité du réducteur dans les cas où l'unité ne sera pas installée immédiatement mais doit être stockée pendant une longue période (installation au-delà de 6 mois à compter de la livraison). Les conditions de garantie sont valables 12 mois à compter de la mise en service (avec mise en service dans les 24 mois à compter de la livraison) ou 24 mois à compter de la livraison sans mise en service.

Après 2 ans de stock, l'unité avec option Stockage longue durée doit être vérifiée par le centre d'assistance Bonfiglioli. En cas de produit mal conservé, une offre de Bonfiglioli sera émise pour une restauration complète. Une fois l'activité de récupération terminée avec succès, les conditions de garantie redémarrent à partir des 12 mois de mise en service (avec une mise en service dans les 24 mois à compter de la date de restauration) ou 24 mois à compter de la date de restauration.

Applicabilité de l'option Stockage longue durée :

Taille du réducteur	Applicabilité de l'option Stockage longue durée
F10 ... F31	Uniquement lorsque les options de lubrification ne sont pas actives (l'option SO est sélectionnée)
F41 ... F90	Uniquement lorsque les options de lubrification ne sont pas actives (LO, LH, LS, LK, LA, LB, LC, LD)



L'option Stockage longue durée peut être demandée en 2 versions :

- **SLM Stockage longue durée_Huile minérale** : option avec huile de protection anti-corrosive compatible avec tous les lubrifiants à base d'huile minérale répertoriés dans le manuel Bonfiglioli "Installation, fonctionnement et entretien".
- **SLP Stockage longue durée_Huile Polyglycole** : option ayant une huile de protection anticorrosion compatible avec tous les lubrifiants à base d'huile polyglycol répertoriés dans le manuel Bonfiglioli "Installation, fonctionnement et maintenance".

Remarque : une seule version peut être sélectionnée. SLM et SLP ne peuvent pas coexister.

Lors de la configuration d'un réducteur ou d'un motoréducteur avec l'option Stockage longue durée, il est nécessaire de connaître le type d'huile de lubrification qui sera utilisée par le client pendant la période de fonctionnement (huile minérale ou polyglycol).

Avant de mettre en service un produit Bonfiglioli avec cette option, assurez-vous que l'activité de remplissage d'huile de lubrification s'effectue à travers le bouchon de remplissage spécifique déterminé par la position de montage indiquée sur la plaque.

En ce qui concerne les réducteurs à lubrification à vie (voir tableau ci-dessous), la quantité d'huile de lubrification à rajouter n'est pas indiquée dans le manuel Bonfiglioli "installation, utilisation et entretien" correspondant. Dans ce cas, si l'option Stockage longue durée est active, il est donc nécessaire de contacter le centre d'assistance Bonfiglioli pour recevoir cette information.

Taille du réducteur	Quantité de lubrifiant
F10 ... F41	 BONFIGLIOLI TECHNICAL SERVICE
F51 ... F90	

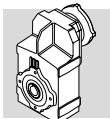
PROTECTION DE SURFACE

Lorsque qu'aucune classe de protection n'est requise, les surfaces (ferreuses) des réducteurs fournissent une protection minimale de classe C2 (UNI EN ISO 12944-2). Afin d'améliorer la résistance à la corrosion atmosphérique, les réducteurs peuvent être fournis avec une protection de surface **C3** et **C4**, obtenue par recouvrement complet.

(D 48)

PROTECTION DE SURFACE	Environnements typiques	Température maximum de surface	Classe de corrosivité en accord avec UNI EN ISO 12944-2
C3	Environnement urbains et industriels avec jusqu'à 100% d'humidité relative (pollution de l'air moyenne)	120°C	C3
C4	Zones industrielles, zones côtières, usines chimiques, avec jusqu'à 100% d'humidité relative (pollution de l'air élevée)	120°C	C4

Les réducteurs avec une protection optionnelle en classes **C3** ou **C4** sont disponibles dans plusieurs teintes. Si aucune teinte spécifique n'est requise (voir l'option "PEINTURE"), les réducteurs seront réalisés en RAL 7042. Les réducteurs peuvent également être fournis avec une protection de surface pour une corrosivité en classe **C5** en accord avec UNI EN ISO 12944-2. Contacter notre Service Technique pour plus de détails.



PEINTURE

Les réducteurs avec une protection optionnelle en classe C3 ou C4 sont disponibles dans les teintes indiquées dans la table suivante.

(D 49)

PEINTURE	Couleur	RAL numéro
RAL7042*	Gris trafic A	7042
RAL5010	Bleu gentiane	5010
RAL9005	Noir foncé	9005
RAL9006	Aluminium blanc	9006
RAL9010	Blanc pur	9010
RAL7035	Gris clair	7035
RAL7001	Gris Argenté	7001
RAL5015	Bleu ciel	5015
RAL7037	Gris poussiéreux	7037
RAL5024	Bleu pastel	5024

* Les réducteurs sont fournis dans cette teinte standard si rien n'est spécifié.

NOTE – Les options “PEINTURE” peuvent seulement être spécifiées en accord avec les options “PROTECTION DE SURFACE”.

PREUVES DOCUMENTAIRES

AC - Certificat de conformité

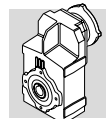
Document dont la délivrance atteste de la conformité du produit à la commande et de la construction de celui-ci conformément aux procédures standard de traitement et de contrôle prévues par le système de Qualité Bonfiglioli Riduttori.

CC - Certificat de réception

La spécification implique la réalisation de vérifications de conformité à la commande, des contrôles visuels généraux et des vérifications instrumentales des dimensions d'accouplement. En outre, des contrôles généraux de fonctionnement à vide et des vérifications de la fonctionnalité des joints d'étanchéité sont réalisés en modalité statique et en fonctionnement. La vérification s'applique à un échantillon statistique du lot d'expédition.

56.2 Accessoires

Voir le paragraphe 66 de ce catalogue.



56.3 Options moteurs

AL, AR

L'option dispositif anti-retour est disponible pour les motoréducteurs équipés de moteurs M, ME et MX et n'est pas compatible avec l'option réducteur correspondante.

Lors de la commande du réducteur, le sens de rotation libre doit être spécifié au moyen de l'option AR ou AL. Le tableau suivant (D50) permet de sélectionner l'option AR ou AL en fonction du sens de rotation libre souhaité sur l'arbre lent du réducteur (sens horaire ou antihoraire).

(D 50)

Option à sélectionner en fonction du sens de rotation libre requis sur l'arbre lent du réducteur Valable pour toutes les tailles. Le tableau se réfère au réducteur en position de montage H1. (CW : sens horaire, CCW : sens antihoraire)					
CW			CCW		
2x	3x	4x	2x	3x	4x
AR	AL	AR	AL	AR	AL

Pour de plus amples informations sur les options, consulter la section moteurs électriques.

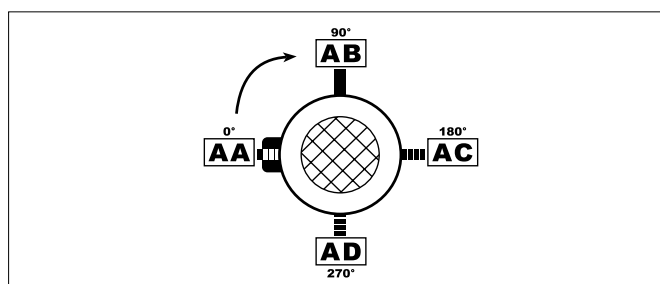
57 POSITIONS DE MONTAGE ET ORIENTATION BOITE A BORNES

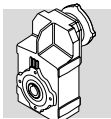
Les orientations des boîtes à bornes des moteurs sont définies en regardant le moteur du côté ventilateur. L'orientation standard est indiquée en noir (W).

Position angulaire levier déblocage frein.

Dans les moteurs freins, ce levier (si requis) aura l'orientation standard de 90° par rapport à la boîte à bornes (position AB); spécifier avec options relatives si l'orientation désirée est différente.

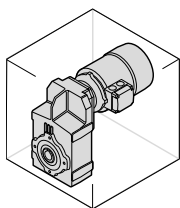
(D 51)



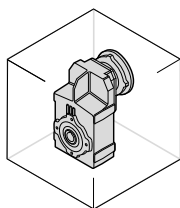


F ...

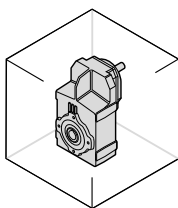
H1



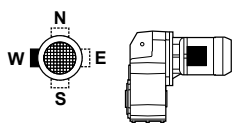
_S



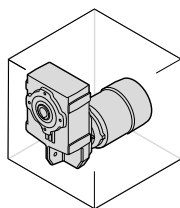
_P(IEC) _SK / _SC



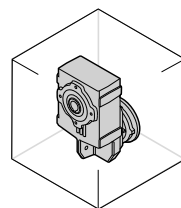
_HS



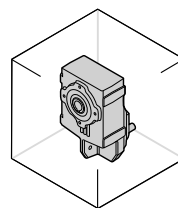
H2



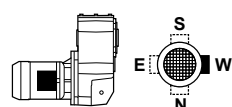
_S



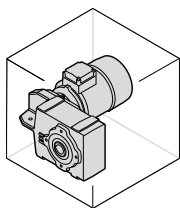
_P(IEC) _SK / _SC



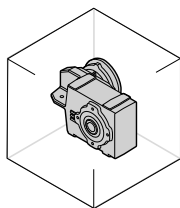
_HS



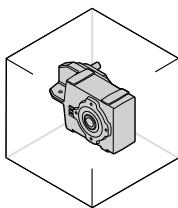
H3



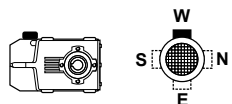
_S



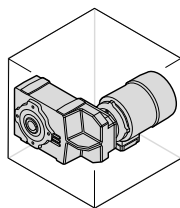
_P(IEC) _SK / _SC



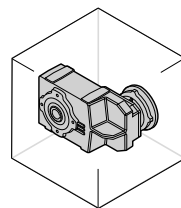
_HS



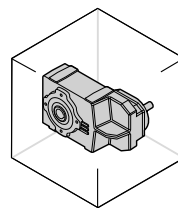
H4



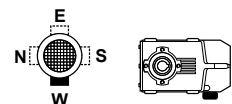
_S



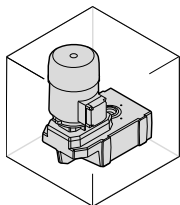
_P(IEC) _SK / _SC



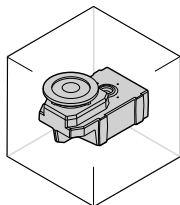
_HS



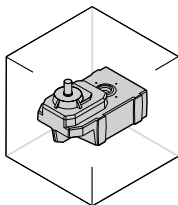
H5



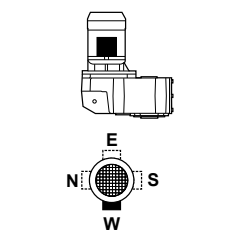
_S



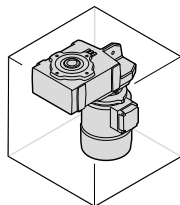
_P(IEC) _SK / _SC



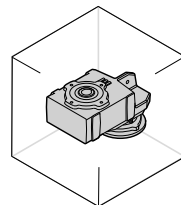
_HS



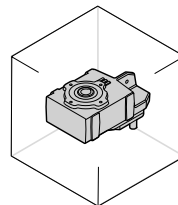
H6



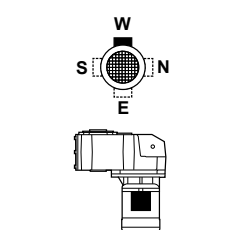
_S



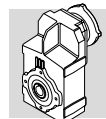
_P(IEC) _SK / _SC



_HS



W = Default



58 CHARGES RADIALES

Les organes de transmission calés sur les arbres d'entrée et/ou de sortie du réducteur génèrent des forces dont la résultante agit sur l'arbre dans le sens radial.

L'entité de ces charges doit être compatible avec la capacité d'endurance du système arbre-roulements du réducteur. Plus particulièrement, la valeur absolue de la charge appliquée (R_{c1} pour l'arbre d'entrée, R_{c2} pour l'arbre de sortie) doit être inférieure à la valeur nominale (R_{n1} pour l'arbre d'entrée, R_{n2} pour l'arbre de sortie) indiquée dans les tableaux des données techniques.

Dans les formules qui suivent, l'indice (1) se réfère à des valeurs relatives à l'arbre rapide, l'indice (2) concerne l'arbre lent.

La charge générée par une transmission extérieure peut être calculée, avec une bonne approximation, au moyen de la formule suivante :

$$R_{c1} [N] = \frac{2000 \cdot M_1 [Nm] \cdot K_r}{d [mm]} \quad ; \quad R_{c2} [N] = \frac{2000 \cdot M_2 [Nm] \cdot K_r}{d [mm]} \quad (35)$$

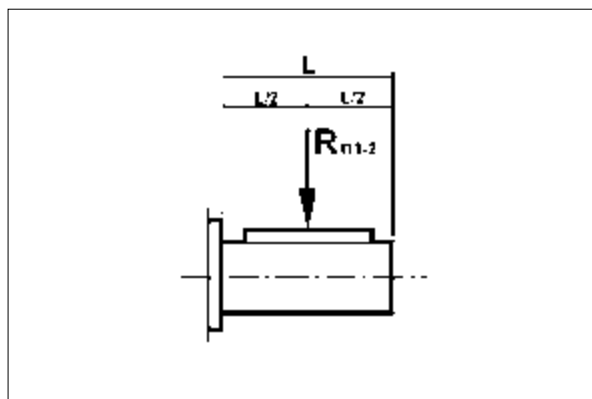
(D 52)

M_1 [Nm]	Couple appliqué à l'arbre rapide
M_2 [Nm]	Couple délivré par l'arbre lent
d [mm]	Diamètre primitif de l'organe monté sur l'arbre
$K_r = 1$	Transmission à chaîne

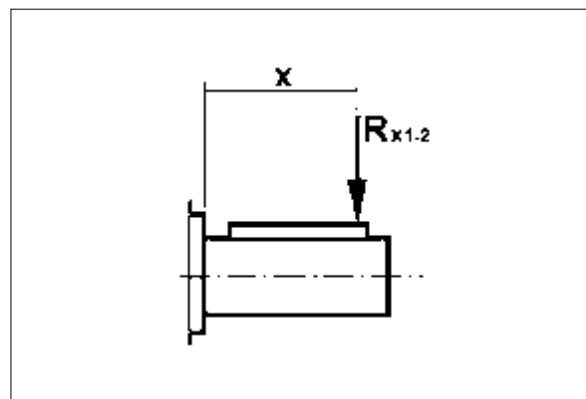
$K_r = 1,25$	Transmission à engrenage
$K_r = 1,5$	Transmission à courroie trapézoïdale
$K_r = 2,0$	Transmission à courroie plate

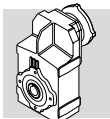
En fonction du point d'application de la charge sur l'arbre, la vérification de la compatibilité sera différente, plus particulièrement :

(D 53)



(D 54)





a) Application au milieu, tab. (D53)

La charge précédemment calculée doit être comparée avec la valeur nominale correspondante indiquée dans le catalogue, on doit vérifier :

$$Rc1 \leq Rn1 \quad [\text{arbre rapide}]$$

ou

$$Rc2 \leq Rn2 \quad [\text{arbre lent}]$$

b) Application déplacée du milieu, tab. (D54)

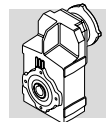
L'application de la charge à une distance "x" de la butée de l'arbre implique un nouveau calcul de la valeur admissible à cette distance.

La nouvelle valeur est indiquée par les symboles Rx1 (entrée) et Rx2 (sortie) ou peut être calculée d'après les valeurs de catalogue, respectivement Rn1 et Rn2, en élaborant le facteur :

$$\frac{a}{b+x} \quad (36)$$

(D 55)

	Constantes du réducteur					
	Arbre lent			Arbre rapide		
	a	b	c	a	b	c
F 10 2	123	100.5	450	21	1	300
F 20 2	145	115	600	40	20	350
F 20 3	145	115	600	21	1	300
F 25 2 - F 25 3	157.5	127.5	800	40	20	350
F 25 4	157.5	127.5	800	21	1	300
F 31 2 - F 31 3	165	135	850	38.5	18.5	350
F 31 4	165	135	850	21	1	300
F 41 2 - F 41 3	191.5	151.5	1000	49.5	24.5	450
F 41 4	191.5	151.5	1000	40	20	350
F 51 2 - F 51 3	233.5	183.5	1300	49.5	24.5	450
F 51 4	233.5	183.5	1300	38.5	18.5	350
F 60 3	258.5	198.5	1100	55.5	25.5	600
F 60 4	258.5	198.5	1100	49.5	24.5	450
F 70 3	342	277	1600	86	31	1000
F 70 4	342	277	1600	49.5	24.5	450
F 80 3	386.5	301.5	1800	86	31	1000
F 80 4	386.5	301.5	1800	49.5	24.5	450
F 90 3	458.5	353.5	2400	116	46	1400
F 90 4	458.5	353.5	2400	49.5	24.5	450



La procédure de vérification comporte les pas successifs indiqués ici.

ARBRE RAPIDE

1. Calcul de :

$$R_{x1} = R_{n1} \cdot \frac{a}{b+x} \quad (37)$$

N.B. A condition que :

$$\frac{L}{2} \leq x \leq c \quad (38)$$

Ensuite, vérifier que :

$$R_{c1} \leq R_{x1} \quad (39)$$

ARBRE LENT

1. Calcul de :

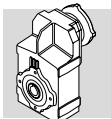
$$R_{x2} = R_{n2} \cdot \frac{a}{b+x} \quad (40)$$

N.B. A condition que :

$$\frac{L}{2} \leq x \leq c \quad (41)$$

Ensuite, vérifier que :

$$R_{c2} \leq R_{x2} \quad (42)$$



59 CHARGES AXIALES, A_{n1} , A_{n2}

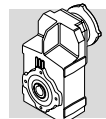
Les valeurs de charge axiale admissible sur les arbres rapides [A_{n1}] et lent [A_{n2}] peuvent être calculées, en se référant à la valeur de charge radiale correspondante [R_{n1}] et [R_{n2}] au moyen des formules suivantes.

$$\begin{aligned} A_{n1} &= R_{n1} \cdot 0.2 \\ A_{n2} &= R_{n2} \cdot 0.2 \end{aligned} \quad (43)$$

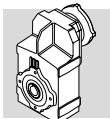
Les valeurs de charge axiale admissible ainsi calculées se réfèrent au cas de forces axiales agissant en même temps que les charges radiales nominales.

Dans le cas où la valeur de la charge radiale agissant sur l'arbre est nulle, l'on peut considérer la charge axiale admissible [A_n] égale à 50% de la valeur de la charge radiale admissible [R_n] sur le même arbre.

En présence de charges axiales excédant la valeur admissible, ou de forces axiales fortement supérieures aux charges radiales, il est conseillé de contacter le Service Technique Bonfiglioli Riduttori pour une vérification.

**60 DONNEES TECHNIQUES MOTOREDUCTEURS****0.12 kW**

n ₂	M ₂	S	i	R _{n2}				IEC		
min ⁻¹	Nm			N	IE2	IE3		IE2	IE3	
0.6	1742	2.9	2188	35000				F704_2188 P63 BE63A4	F704_2188 P63 BX63A4	523
0.7	1607	3.1	2019	35000				F704_2019 P63 BE63A4	F704_2019 P63 BX63A4	523
1.0	1090	1.0	1411	8500	F414_1411 S05 ME05A4	F414_1411 S05 MX05A4	510	F414_1411 P63 BE63A4	F414_1411 P63 BX63A4	511
1.1	938	1.2	1213	8500	F414_1213 S05 ME05A4	F414_1213 S05 MX05A4	510	F414_1213 P63 BE63A4	F414_1213 P63 BX63A4	511
1.2	844	1.3	1092	8500	F414_1092 S05 ME05A4	F414_1092 S05 MX05A4	510	F414_1092 P63 BE63A4	F414_1092 P63 BX63A4	511
1.4	759	1.4	982.4	8500	F414_982.4 S05 ME05A4	F414_982.4 S05 MX05A4	510	F414_982.4 P63 BE63A4	F414_982.4 P63 BX63A4	511
1.5	696	1.6	900.5	8500	F414_900.5 S05 ME05A4	F414_900.5 S05 MX05A4	510	F414_900.5 P63 BE63A4	F414_900.5 P63 BX63A4	511
1.6	643	0.9	831.6	6500	F314_831.6 S05 ME05A4	F314_831.6 S05 MX05A4	506	F314_831.6 P63 BE63A4	F314_831.6 P63 BX63A4	507
1.7	629	1.7	813.8	8500	F414_813.8 S05 ME05A4	F414_813.8 S05 MX05A4	510	F414_813.8 P63 BE63A4	F414_813.8 P63 BX63A4	511
1.8	589	1.0	762.3	6500	F314_762.3 S05 ME05A4	F314_762.3 S05 MX05A4	506	F314_762.3 P63 BE63A4	F314_762.3 P63 BX63A4	507
1.8	571	1.9	739.4	8500	F414_739.4 S05 ME05A4	F414_739.4 S05 MX05A4	510	F414_739.4 P63 BE63A4	F414_739.4 P63 BX63A4	511
2.0	530	1.1	685.6	6500	F314_685.6 S05 ME05A4	F314_685.6 S05 MX05A4	506	F314_685.6 P63 BE63A4	F314_685.6 P63 BX63A4	507
2.0	533	2.1	690.1	8500	F414_690.1 S05 ME05A4	F414_690.1 S05 MX05A4	510	F414_690.1 P63 BE63A4	F414_690.1 P63 BX63A4	511
2.2	479	1.3	619.9	6500	F314_619.9 S05 ME05A4	F314_619.9 S05 MX05A4	506	F314_619.9 P63 BE63A4	F314_619.9 P63 BX63A4	507
2.3	456	0.9	589.7	6500	F254_589.7 S05 ME05A4	F254_589.7 S05 MX05A4	502	F254_589.7 P63 BE63A4	F254_589.7 P63 BX63A4	503
2.3	447	1.3	578.6	6500	F314_578.6 S05 ME05A4	F314_578.6 S05 MX05A4	506	F314_578.6 P63 BE63A4	F314_578.6 P63 BX63A4	507
2.5	425	2.6	549.8	8500	F414_549.8 S05 ME05A4	F414_549.8 S05 MX05A4	510	F414_549.8 P63 BE63A4	F414_549.8 P63 BX63A4	511
2.6	408	1.0	527.3	6500	F254_527.3 S05 ME05A4	F254_527.3 S05 MX05A4	502	F254_527.3 P63 BE63A4	F254_527.3 P63 BX63A4	503
2.6	408	1.5	527.8	6500	F314_527.8 S05 ME05A4	F314_527.8 S05 MX05A4	506	F314_527.8 P63 BE63A4	F314_527.8 P63 BX63A4	507
2.9	360	1.1	466.0	6500	F254_466.0 S05 ME05A4	F254_466.0 S05 MX05A4	502	F254_466.0 P63 BE63A4	F254_466.0 P63 BX63A4	503
2.9	358	1.7	462.6	6500	F314_462.6 S05 ME05A4	F314_462.6 S05 MX05A4	506	F314_462.6 P63 BE63A4	F314_462.6 P63 BX63A4	507
3.1	336	1.2	434.9	6500	F254_434.9 S05 ME05A4	F254_434.9 S05 MX05A4	502	F254_434.9 P63 BE63A4	F254_434.9 P63 BX63A4	503
3.1	335	3.3	433.7	8500	F414_433.7 S05 ME05A4	F414_433.7 S05 MX05A4	510	F414_433.7 P63 BE63A4	F414_433.7 P63 BX63A4	511
3.2	324	1.9	418.9	6500	F314_418.9 S05 ME05A4	F314_418.9 S05 MX05A4	506	F314_418.9 P63 BE63A4	F314_418.9 P63 BX63A4	507
3.4	304	1.3	393.9	6500	F254_393.9 S05 ME05A4	F254_393.9 S05 MX05A4	502	F254_393.9 P63 BE63A4	F254_393.9 P63 BX63A4	503
3.6	296	2.0	374.4	6500				F313_374.4 P63 BE63A4	F313_374.4 P63 BX63A4	507
4.1	263	1.5	333.1	6500	F253_333.1 S05 ME05A4	F253_333.1 S05 MX05A4	502	F253_333.1 P63 BE63A4	F253_333.1 P63 BX63A4	503
4.1	263	2.3	332.8	6500				F313_332.8 P63 BE63A4	F313_332.8 P63 BX63A4	507
4.3	250	1.0	316.9	4000	F203_316.9 S05 ME05A4	F203_316.9 S05 MX05A4	498	F203_316.9 P63 BE63A4	F203_316.9 P63 BX63A4	499
4.6	232	2.6	293.8	6500				F313_293.8 P63 BE63A4	F313_293.8 P63 BX63A4	507
4.7	225	1.1	285.2	4000	F203_285.2 S05 ME05A4	F203_285.2 S05 MX05A4	498	F203_285.2 P63 BE63A4	F203_285.2 P63 BX63A4	499
4.7	228	1.8	288.1	6500	F253_288.1 S05 ME05A4	F253_288.1 S05 MX05A4	502	F253_288.1 P63 BE63A4	F253_288.1 P63 BX63A4	503
5.3	202	1.2	255.3	4000	F203_255.3 S05 ME05A4	F203_255.3 S05 MX05A4	498	F203_255.3 P63 BE63A4	F203_255.3 P63 BX63A4	499
5.3	202	2.0	256.1	6500	F253_256.1 S05 ME05A4	F253_256.1 S05 MX05A4	502	F253_256.1 P63 BE63A4	F253_256.1 P63 BX63A4	503
5.3	200	3.0	253.6	6500				F313_253.6 P63 BE63A4	F313_253.6 P63 BX63A4	507
5.9	180	2.2	227.8	6500	F253_227.8 S05 ME05A4	F253_227.8 S05 MX05A4	502	F253_227.8 P63 BE63A4	F253_227.8 P63 BX63A4	503
5.9	180	3.3	228.2	6500				F313_228.2 P63 BE63A4	F313_228.2 P63 BX63A4	507
6.5	165	1.5	209.3	4000	F203_209.3 S05 ME05A4	F203_209.3 S05 MX05A4	498	F203_209.3 P63 BE63A4	F203_209.3 P63 BX63A4	499
7.0	153	2.6	193.6	6500	F253_193.6 S05 ME05A4	F253_193.6 S05 MX05A4	502	F253_193.6 P63 BE63A4	F253_193.6 P63 BX63A4	503
7.3	146	1.7	184.9	4000	F203_184.9 S05 ME05A4	F203_184.9 S05 MX05A4	498	F203_184.9 P63 BE63A4	F203_184.9 P63 BX63A4	499
7.7	138	2.9	174.2	6500	F253_174.2 S05 ME05A4	F253_174.2 S05 MX05A4	502	F253_174.2 P63 BE63A4	F253_174.2 P63 BX63A4	503
7.8	136	1.8	172.6	4000	F203_172.6 S05 ME05A4	F203_172.6 S05 MX05A4	498	F203_172.6 P63 BE63A4	F203_172.6 P63 BX63A4	499
8.6	123	2.0	156.3	4000	F203_156.3 S05 ME05A4	F203_156.3 S05 MX05A4	498	F203_156.3 P63 BE63A4	F203_156.3 P63 BX63A4	499
8.7	123	3.2	155.9	6500	F253_155.9 S05 ME05A4	F253_155.9 S05 MX05A4	502	F253_155.9 P63 BE63A4	F253_155.9 P63 BX63A4	503
9.4	113	3.5	143.0	6500	F253_143.0 S05 ME05A4	F253_143.0 S05 MX05A4	502	F253_143.0 P63 BE63A4	F253_143.0 P63 BX63A4	503
10.2	107	2.3	132.2	4000	F202_132.2 S05 ME05A4	F202_132.2 S05 MX05A4	498	F202_132.2 P63 BE63A4	F202_132.2 P63 BX63A4	499
10.6	103	1.4	127.1	2800	F102_127.1 S05 ME05A4	F102_127.1 S05 MX05A4	494	F102_127.1 P63 BE63A4	F102_127.1 P63 BX63A4	495
11.8	92	2.7	114.3	4000	F202_114.3 S05 ME05A4	F202_114.3 S05 MX05A4	498	F202_114.3 P63 BE63A4	F202_114.3 P63 BX63A4	499
12.7	86	1.6	106.0	2800	F102_106.0 S05 ME05A4	F102_106.0 S05 MX05A4	494	F102_106.0 P63 BE63A4	F102_106.0 P63 BX63A4	495
13.3	82	3.0	101.6	4000	F202_101.6 S05 ME05A4	F202_101.6 S05 MX05A4	498	F202_101.6 P63 BE63A4	F202_101.6 P63 BX63A4	499
14.8	74	1.9	91.5	2800	F102_91.5 S05 ME05A4	F102_91.5 S05 MX05A4	494	F102_91.5 P63 BE63A4	F102_91.5 P63 BX63A4	495
14.9	73	3.4	90.4	4000	F202_90.4 S05 ME05A4	F202_90.4 S05 MX05A4	498	F202_90.4 P63 BE63A4	F202_90.4 P63 BX63A4	499
16.6	66	2.1	81.3	2800	F102_81.3 S05 ME05A4	F102_81.3 S05 MX05A4	494	F102_81.3 P63 BE63A4	F102_81.3 P63 BX63A4	495
19.0	57	2.4	71.1	2800	F102_71.1 S05 ME05A4	F102_71.1 S05 MX05A4	494	F102_71.1 P63 BE63A4	F102_71.1 P63 BX63A4	495

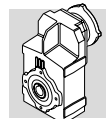


0.12 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				IEC		
					IE2	IE3		IE2	IE3	
21.4	51	2.8	63.0	2800	F102_63.0 S05 ME05A4	F102_63.0 S05 MX05A4	494	F102_63.0 P63 BE63A4	F102_63.0 P63 BX63A4	495
23.8	46	3.1	56.7	2800	F102_56.7 S05 ME05A4	F102_56.7 S05 MX05A4	494	F102_56.7 P63 BE63A4	F102_56.7 P63 BX63A4	495
27.7	39	3.6	48.7	2800	F102_48.7 S05 ME05A4	F102_48.7 S05 MX05A4	494	F102_48.7 P63 BE63A4	F102_48.7 P63 BX63A4	495
30.0	36	3.9	44.7	2800	F102_44.7 S05 ME05A4	F102_44.7 S05 MX05A4	494	F102_44.7 P63 BE63A4	F102_44.7 P63 BX63A4	495
34.0	32	4.4	39.6	2800	F102_39.6 S05 ME05A4	F102_39.6 S05 MX05A4	494	F102_39.6 P63 BE63A4	F102_39.6 P63 BX63A4	495
38.0	29	4.9	35.3	2800	F102_35.3 S05 ME05A4	F102_35.3 S05 MX05A4	494	F102_35.3 P63 BE63A4	F102_35.3 P63 BX63A4	495
41.0	27	5.3	33.0	2800	F102_33.0 S05 ME05A4	F102_33.0 S05 MX05A4	494	F102_33.0 P63 BE63A4	F102_33.0 P63 BX63A4	495
46.0	24	5.9	29.6	2800	F102_29.6 S05 ME05A4	F102_29.6 S05 MX05A4	494	F102_29.6 P63 BE63A4	F102_29.6 P63 BX63A4	495
52.0	21	6.7	25.8	2800	F102_25.8 S05 ME05A4	F102_25.8 S05 MX05A4	494	F102_25.8 P63 BE63A4	F102_25.8 P63 BX63A4	495
59.0	18	7.6	22.8	2700	F102_22.8 S05 ME05A4	F102_22.8 S05 MX05A4	494	F102_22.8 P63 BE63A4	F102_22.8 P63 BX63A4	495
70.0	16	8.7	19.3	2560	F102_19.3 S05 ME05A4	F102_19.3 S05 MX05A4	494	F102_19.3 P63 BE63A4	F102_19.3 P63 BX63A4	495
80.0	14	9.3	17.0	2450	F102_17.0 S05 ME05A4	F102_17.0 S05 MX05A4	494	F102_17.0 P63 BE63A4	F102_17.0 P63 BX63A4	495
92.0	12	10.1	14.6	2340	F102_14.6 S05 ME05A4	F102_14.6 S05 MX05A4	494	F102_14.6 P63 BE63A4	F102_14.6 P63 BX63A4	495
104.0	11	9.9	13.0	2250	F102_13.0 S05 ME05A4	F102_13.0 S05 MX05A4	494	F102_13.0 P63 BE63A4	F102_13.0 P63 BX63A4	495
117.0	9	10.3	11.5	2160	F102_11.5 S05 ME05A4	F102_11.5 S05 MX05A4	494	F102_11.5 P63 BE63A4	F102_11.5 P63 BX63A4	495
138.0	8	11.3	9.8	2050	F102_9.8 S05 ME05A4	F102_9.8 S05 MX05A4	494	F102_9.8 P63 BE63A4	F102_9.8 P63 BX63A4	495
157.0	7	11.8	8.6	1970	F102_8.6 S05 ME05A4	F102_8.6 S05 MX05A4	494	F102_8.6 P63 BE63A4	F102_8.6 P63 BX63A4	495
182.0	6	12.7	7.4	1870	F102_7.4 S05 ME05A4	F102_7.4 S05 MX05A4	494	F102_7.4 P63 BE63A4	F102_7.4 P63 BX63A4	495

0.12 kW

n2 min-1	M2 Nm	S	i	Rn2 N	IE3	IE3	IE3	
0.6	1742	2.9	2188	35000		F704_2188 P63 BXN63MA4	523	
0.7	1607	3.1	2019	35000		F704_2019 P63 BXN63MA4	523	
1.0	1090	1.0	1411	8500	F414_1411 SX05 MXN05MA4	510	F414_1411 P63 BXN63MA4	511
1.1	938	1.2	1213	8500	F414_1213 SX05 MXN05MA4	510	F414_1213 P63 BXN63MA4	511
1.2	844	1.3	1092	8500	F414_1092 SX05 MXN05MA4	510	F414_1092 P63 BXN63MA4	511
1.4	759	1.4	982.4	8500	F414_982.4 SX05 MXN05MA4	510	F414_982.4 P63 BXN63MA4	511
1.5	696	1.6	900.5	8500	F414_900.5 SX05 MXN05MA4	510	F414_900.5 P63 BXN63MA4	511
1.6	643	0.9	831.6	6500	F314_831.6 SX05 MXN05MA4	506	F314_831.6 P63 BXN63MA4	507
1.7	629	1.7	813.8	8500	F414_813.8 SX05 MXN05MA4	510	F414_813.8 P63 BXN63MA4	511
1.8	589	1.0	762.3	6500	F314_762.3 SX05 MXN05MA4	506	F314_762.3 P63 BXN63MA4	507
1.8	571	1.9	739.4	8500	F414_739.4 SX05 MXN05MA4	510	F414_739.4 P63 BXN63MA4	511
2.0	530	1.1	685.6	6500	F314_685.6 SX05 MXN05MA4	506	F314_685.6 P63 BXN63MA4	507
2.0	533	2.1	690.1	8500	F414_690.1 SX05 MXN05MA4	510	F414_690.1 P63 BXN63MA4	511
2.2	479	1.3	619.9	6500	F314_619.9 SX05 MXN05MA4	506	F314_619.9 P63 BXN63MA4	507
2.3	456	0.9	589.7	6500	F254_589.7 SX05 MXN05MA4	502	F254_589.7 P63 BXN63MA4	503
2.3	447	1.3	578.6	6500	F314_578.6 SX05 MXN05MA4	506	F314_578.6 P63 BXN63MA4	507
2.5	425	2.6	549.8	8500	F414_549.8 SX05 MXN05MA4	510	F414_549.8 P63 BXN63MA4	511
2.6	408	1.0	527.3	6500	F254_527.3 SX05 MXN05MA4	502	F254_527.3 P63 BXN63MA4	503
2.6	408	1.5	527.8	6500	F314_527.8 SX05 MXN05MA4	506	F314_527.8 P63 BXN63MA4	507
2.9	360	1.1	466.0	6500	F254_466.0 SX05 MXN05MA4	502	F254_466.0 P63 BXN63MA4	503
2.9	358	1.7	462.6	6500	F314_462.6 SX05 MXN05MA4	506	F314_462.6 P63 BXN63MA4	507
3.1	336	1.2	434.9	6500	F254_434.9 SX05 MXN05MA4	502	F254_434.9 P63 BXN63MA4	503
3.1	335	3.3	433.7	8500	F414_433.7 SX05 MXN05MA4	510	F414_433.7 P63 BXN63MA4	511
3.2	324	1.9	418.9	6500	F314_418.9 SX05 MXN05MA4	506	F314_418.9 P63 BXN63MA4	507
3.4	304	1.3	393.9	6500	F254_393.9 SX05 MXN05MA4	502	F254_393.9 P63 BXN63MA4	503
3.6	296	2.0	374.4	6500			F313_374.4 P63 BXN63MA4	507
4.1	263	1.5	333.1	6500	F253_333.1 SX05 MXN05MA4	502	F253_333.1 P63 BXN63MA4	503
4.1	263	2.3	332.8	6500			F313_332.8 P63 BXN63MA4	507
4.3	250	1.0	316.9	4000	F203_316.9 SX05 MXN05MA4	498	F203_316.9 P63 BXN63MA4	499
4.6	232	2.6	293.8	6500			F313_293.8 P63 BXN63MA4	507
4.7	225	1.1	285.2	4000	F203_285.2 SX05 MXN05MA4	498	F203_285.2 P63 BXN63MA4	499

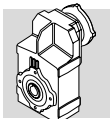


0.12 kW

n2 min-1	M2 Nm	S	i	Rn2 N	IE3	IE3	IE3	IE3
4.7	228	1.8	288.1	6500	F253_288.1 SX05 MXN05MA4	502	F253_288.1 P63 BXN63MA4	503
5.3	202	1.2	255.3	4000	F203_255.3 SX05 MXN05MA4	498	F203_255.3 P63 BXN63MA4	499
5.3	202	2.0	256.1	6500	F253_256.1 SX05 MXN05MA4	502	F253_256.1 P63 BXN63MA4	503
5.3	200	3.0	253.6	6500			F313_253.6 P63 BXN63MA4	507
5.9	180	2.2	227.8	6500	F253_227.8 SX05 MXN05MA4	502	F253_227.8 P63 BXN63MA4	503
5.9	180	3.3	228.2	6500			F313_228.2 P63 BXN63MA4	507
6.5	165	1.5	209.3	4000	F203_209.3 SX05 MXN05MA4	498	F203_209.3 P63 BXN63MA4	499
7.0	153	2.6	193.6	6500	F253_193.6 SX05 MXN05MA4	502	F253_193.6 P63 BXN63MA4	503
7.3	146	1.7	184.9	4000	F203_184.9 SX05 MXN05MA4	498	F203_184.9 P63 BXN63MA4	499
7.7	138	2.9	174.2	6500	F253_174.2 SX05 MXN05MA4	502	F253_174.2 P63 BXN63MA4	503
7.8	136	1.8	172.6	4000	F203_172.6 SX05 MXN05MA4	498	F203_172.6 P63 BXN63MA4	499
8.6	123	2.0	156.3	4000	F203_156.3 SX05 MXN05MA4	498	F203_156.3 P63 BXN63MA4	499
8.7	123	3.2	155.9	6500	F253_155.9 SX05 MXN05MA4	502	F253_155.9 P63 BXN63MA4	503
9.4	113	3.5	143.0	6500	F253_143.0 SX05 MXN05MA4	502	F253_143.0 P63 BXN63MA4	503
10.2	107	2.3	132.2	4000	F202_132.2 SX05 MXN05MA4	498	F202_132.2 P63 BXN63MA4	499
10.6	103	1.4	127.1	2800	F102_127.1 SX05 MXN05MA4	494	F102_127.1 P63 BXN63MA4	495
11.8	92	2.7	114.3	4000	F202_114.3 SX05 MXN05MA4	498	F202_114.3 P63 BXN63MA4	499
12.7	86	1.6	106.0	2800	F102_106.0 SX05 MXN05MA4	494	F102_106.0 P63 BXN63MA4	495
13.3	82	3.0	101.6	4000	F202_101.6 SX05 MXN05MA4	498	F202_101.6 P63 BXN63MA4	499
14.8	74	1.9	91.5	2800	F102_91.5 SX05 MXN05MA4	494		
14.9	73	3.4	90.4	4000	F202_90.4 SX05 MXN05MA4	498		
16.6	66	2.1	81.3	2800	F102_81.3 SX05 MXN05MA4	494		
19.0	57	2.4	71.1	2800	F102_71.1 SX05 MXN05MA4	494	F102_71.1 P63 BXN63MA4	495
21.4	51	2.8	63.0	2800	F102_63.0 SX05 MXN05MA4	494	F102_63.0 P63 BXN63MA4	495
23.8	46	3.1	56.7	2800	F102_56.7 SX05 MXN05MA4	494	F102_56.7 P63 BXN63MA4	495
27.7	39	3.6	48.7	2800	F102_48.7 SX05 MXN05MA4	494	F102_48.7 P63 BXN63MA4	495
30.0	36	3.9	44.7	2800	F102_44.7 SX05 MXN05MA4	494	F102_44.7 P63 BXN63MA4	495
34.0	32	4.4	39.6	2800	F102_39.6 SX05 MXN05MA4	494	F102_39.6 P63 BXN63MA4	495
38.0	29	4.9	35.3	2800	F102_35.3 SX05 MXN05MA4	494	F102_35.3 P63 BXN63MA4	495
41.0	27	5.3	33.0	2800	F102_33.0 SX05 MXN05MA4	494	F102_33.0 P63 BXN63MA4	495
46.0	24	5.9	29.6	2800	F102_29.6 SX05 MXN05MA4	494	F102_29.6 P63 BXN63MA4	495
52.0	21	6.7	25.8	2800	F102_25.8 SX05 MXN05MA4	494	F102_25.8 P63 BXN63MA4	495
59.0	18	7.6	22.8	2700	F102_22.8 SX05 MXN05MA4	494	F102_22.8 P63 BXN63MA4	495
70.0	16	8.7	19.3	2560	F102_19.3 SX05 MXN05MA4	494	F102_19.3 P63 BXN63MA4	495
80.0	14	9.3	17.0	2450	F102_17.0 SX05 MXN05MA4	494	F102_17.0 P63 BXN63MA4	495
92.0	12	10.1	14.6	2340	F102_14.6 SX05 MXN05MA4	494	F102_14.6 P63 BXN63MA4	495
104.0	11	9.9	13.0	2250	F102_13.0 SX05 MXN05MA4	494	F102_13.0 P63 BXN63MA4	495
117.0	9	10.3	11.5	2160	F102_11.5 SX05 MXN05MA4	494	F102_11.5 P63 BXN63MA4	495
138.0	8	11.3	9.8	2050	F102_9.8 SX05 MXN05MA4	494	F102_9.8 P63 BXN63MA4	495
157.0	7	11.8	8.6	1970	F102_8.6 SX05 MXN05MA4	494	F102_8.6 P63 BXN63MA4	495
182.0	6	12.7	7.4	1870	F102_7.4 SX05 MXN05MA4	494	F102_7.4 P63 BXN63MA4	495

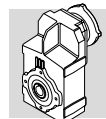
0.18 kW

n2	M2	S	i	Rn2				IEC		
min-1	Nm			N	IE2	IE3		IE2	IE3	
1.3	1165	0.9	982.4	8500	F414_982.4 S05 ME05B4	F414_982.4 S05 MX05B4	510	F414_982.4 P63 BE63B4	F414_982.4 P63 BX63B4	511
1.5	1068	1.0	900.5	8500	F414_900.5 S05 ME05B4	F414_900.5 S05 MX05B4	510	F414_900.5 P63 BE63B4	F414_900.5 P63 BX63B4	511
1.6	965	1.1	813.8	8500	F414_813.8 S05 ME05B4	F414_813.8 S05 MX05B4	510	F414_813.8 P63 BE63B4	F414_813.8 P63 BX63B4	511
1.8	877	1.3	739.4	8500	F414_739.4 S05 ME05B4	F414_739.4 S05 MX05B4	510	F414_739.4 P63 BE63B4	F414_739.4 P63 BX63B4	511
1.9	818	1.3	690.1	8500	F414_690.1 S05 ME05B4	F414_690.1 S05 MX05B4	510	F414_690.1 P63 BE63B4	F414_690.1 P63 BX63B4	511
2.3	686	0.9	578.6	6500	F314_578.6 S05 ME05B4	F314_578.6 S05 MX05B4	506	F314_578.6 P63 BE63B4	F314_578.6 P63 BX63B4	507
2.4	652	1.7	549.8	8500	F414_549.8 S05 ME05B4	F414_549.8 S05 MX05B4	510	F414_549.8 P63 BE63B4	F414_549.8 P63 BX63B4	511
2.5	626	1.0	527.8	6500	F314_527.8 S05 ME05B4	F314_527.8 S05 MX05B4	506	F314_527.8 P63 BE63B4	F314_527.8 P63 BX63B4	507



0.18 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IE2	IE3
2.9	549	1.1	462.6	6500	F314_462.6 S05 ME05B4	F314_462.6 S05 MX05B4	F314_462.6 P63 BE63B4	F314_462.6 P63 BX63B4
3.0	514	2.1	433.7	8500	F414_433.7 S05 ME05B4	F414_433.7 S05 MX05B4	F414_433.7 P63 BE63B4	F414_433.7 P63 BX63B4
3.2	497	1.2	418.9	6500	F314_418.9 S05 ME05B4	F314_418.9 S05 MX05B4	F314_418.9 P63 BE63B4	F314_418.9 P63 BX63B4
3.4	467	0.9	393.9	6500	F254_393.9 S05 ME05B4	F254_393.9 S05 MX05B4	F254_393.9 P63 BE63B4	F254_393.9 P63 BX63B4
3.5	454	1.3	374.4	6500			F313_374.4 P63 BE63B4	F313_374.4 P63 BX63B4
3.8	418	2.6	344.8	8500			F413_344.8 P63 BE63B4	F413_344.8 P63 BX63B4
4.0	404	1.0	333.1	6500	F253_333.1 S05 ME05B4	F253_333.1 S05 MX05B4	F253_333.1 P63 BE63B4	F253_333.1 P63 BX63B4
4.0	403	1.5	332.8	6500			F313_332.8 P63 BE63B4	F313_332.8 P63 BX63B4
4.5	356	1.7	293.8	6500			F313_293.8 P63 BE63B4	F313_293.8 P63 BX63B4
4.5	359	3.1	296.6	8500			F413_296.6 P63 BE63B4	F413_296.6 P63 BX63B4
4.6	349	1.1	288.1	6500	F253_288.1 S05 ME05B4	F253_288.1 S05 MX05B4	F253_288.1 P63 BE63B4	F253_288.1 P63 BX63B4
4.9	323	3.4	266.9	8500			F413_266.9 P63 BE63B4	F413_266.9 P63 BX63B4
5.2	310	1.3	256.1	6500	F253_256.1 S05 ME05B4	F253_256.1 S05 MX05B4	F253_256.1 P63 BE63B4	F253_256.1 P63 BX63B4
5.2	307	2.0	253.6	6500			F313_253.6 P63 BE63B4	F313_253.6 P63 BX63B4
5.8	276	1.4	227.8	6500	F253_227.8 S05 ME05B4	F253_227.8 S05 MX05B4	F253_227.8 P63 BE63B4	F253_227.8 P63 BX63B4
5.8	277	2.2	228.2	6500			F313_228.2 P63 BE63B4	F313_228.2 P63 BX63B4
6.3	254	1.0	209.3	4000	F203_209.3 S05 ME05B4	F203_209.3 S05 MX05B4	F203_209.3 P63 BE63B4	F203_209.3 P63 BX63B4
6.5	245	2.4	202.3	6500			F313_202.3 P63 BE63B4	F313_202.3 P63 BX63B4
6.8	235	1.7	193.6	6500	F253_193.6 S05 ME05B4	F253_193.6 S05 MX05B4	F253_193.6 P63 BE63B4	F253_193.6 P63 BX63B4
7.1	224	1.1	184.9	4000	F203_184.9 S05 ME05B4	F203_184.9 S05 MX05B4	F203_184.9 P63 BE63B4	F203_184.9 P63 BX63B4
7.1	225	2.7	185.4	6500			F313_185.4 P63 BE63B4	F313_185.4 P63 BX63B4
7.6	209	1.2	172.6	4000	F203_172.6 S05 ME05B4	F203_172.6 S05 MX05B4	F203_172.6 P63 BE63B4	F203_172.6 P63 BX63B4
7.6	211	1.9	174.2	6500	F253_174.2 S05 ME05B4	F253_174.2 S05 MX05B4	F253_174.2 P63 BE63B4	F253_174.2 P63 BX63B4
7.9	202	3.0	166.8	6500			F313_166.8 P63 BE63B4	F313_166.8 P63 BX63B4
8.4	189	1.3	156.3	4000	F203_156.3 S05 ME05B4	F203_156.3 S05 MX05B4	F203_156.3 P63 BE63B4	F203_156.3 P63 BX63B4
8.5	189	2.1	155.9	6500	F253_155.9 S05 ME05B4	F253_155.9 S05 MX05B4	F253_155.9 P63 BE63B4	F253_155.9 P63 BX63B4
8.8	183	3.3	150.8	6500			F313_150.8 P63 BE63B4	F313_150.8 P63 BX63B4
9.2	173	2.3	143.0	6500	F253_143.0 S05 ME05B4	F253_143.0 S05 MX05B4	F253_143.0 P63 BE63B4	F253_143.0 P63 BX63B4
9.4	171	3.5	140.7	6500			F313_140.7 P63 BE63B4	F313_140.7 P63 BX63B4
10.0	164	1.5	132.2	4000	F202_132.2 S05 ME05B4	F202_132.2 S05 MX05B4	F202_132.2 P63 BE63B4	F202_132.2 P63 BX63B4
10.3	155	2.6	127.8	6500	F253_127.8 S05 ME05B4	F253_127.8 S05 MX05B4	F253_127.8 P63 BE63B4	F253_127.8 P63 BX63B4
10.4	157	0.9	127.1	2800	F102_127.1 S05 ME05B4	F102_127.1 S05 MX05B4	F102_127.1 P63 BE63B4	F102_127.1 P63 BX63B4
11.5	142	1.8	114.3	4000	F202_114.3 S05 ME05B4	F202_114.3 S05 MX05B4	F202_114.3 P63 BE63B4	F202_114.3 P63 BX63B4
11.7	137	2.9	113.0	6500	F253_113.0 S05 ME05B4	F253_113.0 S05 MX05B4	F253_113.0 P63 BE63B4	F253_113.0 P63 BX63B4
12.5	131	1.1	106.0	2800	F102_106.0 S05 ME05B4	F102_106.0 S05 MX05B4	F102_106.0 P63 BE63B4	F102_106.0 P63 BX63B4
12.5	128	3.1	105.4	6500	F253_105.4 S05 ME05B4	F253_105.4 S05 MX05B4	F253_105.4 P63 BE63B4	F253_105.4 P63 BX63B4
13.0	126	2.0	101.6	4000	F202_101.6 S05 ME05B4	F202_101.6 S05 MX05B4	F202_101.6 P63 BE63B4	F202_101.6 P63 BX63B4
13.8	116	3.5	95.5	6500	F253_95.5 S05 ME05B4	F253_95.5 S05 MX05B4	F253_95.5 P63 BE63B4	F253_95.5 P63 BX63B4
14.4	113	1.2	91.5	2800	F102_91.5 S05 ME05B4	F102_91.5 S05 MX05B4	F102_91.5 P63 BE63B4	F102_91.5 P63 BX63B4
14.6	112	2.2	90.4	4000	F202_90.4 S05 ME05B4	F202_90.4 S05 MX05B4	F202_90.4 P63 BE63B4	F202_90.4 P63 BX63B4
16.2	101	1.4	81.3	2800	F102_81.3 S05 ME05B4	F102_81.3 S05 MX05B4	F102_81.3 P63 BE63B4	F102_81.3 P63 BX63B4
17.2	95	2.6	76.8	4000	F202_76.8 S05 ME05B4	F202_76.8 S05 MX05B4	F202_76.8 P63 BE63B4	F202_76.8 P63 BX63B4
18.6	88	1.6	71.1	2800	F102_71.1 S05 ME05B4	F102_71.1 S05 MX05B4	F102_71.1 P63 BE63B4	F102_71.1 P63 BX63B4
19.1	86	2.9	69.1	4000	F202_69.1 S05 ME05B4	F202_69.1 S05 MX05B4	F202_69.1 P63 BE63B4	F202_69.1 P63 BX63B4
21.0	78	1.8	63.0	2800	F102_63.0 S05 ME05B4	F102_63.0 S05 MX05B4	F102_63.0 P63 BE63B4	F102_63.0 P63 BX63B4
21.3	77	3.3	61.9	4000	F202_61.9 S05 ME05B4	F202_61.9 S05 MX05B4	F202_61.9 P63 BE63B4	F202_61.9 P63 BX63B4
23.3	70	2.0	56.7	2800	F102_56.7 S05 ME05B4	F102_56.7 S05 MX05B4	F102_56.7 P63 BE63B4	F102_56.7 P63 BX63B4
27.1	60	2.3	48.7	2800	F102_48.7 S05 ME05B4	F102_48.7 S05 MX05B4	F102_48.7 P63 BE63B4	F102_48.7 P63 BX63B4
29.6	55	2.5	44.7	2800	F102_44.7 S05 ME05B4	F102_44.7 S05 MX05B4	F102_44.7 P63 BE63B4	F102_44.7 P63 BX63B4
33.0	49	2.9	39.6	2800	F102_39.6 S05 ME05B4	F102_39.6 S05 MX05B4	F102_39.6 P63 BE63B4	F102_39.6 P63 BX63B4
37.0	44	3.2	35.3	2800	F102_35.3 S05 ME05B4	F102_35.3 S05 MX05B4	F102_35.3 P63 BE63B4	F102_35.3 P63 BX63B4
40.0	41	3.4	33.0	2800	F102_33.0 S05 ME05B4	F102_33.0 S05 MX05B4	F102_33.0 P63 BE63B4	F102_33.0 P63 BX63B4
45.0	37	3.8	29.6	2800	F102_29.6 S05 ME05B4	F102_29.6 S05 MX05B4	F102_29.6 P63 BE63B4	F102_29.6 P63 BX63B4
51.0	32	4.4	25.8	2780	F102_25.8 S05 ME05B4	F102_25.8 S05 MX05B4	F102_25.8 P63 BE63B4	F102_25.8 P63 BX63B4
58.0	28	5.0	22.8	2680	F102_22.8 S05 ME05B4	F102_22.8 S05 MX05B4	F102_22.8 P63 BE63B4	F102_22.8 P63 BX63B4
68.0	24	5.7	19.3	2540	F102_19.3 S05 ME05B4	F102_19.3 S05 MX05B4	F102_19.3 P63 BE63B4	F102_19.3 P63 BX63B4
78.0	21	6.1	17.0	2440	F102_17.0 S05 ME05B4	F102_17.0 S05 MX05B4	F102_17.0 P63 BE63B4	F102_17.0 P63 BX63B4

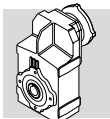


0.18 kW

n ₂	M ₂	S	i	R _{n2}						
min ⁻¹	Nm			N	IE2	IE3		IE2	IE3	
90.0	18	6.6	14.6	2330	F102_14.6 S05 ME05B4	F102_14.6 S05 MX05B4	494	F102_14.6 P63 BE63B4	F102_14.6 P63 BX63B4	495
101.0	16	6.4	13.0	2240	F102_13.0 S05 ME05B4	F102_13.0 S05 MX05B4	494	F102_13.0 P63 BE63B4	F102_13.0 P63 BX63B4	495
114.0	14	6.7	11.5	2150	F102_11.5 S05 ME05B4	F102_11.5 S05 MX05B4	494	F102_11.5 P63 BE63B4	F102_11.5 P63 BX63B4	495
135.0	12	7.4	9.8	2040	F102_9.8 S05 ME05B4	F102_9.8 S05 MX05B4	494	F102_9.8 P63 BE63B4	F102_9.8 P63 BX63B4	495
154.0	11	7.7	8.6	1960	F102_8.6 S05 ME05B4	F102_8.6 S05 MX05B4	494	F102_8.6 P63 BE63B4	F102_8.6 P63 BX63B4	495
178.0	9	8.3	7.4	1870	F102_7.4 S05 ME05B4	F102_7.4 S05 MX05B4	494	F102_7.4 P63 BE63B4	F102_7.4 P63 BX63B4	495

0.18 kW

n2 min-1	M2 Nm	S	i	Rn2 N	IE3		IEC IE3	
1.3	1165	0.9	982.4	8500	F414_982.4 SX05 MXN05MB4	510	F414_982.4 P63 BXN63MB4	511
1.5	1068	1.0	900.5	8500	F414_900.5 SX05 MXN05MB4	510	F414_900.5 P63 BXN63MB4	511
1.6	965	1.1	813.8	8500	F414_813.8 SX05 MXN05MB4	510	F414_813.8 P63 BXN63MB4	511
1.8	877	1.3	739.4	8500	F414_739.4 SX05 MXN05MB4	510	F414_739.4 P63 BXN63MB4	511
1.9	818	1.3	690.1	8500	F414_690.1 SX05 MXN05MB4	510	F414_690.1 P63 BXN63MB4	511
2.3	686	0.9	578.6	6500	F314_578.6 SX05 MXN05MB4	506	F314_578.6 P63 BXN63MB4	507
2.4	652	1.7	549.8	8500	F414_549.8 SX05 MXN05MB4	510	F414_549.8 P63 BXN63MB4	511
2.5	626	1.0	527.8	6500	F314_527.8 SX05 MXN05MB4	506	F314_527.8 P63 BXN63MB4	507
2.9	549	1.1	462.6	6500	F314_462.6 SX05 MXN05MB4	506	F314_462.6 P63 BXN63MB4	507
3.0	514	2.1	433.7	8500	F414_433.7 SX05 MXN05MB4	510	F414_433.7 P63 BXN63MB4	511
3.2	497	1.2	418.9	6500	F314_418.9 SX05 MXN05MB4	506	F314_418.9 P63 BXN63MB4	507
3.4	467	0.9	393.9	6500	F254_393.9 SX05 MXN05MB4	502	F254_393.9 P63 BXN63MB4	503
3.5	454	1.3	374.4	6500			F313_374.4 P63 BXN63MB4	507
3.8	418	2.6	344.8	8500			F413_344.8 P63 BXN63MB4	511
4.0	404	1.0	333.1	6500	F253_333.1 SX05 MXN05MB4	502	F253_333.1 P63 BXN63MB4	503
4.0	403	1.5	332.8	6500			F313_332.8 P63 BXN63MB4	507
4.5	356	1.7	293.8	6500			F313_293.8 P63 BXN63MB4	507
4.5	359	3.1	296.6	8500			F413_296.6 P63 BXN63MB4	511
4.6	349	1.1	288.1	6500	F253_288.1 SX05 MXN05MB4	502	F253_288.1 P63 BXN63MB4	503
4.9	323	3.4	266.9	8500			F413_266.9 P63 BXN63MB4	511
5.2	310	1.3	256.1	6500	F253_256.1 SX05 MXN05MB4	502	F253_256.1 P63 BXN63MB4	503
5.2	307	2.0	253.6	6500			F313_253.6 P63 BXN63MB4	507
5.8	276	1.4	227.8	6500	F253_227.8 SX05 MXN05MB4	502	F253_227.8 P63 BXN63MB4	503
5.8	277	2.2	228.2	6500			F313_228.2 P63 BXN63MB4	507
6.3	254	1.0	209.3	4000	F203_209.3 SX05 MXN05MB4	498	F203_209.3 P63 BXN63MB4	499
6.5	245	2.4	202.3	6500			F313_202.3 P63 BXN63MB4	507
6.8	235	1.7	193.6	6500	F253_193.6 SX05 MXN05MB4	502	F253_193.6 P63 BXN63MB4	503
7.1	224	1.1	184.9	4000	F203_184.9 SX05 MXN05MB4	498	F203_184.9 P63 BXN63MB4	499
7.1	225	2.7	185.4	6500			F313_185.4 P63 BXN63MB4	507
7.6	209	1.2	172.6	4000	F203_172.6 SX05 MXN05MB4	498	F203_172.6 P63 BXN63MB4	499
7.6	211	1.9	174.2	6500	F253_174.2 SX05 MXN05MB4	502	F253_174.2 P63 BXN63MB4	503
7.9	202	3.0	166.8	6500			F313_166.8 P63 BXN63MB4	507
8.4	189	1.3	156.3	4000	F203_156.3 SX05 MXN05MB4	498	F203_156.3 P63 BXN63MB4	499
8.5	189	2.1	155.9	6500	F253_155.9 SX05 MXN05MB4	502	F253_155.9 P63 BXN63MB4	503
8.8	183	3.3	150.8	6500			F313_150.8 P63 BXN63MB4	507
9.2	173	2.3	143.0	6500	F253_143.0 SX05 MXN05MB4	502	F253_143.0 P63 BXN63MB4	503
9.4	171	3.5	140.7	6500			F313_140.7 P63 BXN63MB4	507
10.0	164	1.5	132.2	4000	F202_132.2 SX05 MXN05MB4	498	F202_132.2 P63 BXN63MB4	499
10.3	155	2.6	127.8	6500	F253_127.8 SX05 MXN05MB4	502	F253_127.8 P63 BXN63MB4	503
10.4	157	0.9	127.1	2800	F102_127.1 SX05 MXN05MB4	494	F102_127.1 P63 BXN63MB4	495
11.5	142	1.8	114.3	4000	F202_114.3 SX05 MXN05MB4	498	F202_114.3 P63 BXN63MB4	499
11.7	137	2.9	113.0	6500	F253_113.0 SX05 MXN05MB4	502	F253_113.0 P63 BXN63MB4	503
12.5	131	1.1	106.0	2800	F102_106.0 SX05 MXN05MB4	494	F102_106.0 P63 BXN63MB4	495

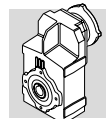


0.18 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
12.5	128	3.1	105.4	6500	F253_105.4 SX05 MXN05MB4	502 F253_105.4 P63 BXN63MB4
13.0	126	2.0	101.6	4000	F202_101.6 SX05 MXN05MB4	498 F202_101.6 P63 BXN63MB4
13.8	116	3.5	95.5	6500	F253_95.5 SX05 MXN05MB4	502 F253_95.5 P63 BXN63MB4
14.4	113	1.2	91.5	2800	F102_91.5 SX05 MXN05MB4	494 F102_91.5 P63 BXN63MB4
14.6	112	2.2	90.4	4000	F202_90.4 SX05 MXN05MB4	498 F202_90.4 P63 BXN63MB4
16.2	101	1.4	81.3	2800	F102_81.3 SX05 MXN05MB4	494 F102_81.3 P63 BXN63MB4
17.2	95	2.6	76.8	4000	F202_76.8 SX05 MXN05MB4	498 F202_76.8 P63 BXN63MB4
18.6	88	1.6	71.1	2800	F102_71.1 SX05 MXN05MB4	494 F102_71.1 P63 BXN63MB4
19.1	86	2.9	69.1	4000	F202_69.1 SX05 MXN05MB4	498 F202_69.1 P63 BXN63MB4
21.0	78	1.8	63.0	2800	F102_63.0 SX05 MXN05MB4	494 F102_63.0 P63 BXN63MB4
21.3	77	3.3	61.9	4000	F202_61.9 SX05 MXN05MB4	498 F202_61.9 P63 BXN63MB4
23.3	70	2.0	56.7	2800	F102_56.7 SX05 MXN05MB4	494 F102_56.7 P63 BXN63MB4
27.1	60	2.3	48.7	2800	F102_48.7 SX05 MXN05MB4	494 F102_48.7 P63 BXN63MB4
29.6	55	2.5	44.7	2800	F102_44.7 SX05 MXN05MB4	494 F102_44.7 P63 BXN63MB4
33.0	49	2.9	39.6	2800	F102_39.6 SX05 MXN05MB4	494 F102_39.6 P63 BXN63MB4
37.0	44	3.2	35.3	2800	F102_35.3 SX05 MXN05MB4	494 F102_35.3 P63 BXN63MB4
40.0	41	3.4	33.0	2800	F102_33.0 SX05 MXN05MB4	494 F102_33.0 P63 BXN63MB4
45.0	37	3.8	29.6	2800	F102_29.6 SX05 MXN05MB4	494 F102_29.6 P63 BXN63MB4
51.0	32	4.4	25.8	2780	F102_25.8 SX05 MXN05MB4	494 F102_25.8 P63 BXN63MB4
58.0	28	5.0	22.8	2680	F102_22.8 SX05 MXN05MB4	494 F102_22.8 P63 BXN63MB4
68.0	24	5.7	19.3	2540	F102_19.3 SX05 MXN05MB4	494 F102_19.3 P63 BXN63MB4
78.0	21	6.1	17.0	2440	F102_17.0 SX05 MXN05MB4	494 F102_17.0 P63 BXN63MB4
90.0	18	6.6	14.6	2330	F102_14.6 SX05 MXN05MB4	494 F102_14.6 P63 BXN63MB4
101.0	16	6.4	13.0	2240	F102_13.0 SX05 MXN05MB4	494 F102_13.0 P63 BXN63MB4
114.0	14	6.7	11.5	2150	F102_11.5 SX05 MXN05MB4	494 F102_11.5 P63 BXN63MB4
135.0	12	7.4	9.8	2040	F102_9.8 SX05 MXN05MB4	494 F102_9.8 P63 BXN63MB4
154.0	11	7.7	8.6	1960	F102_8.6 SX05 MXN05MB4	494 F102_8.6 P63 BXN63MB4
178.0	9	8.3	7.4	1870	F102_7.4 SX05 MXN05MB4	494 F102_7.4 P63 BXN63MB4

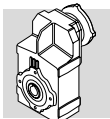
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n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC IE2	IE3
1.7	1282	0.9	813.8	8500	F414_813.8 S1 ME1SA4	F414_813.8 S1 MX1SA4	510 F414_813.8 P71 BE71A4	F414_813.8 P71 BX71A4
1.8	1199	0.9	739.4	8500	F414_739.4 S1 ME1SA4	F414_739.4 S1 MX1SA4	510 F414_739.4 P71 BE71A4	F414_739.4 P71 BX71A4
1.9	1119	1.0	690.1	8500	F414_690.1 S1 ME1SA4	F414_690.1 S1 MX1SA4	510 F414_690.1 P71 BE71A4	F414_690.1 P71 BX71A4
2.4	892	1.2	549.8	8500	F414_549.8 S1 ME1SA4	F414_549.8 S1 MX1SA4	510 F414_549.8 P71 BE71A4	F414_549.8 P71 BX71A4
3.1	704	1.6	433.7	8500	F414_433.7 S1 ME1SA4	F414_433.7 S1 MX1SA4	510 F414_433.7 P71 BE71A4	F414_433.7 P71 BX71A4
3.2	679	0.9	418.9	6500	F314_418.9 S1 ME1SA4	F314_418.9 S1 MX1SA4	506 F314_418.9 P71 BE71A4	F314_418.9 P71 BX71A4
3.7	603	1.0	374.4	6500	F313_374.4 S1 ME1SA4	F313_374.4 S1 MX1SA4	506 F313_374.4 P71 BE71A4	F313_374.4 P71 BX71A4
4.0	555	2.0	344.8	8500			F413_344.8 P71 BE71A4	F413_344.8 P71 BX71A4
4.1	536	1.1	332.8	6500	F313_332.8 S1 ME1SA4	F313_332.8 S1 MX1SA4	506 F313_332.8 P71 BE71A4	F313_332.8 P71 BX71A4
4.7	473	1.3	293.8	6500	F313_293.8 S1 ME1SA4	F313_293.8 S1 MX1SA4	506 F313_293.8 P71 BE71A4	F313_293.8 P71 BX71A4
4.7	477	2.3	296.6	8500			F413_296.6 P71 BE71A4	F413_296.6 P71 BX71A4
5.2	425	0.9	256.1	6500	F253_256.1 S1 ME1SA4	F253_256.1 S1 MX1SA4	502 F253_256.1 P71 BE71A4	F253_256.1 P71 BX71A4
5.2	430	2.6	266.9	8500			F413_266.9 P71 BE71A4	F413_266.9 P71 BX71A4
5.4	408	1.5	253.6	6500	F313_253.6 S1 ME1SA4	F313_253.6 S1 MX1SA4	506 F313_253.6 P71 BE71A4	F313_253.6 P71 BX71A4
5.7	387	2.8	240.1	8500			F413_240.1 P71 BE71A4	F413_240.1 P71 BX71A4
5.9	378	1.1	227.8	6500	F253_227.8 S1 ME1SA4	F253_227.8 S1 MX1SA4	502 F253_227.8 P71 BE71A4	F253_227.8 P71 BX71A4
6.0	367	1.6	228.2	6500	F313_228.2 S1 ME1SA4	F313_228.2 S1 MX1SA4	506 F313_228.2 P71 BE71A4	F313_228.2 P71 BX71A4
6.3	354	3.1	220.1	8500			F413_220.1 P71 BE71A4	F413_220.1 P71 BX71A4
6.8	326	1.8	202.3	6500	F313_202.3 S1 ME1SA4	F313_202.3 S1 MX1SA4	506 F313_202.3 P71 BE71A4	F313_202.3 P71 BX71A4
6.9	321	1.2	193.6	6500	F253_193.6 S1 ME1SA4	F253_193.6 S1 MX1SA4	502 F253_193.6 P71 BE71A4	F253_193.6 P71 BX71A4
6.9	320	3.4	198.9	8500			F413_198.9 P71 BE71A4	F413_198.9 P71 BX71A4



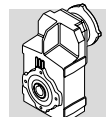
0.25 kW

n ₂	M ₂	S	i	R _{n2}				IEC		
min ⁻¹	Nm			N	IE2	IE3		IE2	IE3	
7.4	299	2.0	185.4	6500	F313_185.4 S1 ME1SA4	F313_185.4 S1 MX1SA4	506	F313_185.4 P71 BE71A4	F313_185.4 P71 BX71A4	507
7.7	289	1.4	174.2	6500	F253_174.2 S1 ME1SA4	F253_174.2 S1 MX1SA4	502	F253_174.2 P71 BE71A4	F253_174.2 P71 BX71A4	503
8.0	278	0.9	172.6	4000	F203_172.6 S1 ME1SA4	F203_172.6 S1 MX1SA4	498	F203_172.6 P71 BE71A4	F203_172.6 P71 BX71A4	499
8.3	268	2.2	166.8	6500	F313_166.8 S1 ME1SA4	F313_166.8 S1 MX1SA4	506	F313_166.8 P71 BE71A4	F313_166.8 P71 BX71A4	507
8.6	259	1.0	156.3	4000	F203_156.3 S1 ME1SA4	F203_156.3 S1 MX1SA4	498	F203_156.3 P71 BE71A4	F203_156.3 P71 BX71A4	499
8.6	259	1.5	155.9	6500	F253_155.9 S1 ME1SA4	F253_155.9 S1 MX1SA4	502	F253_155.9 P71 BE71A4	F253_155.9 P71 BX71A4	503
9.2	243	2.5	150.8	6500	F313_150.8 S1 ME1SA4	F313_150.8 S1 MX1SA4	506	F313_150.8 P71 BE71A4	F313_150.8 P71 BX71A4	507
9.7	230	1.7	143.0	6500	F253_143.0 S1 ME1SA4	F253_143.0 S1 MX1SA4	502	F253_143.0 P71 BE71A4	F253_143.0 P71 BX71A4	503
9.8	227	2.6	140.7	6500	F313_140.7 S1 ME1SA4	F313_140.7 S1 MX1SA4	506	F313_140.7 P71 BE71A4	F313_140.7 P71 BX71A4	507
10.1	224	1.1	132.2	4000	F202_132.2 S1 ME1SA4	F202_132.2 S1 MX1SA4	498	F202_132.2 P71 BE71A4	F202_132.2 P71 BX71A4	499
10.5	212	1.9	127.8	6500	F253_127.8 S1 ME1SA4	F253_127.8 S1 MX1SA4	502	F253_127.8 P71 BE71A4	F253_127.8 P71 BX71A4	503
10.7	207	2.9	128.4	6500	F313_128.4 S1 ME1SA4	F313_128.4 S1 MX1SA4	506	F313_128.4 P71 BE71A4	F313_128.4 P71 BX71A4	507
11.7	194	1.3	114.3	4000	F202_114.3 S1 ME1SA4	F202_114.3 S1 MX1SA4	498	F202_114.3 P71 BE71A4	F202_114.3 P71 BX71A4	499
12.2	182	2.2	113.0	6500	F253_113.0 S1 ME1SA4	F253_113.0 S1 MX1SA4	502	F253_113.0 P71 BE71A4	F253_113.0 P71 BX71A4	503
12.3	181	3.3	112.5	6500	F313_112.5 S1 ME1SA4	F313_112.5 S1 MX1SA4	506	F313_112.5 P71 BE71A4	F313_112.5 P71 BX71A4	507
12.7	175	2.3	105.4	6500	F253_105.4 S1 ME1SA4	F253_105.4 S1 MX1SA4	502	F253_105.4 P71 BE71A4	F253_105.4 P71 BX71A4	503
13.2	172	1.5	101.6	4000	F202_101.6 S1 ME1SA4	F202_101.6 S1 MX1SA4	498	F202_101.6 P71 BE71A4	F202_101.6 P71 BX71A4	499
14.0	158	2.5	95.5	6500	F253_95.5 S1 ME1SA4	F253_95.5 S1 MX1SA4	502	F253_95.5 P71 BE71A4	F253_95.5 P71 BX71A4	503
14.6	155	0.9	91.5	2800	F102_91.5 S1 ME1SA4	F102_91.5 S1 MX1SA4	494	F102_91.5 P71 BE71A4	F102_91.5 P71 BX71A4	495
14.8	153	1.6	90.4	4000	F202_90.4 S1 ME1SA4	F202_90.4 S1 MX1SA4	498	F202_90.4 P71 BE71A4	F202_90.4 P71 BX71A4	499
16.1	138	2.9	83.4	6500	F253_83.4 S1 ME1SA4	F253_83.4 S1 MX1SA4	502	F253_83.4 P71 BE71A4	F253_83.4 P71 BX71A4	503
16.5	138	1.0	81.3	2800	F102_81.3 S1 ME1SA4	F102_81.3 S1 MX1SA4	494	F102_81.3 P71 BE71A4	F102_81.3 P71 BX71A4	495
17.4	130	1.9	76.8	4000	F202_76.8 S1 ME1SA4	F202_76.8 S1 MX1SA4	498	F202_76.8 P71 BE71A4	F202_76.8 P71 BX71A4	499
17.5	127	3.2	76.6	6420	F253_76.6 S1 ME1SA4	F253_76.6 S1 MX1SA4	502	F253_76.6 P71 BE71A4	F253_76.6 P71 BX71A4	503
18.8	120	1.2	71.1	2800	F102_71.1 S1 ME1SA4	F102_71.1 S1 MX1SA4	494	F102_71.1 P71 BE71A4	F102_71.1 P71 BX71A4	495
19.4	117	2.1	69.1	4000	F202_69.1 S1 ME1SA4	F202_69.1 S1 MX1SA4	498	F202_69.1 P71 BE71A4	F202_69.1 P71 BX71A4	499
21.3	107	1.3	63.0	2800	F102_63.0 S1 ME1SA4	F102_63.0 S1 MX1SA4	494	F102_63.0 P71 BE71A4	F102_63.0 P71 BX71A4	495
21.7	105	2.4	61.9	4000	F202_61.9 S1 ME1SA4	F202_61.9 S1 MX1SA4	498	F202_61.9 P71 BE71A4	F202_61.9 P71 BX71A4	499
23.6	96	1.5	56.7	2800	F102_56.7 S1 ME1SA4	F102_56.7 S1 MX1SA4	494	F102_56.7 P71 BE71A4	F102_56.7 P71 BX71A4	495
23.6	96	2.6	56.7	4000	F202_56.7 S1 ME1SA4	F202_56.7 S1 MX1SA4	498	F202_56.7 P71 BE71A4	F202_56.7 P71 BX71A4	499
26.4	86	2.9	50.7	4000	F202_50.7 S1 ME1SA4	F202_50.7 S1 MX1SA4	498	F202_50.7 P71 BE71A4	F202_50.7 P71 BX71A4	499
27.5	83	1.7	48.7	2800	F102_48.7 S1 ME1SA4	F102_48.7 S1 MX1SA4	494	F102_48.7 P71 BE71A4	F102_48.7 P71 BX71A4	495
29.9	76	3.3	44.8	3870	F202_44.8 S1 ME1SA4	F202_44.8 S1 MX1SA4	498	F202_44.8 P71 BE71A4	F202_44.8 P71 BX71A4	499
30.0	76	1.9	44.7	2800	F102_44.7 S1 ME1SA4	F102_44.7 S1 MX1SA4	494	F102_44.7 P71 BE71A4	F102_44.7 P71 BX71A4	495
34.0	67	2.1	39.6	2800	F102_39.6 S1 ME1SA4	F102_39.6 S1 MX1SA4	494	F102_39.6 P71 BE71A4	F102_39.6 P71 BX71A4	495
38.0	60	2.3	35.3	2800	F102_35.3 S1 ME1SA4	F102_35.3 S1 MX1SA4	494	F102_35.3 P71 BE71A4	F102_35.3 P71 BX71A4	495
41.0	56	2.5	33.0	2800	F102_33.0 S1 ME1SA4	F102_33.0 S1 MX1SA4	494	F102_33.0 P71 BE71A4	F102_33.0 P71 BX71A4	495
45.0	50	2.8	29.6	2800	F102_29.6 S1 ME1SA4	F102_29.6 S1 MX1SA4	494	F102_29.6 P71 BE71A4	F102_29.6 P71 BX71A4	495
52.0	44	3.2	25.8	2750	F102_25.8 S1 ME1SA4	F102_25.8 S1 MX1SA4	494	F102_25.8 P71 BE71A4	F102_25.8 P71 BX71A4	495
59.0	39	3.6	22.8	2650	F102_22.8 S1 ME1SA4	F102_22.8 S1 MX1SA4	494	F102_22.8 P71 BE71A4	F102_22.8 P71 BX71A4	495
69.0	33	4.2	19.3	2520	F102_19.3 S1 ME1SA4	F102_19.3 S1 MX1SA4	494	F102_19.3 P71 BE71A4	F102_19.3 P71 BX71A4	495
81.0	28	4.6	17.0	2420	F102_17.0 S1 ME1SA4	F102_17.0 S1 MX1SA4	494	F102_17.0 P71 BE71A4	F102_17.0 P71 BX71A4	495
91.0	25	4.8	14.6	2310	F102_14.6 S1 ME1SA4	F102_14.6 S1 MX1SA4	494	F102_14.6 P71 BE71A4	F102_14.6 P71 BX71A4	495
103.0	22	4.7	13.0	2230	F102_13.0 S1 ME1SA4	F102_13.0 S1 MX1SA4	494	F102_13.0 P71 BE71A4	F102_13.0 P71 BX71A4	495
120.0	19	5.1	11.5	2140	F102_11.5 S1 ME1SA4	F102_11.5 S1 MX1SA4	494	F102_11.5 P71 BE71A4	F102_11.5 P71 BX71A4	495
137.0	17	5.4	9.8	2030	F102_9.8 S1 ME1SA4	F102_9.8 S1 MX1SA4	494	F102_9.8 P71 BE71A4	F102_9.8 P71 BX71A4	495
161.0	14	5.8	8.6	1950	F102_8.6 S1 ME1SA4	F102_8.6 S1 MX1SA4	494	F102_8.6 P71 BE71A4	F102_8.6 P71 BX71A4	495
181.0	13	6.1	7.4	1860	F102_7.4 S1 ME1SA4	F102_7.4 S1 MX1SA4	494	F102_7.4 P71 BE71A4	F102_7.4 P71 BX71A4	495



0.25 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
1.7	1282	0.9	813.8	8500	F414_813.8 SX10 MXN10MA4	511
1.8	1199	0.9	739.4	8500	F414_739.4 SX10 MXN10MA4	511
1.9	1119	1.0	690.1	8500	F414_690.1 SX10 MXN10MA4	511
2.4	892	1.2	549.8	8500	F414_549.8 SX10 MXN10MA4	511
3.1	704	1.6	433.7	8500	F414_433.7 SX10 MXN10MA4	511
3.2	679	0.9	418.9	6500	F314_418.9 SX10 MXN10MA4	507
3.7	603	1.0	374.4	6500	F313_374.4 SX10 MXN10MA4	507
4.0	555	2.0	344.8	8500	F413_344.8 P71 BXN71MA4	511
4.1	536	1.1	332.8	6500	F313_332.8 SX10 MXN10MA4	507
4.7	473	1.3	293.8	6500	F313_293.8 SX10 MXN10MA4	507
4.7	477	2.3	296.6	8500	F413_296.6 P71 BXN71MA4	511
5.2	425	0.9	256.1	6500	F253_256.1 P71 BXN71MA4	503
5.2	430	2.6	266.9	8500	F413_266.9 P71 BXN71MA4	511
5.4	408	1.5	253.6	6500	F313_253.6 SX10 MXN10MA4	507
5.7	387	2.8	240.1	8500	F413_240.1 P71 BXN71MA4	511
5.9	378	1.1	227.8	6500	F253_227.8 SX10 MXN10MA4	503
6.0	367	1.6	228.2	6500	F313_228.2 SX10 MXN10MA4	507
6.3	354	3.1	220.1	8500	F413_220.1 P71 BXN71MA4	511
6.8	326	1.8	202.3	6500	F313_202.3 SX10 MXN10MA4	507
6.9	321	1.2	193.6	6500	F253_193.6 SX10 MXN10MA4	503
6.9	320	3.4	198.9	8500	F413_198.9 P71 BXN71MA4	511
7.4	299	2.0	185.4	6500	F313_185.4 SX10 MXN10MA4	507
7.7	289	1.4	174.2	6500	F253_174.2 SX10 MXN10MA4	503
8.0	278	0.9	172.6	4000	F203_172.6 SX10 MXN10MA4	499
8.3	268	2.2	166.8	6500	F313_166.8 SX10 MXN10MA4	507
8.6	259	1.0	156.3	4000	F203_156.3 SX10 MXN10MA4	499
8.6	259	1.5	155.9	6500	F253_155.9 SX10 MXN10MA4	503
9.2	243	2.5	150.8	6500	F313_150.8 SX10 MXN10MA4	507
9.7	230	1.7	143.0	6500	F253_143.0 SX10 MXN10MA4	503
9.8	227	2.6	140.7	6500	F313_140.7 SX10 MXN10MA4	507
10.1	224	1.1	132.2	4000	F202_132.2 SX10 MXN10MA4	499
10.5	212	1.9	127.8	6500	F253_127.8 SX10 MXN10MA4	503
10.7	207	2.9	128.4	6500	F313_128.4 SX10 MXN10MA4	507
11.7	194	1.3	114.3	4000	F202_114.3 SX10 MXN10MA4	499
12.2	182	2.2	113.0	6500	F253_113.0 SX10 MXN10MA4	503
12.3	181	3.3	112.5	6500	F313_112.5 SX10 MXN10MA4	507
12.7	175	2.3	105.4	6500	F253_105.4 SX10 MXN10MA4	503
13.2	172	1.5	101.6	4000	F202_101.6 SX10 MXN10MA4	499
14.0	158	2.5	95.5	6500	F253_95.5 SX10 MXN10MA4	503
14.6	155	0.9	91.5	2800	F102_91.5 SX10 MXN10MA4	495
14.8	153	1.6	90.4	4000	F202_90.4 SX10 MXN10MA4	499
16.1	138	2.9	83.4	6500	F253_83.4 SX10 MXN10MA4	503
16.5	138	1.0	81.3	2800	F102_81.3 SX10 MXN10MA4	495
17.4	130	1.9	76.8	4000	F202_76.8 SX10 MXN10MA4	499
17.5	127	3.2	76.6	6420	F253_76.6 SX10 MXN10MA4	503
18.8	120	1.2	71.1	2800	F102_71.1 SX10 MXN10MA4	495
19.4	117	2.1	69.1	4000	F202_69.1 SX10 MXN10MA4	499
21.3	107	1.3	63.0	2800	F102_63.0 SX10 MXN10MA4	495
21.7	105	2.4	61.9	4000	F202_61.9 SX10 MXN10MA4	499
23.6	96	1.5	56.7	2800	F102_56.7 SX10 MXN10MA4	495
23.6	96	2.6	56.7	4000	F202_56.7 SX10 MXN10MA4	499
26.4	86	2.9	50.7	4000	F202_50.7 SX10 MXN10MA4	499
27.5	83	1.7	48.7	2800	F102_48.7 SX10 MXN10MA4	495
29.9	76	3.3	44.8	3870	F202_44.8 SX10 MXN10MA4	499
30.0	76	1.9	44.7	2800	F102_44.7 SX10 MXN10MA4	495
34.0	67	2.1	39.6	2800	F102_39.6 SX10 MXN10MA4	495
38.0	60	2.3	35.3	2800	F102_35.3 SX10 MXN10MA4	495

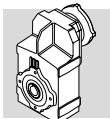


0.25 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
41.0	56	2.5	33.0	2800	F102_33.0 SX10 MXN10MA4	494 F102_33.0 P71 BXN71MA4
45.0	50	2.8	29.6	2800	F102_29.6 SX10 MXN10MA4	494 F102_29.6 P71 BXN71MA4
52.0	44	3.2	25.8	2750	F102_25.8 SX10 MXN10MA4	494 F102_25.8 P71 BXN71MA4
59.0	39	3.6	22.8	2650	F102_22.8 SX10 MXN10MA4	494 F102_22.8 P71 BXN71MA4
69.0	33	4.2	19.3	2520	F102_19.3 SX10 MXN10MA4	494 F102_19.3 P71 BXN71MA4
81.0	28	4.6	17.0	2420	F102_17.0 SX10 MXN10MA4	494 F102_17.0 P71 BXN71MA4
91.0	25	4.8	14.6	2310	F102_14.6 SX10 MXN10MA4	494 F102_14.6 P71 BXN71MA4
103.0	22	4.7	13.0	2230	F102_13.0 SX10 MXN10MA4	494 F102_13.0 P71 BXN71MA4
120.0	19	5.1	11.5	2140	F102_11.5 SX10 MXN10MA4	494 F102_11.5 P71 BXN71MA4
137.0	17	5.4	9.8	2030	F102_9.8 SX10 MXN10MA4	494 F102_9.8 P71 BXN71MA4
161.0	14	5.8	8.6	1950	F102_8.6 SX10 MXN10MA4	494 F102_8.6 P71 BXN71MA4
181.0	13	6.1	7.4	1860	F102_7.4 SX10 MXN10MA4	494 F102_7.4 P71 BXN71MA4

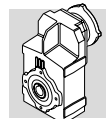
0.37 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC IE2	IE3
0.6	5137	1.0	2188.0	35000	F704_2188 S1 ME1SB4	F704_2188 S1 MX1SB4	522 F704_2188 P71 BE71B4	F704_2188 P71 BX71B4
0.7	4742	1.1	2019.0	35000	F704_2019 S1 ME1SB4	F704_2019 S1 MX1SB4	522 F704_2019 P71 BE71B4	F704_2019 P71 BX71B4
0.7	4666	1.7	1987.0	45000	F804_1987 S1 ME1SB4	F804_1987 S1 MX1SB4	525 F804_1987 P71 BE71B4	F804_1987 P71 BX71B4
0.8	4307	1.9	1834.0	45000	F804_1834 S1 ME1SB4	F804_1834 S1 MX1SB4	525 F804_1834 P71 BE71B4	F804_1834 P71 BX71B4
0.8	4031	1.2	1717.0	35000	F704_1717 S1 ME1SB4	F704_1717 S1 MX1SB4	522 F704_1717 P71 BE71B4	F704_1717 P71 BX71B4
0.8	4013	2.0	1709.0	45000	F804_1709 S1 ME1SB4	F804_1709 S1 MX1SB4	525 F804_1709 P71 BE71B4	F804_1709 P71 BX71B4
0.9	3721	1.3	1585.0	35000	F704_1585 S1 ME1SB4	F704_1585 S1 MX1SB4	522 F704_1585 P71 BE71B4	F704_1585 P71 BX71B4
0.9	3705	2.2	1578.0	45000	F804_1578 S1 ME1SB4	F804_1578 S1 MX1SB4	525 F804_1578 P71 BE71B4	F804_1578 P71 BX71B4
0.9	3479	1.4	1481.0	35000	F704_1481 S1 ME1SB4	F704_1481 S1 MX1SB4	522 F704_1481 P71 BE71B4	F704_1481 P71 BX71B4
1.0	3250	2.5	1384.0	45000	F804_1384 S1 ME1SB4	F804_1384 S1 MX1SB4	525 F804_1384 P71 BE71B4	F804_1384 P71 BX71B4
1.0	3211	1.6	1368.0	35000	F704_1368 S1 ME1SB4	F704_1368 S1 MX1SB4	522 F704_1368 P71 BE71B4	F704_1368 P71 BX71B4
1.1	3000	2.7	1277.0	45000	F804_1277 S1 ME1SB4	F804_1277 S1 MX1SB4	525 F804_1277 P71 BE71B4	F804_1277 P71 BX71B4
1.2	2680	1.1	1141.0	20000	F604_1141 S1 ME1SB4	F604_1141 S1 MX1SB4	518 F604_1141 P71 BE71B4	F604_1141 P71 BX71B4
1.2	2775	1.8	1182.0	35000	F704_1182 S1 ME1SB4	F704_1182 S1 MX1SB4	522 F704_1182 P71 BE71B4	F704_1182 P71 BX71B4
1.2	2692	3.0	1146.0	45000	F804_1146 S1 ME1SB4	F804_1146 S1 MX1SB4	525 F804_1146 P71 BE71B4	F804_1146 P71 BX71B4
1.3	2474	1.2	1054.0	20000	F604_1054 S1 ME1SB4	F604_1054 S1 MX1SB4	518 F604_1054 P71 BE71B4	F604_1054 P71 BX71B4
1.3	2562	2.0	1091.0	35000	F704_1091 S1 ME1SB4	F704_1091 S1 MX1SB4	522 F704_1091 P71 BE71B4	F704_1091 P71 BX71B4
1.3	2485	3.2	1058.0	45000	F804_1058 S1 ME1SB4	F804_1058 S1 MX1SB4	525 F804_1058 P71 BE71B4	F804_1058 P71 BX71B4
1.4	2252	1.3	958.9	20000	F604_958.9 S1 ME1SB4	F604_958.9 S1 MX1SB4	518 F604_958.9 P71 BE71B4	F604_958.9 P71 BX71B4
1.4	2288	2.2	974.4	35000	F704_974.4 S1 ME1SB4	F704_974.4 S1 MX1SB4	522 F704_974.4 P71 BE71B4	F704_974.4 P71 BX71B4
1.5	2079	0.9	885.5	12000	F514_885.5 S1 ME1SB4	F514_885.5 S1 MX1SB4	514 F514_885.5 P71 BE71B4	F514_885.5 P71 BX71B4
1.5	2078	1.4	885.1	20000	F604_885.1 S1 ME1SB4	F604_885.1 S1 MX1SB4	518 F604_885.1 P71 BE71B4	F604_885.1 P71 BX71B4
1.5	2112	2.4	899.4	35000	F704_899.4 S1 ME1SB4	F704_899.4 S1 MX1SB4	522 F704_899.4 P71 BE71B4	F704_899.4 P71 BX71B4
1.7	1941	0.9	826.4	12000	F514_826.4 S1 ME1SB4	F514_826.4 S1 MX1SB4	514 F514_826.4 P71 BE71B4	F514_826.4 P71 BX71B4
1.7	1931	2.6	822.2	35000	F704_822.2 S1 ME1SB4	F704_822.2 S1 MX1SB4	522 F704_822.2 P71 BE71B4	F704_822.2 P71 BX71B4
2.0	1588	1.1	676.3	12000	F514_676.3 S1 ME1SB4	F514_676.3 S1 MX1SB4	514 F514_676.3 P71 BE71B4	F514_676.3 P71 BX71B4
2.1	1556	1.9	662.4	20000	F604_662.4 S1 ME1SB4	F604_662.4 S1 MX1SB4	518 F604_662.4 P71 BE71B4	F604_662.4 P71 BX71B4
2.1	1544	3.2	657.4	35000	F704_657.4 S1 ME1SB4	F704_657.4 S1 MX1SB4	522 F704_657.4 P71 BE71B4	F704_657.4 P71 BX71B4
2.2	1436	2.0	611.4	20000	F604_611.4 S1 ME1SB4	F604_611.4 S1 MX1SB4	518 F604_611.4 P71 BE71B4	F604_611.4 P71 BX71B4
2.3	1425	3.5	606.8	35000	F704_606.8 S1 ME1SB4	F704_606.8 S1 MX1SB4	522 F704_606.8 P71 BE71B4	F704_606.8 P71 BX71B4
2.5	1291	0.9	549.8	8500	F414_549.8 S1 ME1SB4	F414_549.8 S1 MX1SB4	510 F414_549.8 P71 BE71B4	F414_549.8 P71 BX71B4
2.6	1246	1.4	530.5	12000	F514_530.5 S1 ME1SB4	F514_530.5 S1 MX1SB4	514 F514_530.5 P71 BE71B4	F514_530.5 P71 BX71B4
2.6	1246	2.3	530.7	20000	F604_530.7 S1 ME1SB4	F604_530.7 S1 MX1SB4	518 F604_530.7 P71 BE71B4	F604_530.7 P71 BX71B4
2.8	1150	2.5	489.8	20000	F604_489.8 S1 ME1SB4	F604_489.8 S1 MX1SB4	518 F604_489.8 P71 BE71B4	F604_489.8 P71 BX71B4
3.2	1018	1.1	433.7	8500	F414_433.7 S1 ME1SB4	F414_433.7 S1 MX1SB4	510 F414_433.7 P71 BE71B4	F414_433.7 P71 BX71B4
3.2	1008	1.8	429.1	12000	F514_429.1 S1 ME1SB4	F514_429.1 S1 MX1SB4	514 F514_429.1 P71 BE71B4	F514_429.1 P71 BX71B4
3.2	1016	2.9	432.6	20000	F604_432.6 S1 ME1SB4	F604_432.6 S1 MX1SB4	518 F604_432.6 P71 BE71B4	F604_432.6 P71 BX71B4



0.37 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC	IE2	IE3
3.4	938	3.1	399.3	20000	F604_399.3 S1 ME1SB4	F604_399.3 S1 MX1SB4	518	F604_399.3 P71 BE71B4	F604_399.3 P71 BX71B4
3.9	846	2.1	352.5	12000	F513_352.5 S1 ME1SB4	F513_352.5 S1 MX1SB4	514	F513_352.5 P71 BE71B4	F513_352.5 P71 BX71B4
4.0	827	1.3	344.8	8500	F413_344.8 S1 ME1SB4	F413_344.8 S1 MX1SB4	510	F413_344.8 P71 BE71B4	F413_344.8 P71 BX71B4
4.3	761	2.4	317.3	12000	F513_317.3 S1 ME1SB4	F513_317.3 S1 MX1SB4	514	F513_317.3 P71 BE71B4	F513_317.3 P71 BX71B4
4.6	712	1.5	296.6	8500	F413_296.6 S1 ME1SB4	F413_296.6 S1 MX1SB4	510	F413_296.6 P71 BE71B4	F413_296.6 P71 BX71B4
4.8	686	2.6	285.9	12000	F513_285.9 S1 ME1SB4	F513_285.9 S1 MX1SB4	514	F513_285.9 P71 BE71B4	F513_285.9 P71 BX71B4
5.1	641	1.7	266.9	8500	F413_266.9 S1 ME1SB4	F413_266.9 S1 MX1SB4	510	F413_266.9 P71 BE71B4	F413_266.9 P71 BX71B4
5.2	629	2.9	262.1	12000	F513_262.1 S1 ME1SB4	F513_262.1 S1 MX1SB4	514	F513_262.1 P71 BE71B4	F513_262.1 P71 BX71B4
5.4	609	1.0	253.6	6500	F313_253.6 S1 ME1SB4	F313_253.6 S1 MX1SB4	506	F313_253.6 P71 BE71B4	F313_253.6 P71 BX71B4
5.7	576	1.9	240.1	8500	F413_240.1 S1 ME1SB4	F413_240.1 S1 MX1SB4	510	F413_240.1 P71 BE71B4	F413_240.1 P71 BX71B4
5.7	576	3.1	239.8	12000	F513_239.8 S1 ME1SB4	F513_239.8 S1 MX1SB4	514	F513_239.8 P71 BE71B4	F513_239.8 P71 BX71B4
6.0	548	1.1	228.2	6500	F313_228.2 S1 ME1SB4	F313_228.2 S1 MX1SB4	506	F313_228.2 P71 BE71B4	F313_228.2 P71 BX71B4
6.2	528	2.1	220.1	8500	F413_220.1 S1 ME1SB4	F413_220.1 S1 MX1SB4	510	F413_220.1 P71 BE71B4	F413_220.1 P71 BX71B4
6.3	520	3.5	216.9	12000	F513_216.9 S1 ME1SB4	F513_216.9 S1 MX1SB4	514	F513_216.9 P71 BE71B4	F513_216.9 P71 BX71B4
6.8	485	1.2	202.3	6500	F313_202.3 S1 ME1SB4	F313_202.3 S1 MX1SB4	506	F313_202.3 P71 BE71B4	F313_202.3 P71 BX71B4
6.9	477	2.3	198.9	8500	F413_198.9 S1 ME1SB4	F413_198.9 S1 MX1SB4	510	F413_198.9 P71 BE71B4	F413_198.9 P71 BX71B4
7.4	445	1.3	185.4	6500	F313_185.4 S1 ME1SB4	F313_185.4 S1 MX1SB4	506	F313_185.4 P71 BE71B4	F313_185.4 P71 BX71B4
7.6	434	2.5	180.7	8500	F413_180.7 S1 ME1SB4	F413_180.7 S1 MX1SB4	510	F413_180.7 P71 BE71B4	F413_180.7 P71 BX71B4
7.9	418	1.0	174.2	6500	F253_174.2 S1 ME1SB4	F253_174.2 S1 MX1SB4	502	F253_174.2 P71 BE71B4	F253_174.2 P71 BX71B4
8.1	405	2.7	168.7	8500	F413_168.7 S1 ME1SB4	F413_168.7 S1 MX1SB4	510	F413_168.7 P71 BE71B4	F413_168.7 P71 BX71B4
8.2	400	1.5	166.8	6500	F313_166.8 S1 ME1SB4	F313_166.8 S1 MX1SB4	506	F313_166.8 P71 BE71B4	F313_166.8 P71 BX71B4
8.8	374	1.1	155.9	6500	F253_155.9 S1 ME1SB4	F253_155.9 S1 MX1SB4	502	F253_155.9 P71 BE71B4	F253_155.9 P71 BX71B4
9.1	362	1.7	150.8	6500	F313_150.8 S1 ME1SB4	F313_150.8 S1 MX1SB4	506	F313_150.8 P71 BE71B4	F313_150.8 P71 BX71B4
9.6	343	1.2	143.0	6500	F253_143.0 S1 ME1SB4	F253_143.0 S1 MX1SB4	502	F253_143.0 P71 BE71B4	F253_143.0 P71 BX71B4
9.7	338	1.8	140.7	6500	F313_140.7 S1 ME1SB4	F313_140.7 S1 MX1SB4	506	F313_140.7 P71 BE71B4	F313_140.7 P71 BX71B4
10.2	323	3.4	134.4	8500	F413_134.4 S1 ME1SB4	F413_134.4 S1 MX1SB4	510	F413_134.4 P71 BE71B4	F413_134.4 P71 BX71B4
10.7	307	1.3	127.8	6500	F253_127.8 S1 ME1SB4	F253_127.8 S1 MX1SB4	502	F253_127.8 P71 BE71B4	F253_127.8 P71 BX71B4
10.7	308	1.9	128.4	6500	F313_128.4 S1 ME1SB4	F313_128.4 S1 MX1SB4	506	F313_128.4 P71 BE71B4	F313_128.4 P71 BX71B4
12.1	271	1.5	113.0	6500	F253_113.0 S1 ME1SB4	F253_113.0 S1 MX1SB4	502	F253_113.0 P71 BE71B4	F253_113.0 P71 BX71B4
12.2	270	2.2	112.5	6500	F313_112.5 S1 ME1SB4	F313_112.5 S1 MX1SB4	506	F313_112.5 P71 BE71B4	F313_112.5 P71 BX71B4
13.0	253	1.6	105.4	6500	F253_105.4 S1 ME1SB4	F253_105.4 S1 MX1SB4	502	F253_105.4 P71 BE71B4	F253_105.4 P71 BX71B4
13.4	245	2.5	101.9	6500	F313_101.9 S1 ME1SB4	F313_101.9 S1 MX1SB4	506	F313_101.9 P71 BE71B4	F313_101.9 P71 BX71B4
13.5	249	1.0	101.6	4000	F202_101.6 S1 ME1SB4	F202_101.6 S1 MX1SB4	498	F202_101.6 P71 BE71B4	F202_101.6 P71 BX71B4
14.3	229	1.7	95.5	6490	F253_95.5 S1 ME1SB4	F253_95.5 S1 MX1SB4	502	F253_95.5 P71 BE71B4	F253_95.5 P71 BX71B4
15.2	222	1.1	90.4	4000	F202_90.4 S1 ME1SB4	F202_90.4 S1 MX1SB4	498	F202_90.4 P71 BE71B4	F202_90.4 P71 BX71B4
15.7	210	2.9	87.4	6500	F313_87.4 S1 ME1SB4	F313_87.4 S1 MX1SB4	506	F313_87.4 P71 BE71B4	F313_87.4 P71 BX71B4
16.4	200	2.0	83.4	6280	F253_83.4 S1 ME1SB4	F253_83.4 S1 MX1SB4	502	F253_83.4 P71 BE71B4	F253_83.4 P71 BX71B4
17.4	189	3.2	78.9	6500	F313_78.9 S1 ME1SB4	F313_78.9 S1 MX1SB4	506	F313_78.9 P71 BE71B4	F313_78.9 P71 BX71B4
17.8	188	1.3	76.8	4000	F202_76.8 S1 ME1SB4	F202_76.8 S1 MX1SB4	498	F202_76.8 P71 BE71B4	F202_76.8 P71 BX71B4
17.9	184	2.2	76.6	6160	F253_76.6 S1 ME1SB4	F253_76.6 S1 MX1SB4	502	F253_76.6 P71 BE71B4	F253_76.6 P71 BX71B4
19.8	169	1.5	69.1	4000	F202_69.1 S1 ME1SB4	F202_69.1 S1 MX1SB4	498	F202_69.1 P71 BE71B4	F202_69.1 P71 BX71B4
21.0	157	2.6	65.3	5920	F253_65.3 S1 ME1SB4	F253_65.3 S1 MX1SB4	502	F253_65.3 P71 BE71B4	F253_65.3 P71 BX71B4
21.7	154	0.9	63.0	2800	F102_63.0 S1 ME1SB4	F102_63.0 S1 MX1SB4	494	F102_63.0 P71 BE71B4	F102_63.0 P71 BX71B4
22.1	152	1.6	61.9	4000	F202_61.9 S1 ME1SB4	F202_61.9 S1 MX1SB4	498	F202_61.9 P71 BE71B4	F202_61.9 P71 BX71B4
23.5	140	2.9	58.3	5750	F253_58.3 S1 ME1SB4	F253_58.3 S1 MX1SB4	502	F253_58.3 P71 BE71B4	F253_58.3 P71 BX71B4
24.2	139	1.0	56.7	2800	F102_56.7 S1 ME1SB4	F102_56.7 S1 MX1SB4	494	F102_56.7 P71 BE71B4	F102_56.7 P71 BX71B4
24.2	139	1.8	56.7	4000	F202_56.7 S1 ME1SB4	F202_56.7 S1 MX1SB4	498	F202_56.7 P71 BE71B4	F202_56.7 P71 BX71B4
27.0	124	2.0	50.7	3900	F202_50.7 S1 ME1SB4	F202_50.7 S1 MX1SB4	498	F202_50.7 P71 BE71B4	F202_50.7 P71 BX71B4
27.0	122	3.3	50.8	5540	F253_50.8 S1 ME1SB4	F253_50.8 S1 MX1SB4	502	F253_50.8 P71 BE71B4	F253_50.8 P71 BX71B4
28.1	119	1.2	48.7	2800	F102_48.7 S1 ME1SB4	F102_48.7 S1 MX1SB4	494	F102_48.7 P71 BE71B4	F102_48.7 P71 BX71B4
31.0	110	1.3	44.7	2800	F102_44.7 S1 ME1SB4	F102_44.7 S1 MX1SB4	494	F102_44.7 P71 BE71B4	F102_44.7 P71 BX71B4
31.0	110	2.3	44.8	3770	F202_44.8 S1 ME1SB4	F202_44.8 S1 MX1SB4	498	F202_44.8 P71 BE71B4	F202_44.8 P71 BX71B4
31.0	109	3.5	44.4	5370	F252_44.4 S1 ME1SB4	F252_44.4 S1 MX1SB4	502	F252_44.4 P71 BE71B4	F252_44.4 P71 BX71B4
33.0	103	2.4	41.8	3700	F202_41.8 S1 ME1SB4	F202_41.8 S1 MX1SB4	498	F202_41.8 P71 BE71B4	F202_41.8 P71 BX71B4
35.0	97	1.4	39.6	2800	F102_39.6 S1 ME1SB4	F102_39.6 S1 MX1SB4	494	F102_39.6 P71 BE71B4	F102_39.6 P71 BX71B4
36.0	93	2.7	37.9	3600	F202_37.9 S1 ME1SB4	F202_37.9 S1 MX1SB4	498	F202_37.9 P71 BE71B4	F202_37.9 P71 BX71B4
39.0	87	1.6	35.3	2800	F102_35.3 S1 ME1SB4	F102_35.3 S1 MX1SB4	494	F102_35.3 P71 BE71B4	F102_35.3 P71 BX71B4

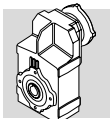


0.37 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N						
					IE2	IE3		IE2	IE3	
41.0	81	3.1	33.1	3460	F202_33.1 S1 ME1SB4	F202_33.1 S1 MX1SB4	498	F202_33.1 P71 BE71B4	F202_33.1 P71 BX71B4	499
42.0	81	1.7	33.0	2800	F102_33.0 S1 ME1SB4	F102_33.0 S1 MX1SB4	494	F102_33.0 P71 BE71B4	F102_33.0 P71 BX71B4	495
45.0	75	3.4	30.4	3380	F202_30.4 S1 ME1SB4	F202_30.4 S1 MX1SB4	498	F202_30.4 P71 BE71B4	F202_30.4 P71 BX71B4	499
46.0	73	1.9	29.6	2800	F102_29.6 S1 ME1SB4	F102_29.6 S1 MX1SB4	494	F102_29.6 P71 BE71B4	F102_29.6 P71 BX71B4	495
53.0	63	2.2	25.8	2690	F102_25.8 S1 ME1SB4	F102_25.8 S1 MX1SB4	494	F102_25.8 P71 BE71B4	F102_25.8 P71 BX71B4	495
60.0	56	2.5	22.8	2600	F102_22.8 S1 ME1SB4	F102_22.8 S1 MX1SB4	494	F102_22.8 P71 BE71B4	F102_22.8 P71 BX71B4	495
71.0	47	2.9	19.3	2470	F102_19.3 S1 ME1SB4	F102_19.3 S1 MX1SB4	494	F102_19.3 P71 BE71B4	F102_19.3 P71 BX71B4	495
81.0	42	3.1	17.0	2380	F102_17.0 S1 ME1SB4	F102_17.0 S1 MX1SB4	494	F102_17.0 P71 BE71B4	F102_17.0 P71 BX71B4	495
94.0	36	3.3	14.6	2280	F102_14.6 S1 ME1SB4	F102_14.6 S1 MX1SB4	494	F102_14.6 P71 BE71B4	F102_14.6 P71 BX71B4	495
105.0	32	3.3	13.0	2200	F102_13.0 S1 ME1SB4	F102_13.0 S1 MX1SB4	494	F102_13.0 P71 BE71B4	F102_13.0 P71 BX71B4	495
119.0	28	3.4	11.5	2120	F102_11.5 S1 ME1SB4	F102_11.5 S1 MX1SB4	494	F102_11.5 P71 BE71B4	F102_11.5 P71 BX71B4	495
140.0	24	3.7	9.8	2010	F102_9.8 S1 ME1SB4	F102_9.8 S1 MX1SB4	494	F102_9.8 P71 BE71B4	F102_9.8 P71 BX71B4	495
160.0	21	3.9	8.6	1930	F102_8.6 S1 ME1SB4	F102_8.6 S1 MX1SB4	494	F102_8.6 P71 BE71B4	F102_8.6 P71 BX71B4	495
185.0	18	4.2	7.4	1850	F102_7.4 S1 ME1SB4	F102_7.4 S1 MX1SB4	494	F102_7.4 P71 BE71B4	F102_7.4 P71 BX71B4	495

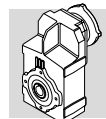
0.37 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IEC IE3		
0.6	5137	1.0	2188.0	35000		F704_2188 P71 BXN71MB4	523	
0.7	4742	1.1	2019.0	35000		F704_2019 P71 BXN71MB4	523	
0.7	4666	1.7	1987.0	45000		F804_1987 P71 BXN71MB4	526	
0.8	4307	1.9	1834.0	45000		F804_1834 P71 BXN71MB4	526	
0.8	4031	1.2	1717.0	35000		F704_1717 P71 BXN71MB4	523	
0.8	4013	2.0	1709.0	45000		F804_1709 P71 BXN71MB4	526	
0.9	3721	1.3	1585.0	35000		F704_1585 P71 BXN71MB4	523	
0.9	3705	2.2	1578.0	45000		F804_1578 P71 BXN71MB4	526	
0.9	3479	1.4	1481.0	35000		F704_1481 P71 BXN71MB4	523	
1.0	3250	2.5	1384.0	45000		F804_1384 P71 BXN71MB4	526	
1.0	3211	1.6	1368.0	35000		F704_1368 P71 BXN71MB4	523	
1.1	3000	2.7	1277.0	45000		F804_1277 P71 BXN71MB4	526	
1.2	2680	1.1	1141.0	20000		F604_1141 P71 BXN71MB4	519	
1.2	2775	1.8	1182.0	35000		F704_1182 P71 BXN71MB4	523	
1.2	2692	3.0	1146.0	45000		F804_1146 P71 BXN71MB4	526	
1.3	2474	1.2	1054.0	20000		F604_1054 P71 BXN71MB4	519	
1.3	2562	2.0	1091.0	35000		F704_1091 P71 BXN71MB4	523	
1.3	2485	3.2	1058.0	45000		F804_1058 P71 BXN71MB4	526	
1.4	2252	1.3	958.9	20000		F604_958.9 P71 BXN71MB4	519	
1.4	2288	2.2	974.4	35000		F704_974.4 P71 BXN71MB4	523	
1.5	2079	0.9	885.5	12000	F514_885.5 SX10 MXN10MB4	514	F514_885.5 P71 BXN71MB4	515
1.5	2078	1.4	885.1	20000	F514_826.4 SX10 MXN10MB4	F604_885.1 P71 BXN71MB4	519	
1.5	2112	2.4	899.4	35000		F704_899.4 P71 BXN71MB4	523	
1.7	1941	0.9	826.4	12000		F514_826.4 P71 BXN71MB4	515	
1.7	1931	2.6	822.2	35000		F704_822.2 P71 BXN71MB4	523	
2.0	1588	1.1	676.3	12000	F514_676.3 SX10 MXN10MB4	514	F514_676.3 P71 BXN71MB4	515
2.1	1556	1.9	662.4	20000		F604_662.4 P71 BXN71MB4	519	
2.1	1544	3.2	657.4	35000		F704_657.4 P71 BXN71MB4	523	
2.2	1436	2.0	611.4	20000		F604_611.4 P71 BXN71MB4	519	
2.3	1425	3.5	606.8	35000		F704_606.8 P71 BXN71MB4	523	
2.5	1291	0.9	549.8	8500	F414_549.8 SX10 MXN10MB4	510	F414_549.8 P71 BXN71MB4	511
2.6	1246	1.4	530.5	12000	F514_530.5 SX10 MXN10MB4	514	F514_530.5 P71 BXN71MB4	515
2.6	1246	2.3	530.7	20000		F604_530.7 P71 BXN71MB4	519	
2.8	1150	2.5	489.8	20000		F604_489.8 P71 BXN71MB4	519	
3.2	1018	1.1	433.7	8500		F414_433.7 SX10 MXN10MB4	510	F414_433.7 P71 BXN71MB4
3.2	1008	1.8	429.1	12000	F514_429.1 SX10 MXN10MB4	514	F514_429.1 P71 BXN71MB4	515



0.37 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
3.2	1016	2.9	432.6	20000		F604_432.6 P71 BXN71MB4 519
3.4	938	3.1	399.3	20000		F604_399.3 P71 BXN71MB4 519
3.9	846	2.1	352.5	12000		F513_352.5 P71 BXN71MB4 515
4.0	827	1.3	344.8	8500		F413_344.8 P71 BXN71MB4 511
4.3	761	2.4	317.3	12000		F513_317.3 P71 BXN71MB4 515
4.6	712	1.5	296.6	8500		F413_296.6 P71 BXN71MB4 511
4.8	686	2.6	285.9	12000		F513_285.9 P71 BXN71MB4 515
5.1	641	1.7	266.9	8500		F413_266.9 P71 BXN71MB4 511
5.2	629	2.9	262.1	12000		F513_262.1 P71 BXN71MB4 515
5.4	609	1.0	253.6	6500	F313_253.6 SX10 MXN10MB4 506	F313_253.6 P71 BXN71MB4 507
5.7	576	1.9	240.1	8500		F413_240.1 P71 BXN71MB4 511
5.7	576	3.1	239.8	12000		F513_239.8 P71 BXN71MB4 515
6.0	548	1.1	228.2	6500	F313_228.2 SX10 MXN10MB4 506	F313_228.2 P71 BXN71MB4 507
6.2	528	2.1	220.1	8500		F413_220.1 P71 BXN71MB4 511
6.3	520	3.5	216.9	12000		F513_216.9 P71 BXN71MB4 515
6.8	485	1.2	202.3	6500	F313_202.3 SX10 MXN10MB4 506	F313_202.3 P71 BXN71MB4 507
6.9	477	2.3	198.9	8500		F413_198.9 P71 BXN71MB4 511
7.4	445	1.3	185.4	6500	F313_185.4 SX10 MXN10MB4 506	F313_185.4 P71 BXN71MB4 507
7.6	434	2.5	180.7	8500		F413_180.7 P71 BXN71MB4 511
7.9	418	1.0	174.2	6500	F253_174.2 SX10 MXN10MB4 502	F253_174.2 P71 BXN71MB4 503
8.1	405	2.7	168.7	8500		F413_168.7 P71 BXN71MB4 511
8.2	400	1.5	166.8	6500	F313_166.8 SX10 MXN10MB4 506	F313_166.8 P71 BXN71MB4 507
8.8	374	1.1	155.9	6500	F253_155.9 SX10 MXN10MB4 502	F253_155.9 P71 BXN71MB4 503
9.1	362	1.7	150.8	6500	F313_150.8 SX10 MXN10MB4 506	F313_150.8 P71 BXN71MB4 507
9.6	343	1.2	143.0	6500	F253_143.0 SX10 MXN10MB4 502	F253_143.0 P71 BXN71MB4 503
9.7	338	1.8	140.7	6500	F313_140.7 SX10 MXN10MB4 506	F313_140.7 P71 BXN71MB4 507
10.2	323	3.4	134.4	8500		F413_134.4 P71 BXN71MB4 511
10.7	307	1.3	127.8	6500	F253_127.8 SX10 MXN10MB4 502	F253_127.8 P71 BXN71MB4 503
10.7	308	1.9	128.4	6500	F313_128.4 SX10 MXN10MB4 506	F313_128.4 P71 BXN71MB4 507
12.1	271	1.5	113.0	6500	F253_113.0 SX10 MXN10MB4 502	F253_113.0 P71 BXN71MB4 503
12.2	270	2.2	112.5	6500	F313_112.5 SX10 MXN10MB4 506	F313_112.5 P71 BXN71MB4 507
13.0	253	1.6	105.4	6500	F253_105.4 SX10 MXN10MB4 502	F253_105.4 P71 BXN71MB4 503
13.4	245	2.5	101.9	6500	F313_101.9 SX10 MXN10MB4 506	F313_101.9 P71 BXN71MB4 507
13.5	249	1.0	101.6	4000	F202_101.6 SX10 MXN10MB4 498	F202_101.6 P71 BXN71MB4 499
14.3	229	1.7	95.5	6490	F253_95.5 SX10 MXN10MB4 502	F253_95.5 P71 BXN71MB4 503
15.2	222	1.1	90.4	4000	F202_90.4 SX10 MXN10MB4 498	F202_90.4 P71 BXN71MB4 499
15.7	210	2.9	87.4	6500	F313_87.4 SX10 MXN10MB4 506	F313_87.4 P71 BXN71MB4 507
16.4	200	2.0	83.4	6280	F253_83.4 SX10 MXN10MB4 502	F253_83.4 P71 BXN71MB4 503
17.4	189	3.2	78.9	6500	F313_78.9 SX10 MXN10MB4 506	F313_78.9 P71 BXN71MB4 507
17.8	188	1.3	76.8	4000	F202_76.8 SX10 MXN10MB4 498	F202_76.8 P71 BXN71MB4 499
17.9	184	2.2	76.6	6160	F253_76.6 SX10 MXN10MB4 502	F253_76.6 P71 BXN71MB4 503
19.8	169	1.5	69.1	4000	F202_69.1 SX10 MXN10MB4 498	F202_69.1 P71 BXN71MB4 499
21.0	157	2.6	65.3	5920	F253_65.3 SX10 MXN10MB4 502	F253_65.3 P71 BXN71MB4 503
21.7	154	0.9	63.0	2800	F102_63.0 SX10 MXN10MB4 494	F102_63.0 P71 BXN71MB4 495
22.1	152	1.6	61.9	4000	F202_61.9 SX10 MXN10MB4 498	F202_61.9 P71 BXN71MB4 499
23.5	140	2.9	58.3	5750	F253_58.3 SX10 MXN10MB4 502	F253_58.3 P71 BXN71MB4 503
24.2	139	1.0	56.7	2800	F102_56.7 SX10 MXN10MB4 494	F102_56.7 P71 BXN71MB4 495
24.2	139	1.8	56.7	4000	F202_56.7 SX10 MXN10MB4 498	F202_56.7 P71 BXN71MB4 499
27.0	124	2.0	50.7	3900	F202_50.7 SX10 MXN10MB4 498	F202_50.7 P71 BXN71MB4 499
27.0	122	3.3	50.8	5540	F253_50.8 SX10 MXN10MB4 502	F253_50.8 P71 BXN71MB4 503
28.1	119	1.2	48.7	2800	F102_48.7 SX10 MXN10MB4 494	F102_48.7 P71 BXN71MB4 495
31.0	110	1.3	44.7	2800	F102_44.7 SX10 MXN10MB4 494	F102_44.7 P71 BXN71MB4 495
31.0	110	2.3	44.8	3770	F202_44.8 SX10 MXN10MB4 498	F202_44.8 P71 BXN71MB4 499
31.0	109	3.5	44.4	5370	F252_44.4 SX10 MXN10MB4 502	F252_44.4 P71 BXN71MB4 503
33.0	103	2.4	41.8	3700	F202_41.8 SX10 MXN10MB4 498	F202_41.8 P71 BXN71MB4 499
35.0	97	1.4	39.6	2800	F102_39.6 SX10 MXN10MB4 494	F102_39.6 P71 BXN71MB4 495
36.0	93	2.7	37.9	3600	F202_37.9 SX10 MXN10MB4 498	F202_37.9 P71 BXN71MB4 499

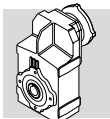


0.37 kW

n2 min-1	M2 Nm	S	i	Rn2 N	<div><div></div><div>IE3</div></div>	<div><div></div><div>IE3</div></div>	<div><div></div><div>IE3</div></div>	<div><div></div><div>IE3</div></div>
39.0	87	1.6	35.3	2800	F102_35.3 SX10 MXN10MB4	494	F102_35.3 P71 BXN71MB4	495
41.0	81	3.1	33.1	3460	F202_33.1 SX10 MXN10MB4	498	F202_33.1 P71 BXN71MB4	499
42.0	81	1.7	33.0	2800	F102_33.0 SX10 MXN10MB4	494	F102_33.0 P71 BXN71MB4	495
45.0	75	3.4	30.4	3380	F202_30.4 SX10 MXN10MB4	498	F202_30.4 P71 BXN71MB4	499
46.0	73	1.9	29.6	2800	F102_29.6 SX10 MXN10MB4	494	F102_29.6 P71 BXN71MB4	495
53.0	63	2.2	25.8	2690	F102_25.8 SX10 MXN10MB4	494	F102_25.8 P71 BXN71MB4	495
60.0	56	2.5	22.8	2600	F102_22.8 SX10 MXN10MB4	494	F102_22.8 P71 BXN71MB4	495
71.0	47	2.9	19.3	2470	F102_19.3 SX10 MXN10MB4	494	F102_19.3 P71 BXN71MB4	495
81.0	42	3.1	17.0	2380	F102_17.0 SX10 MXN10MB4	494	F102_17.0 P71 BXN71MB4	495
94.0	36	3.3	14.6	2280	F102_14.6 SX10 MXN10MB4	494	F102_14.6 P71 BXN71MB4	495
105.0	32	3.3	13.0	2200	F102_13.0 SX10 MXN10MB4	494	F102_13.0 P71 BXN71MB4	495
119.0	28	3.4	11.5	2120	F102_11.5 SX10 MXN10MB4	494	F102_11.5 P71 BXN71MB4	495
140.0	24	3.7	9.8	2010	F102_9.8 SX10 MXN10MB4	494	F102_9.8 P71 BXN71MB4	495
160.0	21	3.9	8.6	1930	F102_8.6 SX10 MXN10MB4	494	F102_8.6 P71 BXN71MB4	495
185.0	18	4.2	7.4	1850	F102_7.4 SX10 MXN10MB4	494	F102_7.4 P71 BXN71MB4	495

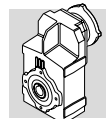
0.55 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				IEC		
					IE2	IE3		IE2	IE3	
0.7	6885	1.2	1987.0	45000	F804_1987 S2 ME2SA4	F804_1987 S2 MX2SA4	525	F804_1987 P80 BE80A4	F804_1987 P80 BX80A4	526
0.8	6356	1.3	1834.0	45000	F804_1834 S2 ME2SA4	F804_1834 S2 MX2SA4	525	F804_1834 P80 BE80A4	F804_1834 P80 BX80A4	526
0.8	5923	1.4	1709.0	45000	F804_1709 S2 ME2SA4	F804_1709 S2 MX2SA4	525	F804_1709 P80 BE80A4	F804_1709 P80 BX80A4	526
0.9	5491	0.9	1585.0	35000	F704_1585 S2 ME2SA4	F704_1585 S2 MX2SA4	522	F704_1585 P80 BE80A4	F704_1585 P80 BX80A4	523
0.9	5467	1.5	1578.0	45000	F804_1578 S2 ME2SA4	F804_1578 S2 MX2SA4	525	F804_1578 P80 BE80A4	F804_1578 P80 BX80A4	526
0.9	5134	1.0	1481.0	35000	F704_1481 S2 ME2SA4	F704_1481 S2 MX2SA4	522	F704_1481 P80 BE80A4	F704_1481 P80 BX80A4	523
1.0	4739	1.1	1368.0	35000	F704_1368 S2 ME2SA4	F704_1368 S2 MX2SA4	522	F704_1368 P80 BE80A4	F704_1368 P80 BX80A4	523
1.0	4795	1.7	1384.0	45000	F804_1384 S2 ME2SA4	F804_1384 S2 MX2SA4	525	F804_1384 P80 BE80A4	F804_1384 P80 BX80A4	526
1.1	4427	1.8	1277.0	45000	F804_1277 S2 ME2SA4	F804_1277 S2 MX2SA4	525	F804_1277 P80 BE80A4	F804_1277 P80 BX80A4	526
1.2	4095	1.2	1182.0	35000	F704_1182 S2 ME2SA4	F704_1182 S2 MX2SA4	522	F704_1182 P80 BE80A4	F704_1182 P80 BX80A4	523
1.2	3972	2.0	1146.0	45000	F804_1146 S2 ME2SA4	F804_1146 S2 MX2SA4	525	F804_1146 P80 BE80A4	F804_1146 P80 BX80A4	526
1.3	3780	1.3	1091.0	35000	F704_1091 S2 ME2SA4	F704_1091 S2 MX2SA4	522	F704_1091 P80 BE80A4	F704_1091 P80 BX80A4	523
1.3	3667	2.2	1058.0	45000	F804_1058 S2 ME2SA4	F804_1058 S2 MX2SA4	525	F804_1058 P80 BE80A4	F804_1058 P80 BX80A4	526
1.4	3323	0.9	958.9	20000	F604_958.9 S2 ME2SA4	F604_958.9 S2 MX2SA4	518	F604_958.9 P80 BE80A4	F604_958.9 P80 BX80A4	519
1.4	3377	1.5	974.4	35000	F704_974.4 S2 ME2SA4	F704_974.4 S2 MX2SA4	522	F704_974.4 P80 BE80A4	F704_974.4 P80 BX80A4	523
1.5	3117	1.6	899.4	35000	F704_899.4 S2 ME2SA4	F704_899.4 S2 MX2SA4	522	F704_899.4 P80 BE80A4	F704_899.4 P80 BX80A4	523
1.5	3109	2.6	897.3	45000	F804_897.3 S2 ME2SA4	F804_897.3 S2 MX2SA4	525	F804_897.3 P80 BE80A4	F804_897.3 P80 BX80A4	526
1.6	3067	0.9	885.1	20000	F604_885.1 S2 ME2SA4	F604_885.1 S2 MX2SA4	518	F604_885.1 P80 BE80A4	F604_885.1 P80 BX80A4	519
1.7	2849	1.8	822.2	35000	F704_822.2 S2 ME2SA4	F704_822.2 S2 MX2SA4	522	F704_822.2 P80 BE80A4	F704_822.2 P80 BX80A4	523
1.8	2684	3.0	774.4	45000	F804_774.4 S2 ME2SA4	F804_774.4 S2 MX2SA4	525	F804_774.4 P80 BE80A4	F804_774.4 P80 BX80A4	526
1.9	2477	3.2	714.9	45000	F804_714.9 S2 ME2SA4	F804_714.9 S2 MX2SA4	525	F804_714.9 P80 BE80A4	F804_714.9 P80 BX80A4	526
2.1	2295	1.3	662.4	20000	F604_662.4 S2 ME2SA4	F604_662.4 S2 MX2SA4	518	F604_662.4 P80 BE80A4	F604_662.4 P80 BX80A4	519
2.1	2278	2.2	657.4	35000	F704_657.4 S2 ME2SA4	F704_657.4 S2 MX2SA4	522	F704_657.4 P80 BE80A4	F704_657.4 P80 BX80A4	523
2.3	2119	1.4	611.4	20000	F604_611.4 S2 ME2SA4	F604_611.4 S2 MX2SA4	518	F604_611.4 P80 BE80A4	F604_611.4 P80 BX80A4	519
2.3	2103	2.4	606.8	35000	F704_606.8 S2 ME2SA4	F704_606.8 S2 MX2SA4	522	F704_606.8 P80 BE80A4	F704_606.8 P80 BX80A4	523
2.6	1838	1.0	530.5	12000	F514_530.5 S2 ME2SA4	F514_530.5 S2 MX2SA4	514	F514_530.5 P80 BE80A4	F514_530.5 P80 BX80A4	515
2.6	1839	1.6	530.7	20000	F604_530.7 S2 ME2SA4	F604_530.7 S2 MX2SA4	518	F604_530.7 P80 BE80A4	F604_530.7 P80 BX80A4	519
2.7	1769	2.8	510.4	35000	F704_510.4 S2 ME2SA4	F704_510.4 S2 MX2SA4	522	F704_510.4 P80 BE80A4	F704_510.4 P80 BX80A4	523
2.8	1698	1.7	489.8	20000	F604_489.8 S2 ME2SA4	F604_489.8 S2 MX2SA4	518	F604_489.8 P80 BE80A4	F604_489.8 P80 BX80A4	519
2.9	1633	3.1	471.2	35000	F704_471.2 S2 ME2SA4	F704_471.2 S2 MX2SA4	522	F704_471.2 P80 BE80A4	F704_471.2 P80 BX80A4	523
3.2	1487	1.2	429.1	12000	F514_429.1 S2 ME2SA4	F514_429.1 S2 MX2SA4	514	F514_429.1 P80 BE80A4	F514_429.1 P80 BX80A4	515
3.2	1499	1.9	432.6	20000	F604_432.6 S2 ME2SA4	F604_432.6 S2 MX2SA4	518	F604_432.6 P80 BE80A4	F604_432.6 P80 BX80A4	519
3.5	1384	2.1	399.3	20000	F604_399.3 S2 ME2SA4	F604_399.3 S2 MX2SA4	518	F604_399.3 P80 BE80A4	F604_399.3 P80 BX80A4	519
3.9	1248	1.4	352.5	12000	F513_352.5 S2 ME2SA4	F513_352.5 S2 MX2SA4	514	F513_352.5 P80 BE80A4	F513_352.5 P80 BX80A4	515
4.0	1221	0.9	344.8	8500	F413_344.8 S2 ME2SA4	F413_344.8 S2 MX2SA4	510	F413_344.8 P80 BE80A4	F413_344.8 P80 BX80A4	511



0.55 kW

n ₂	M ₂	S	i	R _{n2}				IEC		
min ⁻¹	Nm			N	IE2	IE3		IE2	IE3	
4.0	1184	2.4	341.7	20000	F604_341.7 S2 ME2SA4	F604_341.7 S2 MX2SA4	518	F604_341.7 P80 BE80A4	F604_341.7 P80 BX80A4	519
4.3	1124	1.6	317.3	12000	F513_317.3 S2 ME2SA4	F513_317.3 S2 MX2SA4	514	F513_317.3 P80 BE80A4	F513_317.3 P80 BX80A4	515
4.4	1093	2.7	315.4	20000	F604_315.4 S2 ME2SA4	F604_315.4 S2 MX2SA4	518	F604_315.4 P80 BE80A4	F604_315.4 P80 BX80A4	519
4.7	1050	1.0	296.6	8500	F413_296.6 S2 ME2SA4	F413_296.6 S2 MX2SA4	510	F413_296.6 P80 BE80A4	F413_296.6 P80 BX80A4	511
4.8	1013	1.8	285.9	12000	F513_285.9 S2 ME2SA4	F513_285.9 S2 MX2SA4	514	F513_285.9 P80 BE80A4	F513_285.9 P80 BX80A4	515
5.2	945	1.2	266.9	8500	F413_266.9 S2 ME2SA4	F413_266.9 S2 MX2SA4	510	F413_266.9 P80 BE80A4	F413_266.9 P80 BX80A4	511
5.3	928	1.9	262.1	12000	F513_262.1 S2 ME2SA4	F513_262.1 S2 MX2SA4	514	F513_262.1 P80 BE80A4	F513_262.1 P80 BX80A4	515
5.7	850	1.3	240.1	8500	F413_240.1 S2 ME2SA4	F413_240.1 S2 MX2SA4	510	F413_240.1 P80 BE80A4	F413_240.1 P80 BX80A4	511
5.8	849	2.1	239.8	12000	F513_239.8 S2 ME2SA4	F513_239.8 S2 MX2SA4	514	F513_239.8 P80 BE80A4	F513_239.8 P80 BX80A4	515
6.3	780	1.4	220.1	8500	F413_220.1 S2 ME2SA4	F413_220.1 S2 MX2SA4	510	F413_220.1 P80 BE80A4	F413_220.1 P80 BX80A4	511
6.4	768	2.3	216.9	12000	F513_216.9 S2 ME2SA4	F513_216.9 S2 MX2SA4	514	F513_216.9 P80 BE80A4	F513_216.9 P80 BX80A4	515
6.8	717	2.5	202.4	12000	F513_202.4 S2 ME2SA4	F513_202.4 S2 MX2SA4	514	F513_202.4 P80 BE80A4	F513_202.4 P80 BX80A4	515
6.9	704	1.6	198.9	8500	F413_198.9 S2 ME2SA4	F413_198.9 S2 MX2SA4	510	F413_198.9 P80 BE80A4	F413_198.9 P80 BX80A4	511
7.4	657	0.9	185.4	6500	F313_185.4 S2 ME2SA4	F313_185.4 S2 MX2SA4	506	F313_185.4 P80 BE80A4	F313_185.4 P80 BX80A4	507
7.6	640	1.7	180.7	8500	F413_180.7 S2 ME2SA4	F413_180.7 S2 MX2SA4	510	F413_180.7 P80 BE80A4	F413_180.7 P80 BX80A4	511
8.2	597	1.8	168.7	8500	F413_168.7 S2 ME2SA4	F413_168.7 S2 MX2SA4	510	F413_168.7 P80 BE80A4	F413_168.7 P80 BX80A4	511
8.3	591	1.0	166.8	6500	F313_166.8 S2 ME2SA4	F313_166.8 S2 MX2SA4	506	F313_166.8 P80 BE80A4	F313_166.8 P80 BX80A4	507
8.3	587	3.1	165.6	12000	F513_165.6 S2 ME2SA4	F513_165.6 S2 MX2SA4	514	F513_165.6 P80 BE80A4	F513_165.6 P80 BX80A4	515
9.2	534	1.1	150.8	6500	F313_150.8 S2 ME2SA4	F313_150.8 S2 MX2SA4	506	F313_150.8 P80 BE80A4	F313_150.8 P80 BX80A4	507
9.8	498	1.2	140.7	6500	F313_140.7 S2 ME2SA4	F313_140.7 S2 MX2SA4	506	F313_140.7 P80 BE80A4	F313_140.7 P80 BX80A4	507
10.3	476	2.3	134.4	8500	F413_134.4 S2 ME2SA4	F413_134.4 S2 MX2SA4	510	F413_134.4 P80 BE80A4	F413_134.4 P80 BX80A4	511
10.7	455	1.3	128.4	6500	F313_128.4 S2 ME2SA4	F313_128.4 S2 MX2SA4	506	F313_128.4 P80 BE80A4	F313_128.4 P80 BX80A4	507
12.2	400	1.0	113.0	6130	F253_113.0 S2 ME2SA4	F253_113.0 S2 MX2SA4	502	F253_113.0 P80 BE80A4	F253_113.0 P80 BX80A4	503
12.3	399	1.5	112.5	6500	F313_112.5 S2 ME2SA4	F313_112.5 S2 MX2SA4	506	F313_112.5 P80 BE80A4	F313_112.5 P80 BX80A4	507
13.0	375	2.9	106.0	8500	F413_106.0 S2 ME2SA4	F413_106.0 S2 MX2SA4	510	F413_106.0 P80 BE80A4	F413_106.0 P80 BX80A4	511
13.1	373	1.1	105.4	6070	F253_105.4 S2 ME2SA4	F253_105.4 S2 MX2SA4	502	F253_105.4 P80 BE80A4	F253_105.4 P80 BX80A4	503
13.5	361	1.7	101.9	6500	F313_101.9 S2 ME2SA4	F313_101.9 S2 MX2SA4	506	F313_101.9 P80 BE80A4	F313_101.9 P80 BX80A4	507
14.5	338	1.2	95.5	5980	F253_95.5 S2 ME2SA4	F253_95.5 S2 MX2SA4	502	F253_95.5 P80 BE80A4	F253_95.5 P80 BX80A4	503
15.8	309	1.9	87.4	6500	F313_87.4 S2 ME2SA4	F313_87.4 S2 MX2SA4	506	F313_87.4 P80 BE80A4	F313_87.4 P80 BX80A4	507
16.5	295	1.4	83.4	5840	F253_83.4 S2 ME2SA4	F253_83.4 S2 MX2SA4	502	F253_83.4 P80 BE80A4	F253_83.4 P80 BX80A4	503
17.5	279	2.1	78.9	6500	F313_78.9 S2 ME2SA4	F313_78.9 S2 MX2SA4	506	F313_78.9 P80 BE80A4	F313_78.9 P80 BX80A4	507
18.0	278	0.9	76.8	4000	F202_76.8 S2 ME2SA4	F202_76.8 S2 MX2SA4	498	F202_76.8 P80 BE80A4	F202_76.8 P80 BX80A4	499
18.0	271	1.5	76.6	5750	F253_76.6 S2 ME2SA4	F253_76.6 S2 MX2SA4	502	F253_76.6 P80 BE80A4	F253_76.6 P80 BX80A4	503
20.0	250	1.0	69.1	3980	F202_69.1 S2 ME2SA4	F202_69.1 S2 MX2SA4	498	F202_69.1 P80 BE80A4	F202_69.1 P80 BX80A4	499
20.0	245	2.5	69.1	6500	F313_69.1 S2 ME2SA4	F313_69.1 S2 MX2SA4	506	F313_69.1 P80 BE80A4	F313_69.1 P80 BX80A4	507
21.1	231	1.7	65.3	5570	F253_65.3 S2 ME2SA4	F253_65.3 S2 MX2SA4	502	F253_65.3 P80 BE80A4	F253_65.3 P80 BX80A4	503
22.1	221	2.7	62.8	6500				F313_62.8 P80 BE80A4	F313_62.8 P80 BX80A4	507
22.3	224	1.1	61.9	3890	F202_61.9 S2 ME2SA4	F202_61.9 S2 MX2SA4	498	F202_61.9 P80 BE80A4	F202_61.9 P80 BX80A4	499
23.7	207	1.9	58.3	5430	F253_58.3 S2 ME2SA4	F253_58.3 S2 MX2SA4	502	F253_58.3 P80 BE80A4	F253_58.3 P80 BX80A4	503
24.3	205	1.2	56.7	3810	F202_56.7 S2 ME2SA4	F202_56.7 S2 MX2SA4	498	F202_56.7 P80 BE80A4	F202_56.7 P80 BX80A4	499
26.7	183	3.3	52.1	6500				F313_52.1 P80 BE80A4	F313_52.1 P80 BX80A4	507
27.2	184	1.4	50.7	3720	F202_50.7 S2 ME2SA4	F202_50.7 S2 MX2SA4	498	F202_50.7 P80 BE80A4	F202_50.7 P80 BX80A4	499
27.2	180	2.2	50.8	5270	F253_50.8 S2 ME2SA4	F253_50.8 S2 MX2SA4	502	F253_50.8 P80 BE80A4	F253_50.8 P80 BX80A4	503
29.2	167	3.5	47.5	6500				F313_47.5 P80 BE80A4	F313_47.5 P80 BX80A4	507
31.0	162	1.5	44.8	3610	F202_44.8 S2 ME2SA4	F202_44.8 S2 MX2SA4	498	F202_44.8 P80 BE80A4	F202_44.8 P80 BX80A4	499
31.0	161	2.4	44.4	5140	F252_44.4 S2 ME2SA4	F252_44.4 S2 MX2SA4	502	F252_44.4 P80 BE80A4	F252_44.4 P80 BX80A4	503
31.0	160	2.5	45.6	5130				F253_45.6 P80 BE80A4	F253_45.6 P80 BX80A4	503
33.0	151	1.7	41.8	3550	F202_41.8 S2 ME2SA4	F202_41.8 S2 MX2SA4	498	F202_41.8 P80 BE80A4	F202_41.8 P80 BX80A4	499
34.0	147	2.5	40.7	5030	F252_40.7 S2 ME2SA4	F252_40.7 S2 MX2SA4	502	F252_40.7 P80 BE80A4	F252_40.7 P80 BX80A4	503
35.0	143	1.0	39.6	2800	F102_39.6 S2 ME2SA4	F102_39.6 S2 MX2SA4	494	F102_39.6 P80 BE80A4	F102_39.6 P80 BX80A4	495
36.0	137	1.8	37.9	3460	F202_37.9 S2 ME2SA4	F202_37.9 S2 MX2SA4	498	F202_37.9 P80 BE80A4	F202_37.9 P80 BX80A4	499
38.0	132	3.0	36.4	4890	F252_36.4 S2 ME2SA4	F252_36.4 S2 MX2SA4	502	F252_36.4 P80 BE80A4	F252_36.4 P80 BX80A4	503
39.0	128	1.1	35.3	2800	F102_35.3 S2 ME2SA4	F102_35.3 S2 MX2SA4	494	F102_35.3 P80 BE80A4	F102_35.3 P80 BX80A4	495
42.0	119	1.2	33.0	2750	F102_33.0 S2 ME2SA4	F102_33.0 S2 MX2SA4	494	F102_33.0 P80 BE80A4	F102_33.0 P80 BX80A4	495
42.0	120	2.1	33.1	3340	F202_33.1 S2 ME2SA4	F202_33.1 S2 MX2SA4	498	F202_33.1 P80 BE80A4	F202_33.1 P80 BX80A4	499
43.0	116	3.4	32.2	4730	F252_32.2 S2 ME2SA4	F252_32.2 S2 MX2SA4	502	F252_32.2 P80 BE80A4	F252_32.2 P80 BX80A4	503
45.0	110	2.3	30.4	3260	F202_30.4 S2 ME2SA4	F202_30.4 S2 MX2SA4	498	F202_30.4 P80 BE80A4	F202_30.4 P80 BX80A4	499

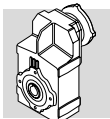


0.55 kW

n2	M2	S	i	Rn2				IEC		
min-1	Nm			N	IE2	IE3		IE2	IE3	
47.0	107	1.3	29.6	2680	F102_29.6 S2 ME2SA4	F102_29.6 S2 MX2SA4	494	F102_29.6 P80 BE80A4	F102_29.6 P80 BX80A4	495
53.0	94	2.6	25.9	3130	F202_25.9 S2 ME2SA4	F202_25.9 S2 MX2SA4	498	F202_25.9 P80 BE80A4	F202_25.9 P80 BX80A4	499
54.0	93	1.5	25.8	2590	F102_25.8 S2 ME2SA4	F102_25.8 S2 MX2SA4	494	F102_25.8 P80 BE80A4	F102_25.8 P80 BX80A4	495
60	83	1.7	22.8	2510	F102_22.8 S2 ME2SA4	F102_22.8 S2 MX2SA4	494	F102_22.8 P80 BE80A4	F102_22.8 P80 BX80A4	495
60	84	2.8	23.1	3030	F202_23.1 S2 ME2SA4	F202_23.1 S2 MX2SA4	498	F202_23.1 P80 BE80A4	F202_23.1 P80 BX80A4	499
68	73	3.1	20.2	2910	F202_20.2 S2 ME2SA4	F202_20.2 S2 MX2SA4	498	F202_20.2 P80 BE80A4	F202_20.2 P80 BX80A4	499
71	70	1.9	19.3	2400	F102_19.3 S2 ME2SA4	F102_19.3 S2 MX2SA4	494	F102_19.3 P80 BE80A4	F102_19.3 P80 BX80A4	495
77	65	3.3	18.1	2820	F202_18.1 S2 ME2SA4	F202_18.1 S2 MX2SA4	498	F202_18.1 P80 BE80A4	F202_18.1 P80 BX80A4	499
81	61	2.1	17.0	2310	F102_17.0 S2 ME2SA4	F102_17.0 S2 MX2SA4	494	F102_17.0 P80 BE80A4	F102_17.0 P80 BX80A4	495
94	53	2.2	14.6	2220	F102_14.6 S2 ME2SA4	F102_14.6 S2 MX2SA4	494	F102_14.6 P80 BE80A4	F102_14.6 P80 BX80A4	495
106	47	2.2	13.0	2140	F102_13.0 S2 ME2SA4	F102_13.0 S2 MX2SA4	494	F102_13.0 P80 BE80A4	F102_13.0 P80 BX80A4	495
120	42	2.3	11.5	2070	F102_11.5 S2 ME2SA4	F102_11.5 S2 MX2SA4	494	F102_11.5 P80 BE80A4	F102_11.5 P80 BX80A4	495
141	35	2.5	9.8	1970	F102_9.8 S2 ME2SA4	F102_9.8 S2 MX2SA4	494	F102_9.8 P80 BE80A4	F102_9.8 P80 BX80A4	495
161	31	2.6	8.6	1890	F102_8.6 S2 ME2SA4	F102_8.6 S2 MX2SA4	494	F102_8.6 P80 BE80A4	F102_8.6 P80 BX80A4	495
186	27	2.8	7.4	1810	F102_7.4 S2 ME2SA4	F102_7.4 S2 MX2SA4	494	F102_7.4 P80 BE80A4	F102_7.4 P80 BX80A4	495

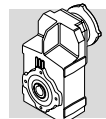
0.55 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	 IE3	 IE3	 IE3
0.7	6885	1.2	1987.0	45000		F804_1987 P80 BXN80MA4	526
0.8	6356	1.3	1834.0	45000		F804_1834 P80 BXN80MA4	526
0.8	5923	1.4	1709.0	45000		F804_1709 P80 BXN80MA4	526
0.9	5491	0.9	1585.0	35000		F704_1585 P80 BXN80MA4	523
0.9	5467	1.5	1578.0	45000		F804_1578 P80 BXN80MA4	526
0.9	5134	1.0	1481.0	35000		F704_1481 P80 BXN80MA4	523
1.0	4739	1.1	1368.0	35000		F704_1368 P80 BXN80MA4	523
1.0	4795	1.7	1384.0	45000		F804_1384 P80 BXN80MA4	526
1.1	4427	1.8	1277.0	45000		F804_1277 P80 BXN80MA4	526
1.2	4095	1.2	1182.0	35000		F704_1182 P80 BXN80MA4	523
1.2	3972	2.0	1146.0	45000		F804_1146 P80 BXN80MA4	526
1.3	3780	1.3	1091.0	35000		F704_1091 P80 BXN80MA4	523
1.3	3667	2.2	1058.0	45000		F804_1058 P80 BXN80MA4	526
1.4	3323	0.9	958.9	20000		F604_958.9 P80 BXN80MA4	519
1.4	3377	1.5	974.4	35000		F704_974.4 P80 BXN80MA4	523
1.5	3117	1.6	899.4	35000		F704_899.4 P80 BXN80MA4	523
1.5	3109	2.6	897.3	45000		F804_897.3 P80 BXN80MA4	526
1.6	3067	0.9	885.1	20000		F604_885.1 P80 BXN80MA4	519
1.7	2849	1.8	822.2	35000		F704_822.2 P80 BXN80MA4	523
1.8	2684	3.0	774.4	45000		F804_774.4 P80 BXN80MA4	526
1.9	2477	3.2	714.9	45000		F804_714.9 P80 BXN80MA4	526
2.1	2295	1.3	662.4	20000		F604_662.4 P80 BXN80MA4	519
2.1	2278	2.2	657.4	35000		F704_657.4 P80 BXN80MA4	523
2.3	2119	1.4	611.4	20000		F604_611.4 P80 BXN80MA4	519
2.3	2103	2.4	606.8	35000		F704_606.8 P80 BXN80MA4	523
2.6	1838	1.0	530.5	12000		F514_530.5 P80 BXN80MA4	515
2.6	1839	1.6	530.7	20000		F604_530.7 P80 BXN80MA4	519
2.7	1769	2.8	510.4	35000		F704_510.4 P80 BXN80MA4	523
2.8	1698	1.7	489.8	20000		F604_489.8 P80 BXN80MA4	519
2.9	1633	3.1	471.2	35000		F704_471.2 P80 BXN80MA4	523
3.2	1487	1.2	429.1	12000		F514_429.1 P80 BXN80MA4	515
3.2	1499	1.9	432.6	20000		F604_432.6 P80 BXN80MA4	519
3.5	1384	2.1	399.3	20000		F604_399.3 P80 BXN80MA4	519
3.9	1248	1.4	352.5	12000		F513_352.5 P80 BXN80MA4	515



0.55 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
4.0	1221	0.9	344.8	8500		F413_344.8 P80 BXN80MA4 511
4.0	1184	2.4	341.7	20000		F604_341.7 P80 BXN80MA4 519
4.3	1124	1.6	317.3	12000		F513_317.3 P80 BXN80MA4 515
4.4	1093	2.7	315.4	20000		F604_315.4 P80 BXN80MA4 519
4.7	1050	1.0	296.6	8500		F413_296.6 P80 BXN80MA4 511
4.8	1013	1.8	285.9	12000		F513_285.9 P80 BXN80MA4 515
5.2	945	1.2	266.9	8500		F413_266.9 P80 BXN80MA4 511
5.3	928	1.9	262.1	12000		F513_262.1 P80 BXN80MA4 515
5.7	850	1.3	240.1	8500		F413_240.1 P80 BXN80MA4 511
5.8	849	2.1	239.8	12000		F513_239.8 P80 BXN80MA4 515
6.3	780	1.4	220.1	8500		F413_220.1 P80 BXN80MA4 511
6.4	768	2.3	216.9	12000		F513_216.9 P80 BXN80MA4 515
6.8	717	2.5	202.4	12000		F513_202.4 P80 BXN80MA4 515
6.9	704	1.6	198.9	8500		F413_198.9 P80 BXN80MA4 511
7.4	657	0.9	185.4	6500		F313_185.4 P80 BXN80MA4 507
7.6	640	1.7	180.7	8500		F413_180.7 P80 BXN80MA4 511
8.2	597	1.8	168.7	8500		F413_168.7 P80 BXN80MA4 511
8.3	591	1.0	166.8	6500		F313_166.8 P80 BXN80MA4 507
8.3	587	3.1	165.6	12000		F513_165.6 P80 BXN80MA4 515
9.2	534	1.1	150.8	6500		F313_150.8 P80 BXN80MA4 507
9.8	498	1.2	140.7	6500		F313_140.7 P80 BXN80MA4 507
10.3	476	2.3	134.4	8500		F413_134.4 P80 BXN80MA4 511
10.7	455	1.3	128.4	6500		F313_128.4 P80 BXN80MA4 507
12.2	400	1.0	113.0	6130	F253_113.0 SX20 MXN20MA4	F253_113.0 P80 BXN80MA4 503
12.3	399	1.5	112.5	6500		F313_112.5 P80 BXN80MA4 507
13.0	375	2.9	106.0	8500		F413_106.0 P80 BXN80MA4 511
13.1	373	1.1	105.4	6070	F253_105.4 SX20 MXN20MA4	F253_105.4 P80 BXN80MA4 503
13.5	361	1.7	101.9	6500		F313_101.9 P80 BXN80MA4 507
14.5	338	1.2	95.5	5980	F253_95.5 SX20 MXN20MA4	F253_95.5 P80 BXN80MA4 503
15.8	309	1.9	87.4	6500		F313_87.4 P80 BXN80MA4 507
16.5	295	1.4	83.4	5840	F253_83.4 SX20 MXN20MA4	F253_83.4 P80 BXN80MA4 503
17.5	279	2.1	78.9	6500		F313_78.9 P80 BXN80MA4 507
18.0	278	0.9	76.8	4000	F202_76.8 SX20 MXN20MA4	F202_76.8 P80 BXN80MA4 499
18.0	271	1.5	76.6	5750	F253_76.6 SX20 MXN20MA4	F253_76.6 P80 BXN80MA4 503
20.0	250	1.0	69.1	3980	F202_69.1 SX20 MXN20MA4	F202_69.1 P80 BXN80MA4 499
20.0	245	2.5	69.1	6500		F313_69.1 P80 BXN80MA4 507
21.1	231	1.7	65.3	5570	F253_65.3 SX20 MXN20MA4	F253_65.3 P80 BXN80MA4 503
22.1	221	2.7	62.8	6500		F313_62.8 P80 BXN80MA4 507
22.3	224	1.1	61.9	3890	F202_61.9 SX20 MXN20MA4	F202_61.9 P80 BXN80MA4 499
23.7	207	1.9	58.3	5430	F253_58.3 SX20 MXN20MA4	F253_58.3 P80 BXN80MA4 503
24.3	205	1.2	56.7	3810	F202_56.7 SX20 MXN20MA4	F202_56.7 P80 BXN80MA4 499
26.7	183	3.3	52.1	6500		F313_52.1 P80 BXN80MA4 507
27.2	184	1.4	50.7	3720	F202_50.7 SX20 MXN20MA4	F202_50.7 P80 BXN80MA4 499
27.2	180	2.2	50.8	5270	F253_50.8 SX20 MXN20MA4	F253_50.8 P80 BXN80MA4 503
29.2	167	3.5	47.5	6500		F313_47.5 P80 BXN80MA4 507
31.0	162	1.5	44.8	3610	F202_44.8 SX20 MXN20MA4	F202_44.8 P80 BXN80MA4 499
31.0	161	2.4	44.4	5140	F252_44.4 SX20 MXN20MA4	F252_44.4 P80 BXN80MA4 503
31.0	160	2.5	45.6	5130		F253_45.6 P80 BXN80MA4 503
33.0	151	1.7	41.8	3550	F202_41.8 SX20 MXN20MA4	F202_41.8 P80 BXN80MA4 499
34.0	147	2.5	40.7	5030	F252_40.7 SX20 MXN20MA4	F252_40.7 P80 BXN80MA4 503
35.0	143	1.0	39.6	2800	F102_39.6 SX20 MXN20MA4	F102_39.6 P80 BXN80MA4 495
36.0	137	1.8	37.9	3460	F202_37.9 SX20 MXN20MA4	F202_37.9 P80 BXN80MA4 499
38.0	132	3.0	36.4	4890	F252_36.4 SX20 MXN20MA4	F252_36.4 P80 BXN80MA4 503
39.0	128	1.1	35.3	2800	F102_35.3 SX20 MXN20MA4	F102_35.3 P80 BXN80MA4 495
42.0	119	1.2	33.0	2750	F102_33.0 SX20 MXN20MA4	F102_33.0 P80 BXN80MA4 495
42.0	120	2.1	33.1	3340	F202_33.1 SX20 MXN20MA4	F202_33.1 P80 BXN80MA4 499
43.0	116	3.4	32.2	4730	F252_32.2 SX20 MXN20MA4	F252_32.2 P80 BXN80MA4 503

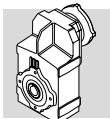


0.55 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
45.0	110	2.3	30.4	3260	F202_30.4 SX20 MXN20MA4	498 F202_30.4 P80 BXN80MA4
47.0	107	1.3	29.6	2680	F102_29.6 SX20 MXN20MA4	494 F102_29.6 P80 BXN80MA4
53.0	94	2.6	25.9	3130	F202_25.9 SX20 MXN20MA4	498 F202_25.9 P80 BXN80MA4
54.0	93	1.5	25.8	2590	F102_25.8 SX20 MXN20MA4	494 F102_25.8 P80 BXN80MA4
60.0	83	1.7	22.8	2510	F102_22.8 SX20 MXN20MA4	494 F102_22.8 P80 BXN80MA4
60.0	84	2.8	23.1	3030	F202_23.1 SX20 MXN20MA4	498 F202_23.1 P80 BXN80MA4
68.0	73	3.1	20.2	2910	F202_20.2 SX20 MXN20MA4	498 F202_20.2 P80 BXN80MA4
71.0	70	1.9	19.3	2400	F102_19.3 SX20 MXN20MA4	494 F102_19.3 P80 BXN80MA4
77.0	65	3.3	18.1	2820	F202_18.1 SX20 MXN20MA4	498 F202_18.1 P80 BXN80MA4
81.0	61	2.1	17.0	2310	F102_17.0 SX20 MXN20MA4	494 F102_17.0 P80 BXN80MA4
94.0	53	2.2	14.6	2220	F102_14.6 SX20 MXN20MA4	494 F102_14.6 P80 BXN80MA4
106.0	47	2.2	13.0	2140	F102_13.0 SX20 MXN20MA4	494 F102_13.0 P80 BXN80MA4
120.0	42	2.3	11.5	2070	F102_11.5 SX20 MXN20MA4	494 F102_11.5 P80 BXN80MA4
141.0	35	2.5	9.8	1970	F102_9.8 SX20 MXN20MA4	494 F102_9.8 P80 BXN80MA4
161.0	31	2.6	8.6	1890	F102_8.6 SX20 MXN20MA4	494 F102_8.6 P80 BXN80MA4
186.0	27	2.8	7.4	1810	F102_7.4 SX20 MXN20MA4	494 F102_7.4 P80 BXN80MA4

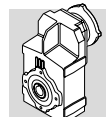
0.75 kW

n ₂	M ₂	S	i	R _{n2}				IEC		
min ⁻¹	Nm			N	IE2	IE3		IE2	IE3	
0.45	14391	1.0	2098.7	55000	F904_2099 S3 ME3SA6		528	F904_2099 P90 BE90S6		529
0.49	13284	1.1	1937.3	55000	F904_1937 S3 ME3SA6		528	F904_1937 P90 BE90S6		529
0.55	11673	1.2	1702.3	55000	F904_1702 S3 ME3SA6		528	F904_1702 P90 BE90S6		529
0.60	10775	1.3	1571.4	55000	F904_1571 S3 ME3SA6		528	F904_1571 P90 BE90S6		529
0.66	9791	1.4	1427.9	55000	F904_1428 S3 ME3SA6		528	F904_1428 P90 BE90S6		529
0.68	9444	1.5	2098.7	55000	F904_2099 S2 ME2SB4	F904_2099 S2 MX2SB4	528	F904_2099 P80 BE80B4	F904_2099 P80 BX80B4	529
0.72	8941	0.9	1986.8	45000	F804_1987 S2 ME2SB4	F804_1987 S2 MX2SB4	525	F804_1987 P80 BE80B4	F804_1987 P80 BX80B4	526
0.74	8718	1.6	1937.3	55000	F904_1937 S2 ME2SB4	F904_1937 S2 MX2SB4	528	F904_1937 P80 BE80B4	F904_1937 P80 BX80B4	529
0.78	8253	1.0	1834.0	45000	F804_1834 S2 ME2SB4	F804_1834 S2 MX2SB4	525	F804_1834 P80 BE80B4	F804_1834 P80 BX80B4	526
0.84	7691	1.0	1709.1	45000	F804_1709 S2 ME2SB4	F804_1709 S2 MX2SB4	525	F804_1709 P80 BE80B4	F804_1709 P80 BX80B4	526
0.84	7660	1.8	1702.3	55000	F904_1702 S2 ME2SB4	F904_1702 S2 MX2SB4	528	F904_1702 P80 BE80B4	F904_1702 P80 BX80B4	529
0.91	7099	1.1	1577.6	45000	F804_1578 S2 ME2SB4	F804_1578 S2 MX2SB4	525	F804_1578 P80 BE80B4	F804_1578 P80 BX80B4	526
0.91	7071	2.0	1571.4	55000	F904_1571 S2 ME2SB4	F904_1571 S2 MX2SB4	528	F904_1571 P80 BE80B4	F904_1571 P80 BX80B4	529
1.0	6426	2.2	1427.9	55000	F904_1428 S2 ME2SB4	F904_1428 S2 MX2SB4	528	F904_1428 P80 BE80B4	F904_1428 P80 BX80B4	529
1.0	6227	1.3	1383.8	45000	F804_1384 S2 ME2SB4	F804_1384 S2 MX2SB4	525	F804_1384 P80 BE80B4	F804_1384 P80 BX80B4	526
1.1	5931	2.4	1318.1	55000	F904_1318 S2 ME2SB4	F904_1318 S2 MX2SB4	528	F904_1318 P80 BE80B4	F904_1318 P80 BX80B4	529
1.1	5748	1.4	1277.3	45000	F804_1277 S2 ME2SB4	F804_1277 S2 MX2SB4	525	F804_1277 P80 BE80B4	F804_1277 P80 BX80B4	526
1.2	5422	2.6	1204.9	55000	F904_1205 S2 ME2SB4	F904_1205 S2 MX2SB4	528	F904_1205 P80 BE80B4	F904_1205 P80 BX80B4	529
1.2	5318	0.9	1181.8	35000	F704_1182 S2 ME2SB4	F704_1182 S2 MX2SB4	522	F704_1182 P80 BE80B4	F704_1182 P80 BX80B4	523
1.2	5158	1.6	1146.2	45000	F804_1146 S2 ME2SB4	F804_1146 S2 MX2SB4	525	F804_1146 P80 BE80B4	F804_1146 P80 BX80B4	526
1.3	5005	2.8	1112.3	55000	F904_1112 S2 ME2SB4	F904_1112 S2 MX2SB4	528	F904_1112 P80 BE80B4	F904_1112 P80 BX80B4	529
1.3	4909	1.0	1090.9	35000	F704_1091 S2 ME2SB4	F704_1091 S2 MX2SB4	522	F704_1091 P80 BE80B4	F704_1091 P80 BX80B4	523
1.4	4761	1.7	1058.1	45000	F804_1058 S2 ME2SB4	F804_1058 S2 MX2SB4	525	F804_1058 P80 BE80B4	F804_1058 P80 BX80B4	526
1.5	4437	3.2	986.0	55000	F904_986.0 S2 ME2SB4	F904_986.0 S2 MX2SB4	528	F904_986.0 P80 BE80B4	F904_986.0 P80 BX80B4	529
1.5	4385	1.1	974.4	35000	F704_974.4 S2 ME2SB4	F704_974.4 S2 MX2SB4	522	F704_974.4 P80 BE80B4	F704_974.4 P80 BX80B4	523
1.5	4374	1.8	972.0	45000	F804_972.0 S2 ME2SB4	F804_972.0 S2 MX2SB4	525	F804_972.0 P80 BE80B4	F804_972.0 P80 BX80B4	526
1.6	4096	3.4	910.2	55000	F904_910.2 S2 ME2SB4	F904_910.2 S2 MX2SB4	528	F904_910.2 P80 BE80B4	F904_910.2 P80 BX80B4	529
1.6	4047	1.2	899.4	35000	F704_899.4 S2 ME2SB4	F704_899.4 S2 MX2SB4	522	F704_899.4 P80 BE80B4	F704_899.4 P80 BX80B4	523
1.6	4038	2.0	897.3	45000	F804_897.3 S2 ME2SB4	F804_897.3 S2 MX2SB4	525	F804_897.3 P80 BE80B4	F804_897.3 P80 BX80B4	526
1.7	3700	1.4	822.2	35000	F704_822.2 S2 ME2SB4	F704_822.2 S2 MX2SB4	522	F704_822.2 P80 BE80B4	F704_822.2 P80 BX80B4	523
1.8	3485	2.3	774.4	45000	F804_774.4 S2 ME2SB4	F804_774.4 S2 MX2SB4	525	F804_774.4 P80 BE80B4	F804_774.4 P80 BX80B4	526
1.9	3415	1.5	759.0	35000	F704_759.0 S2 ME2SB4	F704_759.0 S2 MX2SB4	522	F704_759.0 P80 BE80B4	F704_759.0 P80 BX80B4	523
2.0	3217	2.5	714.9	45000	F804_714.9 S2 ME2SB4	F804_714.9 S2 MX2SB4	525	F804_714.9 P80 BE80B4	F804_714.9 P80 BX80B4	526
2.2	2981	1.0	662.4	20000	F604_662.4 S2 ME2SB4	F604_662.4 S2 MX2SB4	518	F604_662.4 P80 BE80B4	F604_662.4 P80 BX80B4	519
2.2	2958	1.7	657.4	35000	F704_657.4 S2 ME2SB4	F704_657.4 S2 MX2SB4	522	F704_657.4 P80 BE80B4	F704_657.4 P80 BX80B4	523



0.75 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC	IE2	IE3
2.3	2751	1.1	611.4	20000	F604_611.4 S2 ME2SB4	F604_611.4 S2 MX2SB4	518	F604_611.4 P80 BE80B4	F604_611.4 P80 BX80B4
2.3	2749	2.9	610.9	45000	F804_610.9 S2 ME2SB4	F804_610.9 S2 MX2SB4	525	F804_610.9 P80 BE80B4	F804_610.9 P80 BX80B4
2.4	2731	1.8	606.8	35000	F704_606.8 S2 ME2SB4	F704_606.8 S2 MX2SB4	522	F704_606.8 P80 BE80B4	F704_606.8 P80 BX80B4
2.5	2537	3.2	563.9	45000	F804_563.9 S2 ME2SB4	F804_563.9 S2 MX2SB4	525	F804_563.9 P80 BE80B4	F804_563.9 P80 BX80B4
2.7	2388	1.2	530.7	20000	F604_530.7 S2 ME2SB4	F604_530.7 S2 MX2SB4	518	F604_530.7 P80 BE80B4	F604_530.7 P80 BX80B4
2.8	2297	2.2	510.4	35000	F704_510.4 S2 ME2SB4	F704_510.4 S2 MX2SB4	522	F704_510.4 P80 BE80B4	F704_510.4 P80 BX80B4
2.9	2204	1.3	489.8	20000	F604_489.8 S2 ME2SB4	F604_489.8 S2 MX2SB4	518	F604_489.8 P80 BE80B4	F604_489.8 P80 BX80B4
3.0	2120	2.4	471.2	35000	F704_471.2 S2 ME2SB4	F704_471.2 S2 MX2SB4	522	F704_471.2 P80 BE80B4	F704_471.2 P80 BX80B4
3.3	1947	1.5	432.6	20000	F604_432.6 S2 ME2SB4	F604_432.6 S2 MX2SB4	518	F604_432.6 P80 BE80B4	F604_432.6 P80 BX80B4
3.3	1931	0.9	429.1	12000	F514_429.1 S2 ME2SB4	F514_429.1 S2 MX2SB4	514	F514_429.1 P80 BE80B4	F514_429.1 P80 BX80B4
3.5	1816	2.8	403.5	35000	F704_403.5 S2 ME2SB4	F704_403.5 S2 MX2SB4	522	F704_403.5 P80 BE80B4	F704_403.5 P80 BX80B4
3.6	1797	1.6	399.3	20000	F604_399.3 S2 ME2SB4	F604_399.3 S2 MX2SB4	518	F604_399.3 P80 BE80B4	F604_399.3 P80 BX80B4
3.8	1676	3.0	372.5	35000	F704_372.5 S2 ME2SB4	F704_372.5 S2 MX2SB4	522	F704_372.5 P80 BE80B4	F704_372.5 P80 BX80B4
4.1	1639	1.1	352.5	12000	F513_352.5 S2 ME2SB4	F513_352.5 S2 MX2SB4	514	F513_352.5 P80 BE80B4	F513_352.5 P80 BX80B4
4.2	1538	1.9	341.7	20000	F604_341.7 S2 ME2SB4	F604_341.7 S2 MX2SB4	518	F604_341.7 P80 BE80B4	F604_341.7 P80 BX80B4
4.5	1475	1.2	317.3	12000	F513_317.3 S2 ME2SB4	F513_317.3 S2 MX2SB4	514	F513_317.3 P80 BE80B4	F513_317.3 P80 BX80B4
4.5	1419	2.0	315.4	20000	F604_315.4 S2 ME2SB4	F604_315.4 S2 MX2SB4	518	F604_315.4 P80 BE80B4	F604_315.4 P80 BX80B4
4.7	1370	3.7	304.3	35000	F704_304.3 S2 ME2SB4	F704_304.3 S2 MX2SB4	522	F704_304.3 P80 BE80B4	F704_304.3 P80 BX80B4
5.0	1330	1.4	285.9	12000	F513_285.9 S2 ME2SB4	F513_285.9 S2 MX2SB4	514	F513_285.9 P80 BE80B4	F513_285.9 P80 BX80B4
5.1	1305	2.2	280.7	20000	F603_280.7 S2 ME2SB4	F603_280.7 S2 MX2SB4	518	F603_280.7 P80 BE80B4	F603_280.7 P80 BX80B4
5.5	1219	1.5	262.1	12000	F513_262.1 S2 ME2SB4	F513_262.1 S2 MX2SB4	514	F513_262.1 P80 BE80B4	F513_262.1 P80 BX80B4
5.5	1205	2.4	259.1	20000	F603_259.1 S2 ME2SB4	F603_259.1 S2 MX2SB4	518	F603_259.1 P80 BE80B4	F603_259.1 P80 BX80B4
6.0	1117	1.0	240.1	8500	F413_240.1 S2 ME2SB4	F413_240.1 S2 MX2SB4	510	F413_240.1 P80 BE80B4	F413_240.1 P80 BX80B4
6.0	1115	1.6	239.8	12000	F513_239.8 S2 ME2SB4	F513_239.8 S2 MX2SB4	514	F513_239.8 P80 BE80B4	F513_239.8 P80 BX80B4
6.1	1096	2.6	235.8	20000	F603_235.8 S2 ME2SB4	F603_235.8 S2 MX2SB4	518	F603_235.8 P80 BE80B4	F603_235.8 P80 BX80B4
6.5	1024	1.1	220.1	8500	F413_220.1 S2 ME2SB4	F413_220.1 S2 MX2SB4	510	F413_220.1 P80 BE80B4	F413_220.1 P80 BX80B4
6.6	1012	2.9	217.6	20000	F603_217.6 S2 ME2SB4	F603_217.6 S2 MX2SB4	518	F603_217.6 P80 BE80B4	F603_217.6 P80 BX80B4
6.6	1008	1.8	216.9	12000	F513_216.9 S2 ME2SB4	F513_216.9 S2 MX2SB4	514	F513_216.9 P80 BE80B4	F513_216.9 P80 BX80B4
7.1	941	1.9	202.4	12000	F513_202.4 S2 ME2SB4	F513_202.4 S2 MX2SB4	514	F513_202.4 P80 BE80B4	F513_202.4 P80 BX80B4
7.1	936	3.1	201.4	20000	F603_201.4 S2 ME2SB4	F603_201.4 S2 MX2SB4	518	F603_201.4 P80 BE80B4	F603_201.4 P80 BX80B4
7.2	925	1.2	198.9	8500	F413_198.9 S2 ME2SB4	F413_198.9 S2 MX2SB4	510	F413_198.9 P80 BE80B4	F413_198.9 P80 BX80B4
7.7	864	3.4	185.9	20000	F603_185.9 S2 ME2SB4	F603_185.9 S2 MX2SB4	518	F603_185.9 P80 BE80B4	F603_185.9 P80 BX80B4
7.9	840	1.3	180.7	8500	F413_180.7 S2 ME2SB4	F413_180.7 S2 MX2SB4	510	F413_180.7 P80 BE80B4	F413_180.7 P80 BX80B4
8.5	784	1.4	168.7	8500	F413_168.7 S2 ME2SB4	F413_168.7 S2 MX2SB4	510	F413_168.7 P80 BE80B4	F413_168.7 P80 BX80B4
8.6	770	2.3	165.6	12000	F513_165.6 S2 ME2SB4	F513_165.6 S2 MX2SB4	514	F513_165.6 P80 BE80B4	F513_165.6 P80 BX80B4
8.8	757	3.8	162.9	20000	F603_162.9 S2 ME2SB4	F603_162.9 S2 MX2SB4	518	F603_162.9 P80 BE80B4	F603_162.9 P80 BX80B4
10.2	654	0.9	140.7	6500	F313_140.7 S2 ME2SB4	F313_140.7 S2 MX2SB4	506	F313_140.7 P80 BE80B4	F313_140.7 P80 BX80B4
10.6	625	1.8	134.4	8500	F413_134.4 S2 ME2SB4	F413_134.4 S2 MX2SB4	510	F413_134.4 P80 BE80B4	F413_134.4 P80 BX80B4
11.0	604	3.0	129.9	12000	F513_129.9 S2 ME2SB4	F513_129.9 S2 MX2SB4	514	F513_129.9 P80 BE80B4	F513_129.9 P80 BX80B4
11.1	597	1.0	128.4	6500	F313_128.4 S2 ME2SB4	F313_128.4 S2 MX2SB4	506	F313_128.4 P80 BE80B4	F313_128.4 P80 BX80B4
12.7	523	1.1	112.5	6500	F313_112.5 S2 ME2SB4	F313_112.5 S2 MX2SB4	506	F313_112.5 P80 BE80B4	F313_112.5 P80 BX80B4
13.5	493	2.2	106.0	8500	F413_106.0 S2 ME2SB4	F413_106.0 S2 MX2SB4	510	F413_106.0 P80 BE80B4	F413_106.0 P80 BX80B4
14.0	474	1.3	101.9	6500	F313_101.9 S2 ME2SB4	F313_101.9 S2 MX2SB4	506	F313_101.9 P80 BE80B4	F313_101.9 P80 BX80B4
15.0	444	0.9	95.5	5450	F253_95.5 S2 ME2SB4	F253_95.5 S2 MX2SB4	502	F253_95.5 P80 BE80B4	F253_95.5 P80 BX80B4
16.4	406	1.5	87.4	6500	F313_87.4 S2 ME2SB4	F313_87.4 S2 MX2SB4	506	F313_87.4 P80 BE80B4	F313_87.4 P80 BX80B4
16.8	395	2.8	84.9	8500	F413_84.9 S2 ME2SB4	F413_84.9 S2 MX2SB4	510	F413_84.9 P80 BE80B4	F413_84.9 P80 BX80B4
17.1	388	1.0	83.4	5350	F253_83.4 S2 ME2SB4	F253_83.4 S2 MX2SB4	502	F253_83.4 P80 BE80B4	F253_83.4 P80 BX80B4
18.1	367	1.6	78.9	6500	F313_78.9 S2 ME2SB4	F313_78.9 S2 MX2SB4	506	F313_78.9 P80 BE80B4	F313_78.9 P80 BX80B4
18.7	356	1.1	76.6	5300	F253_76.6 S2 ME2SB4	F253_76.6 S2 MX2SB4	502	F253_76.6 P80 BE80B4	F253_76.6 P80 BX80B4
20.7	321	1.9	69.1	6500	F313_69.1 S2 ME2SB4	F313_69.1 S2 MX2SB4	506	F313_69.1 P80 BE80B4	F313_69.1 P80 BX80B4
21.5	309	3.6	66.5	8500	F413_66.5 S2 ME2SB4	F413_66.5 S2 MX2SB4	510	F413_66.5 P80 BE80B4	F413_66.5 P80 BX80B4
21.9	304	1.3	65.3	5180	F253_65.3 S2 ME2SB4	F253_65.3 S2 MX2SB4	502	F253_65.3 P80 BE80B4	F253_65.3 P80 BX80B4
22.8	292	2.1	62.8	6500	F313_62.8 S2 ME2SB4	F313_62.8 S2 MX2SB4	506	F313_62.8 P80 BE80B4	F313_62.8 P80 BX80B4
24.5	271	1.5	58.3	5080	F253_58.3 S2 ME2SB4	F253_58.3 S2 MX2SB4	502	F253_58.3 P80 BE80B4	F253_58.3 P80 BX80B4
25.2	269	0.9	56.7	3590	F202_56.7 S2 ME2SB4	F202_56.7 S2 MX2SB4	498	F202_56.7 P80 BE80B4	F202_56.7 P80 BX80B4
27.5	242	2.5	52.1	6500	F313_52.1 S2 ME2SB4	F313_52.1 S2 MX2SB4	506	F313_52.1 P80 BE80B4	F313_52.1 P80 BX80B4
28.2	236	1.7	50.8	4960	F253_50.8 S2 ME2SB4	F253_50.8 S2 MX2SB4	502	F253_50.8 P80 BE80B4	F253_50.8 P80 BX80B4
28.2	241	1.0	50.7	3510	F202_50.7 S2 ME2SB4	F202_50.7 S2 MX2SB4	498	F202_50.7 P80 BE80B4	F202_50.7 P80 BX80B4
30	221	2.6	47.5	6500	F313_47.5 S2 ME2SB4	F313_47.5 S2 MX2SB4	506	F313_47.5 P80 BE80B4	F313_47.5 P80 BX80B4
31	212	1.9	45.6	4860	F253_45.6 S2 ME2SB4	F253_45.6 S2 MX2SB4	502	F253_45.6 P80 BE80B4	F253_45.6 P80 BX80B4

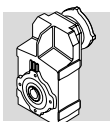


0.75 kW

n2	M2	S	i	Rn2				IEC		
min-1	Nm			N	IE2	IE3		IE2	IE3	
32	213	1.2	44.8	3420	F202_44.8 S2 ME2SB4	F202_44.8 S2 MX2SB4	498	F202_44.8 P80 BE80B4	F202_44.8 P80 BX80B4	499
32	212	2.8	44.6	6500	F312_44.6 S2 ME2SB4	F312_44.6 S2 MX2SB4	506	F312_44.6 P80 BE80B4	F312_44.6 P80 BX80B4	507
32	211	1.8	44.4	4890	F252_44.4 S2 ME2SB4	F252_44.4 S2 MX2SB4	502	F252_44.4 P80 BE80B4	F252_44.4 P80 BX80B4	503
34	199	1.3	41.8	3370	F202_41.8 S2 ME2SB4	F202_41.8 S2 MX2SB4	498	F202_41.8 P80 BE80B4	F202_41.8 P80 BX80B4	499
35	193	1.9	40.7	4790	F252_40.7 S2 ME2SB4	F252_40.7 S2 MX2SB4	502	F252_40.7 P80 BE80B4	F252_40.7 P80 BX80B4	503
35	192	3.1	40.4	6500	F312_40.4 S2 ME2SB4	F312_40.4 S2 MX2SB4	506	F312_40.4 P80 BE80B4	F312_40.4 P80 BX80B4	507
38	180	1.4	37.9	3300	F202_37.9 S2 ME2SB4	F202_37.9 S2 MX2SB4	498	F202_37.9 P80 BE80B4	F202_37.9 P80 BX80B4	499
38	179	3.4	37.7	6500	F312_37.7 S2 ME2SB4	F312_37.7 S2 MX2SB4	506	F312_37.7 P80 BE80B4	F312_37.7 P80 BX80B4	507
39	173	2.3	36.4	4680	F252_36.4 S2 ME2SB4	F252_36.4 S2 MX2SB4	502	F252_36.4 P80 BE80B4	F252_36.4 P80 BX80B4	503
43	157	1.6	33.1	3200	F202_33.1 S2 ME2SB4	F202_33.1 S2 MX2SB4	498	F202_33.1 P80 BE80B4	F202_33.1 P80 BX80B4	499
44	153	2.6	32.2	4540	F252_32.2 S2 ME2SB4	F252_32.2 S2 MX2SB4	502	F252_32.2 P80 BE80B4	F252_32.2 P80 BX80B4	503
47	144	1.7	30.4	3140	F202_30.4 S2 ME2SB4	F202_30.4 S2 MX2SB4	498	F202_30.4 P80 BE80B4	F202_30.4 P80 BX80B4	499
48	143	2.8	30.0	4470	F252_30.0 S2 ME2SB4	F252_30.0 S2 MX2SB4	502	F252_30.0 P80 BE80B4	F252_30.0 P80 BX80B4	503
48	141	1.0	29.6	2550	F102_29.6 S2 ME2SB4	F102_29.6 S2 MX2SB4	494	F102_29.6 P80 BE80B4	F102_29.6 P80 BX80B4	495
53	129	3.1	27.2	4360	F252_27.2 S2 ME2SB4	F252_27.2 S2 MX2SB4	502	F252_27.2 P80 BE80B4	F252_27.2 P80 BX80B4	503
55	123	1.9	25.9	3020	F202_25.9 S2 ME2SB4	F202_25.9 S2 MX2SB4	498	F202_25.9 P80 BE80B4	F202_25.9 P80 BX80B4	499
55	122	1.1	25.8	2470	F102_25.8 S2 ME2SB4	F102_25.8 S2 MX2SB4	494	F102_25.8 P80 BE80B4	F102_25.8 P80 BX80B4	495
60	113	3.5	23.8	4210	F252_23.8 S2 ME2SB4	F252_23.8 S2 MX2SB4	502	F252_23.8 P80 BE80B4	F252_23.8 P80 BX80B4	503
62	110	2.1	23.1	2930	F202_23.1 S2 ME2SB4	F202_23.1 S2 MX2SB4	498	F202_23.1 P80 BE80B4	F202_23.1 P80 BX80B4	499
63	108	1.3	22.8	2400	F102_22.8 S2 ME2SB4	F102_22.8 S2 MX2SB4	494	F102_22.8 P80 BE80B4	F102_22.8 P80 BX80B4	495
71	96	2.3	20.2	2830	F202_20.2 S2 ME2SB4	F202_20.2 S2 MX2SB4	498	F202_20.2 P80 BE80B4	F202_20.2 P80 BX80B4	499
74	92	1.5	19.3	2310	F102_19.3 S2 ME2SB4	F102_19.3 S2 MX2SB4	494	F102_19.3 P80 BE80B4	F102_19.3 P80 BX80B4	495
79	86	2.5	18.1	2740	F202_18.1 S2 ME2SB4	F202_18.1 S2 MX2SB4	498	F202_18.1 P80 BE80B4	F202_18.1 P80 BX80B4	499
84	81	1.6	17.0	2230	F102_17.0 S2 ME2SB4	F102_17.0 S2 MX2SB4	494	F102_17.0 P80 BE80B4	F102_17.0 P80 BX80B4	495
97	70	2.9	14.8	2600	F202_14.8 S2 ME2SB4	F202_14.8 S2 MX2SB4	498	F202_14.8 P80 BE80B4	F202_14.8 P80 BX80B4	499
98	70	1.7	14.6	2150	F102_14.6 S2 ME2SB4	F102_14.6 S2 MX2SB4	494	F102_14.6 P80 BE80B4	F102_14.6 P80 BX80B4	495
110	62	1.7	13.0	2070	F102_13.0 S2 ME2SB4	F102_13.0 S2 MX2SB4	494	F102_13.0 P80 BE80B4	F102_13.0 P80 BX80B4	495
124	55	1.8	11.5	2010	F102_11.5 S2 ME2SB4	F102_11.5 S2 MX2SB4	494	F102_11.5 P80 BE80B4	F102_11.5 P80 BX80B4	495
146	46	1.9	9.8	1920	F102_9.8 S2 ME2SB4	F102_9.8 S2 MX2SB4	494	F102_9.8 P80 BE80B4	F102_9.8 P80 BX80B4	495
167	41	2.0	8.6	1850	F102_8.6 S2 ME2SB4	F102_8.6 S2 MX2SB4	494	F102_8.6 P80 BE80B4	F102_8.6 P80 BX80B4	495
193	35	2.2	7.4	1770	F102_7.4 S2 ME2SB4	F102_7.4 S2 MX2SB4	494	F102_7.4 P80 BE80B4	F102_7.4 P80 BX80B4	495
195	35	2.7	14.6	1770	F102_14.6 S2 ME2SA2		494	F102_14.6 P80 BE80A2		495
219	31	2.7	13.0	1710	F102_13.0 S2 ME2SA2		494	F102_13.0 P80 BE80A2		495
247	28	2.8	11.5	1650	F102_11.5 S2 ME2SA2		494	F102_11.5 P80 BE80A2		495
292	23	3.1	9.8	1570	F102_9.8 S2 ME2SA2		494	F102_9.8 P80 BE80A2		495
332	20.5	3.2	8.6	1510	F102_8.6 S2 ME2SA2		494	F102_8.6 P80 BE80A2		495
385	17.7	3.6	7.4	1440	F102_7.4 S2 ME2SA2		494	F102_7.4 P80 BE80A2		495

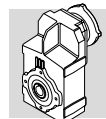
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n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE3	IEC	IE3
0.68	9444	1.5	2098.7	55000		F904_2099 P80 BXN80MB4	529
0.72	8941	0.9	1986.8	45000		F804_1987 P80 BXN80MB4	526
0.74	8718	1.6	1937.3	55000		F904_1937 P80 BXN80MB4	529
0.78	8253	1.0	1834.0	45000		F804_1834 P80 BXN80MB4	526
0.84	7691	1.0	1709.1	45000		F804_1709 P80 BXN80MB4	526
0.84	7660	1.8	1702.3	55000		F904_1702 P80 BXN80MB4	529
0.91	7099	1.1	1577.6	45000		F804_1578 P80 BXN80MB4	526
0.91	7071	2.0	1571.4	55000		F904_1571 P80 BXN80MB4	529
1.0	6426	2.2	1427.9	55000		F904_1428 P80 BXN80MB4	529
1.0	6227	1.3	1383.8	45000		F804_1384 P80 BXN80MB4	526
1.1	5931	2.4	1318.1	55000		F904_1318 P80 BXN80MB4	529
1.1	5748	1.4	1277.3	45000		F804_1277 P80 BXN80MB4	526
1.2	5422	2.6	1204.9	55000		F904_1205 P80 BXN80MB4	529
1.2	5318	0.9	1181.8	35000		F704_1182 P80 BXN80MB4	523



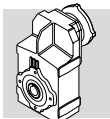
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
1.2	5158	1.6	1146.2	45000		F804_1146 P80 BXN80MB4 526
1.3	5005	2.8	1112.3	55000		F904_1112 P80 BXN80MB4 529
1.3	4909	1.0	1090.9	35000		F704_1091 P80 BXN80MB4 523
1.4	4761	1.7	1058.1	45000		F804_1058 P80 BXN80MB4 526
1.5	4437	3.2	986.0	55000		F904_986.0 P80 BXN80MB4 529
1.5	4385	1.1	974.4	35000		F704_974.4 P80 BXN80MB4 523
1.5	4374	1.8	972.0	45000		F804_972.0 P80 BXN80MB4 526
1.6	4096	3.4	910.2	55000		F904_910.2 P80 BXN80MB4 529
1.6	4047	1.2	899.4	35000		F704_899.4 P80 BXN80MB4 523
1.6	4038	2.0	897.3	45000		F804_897.3 P80 BXN80MB4 526
1.7	3700	1.4	822.2	35000		F704_822.2 P80 BXN80MB4 523
1.8	3485	2.3	774.4	45000		F804_774.4 P80 BXN80MB4 526
1.9	3415	1.5	759.0	35000		F704_759.0 P80 BXN80MB4 523
2.0	3217	2.5	714.9	45000		F804_714.9 P80 BXN80MB4 526
2.2	2981	1.0	662.4	20000		F604_662.4 P80 BXN80MB4 519
2.2	2958	1.7	657.4	35000		F704_657.4 P80 BXN80MB4 523
2.3	2751	1.1	611.4	20000		F604_611.4 P80 BXN80MB4 519
2.3	2749	2.9	610.9	45000		F804_610.9 P80 BXN80MB4 526
2.4	2731	1.8	606.8	35000		F704_606.8 P80 BXN80MB4 523
2.5	2537	3.2	563.9	45000		F804_563.9 P80 BXN80MB4 526
2.7	2388	1.2	530.7	20000		F604_530.7 P80 BXN80MB4 519
2.8	2297	2.2	510.4	35000		F704_510.4 P80 BXN80MB4 523
2.9	2204	1.3	489.8	20000		F604_489.8 P80 BXN80MB4 519
3.0	2120	2.4	471.2	35000		F704_471.2 P80 BXN80MB4 523
3.3	1947	1.5	432.6	20000		F604_432.6 P80 BXN80MB4 519
3.3	1931	0.9	429.1	12000		F514_429.1 P80 BXN80MB4 515
3.5	1816	2.8	403.5	35000		F704_403.5 P80 BXN80MB4 523
3.6	1797	1.6	399.3	20000		F604_399.3 P80 BXN80MB4 519
3.8	1676	3.0	372.5	35000		F704_372.5 P80 BXN80MB4 523
4.1	1639	1.1	352.5	12000		F513_352.5 P80 BXN80MB4 515
4.2	1538	1.9	341.7	20000		F604_341.7 P80 BXN80MB4 519
4.5	1475	1.2	317.3	12000		F513_317.3 P80 BXN80MB4 515
4.5	1419	2.0	315.4	20000		F604_315.4 P80 BXN80MB4 519
4.7	1370	3.7	304.3	35000		F704_304.3 P80 BXN80MB4 523
5.0	1330	1.4	285.9	12000		F513_285.9 P80 BXN80MB4 515
5.1	1305	2.2	280.7	20000		F603_280.7 P80 BXN80MB4 519
5.5	1219	1.5	262.1	12000		F513_262.1 P80 BXN80MB4 515
5.5	1205	2.4	259.1	20000		F603_259.1 P80 BXN80MB4 519
6.0	1117	1.0	240.1	8500		F413_240.1 P80 BXN80MB4 511
6.0	1115	1.6	239.8	12000		F513_239.8 P80 BXN80MB4 515
6.1	1096	2.6	235.8	20000		F603_235.8 P80 BXN80MB4 519
6.5	1024	1.1	220.1	8500		F413_220.1 P80 BXN80MB4 511
6.6	1012	2.9	217.6	20000		F603_217.6 P80 BXN80MB4 519
6.6	1008	1.8	216.9	12000		F513_216.9 P80 BXN80MB4 515
7.1	941	1.9	202.4	12000		F513_202.4 P80 BXN80MB4 515
7.1	936	3.1	201.4	20000		F603_201.4 P80 BXN80MB4 519
7.2	925	1.2	198.9	8500		F413_198.9 P80 BXN80MB4 511
7.7	864	3.4	185.9	20000		F603_185.9 P80 BXN80MB4 519
7.9	840	1.3	180.7	8500		F413_180.7 P80 BXN80MB4 511
8.5	784	1.4	168.7	8500		F413_168.7 P80 BXN80MB4 511
8.6	770	2.3	165.6	12000		F513_165.6 P80 BXN80MB4 515
8.8	757	3.8	162.9	20000		F603_162.9 P80 BXN80MB4 519
10.2	654	0.9	140.7	6500		F313_140.7 P80 BXN80MB4 507
10.6	625	1.8	134.4	8500		F413_134.4 P80 BXN80MB4 511
11.0	604	3.0	129.9	12000		F513_129.9 P80 BXN80MB4 515
11.1	597	1.0	128.4	6500		F313_128.4 P80 BXN80MB4 507
12.7	523	1.1	112.5	6500		F313_112.5 P80 BXN80MB4 507



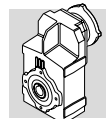
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
13.5	493	2.2	106.0	8500		F413_106.0 P80 BXN80MB4 511
14.0	474	1.3	101.9	6500		F313_101.9 P80 BXN80MB4 507
15.0	444	0.9	95.5	5450		F253_95.5 P80 BXN80MB4 503
16.4	406	1.5	87.4	6500		F313_87.4 P80 BXN80MB4 507
16.8	395	2.8	84.9	8500		F413_84.9 P80 BXN80MB4 511
17.1	388	1.0	83.4	5350	F253_83.4 SX20 MXN20MB4 502	F253_83.4 P80 BXN80MB4 503
18.1	367	1.6	78.9	6500		F313_78.9 P80 BXN80MB4 507
18.7	356	1.1	76.6	5300	F253_76.6 SX20 MXN20MB4 502	F253_76.6 P80 BXN80MB4 503
20.7	321	1.9	69.1	6500		F313_69.1 P80 BXN80MB4 507
21.5	309	3.6	66.5	8500		F413_66.5 P80 BXN80MB4 511
21.9	304	1.3	65.3	5180	F253_65.3 SX20 MXN20MB4 502	F253_65.3 P80 BXN80MB4 503
22.8	292	2.1	62.8	6500		F313_62.8 P80 BXN80MB4 507
24.5	271	1.5	58.3	5080	F253_58.3 SX20 MXN20MB4 502	F253_58.3 P80 BXN80MB4 503
25.2	269	0.9	56.7	3590	F202_56.7 SX20 MXN20MB4 498	F202_56.7 P80 BXN80MB4 499
27.5	242	2.5	52.1	6500		F313_52.1 P80 BXN80MB4 507
28.2	236	1.7	50.8	4960	F253_50.8 SX20 MXN20MB4 502	F253_50.8 P80 BXN80MB4 503
28.2	241	1.0	50.7	3510	F202_50.7 SX20 MXN20MB4 498	F202_50.7 P80 BXN80MB4 499
30	221	2.6	47.5	6500		F313_47.5 P80 BXN80MB4 507
31	212	1.9	45.6	4860	F253_45.6 SX20 MXN20MB4 502	F253_45.6 P80 BXN80MB4 503
32	213	1.2	44.8	3420	F202_44.8 SX20 MXN20MB4 498	F202_44.8 P80 BXN80MB4 499
32	212	2.8	44.6	6500		F312_44.6 P80 BXN80MB4 507
32	211	1.8	44.4	4890	F252_44.4 SX20 MXN20MB4 502	F252_44.4 P80 BXN80MB4 503
34	199	1.3	41.8	3370	F202_41.8 SX20 MXN20MB4 498	F202_41.8 P80 BXN80MB4 499
35	193	1.9	40.7	4790	F252_40.7 SX20 MXN20MB4 502	F252_40.7 P80 BXN80MB4 503
35	192	3.1	40.4	6500		F312_40.4 P80 BXN80MB4 507
38	180	1.4	37.9	3300	F202_37.9 SX20 MXN20MB4 498	F202_37.9 P80 BXN80MB4 499
38	179	3.4	37.7	6500		F312_37.7 P80 BXN80MB4 507
39	173	2.3	36.4	4680	F252_36.4 SX20 MXN20MB4 502	F252_36.4 P80 BXN80MB4 503
43	157	1.6	33.1	3200	F202_33.1 SX20 MXN20MB4 498	F202_33.1 P80 BXN80MB4 499
44	153	2.6	32.2	4540	F252_32.2 SX20 MXN20MB4 502	F252_32.2 P80 BXN80MB4 503
47	144	1.7	30.4	3140	F202_30.4 SX20 MXN20MB4 498	F202_30.4 P80 BXN80MB4 499
48	143	2.8	30.0	4470	F252_30.0 SX20 MXN20MB4 502	F252_30.0 P80 BXN80MB4 503
48	141	1.0	29.6	2550	F102_29.6 SX20 MXN20MB4 494	F102_29.6 P80 BXN80MB4 495
53	129	3.1	27.2	4360	F252_27.2 SX20 MXN20MB4 502	F252_27.2 P80 BXN80MB4 503
55	123	1.9	25.9	3020	F202_25.9 SX20 MXN20MB4 498	F202_25.9 P80 BXN80MB4 499
55	122	1.1	25.8	2470	F102_25.8 SX20 MXN20MB4 494	F102_25.8 P80 BXN80MB4 495
60	113	3.5	23.8	4210	F252_23.8 SX20 MXN20MB4 502	F252_23.8 P80 BXN80MB4 503
62	110	2.1	23.1	2930	F202_23.1 SX20 MXN20MB4 498	F202_23.1 P80 BXN80MB4 499
63	108	1.3	22.8	2400	F102_22.8 SX20 MXN20MB4 494	F102_22.8 P80 BXN80MB4 495
71	96	2.3	20.2	2830	F202_20.2 SX20 MXN20MB4 498	F202_20.2 P80 BXN80MB4 499
74	92	1.5	19.3	2310	F102_19.3 SX20 MXN20MB4 494	F102_19.3 P80 BXN80MB4 495
79	86	2.5	18.1	2740	F202_18.1 SX20 MXN20MB4 498	F202_18.1 P80 BXN80MB4 499
84	81	1.6	17.0	2230	F102_17.0 SX20 MXN20MB4 494	F102_17.0 P80 BXN80MB4 495
97	70	2.9	14.8	2600	F202_14.8 SX20 MXN20MB4 498	F202_14.8 P80 BXN80MB4 499
98	70	1.7	14.6	2150	F102_14.6 SX20 MXN20MB4 494	F102_14.6 P80 BXN80MB4 495
110	62	1.7	13.0	2070	F102_13.0 SX20 MXN20MB4 494	F102_13.0 P80 BXN80MB4 495
124	55	1.8	11.5	2010	F102_11.5 SX20 MXN20MB4 494	F102_11.5 P80 BXN80MB4 495
146	46	1.9	9.8	1920	F102_9.8 SX20 MXN20MB4 494	F102_9.8 P80 BXN80MB4 495
167	41	2.0	8.6	1850	F102_8.6 SX20 MXN20MB4 494	F102_8.6 P80 BXN80MB4 495
193	35	2.2	7.4	1770	F102_7.4 SX20 MXN20MB4 494	F102_7.4 P80 BXN80MB4 495



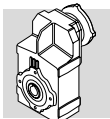
1.1 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IE2	IE3
0.60	15694	0.9	1571.4	55000	F904_1571 S3 ME3LA6		F904_1571 P100 BE100M6	
0.66	14285	1.0	1427.9	55000	F904_1428 S3 ME3LA6		F904_1428 P100 BE100M6	
0.68	13977	1.0	2098.7	55000	F904_2099 S3 ME3SA4	F904_2099 S3 MX3SA4	F904_2099 P90 BE90S4	F904_2099 P90 BX90S4
0.74	12902	1.1	1937.3	55000	F904_1937 S3 ME3SA4	F904_1937 S3 MX3SA4	F904_1937 P90 BE90S4	F904_1937 P90 BX90S4
0.84	11337	1.2	1702.3	55000	F904_1702 S3 ME3SA4	F904_1702 S3 MX3SA4	F904_1702 P90 BE90S4	F904_1702 P90 BX90S4
0.91	10465	1.3	1571.4	55000	F904_1571 S3 ME3SA4	F904_1571 S3 MX3SA4	F904_1571 P90 BE90S4	F904_1571 P90 BX90S4
1.0	9510	1.5	1427.9	55000	F904_1428 S3 ME3SA4	F904_1428 S3 MX3SA4	F904_1428 P90 BE90S4	F904_1428 P90 BX90S4
1.1	8778	1.6	1318.1	55000	F904_1318 S3 ME3SA4	F904_1318 S3 MX3SA4	F904_1318 P90 BE90S4	F904_1318 P90 BX90S4
1.1	8507	0.9	1277.3	45000	F804_1277 S3 ME3SA4	F804_1277 S3 MX3SA4	F804_1277 P90 BE90S4	F804_1277 P90 BX90S4
1.2	8025	1.7	1204.9	55000	F904_1205 S3 ME3SA4	F904_1205 S3 MX3SA4	F904_1205 P90 BE90S4	F904_1205 P90 BX90S4
1.2	7634	1.0	1146.2	45000	F804_1146 S3 ME3SA4	F804_1146 S3 MX3SA4	F804_1146 P90 BE90S4	F804_1146 P90 BX90S4
1.3	7408	1.9	1112.3	55000	F904_1112 S3 ME3SA4	F904_1112 S3 MX3SA4	F904_1112 P90 BE90S4	F904_1112 P90 BX90S4
1.4	7047	1.1	1058.1	45000	F804_1058 S3 ME3SA4	F804_1058 S3 MX3SA4	F804_1058 P90 BE90S4	F804_1058 P90 BX90S4
1.5	6567	2.1	986.0	55000	F904_986.0 S3 ME3SA4	F904_986.0 S3 MX3SA4	F904_986.0 P90 BE90S4	F904_986.0 P90 BX90S4
1.5	6474	1.2	972.0	45000	F804_972.0 S3 ME3SA4	F804_972.0 S3 MX3SA4	F804_972.0 P90 BE90S4	F804_972.0 P90 BX90S4
1.6	6062	2.3	910.2	55000	F904_910.2 S3 ME3SA4	F904_910.2 S3 MX3SA4	F904_910.2 P90 BE90S4	F904_910.2 P90 BX90S4
1.6	5976	1.3	897.3	45000	F804_897.3 S3 ME3SA4	F804_897.3 S3 MX3SA4	F804_897.3 P90 BE90S4	F804_897.3 P90 BX90S4
1.7	5476	0.9	822.2	35000	F704_822.2 S3 ME3SA4	F704_822.2 S3 MX3SA4	F704_822.2 P90 BE90S4	F704_822.2 P90 BX90S4
1.8	5158	1.6	774.4	45000	F804_774.4 S3 ME3SA4	F804_774.4 S3 MX3SA4	F804_774.4 P90 BE90S4	F804_774.4 P90 BX90S4
1.8	5151	2.7	773.4	55000	F904_773.4 S3 ME3SA4	F904_773.4 S3 MX3SA4	F904_773.4 P90 BE90S4	F904_773.4 P90 BX90S4
1.9	5055	1.0	759.0	35000	F704_759.0 S3 ME3SA4	F704_759.0 S3 MX3SA4	F704_759.0 P90 BE90S4	F704_759.0 P90 BX90S4
1.9	4893	1.6	489.1	45000	F804_489.1 S3 ME3LA6		F804_489.1 P100 BE100M6	
2.0	4761	1.7	714.9	45000	F804_714.9 S3 ME3SA4	F804_714.9 S3 MX3SA4	F804_714.9 P90 BE90S4	F804_714.9 P90 BX90S4
2.0	4755	2.9	714.0	55000	F904_714.0 S3 ME3SA4	F904_714.0 S3 MX3SA4	F904_714.0 P90 BE90S4	F904_714.0 P90 BX90S4
2.1	4517	1.8	451.5	45000	F804_451.5 S3 ME3LA6		F804_451.5 P100 BE100M6	
2.2	4378	1.1	657.4	35000	F704_657.4 S3 ME3SA4	F704_657.4 S3 MX3SA4	F704_657.4 P90 BE90S4	F704_657.4 P90 BX90S4
2.3	4167	3.4	625.6	55000	F904_625.6 S3 ME3SA4	F904_625.6 S3 MX3SA4	F904_625.6 P90 BE90S4	F904_625.6 P90 BX90S4
2.3	4068	2.0	610.9	45000	F804_610.9 S3 ME3SA4	F804_610.9 S3 MX3SA4	F804_610.9 P90 BE90S4	F804_610.9 P90 BX90S4
2.4	4042	1.2	606.8	35000	F704_606.8 S3 ME3SA4	F704_606.8 S3 MX3SA4	F704_606.8 P90 BE90S4	F704_606.8 P90 BX90S4
2.5	3846	3.6	577.5	55000	F904_577.5 S3 ME3SA4	F904_577.5 S3 MX3SA4	F904_577.5 P90 BE90S4	F904_577.5 P90 BX90S4
2.5	3755	2.1	563.9	45000	F804_563.9 S3 ME3SA4	F804_563.9 S3 MX3SA4	F804_563.9 P90 BE90S4	F804_563.9 P90 BX90S4
2.8	3399	1.5	510.4	35000	F704_510.4 S3 ME3SA4	F704_510.4 S3 MX3SA4	F704_510.4 P90 BE90S4	F704_510.4 P90 BX90S4
2.9	3262	0.9	489.8	20000	F604_489.8 S3 ME3SA4	F604_489.8 S3 MX3SA4	F604_489.8 P90 BE90S4	F604_489.8 P90 BX90S4
2.9	3258	2.5	489.1	45000	F804_489.1 S3 ME3SA4	F804_489.1 S3 MX3SA4	F804_489.1 P90 BE90S4	F804_489.1 P90 BX90S4
3.0	3138	1.6	471.2	35000	F704_471.2 S3 ME3SA4	F704_471.2 S3 MX3SA4	F704_471.2 P90 BE90S4	F704_471.2 P90 BX90S4
3.2	3007	2.7	451.5	45000	F804_451.5 S3 ME3SA4	F804_451.5 S3 MX3SA4	F804_451.5 P90 BE90S4	F804_451.5 P90 BX90S4
3.3	2881	1.0	432.6	20000	F604_432.6 S3 ME3SA4	F604_432.6 S3 MX3SA4	F604_432.6 P90 BE90S4	F604_432.6 P90 BX90S4
3.5	2687	1.9	403.5	35000	F704_403.5 S3 ME3SA4	F704_403.5 S3 MX3SA4	F704_403.5 P90 BE90S4	F704_403.5 P90 BX90S4
3.6	2660	1.1	399.3	20000	F604_399.3 S3 ME3SA4	F604_399.3 S3 MX3SA4	F604_399.3 P90 BE90S4	F604_399.3 P90 BX90S4
3.7	2552	3.1	383.2	45000	F804_383.2 S3 ME3SA4	F804_383.2 S3 MX3SA4	F804_383.2 P90 BE90S4	F804_383.2 P90 BX90S4
3.8	2481	2.0	372.5	35000	F704_372.5 S3 ME3SA4	F704_372.5 S3 MX3SA4	F704_372.5 P90 BE90S4	F704_372.5 P90 BX90S4
4.0	2356	3.4	353.7	45000	F804_353.7 S3 ME3SA4	F804_353.7 S3 MX3SA4	F804_353.7 P90 BE90S4	F804_353.7 P90 BX90S4
4.2	2276	1.3	341.7	20000	F604_341.7 S3 ME3SA4	F604_341.7 S3 MX3SA4	F604_341.7 P90 BE90S4	F604_341.7 P90 BX90S4
4.5	2100	1.4	315.4	20000	F604_315.4 S3 ME3SA4	F604_315.4 S3 MX3SA4	F604_315.4 P90 BE90S4	F604_315.4 P90 BX90S4
4.7	2027	2.5	304.3	35000	F704_304.3 S3 ME3SA4	F704_304.3 S3 MX3SA4	F704_304.3 P90 BE90S4	F704_304.3 P90 BX90S4
5.0	1968	0.9	285.9	12000	F513_285.9 S3 ME3SA4	F513_285.9 S3 MX3SA4	F513_285.9 P90 BE90S4	F513_285.9 P90 BX90S4
5.1	1871	2.7	280.9	35000	F704_280.9 S3 ME3SA4	F704_280.9 S3 MX3SA4	F704_280.9 P90 BE90S4	F704_280.9 P90 BX90S4
5.1	1932	1.5	280.7	20000	F603_280.7 S3 ME3SA4	F603_280.7 S3 MX3SA4	F603_280.7 P90 BE90S4	F603_280.7 P90 BX90S4
5.5	1804	1.0	262.1	12000	F513_262.1 S3 ME3SA4	F513_262.1 S3 MX3SA4	F513_262.1 P90 BE90S4	F513_262.1 P90 BX90S4
5.5	1783	1.6	259.1	20000	F603_259.1 S3 ME3SA4	F603_259.1 S3 MX3SA4	F603_259.1 P90 BE90S4	F603_259.1 P90 BX90S4
6.0	1651	1.1	239.8	12000	F513_239.8 S3 ME3SA4	F513_239.8 S3 MX3SA4	F513_239.8 P90 BE90S4	F513_239.8 P90 BX90S4
6.1	1623	1.8	235.8	20000	F603_235.8 S3 ME3SA4	F603_235.8 S3 MX3SA4	F603_235.8 P90 BE90S4	F603_235.8 P90 BX90S4
6.1	1562	3.2	234.6	35000	F704_234.6 S3 ME3SA4	F704_234.6 S3 MX3SA4	F704_234.6 P90 BE90S4	F704_234.6 P90 BX90S4
6.6	1498	1.9	217.6	20000	F603_217.6 S3 ME3SA4	F603_217.6 S3 MX3SA4	F603_217.6 P90 BE90S4	F603_217.6 P90 BX90S4
6.6	1492	1.2	216.9	12000	F513_216.9 S3 ME3SA4	F513_216.9 S3 MX3SA4	F513_216.9 P90 BE90S4	F513_216.9 P90 BX90S4
6.6	1442	3.5	216.5	35000	F704_216.5 S3 ME3SA4	F704_216.5 S3 MX3SA4	F704_216.5 P90 BE90S4	F704_216.5 P90 BX90S4
7.1	1393	1.3	202.4	12000	F513_202.4 S3 ME3SA4	F513_202.4 S3 MX3SA4	F513_202.4 P90 BE90S4	F513_202.4 P90 BX90S4



1.1 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC	IE2	IE3
7.1	1386	2.1	201.4	20000	F603_201.4 S3 ME3SA4	F603_201.4 S3 MX3SA4	518	F603_201.4 P90 BE90S4	F603_201.4 P90 BX90S4
7.7	1279	2.3	185.9	20000	F603_185.9 S3 ME3SA4	F603_185.9 S3 MX3SA4	518	F603_185.9 P90 BE90S4	F603_185.9 P90 BX90S4
7.9	1244	0.9	180.7	8500	F413_180.7 S3 ME3SA4	F413_180.7 S3 MX3SA4	510	F413_180.7 P90 BE90S4	F413_180.7 P90 BX90S4
8.5	1161	0.9	168.7	8500	F413_168.7 S3 ME3SA4	F413_168.7 S3 MX3SA4	510	F413_168.7 P90 BE90S4	F413_168.7 P90 BX90S4
8.6	1140	1.6	165.6	12000	F513_165.6 S3 ME3SA4	F513_165.6 S3 MX3SA4	514	F513_165.6 P90 BE90S4	F513_165.6 P90 BX90S4
8.8	1121	2.6	162.9	20000	F603_162.9 S3 ME3SA4	F603_162.9 S3 MX3SA4	518	F603_162.9 P90 BE90S4	F603_162.9 P90 BX90S4
9.5	1035	2.8	150.4	20000	F603_150.4 S3 ME3SA4	F603_150.4 S3 MX3SA4	518	F603_150.4 P90 BE90S4	F603_150.4 P90 BX90S4
10.6	925	1.2	134.4	8500	F413_134.4 S3 ME3SA4	F413_134.4 S3 MX3SA4	510	F413_134.4 P90 BE90S4	F413_134.4 P90 BX90S4
11.0	894	2.0	129.9	12000	F513_129.9 S3 ME3SA4	F513_129.9 S3 MX3SA4	514	F513_129.9 P90 BE90S4	F513_129.9 P90 BX90S4
13.5	730	1.5	106.0	8500	F413_106.0 S3 ME3SA4	F413_106.0 S3 MX3SA4	510	F413_106.0 P90 BE90S4	F413_106.0 P90 BX90S4
13.6	723	2.5	105.1	12000	F513_105.1 S3 ME3SA4	F513_105.1 S3 MX3SA4	514	F513_105.1 P90 BE90S4	F513_105.1 P90 BX90S4
16.4	601	1.0	87.4	6500	F313_87.4 S3 ME3SA4	F313_87.4 S3 MX3SA4	506	F313_87.4 P90 BE90S4	F313_87.4 P90 BX90S4
16.8	584	1.9	84.9	8500	F413_84.9 S3 ME3SA4	F413_84.9 S3 MX3SA4	510	F413_84.9 P90 BE90S4	F413_84.9 P90 BX90S4
17.2	573	3.1	83.2	12000	F513_83.2 S3 ME3SA4	F513_83.2 S3 MX3SA4	514	F513_83.2 P90 BE90S4	F513_83.2 P90 BX90S4
18.1	543	1.1	78.9	6500	F313_78.9 S3 ME3SA4	F313_78.9 S3 MX3SA4	506	F313_78.9 P90 BE90S4	F313_78.9 P90 BX90S4
20.7	475	1.3	69.1	6500	F313_69.1 S3 ME3SA4	F313_69.1 S3 MX3SA4	506	F313_69.1 P90 BE90S4	F313_69.1 P90 BX90S4
21.5	458	2.4	66.5	8500	F413_66.5 S3 ME3SA4	F413_66.5 S3 MX3SA4	510	F413_66.5 P90 BE90S4	F413_66.5 P90 BX90S4
21.9	450	0.9	65.3	4610	F253_65.3 S3 ME3SA4	F253_65.3 S3 MX3SA4	502	F253_65.3 P90 BE90S4	F253_65.3 P90 BX90S4
22.8	432	1.4	62.8	6500	F313_62.8 S3 ME3SA4	F313_62.8 S3 MX3SA4	506	F313_62.8 P90 BE90S4	F313_62.8 P90 BX90S4
23.7	415	2.7	60.2	8500	F413_60.2 S3 ME3SA4	F413_60.2 S3 MX3SA4	510	F413_60.2 P90 BE90S4	F413_60.2 P90 BX90S4
24.5	401	1.0	58.3	4500	F253_58.3 S3 ME3SA4	F253_58.3 S3 MX3SA4	502	F253_58.3 P90 BE90S4	F253_58.3 P90 BX90S4
27.5	359	1.7	52.1	6500	F313_52.1 S3 ME3SA4	F313_52.1 S3 MX3SA4	506	F313_52.1 P90 BE90S4	F313_52.1 P90 BX90S4
27.8	354	3.1	51.5	8500	F413_51.5 S3 ME3SA4	F413_51.5 S3 MX3SA4	510	F413_51.5 P90 BE90S4	F413_51.5 P90 BX90S4
28.2	350	1.1	50.8	4450	F253_50.8 S3 ME3SA4	F253_50.8 S3 MX3SA4	502	F253_50.8 P90 BE90S4	F253_50.8 P90 BX90S4
29.8	337	3.2	47.9	8500	F412_47.9 S3 ME3SA4	F412_47.9 S3 MX3SA4	510	F412_47.9 P90 BE90S4	F412_47.9 P90 BX90S4
30	327	1.8	47.5	6500	F313_47.5 S3 ME3SA4	F313_47.5 S3 MX3SA4	506	F313_47.5 P90 BE90S4	F313_47.5 P90 BX90S4
31	314	1.3	45.6	4400	F253_45.6 S3 ME3SA4	F253_45.6 S3 MX3SA4	502	F253_45.6 P90 BE90S4	F253_45.6 P90 BX90S4
32	314	1.9	44.6	6500	F312_44.6 S3 ME3SA4	F312_44.6 S3 MX3SA4	506	F312_44.6 P90 BE90S4	F312_44.6 P90 BX90S4
32	312	1.2	44.4	4470	F252_44.4 S3 ME3SA4	F252_44.4 S3 MX3SA4	502	F252_44.4 P90 BE90S4	F252_44.4 P90 BX90S4
35	286	1.3	40.7	4410	F252_40.7 S3 ME3SA4	F252_40.7 S3 MX3SA4	502	F252_40.7 P90 BE90S4	F252_40.7 P90 BX90S4
35	284	2.1	40.4	6500	F312_40.4 S3 ME3SA4	F312_40.4 S3 MX3SA4	506	F312_40.4 P90 BE90S4	F312_40.4 P90 BX90S4
38	266	0.9	37.9	3050	F202_37.9 S3 ME3SA4	F202_37.9 S3 MX3SA4	498	F202_37.9 P90 BE90S4	F202_37.9 P90 BX90S4
38	265	2.3	37.7	6500	F312_37.7 S3 ME3SA4	F312_37.7 S3 MX3SA4	506	F312_37.7 P90 BE90S4	F312_37.7 P90 BX90S4
39	256	1.6	36.4	4330	F252_36.4 S3 ME3SA4	F252_36.4 S3 MX3SA4	502	F252_36.4 P90 BE90S4	F252_36.4 P90 BX90S4
42	242	2.5	34.4	6500	F312_34.4 S3 ME3SA4	F312_34.4 S3 MX3SA4	506	F312_34.4 P90 BE90S4	F312_34.4 P90 BX90S4
43	233	1.1	33.1	2980	F202_33.1 S3 ME3SA4	F202_33.1 S3 MX3SA4	498	F202_33.1 P90 BE90S4	F202_33.1 P90 BX90S4
44	226	1.8	32.2	4240	F252_32.2 S3 ME3SA4	F252_32.2 S3 MX3SA4	502	F252_32.2 P90 BE90S4	F252_32.2 P90 BX90S4
47	214	1.2	30.4	2930	F202_30.4 S3 ME3SA4	F202_30.4 S3 MX3SA4	498	F202_30.4 P90 BE90S4	F202_30.4 P90 BX90S4
47	212	2.8	30.1	6500	F312_30.1 S3 ME3SA4	F312_30.1 S3 MX3SA4	506	F312_30.1 P90 BE90S4	F312_30.1 P90 BX90S4
48	211	1.9	30.0	4190	F252_30.0 S3 ME3SA4	F252_30.0 S3 MX3SA4	502	F252_30.0 P90 BE90S4	F252_30.0 P90 BX90S4
52	192	3.1	27.3	6500	F312_27.3 S3 ME3SA4	F312_27.3 S3 MX3SA4	506	F312_27.3 P90 BE90S4	F312_27.3 P90 BX90S4
53	191	2.1	27.2	4100	F252_27.2 S3 ME3SA4	F252_27.2 S3 MX3SA4	502	F252_27.2 P90 BE90S4	F252_27.2 P90 BX90S4
55	182	1.3	25.9	2840	F202_25.9 S3 ME3SA4	F202_25.9 S3 MX3SA4	498	F202_25.9 P90 BE90S4	F202_25.9 P90 BX90S4
60	167	2.4	23.8	3990	F252_23.8 S3 ME3SA4	F252_23.8 S3 MX3SA4	502	F252_23.8 P90 BE90S4	F252_23.8 P90 BX90S4
62	163	1.4	23.1	2780	F202_23.1 S3 ME3SA4	F202_23.1 S3 MX3SA4	498	F202_23.1 P90 BE90S4	F202_23.1 P90 BX90S4
66	153	2.6	21.8	3920	F252_21.8 S3 ME3SA4	F252_21.8 S3 MX3SA4	502	F252_21.8 P90 BE90S4	F252_21.8 P90 BX90S4
71	142	1.6	20.2	2690	F202_20.2 S3 ME3SA4	F202_20.2 S3 MX3SA4	498	F202_20.2 P90 BE90S4	F202_20.2 P90 BX90S4
74	136	1.0	19.3	2170	F102_19.3 S3 ME3SA4	F102_19.3 S3 MX3SA4	494	F102_19.3 P90 BE90S4	F102_19.3 P90 BX90S4
77	131	3.1	18.6	3780	F252_18.6 S3 ME3SA4	F252_18.6 S3 MX3SA4	502	F252_18.6 P90 BE90S4	F252_18.6 P90 BX90S4
79	127	1.7	18.1	2620	F202_18.1 S3 ME3SA4	F202_18.1 S3 MX3SA4	498	F202_18.1 P90 BE90S4	F202_18.1 P90 BX90S4
84	119	1.1	17.0	2110	F102_17.0 S3 ME3SA4	F102_17.0 S3 MX3SA4	494	F102_17.0 P90 BE90S4	F102_17.0 P90 BX90S4
86	117	3.4	16.6	3670	F252_16.6 S3 ME3SA4	F252_16.6 S3 MX3SA4	502	F252_16.6 P90 BE90S4	F252_16.6 P90 BX90S4
97	104	2.0	14.8	2500	F202_14.8 S3 ME3SA4	F202_14.8 S3 MX3SA4	498	F202_14.8 P90 BE90S4	F202_14.8 P90 BX90S4
98	103	1.2	14.6	2050	F102_14.6 S3 ME3SA4	F102_14.6 S3 MX3SA4	494	F102_14.6 P90 BE90S4	F102_14.6 P90 BX90S4
110	92	1.1	13.0	1980	F102_13.0 S3 ME3SA4	F102_13.0 S3 MX3SA4	494	F102_13.0 P90 BE90S4	F102_13.0 P90 BX90S4
124	81	1.2	11.5	1920	F102_11.5 S3 ME3SA4	F102_11.5 S3 MX3SA4	494	F102_11.5 P90 BE90S4	F102_11.5 P90 BX90S4
127	79	2.2	11.2	2310	F202_11.2 S3 ME3SA4	F202_11.2 S3 MX3SA4	498	F202_11.2 P90 BE90S4	F202_11.2 P90 BX90S4

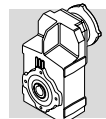


1.1 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				IEC		
					IE2	IE3		IE2	IE3	
143	71	2.3	10.0	2200	F202_10.0 S3 ME3SA4	F202_10.0 S3 MX3SA4	498	F202_10.0 P90 BE90S4	F202_10.0 P90 BX90S4	499
146	69	1.3	9.8	1840	F102_9.8 S3 ME3SA4	F102_9.8 S3 MX3SA4	494	F102_9.8 P90 BE90S4	F102_9.8 P90 BX90S4	495
164	61	2.5	8.7	2160	F202_8.7 S3 ME3SA4	F202_8.7 S3 MX3SA4	498	F202_8.7 P90 BE90S4	F202_8.7 P90 BX90S4	499
167	60	1.4	8.6	1780	F102_8.6 S3 ME3SA4	F102_8.6 S3 MX3SA4	494	F102_8.6 P90 BE90S4	F102_8.6 P90 BX90S4	495
183	55	2.6	7.8	2100	F202_7.8 S3 ME3SA4	F202_7.8 S3 MX3SA4	498	F202_7.8 P90 BE90S4	F202_7.8 P90 BX90S4	499
193	52	1.5	7.4	1720	F102_7.4 S3 ME3SA4	F102_7.4 S3 MX3SA4	494	F102_7.4 P90 BE90S4	F102_7.4 P90 BX90S4	495
223	45	2.9	6.4	1980	F202_6.4 S3 ME3SA4	F202_6.4 S3 MX3SA4	498	F202_6.4 P90 BE90S4	F202_6.4 P90 BX90S4	499
245	41	1.9	11.5	1600	F102_11.5S2ME2SB2		494	F102_11.5 P80 BE80B2		495
252	40	3.6	11.2	1910	F202_11.2S2ME2SB2		498	F202_11.2 P80 BE80B2		499
290	34	2.1	9.8	1530	F102_9.8S2ME2SB2		494	F102_9.8 P80 BE80B2		495
330	30	2.2	8.6	1480	F102_8.6S2ME2SB2		494	F102_8.6 P80 BE80B2		495
382	26	2.4	7.4	1410	F102_7.4S2ME2SB2		494	F102_7.4 P80 BE80B2		495

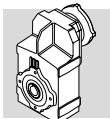
1.1 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE3	IEC	IE3
0.68	13977	1.0	2098.7	55000		F904_2099 P90 BXN90S4	529
0.74	12902	1.1	1937.3	55000		F904_1937 P90 BXN90S4	529
0.84	11337	1.2	1702.3	55000		F904_1702 P90 BXN90S4	529
0.91	10465	1.3	1571.4	55000		F904_1571 P90 BXN90S4	529
1.0	9510	1.5	1427.9	55000		F904_1428 P90 BXN90S4	529
1.1	8778	1.6	1318.1	55000		F904_1318 P90 BXN90S4	529
1.1	8507	0.9	1277.3	45000		F804_1277 P90 BXN90S4	526
1.2	8025	1.7	1204.9	55000		F904_1205 P90 BXN90S4	529
1.2	7634	1.0	1146.2	45000		F804_1146 P90 BXN90S4	526
1.3	7408	1.9	1112.3	55000		F904_1112 P90 BXN90S4	529
1.4	7047	1.1	1058.1	45000		F804_1058 P90 BXN90S4	526
1.5	6567	2.1	986.0	55000		F904_986.0 P90 BXN90S4	529
1.5	6474	1.2	972.0	45000		F804_972.0 P90 BXN90S4	526
1.6	6062	2.3	910.2	55000		F904_910.2 P90 BXN90S4	529
1.6	5976	1.3	897.3	45000		F804_897.3 P90 BXN90S4	526
1.7	5476	0.9	822.2	35000		F704_822.2 P90 BXN90S4	523
1.8	5158	1.6	774.4	45000		F804_774.4 P90 BXN90S4	526
1.8	5151	2.7	773.4	55000		F904_773.4 P90 BXN90S4	529
1.9	5055	1.0	759.0	35000		F704_759.0 P90 BXN90S4	523
1.9	4893	1.6	489.1	45000			
2.0	4761	1.7	714.9	45000		F804_714.9 P90 BXN90S4	526
2.0	4755	2.9	714.0	55000		F904_714.0 P90 BXN90S4	529
2.1	4517	1.8	451.5	45000			
2.2	4378	1.1	657.4	35000		F704_657.4 P90 BXN90S4	523
2.3	4167	3.4	625.6	55000		F904_625.6 P90 BXN90S4	529
2.3	4068	2.0	610.9	45000		F804_610.9 P90 BXN90S4	526
2.4	4042	1.2	606.8	35000		F704_606.8 P90 BXN90S4	523
2.5	3846	3.6	577.5	55000		F904_577.5 P90 BXN90S4	529
2.5	3755	2.1	563.9	45000		F804_563.9 P90 BXN90S4	526
2.8	3399	1.5	510.4	35000		F704_510.4 P90 BXN90S4	523
2.9	3262	0.9	489.8	20000		F604_489.8 P90 BXN90S4	519
2.9	3258	2.5	489.1	45000		F804_489.1 P90 BXN90S4	526
3.0	3138	1.6	471.2	35000		F704_471.2 P90 BXN90S4	523
3.2	3007	2.7	451.5	45000		F804_451.5 P90 BXN90S4	526
3.3	2881	1.0	432.6	20000		F604_432.6 P90 BXN90S4	519
3.5	2687	1.9	403.5	35000		F704_403.5 P90 BXN90S4	523



1.1 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
3.6	2660	1.1	399.3	20000		F604_399.3 P90 BXN90S4 519
3.7	2552	3.1	383.2	45000		F804_383.2 P90 BXN90S4 526
3.8	2481	2.0	372.5	35000		F704_372.5 P90 BXN90S4 523
4.0	2356	3.4	353.7	45000		F804_353.7 P90 BXN90S4 526
4.2	2276	1.3	341.7	20000		F604_341.7 P90 BXN90S4 519
4.5	2100	1.4	315.4	20000		F604_315.4 P90 BXN90S4 519
4.7	2027	2.5	304.3	35000		F704_304.3 P90 BXN90S4 523
5.0	1968	0.9	285.9	12000		F513_285.9 P90 BXN90S4 515
5.1	1871	2.7	280.9	35000		F704_280.9 P90 BXN90S4 523
5.1	1932	1.5	280.7	20000		F603_280.7 P90 BXN90S4 519
5.5	1804	1.0	262.1	12000		F513_262.1 P90 BXN90S4 515
5.5	1783	1.6	259.1	20000		F603_259.1 P90 BXN90S4 519
6.0	1651	1.1	239.8	12000		F513_239.8 P90 BXN90S4 515
6.1	1623	1.8	235.8	20000		F603_235.8 P90 BXN90S4 519
6.1	1562	3.2	234.6	35000		F704_234.6 P90 BXN90S4 523
6.6	1498	1.9	217.6	20000		F603_217.6 P90 BXN90S4 519
6.6	1492	1.2	216.9	12000		F513_216.9 P90 BXN90S4 515
6.6	1442	3.5	216.5	35000		F704_216.5 P90 BXN90S4 523
7.1	1393	1.3	202.4	12000		F513_202.4 P90 BXN90S4 515
7.1	1386	2.1	201.4	20000		F603_201.4 P90 BXN90S4 519
7.7	1279	2.3	185.9	20000		F603_185.9 P90 BXN90S4 519
7.9	1244	0.9	180.7	8500		F413_180.7 P90 BXN90S4 511
8.5	1161	0.9	168.7	8500		F413_168.7 P90 BXN90S4 511
8.6	1140	1.6	165.6	12000		F513_165.6 P90 BXN90S4 515
8.8	1121	2.6	162.9	20000		F603_162.9 P90 BXN90S4 519
9.5	1035	2.8	150.4	20000		F603_150.4 P90 BXN90S4 519
10.6	925	1.2	134.4	8500		F413_134.4 P90 BXN90S4 511
11.0	894	2.0	129.9	12000		F513_129.9 P90 BXN90S4 515
13.5	730	1.5	106.0	8500		F413_106.0 P90 BXN90S4 511
13.6	723	2.5	105.1	12000		F513_105.1 P90 BXN90S4 515
16.4	601	1.0	87.4	6500		F313_87.4 P90 BXN90S4 507
16.8	584	1.9	84.9	8500		F413_84.9 P90 BXN90S4 511
17.2	573	3.1	83.2	12000		F513_83.2 P90 BXN90S4 515
18.1	543	1.1	78.9	6500		F313_78.9 P90 BXN90S4 507
20.7	475	1.3	69.1	6500		F313_69.1 P90 BXN90S4 507
21.5	458	2.4	66.5	8500		F413_66.5 P90 BXN90S4 511
21.9	450	0.9	65.3	4610		F253_65.3 P90 BXN90S4 503
22.8	432	1.4	62.8	6500		F313_62.8 P90 BXN90S4 507
23.7	415	2.7	60.2	8500		F413_60.2 P90 BXN90S4 511
24.5	401	1.0	58.3	4500		F253_58.3 P90 BXN90S4 503
27.5	359	1.7	52.1	6500		F313_52.1 P90 BXN90S4 507
27.8	354	3.1	51.5	8500		F413_51.5 P90 BXN90S4 511
28.2	350	1.1	50.8	4450		F253_50.8 P90 BXN90S4 503
29.8	337	3.2	47.9	8500		F412_47.9 P90 BXN90S4 511
30	327	1.8	47.5	6500		F313_47.5 P90 BXN90S4 507
31	314	1.3	45.6	4400		F253_45.6 P90 BXN90S4 503
32	314	1.9	44.6	6500		F312_44.6 P90 BXN90S4 507
32	312	1.2	44.4	4470		F252_44.4 P90 BXN90S4 503
35	286	1.3	40.7	4410		F252_40.7 P90 BXN90S4 503
35	284	2.1	40.4	6500		F312_40.4 P90 BXN90S4 507
38	266	0.9	37.9	3050		F202_37.9 P90 BXN90S4 499
38	265	2.3	37.7	6500		F312_37.7 P90 BXN90S4 507
39	256	1.6	36.4	4330		F252_36.4 P90 BXN90S4 503
42	242	2.5	34.4	6500		F312_34.4 P90 BXN90S4 507
43	233	1.1	33.1	2980		F202_33.1 P90 BXN90S4 499
44	226	1.8	32.2	4240		F252_32.2 P90 BXN90S4 503
47	214	1.2	30.4	2930		F202_30.4 P90 BXN90S4 499

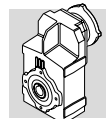


1.1 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC	IE3
47	212	2.8	30.1	6500		F312_30.1 P90 BXN90S4	507
48	211	1.9	30.0	4190		F252_30.0 P90 BXN90S4	503
52	192	3.1	27.3	6500		F312_27.3 P90 BXN90S4	507
53	191	2.1	27.2	4100		F252_27.2 P90 BXN90S4	503
55	182	1.3	25.9	2840		F202_25.9 P90 BXN90S4	499
60	167	2.4	23.8	3990		F252_23.8 P90 BXN90S4	503
62	163	1.4	23.1	2780		F202_23.1 P90 BXN90S4	499
66	153	2.6	21.8	3920		F252_21.8 P90 BXN90S4	503
71	142	1.6	20.2	2690		F202_20.2 P90 BXN90S4	499
74	136	1.0	19.3	2170		F102_19.3 P90 BXN90S4	495
77	131	3.1	18.6	3780		F252_18.6 P90 BXN90S4	503
79	127	1.7	18.1	2620		F202_18.1 P90 BXN90S4	499
84	119	1.1	17.0	2110		F102_17.0 P90 BXN90S4	495
86	117	3.4	16.6	3670		F252_16.6 P90 BXN90S4	503
97	104	2.0	14.8	2500		F202_14.8 P90 BXN90S4	499
98	103	1.2	14.6	2050		F102_14.6 P90 BXN90S4	495
110	92	1.1	13.0	1980		F102_13.0 P90 BXN90S4	495
124	81	1.2	11.5	1920		F102_11.5 P90 BXN90S4	495
127	79	2.2	11.2	2310		F202_11.2 P90 BXN90S4	499
143	71	2.3	10.0	2200		F202_10.0 P90 BXN90S4	499
146	69	1.3	9.8	1840		F102_9.8 P90 BXN90S4	495
164	61	2.5	8.7	2160		F202_8.7 P90 BXN90S4	499
167	60	1.4	8.6	1780		F102_8.6 P90 BXN90S4	495
183	55	2.6	7.8	2100		F202_7.8 P90 BXN90S4	499
193	52	1.5	7.4	1720		F102_7.4 P90 BXN90S4	495
223	45	2.9	6.4	1980		F202_6.4 P90 BXN90S4	499

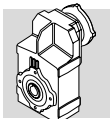
1.5 kW

n2	M2	S	i	Rn2				IEC		
min-1	Nm			N	IE2	IE3		IE2	IE3	
0.8	15321	0.9	1702.3	55000	F904_1702 S3 ME3SB4	F904_1702 S3 MX3SB4	528	F904_1702 P90 BE90LA4	F904_1702 P90 BX90LA4	529
0.9	14142	1.0	1571.4	55000	F904_1571 S3 ME3SB4	F904_1571 S3 MX3SB4	528	F904_1571 P90 BE90LA4	F904_1571 P90 BX90LA4	529
1.0	12851	1.1	1427.9	55000	F904_1428 S3 ME3SB4	F904_1428 S3 MX3SB4	528	F904_1428 P90 BE90LA4	F904_1428 P90 BX90LA4	529
1.1	11863	1.2	1318.1	55000	F904_1318 S3 ME3SB4	F904_1318 S3 MX3SB4	528	F904_1318 P90 BE90LA4	F904_1318 P90 BX90LA4	529
1.2	10845	1.3	1204.9	55000	F904_1205 S3 ME3SB4	F904_1205 S3 MX3SB4	528	F904_1205 P90 BE90LA4	F904_1205 P90 BX90LA4	529
1.3	10010	1.4	1112.3	55000	F904_1112 S3 ME3SB4	F904_1112 S3 MX3SB4	528	F904_1112 P90 BE90LA4	F904_1112 P90 BX90LA4	529
1.5	8874	1.6	986.0	55000	F904_986.0 S3 ME3SB4	F904_986.0 S3 MX3SB4	528	F904_986.0 P90 BE90LA4	F904_986.0 P90 BX90LA4	529
1.5	8748	0.9	972.0	45000	F804_972.0 S3 ME3SB4	F804_972.0 S3 MX3SB4	525	F804_972.0 P90 BE90LA4	F804_972.0 P90 BX90LA4	526
1.6	8192	1.7	910.2	55000	F904_910.2 S3 ME3SB4	F904_910.2 S3 MX3SB4	528	F904_910.2 P90 BE90LA4	F904_910.2 P90 BX90LA4	529
1.6	8075	1.0	897.3	45000	F804_897.3 S3 ME3SB4	F804_897.3 S3 MX3SB4	525	F804_897.3 P90 BE90LA4	F804_897.3 P90 BX90LA4	526
1.8	6970	1.1	774.4	45000	F804_774.4 S3 ME3SB4	F804_774.4 S3 MX3SB4	525	F804_774.4 P90 BE90LA4	F804_774.4 P90 BX90LA4	526
1.8	6961	2.0	773.4	55000	F904_773.4 S3 ME3SB4	F904_773.4 S3 MX3SB4	528	F904_773.4 P90 BE90LA4	F904_773.4 P90 BX90LA4	529
2.0	6434	1.2	714.9	45000	F804_714.9 S3 ME3SB4	F804_714.9 S3 MX3SB4	525	F804_714.9 P90 BE90LA4	F804_714.9 P90 BX90LA4	526
2.0	6426	2.2	714.0	55000	F904_714.0 S3 ME3SB4	F904_714.0 S3 MX3SB4	528	F904_714.0 P90 BE90LA4	F904_714.0 P90 BX90LA4	529
2.3	5631	2.5	625.6	55000	F904_625.6 S3 ME3SB4	F904_625.6 S3 MX3SB4	528	F904_625.6 P90 BE90LA4	F904_625.6 P90 BX90LA4	529
2.3	5498	1.5	610.9	45000	F804_610.9 S3 ME3SB4	F804_610.9 S3 MX3SB4	525	F804_610.9 P90 BE90LA4	F804_610.9 P90 BX90LA4	526
2.4	5462	0.9	606.8	35000	F704_606.8 S3 ME3SB4	F704_606.8 S3 MX3SB4	522	F704_606.8 P90 BE90LA4	F704_606.8 P90 BX90LA4	523



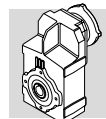
1.5 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IE2	IE3
2.5	5197	2.7	577.5	55000	F904_577.5 S3 ME3SB4	F904_577.5 S3 MX3SB4	F904_577.5 P90 BE90LA4	F904_577.5 P90 BX90LA4
2.5	5075	1.6	563.9	45000	F804_563.9 S3 ME3SB4	F804_563.9 S3 MX3SB4	F804_563.9 P90 BE90LA4	F804_563.9 P90 BX90LA4
2.8	4594	1.1	510.4	35000	F704_510.4 S3 ME3SB4	F704_510.4 S3 MX3SB4	F704_510.4 P90 BE90LA4	F704_510.4 P90 BX90LA4
2.9	4460	3.1	495.6	55000	F904_495.6 S3 ME3SB4	F904_495.6 S3 MX3SB4	F904_495.6 P90 BE90LA4	F904_495.6 P90 BX90LA4
2.9	4402	1.8	489.1	45000	F804_489.1 S3 ME3SB4	F804_489.1 S3 MX3SB4	F804_489.1 P90 BE90LA4	F804_489.1 P90 BX90LA4
3.0	4240	1.2	471.2	35000	F704_471.2 S3 ME3SB4	F704_471.2 S3 MX3SB4	F704_471.2 P90 BE90LA4	F704_471.2 P90 BX90LA4
3.1	4117	3.4	457.5	55000	F904_457.5 S3 ME3SB4	F904_457.5 S3 MX3SB4	F904_457.5 P90 BE90LA4	F904_457.5 P90 BX90LA4
3.2	4063	2.0	451.5	45000	F804_451.5 S3 ME3SB4	F804_451.5 S3 MX3SB4	F804_451.5 P90 BE90LA4	F804_451.5 P90 BX90LA4
3.5	3632	1.4	403.5	35000	F704_403.5 S3 ME3SB4	F704_403.5 S3 MX3SB4	F704_403.5 P90 BE90LA4	F704_403.5 P90 BX90LA4
3.7	3448	2.3	383.2	45000	F804_383.2 S3 ME3SB4	F804_383.2 S3 MX3SB4	F804_383.2 P90 BE90LA4	F804_383.2 P90 BX90LA4
3.8	3352	1.5	372.5	35000	F704_372.5 S3 ME3SB4	F704_372.5 S3 MX3SB4	F704_372.5 P90 BE90LA4	F704_372.5 P90 BX90LA4
4.0	3183	2.5	353.7	45000	F804_353.7 S3 ME3SB4	F804_353.7 S3 MX3SB4	F804_353.7 P90 BE90LA4	F804_353.7 P90 BX90LA4
4.2	3075	0.9	341.7	20000	F604_341.7 S3 ME3SB4	F604_341.7 S3 MX3SB4	F604_341.7 P90 BE90LA4	F604_341.7 P90 BX90LA4
4.5	2839	1.0	315.4	20000	F604_315.4 S3 ME3SB4	F604_315.4 S3 MX3SB4	F604_315.4 P90 BE90LA4	F604_315.4 P90 BX90LA4
4.7	2739	1.8	304.3	35000	F704_304.3 S3 ME3SB4	F704_304.3 S3 MX3SB4	F704_304.3 P90 BE90LA4	F704_304.3 P90 BX90LA4
4.8	2670	3.0	296.7	45000	F804_296.7 S3 ME3SB4	F804_296.7 S3 MX3SB4	F804_296.7 P90 BE90LA4	F804_296.7 P90 BX90LA4
5.1	2528	2.0	280.9	35000	F704_280.9 S3 ME3SB4	F704_280.9 S3 MX3SB4	F704_280.9 P90 BE90LA4	F704_280.9 P90 BX90LA4
5.1	2610	1.1	280.7	20000	F603_280.7 S3 ME3SB4	F603_280.7 S3 MX3SB4	F603_280.7 P90 BE90LA4	F603_280.7 P90 BX90LA4
5.2	2465	3.2	273.9	45000	F804_273.9 S3 ME3SB4	F804_273.9 S3 MX3SB4	F804_273.9 P90 BE90LA4	F804_273.9 P90 BX90LA4
5.5	2409	1.2	259.1	20000	F603_259.1 S3 ME3SB4	F603_259.1 S3 MX3SB4	F603_259.1 P90 BE90LA4	F603_259.1 P90 BX90LA4
6.1	2193	1.3	235.8	20000	F603_235.8 S3 ME3SB4	F603_235.8 S3 MX3SB4	F603_235.8 P90 BE90LA4	F603_235.8 P90 BX90LA4
6.1	2111	2.4	234.6	35000	F704_234.6 S3 ME3SB4	F704_234.6 S3 MX3SB4	F704_234.6 P90 BE90LA4	F704_234.6 P90 BX90LA4
6.6	2024	1.4	217.6	20000	F603_217.6 S3 ME3SB4	F603_217.6 S3 MX3SB4	F603_217.6 P90 BE90LA4	F603_217.6 P90 BX90LA4
6.6	1949	2.6	216.5	35000	F704_216.5 S3 ME3SB4	F704_216.5 S3 MX3SB4	F704_216.5 P90 BE90LA4	F704_216.5 P90 BX90LA4
7.1	1882	1.0	202.4	12000	F513_202.4 S3 ME3SB4	F513_202.4 S3 MX3SB4	F513_202.4 P90 BE90LA4	F513_202.4 P90 BX90LA4
7.1	1873	1.5	201.4	20000	F603_201.4 S3 ME3SB4	F603_201.4 S3 MX3SB4	F603_201.4 P90 BE90LA4	F603_201.4 P90 BX90LA4
7.3	1823	2.7	196.0	35000	F703_196.0 S3 ME3SB4	F703_196.0 S3 MX3SB4	F703_196.0 P90 BE90LA4	F703_196.0 P90 BX90LA4
7.7	1729	1.7	185.9	20000	F603_185.9 S3 ME3SB4	F603_185.9 S3 MX3SB4	F603_185.9 P90 BE90LA4	F603_185.9 P90 BX90LA4
7.9	1683	3.0	180.9	35000	F703_180.9 S3 ME3SB4	F703_180.9 S3 MX3SB4	F703_180.9 P90 BE90LA4	F703_180.9 P90 BX90LA4
8.6	1550	3.2	166.7	35000	F703_166.7 S3 ME3SB4	F703_166.7 S3 MX3SB4	F703_166.7 P90 BE90LA4	F703_166.7 P90 BX90LA4
8.6	1540	1.2	165.6	12000	F513_165.6 S3 ME3SB4	F513_165.6 S3 MX3SB4	F513_165.6 P90 BE90LA4	F513_165.6 P90 BX90LA4
8.8	1515	1.9	162.9	20000	F603_162.9 S3 ME3SB4	F603_162.9 S3 MX3SB4	F603_162.9 P90 BE90LA4	F603_162.9 P90 BX90LA4
9.3	1431	3.5	153.8	35000	F703_153.8 S3 ME3SB4	F703_153.8 S3 MX3SB4	F703_153.8 P90 BE90LA4	F703_153.8 P90 BX90LA4
9.5	1398	2.1	150.4	20000	F603_150.4 S3 ME3SB4	F603_150.4 S3 MX3SB4	F603_150.4 P90 BE90LA4	F603_150.4 P90 BX90LA4
10.6	1250	0.9	134.4	8500	F413_134.4 S3 ME3SB4	F413_134.4 S3 MX3SB4	F413_134.4 P90 BE90LA4	F413_134.4 P90 BX90LA4
11.0	1214	2.4	130.5	20000	F603_130.5 S3 ME3SB4	F603_130.5 S3 MX3SB4	F603_130.5 P90 BE90LA4	F603_130.5 P90 BX90LA4
11.0	1208	1.5	129.9	12000	F513_129.9 S3 ME3SB4	F513_129.9 S3 MX3SB4	F513_129.9 P90 BE90LA4	F513_129.9 P90 BX90LA4
11.9	1120	2.6	120.5	20000	F603_120.5 S3 ME3SB4	F603_120.5 S3 MX3SB4	F603_120.5 P90 BE90LA4	F603_120.5 P90 BX90LA4
13.4	989	2.9	106.4	20000	F603_106.4 S3 ME3SB4	F603_106.4 S3 MX3SB4	F603_106.4 P90 BE90LA4	F603_106.4 P90 BX90LA4
13.5	986	1.1	106.0	8500	F413_106.0 S3 ME3SB4	F413_106.0 S3 MX3SB4	F413_106.0 P90 BE90LA4	F413_106.0 P90 BX90LA4
13.6	977	1.8	105.1	12000	F513_105.1 S3 ME3SB4	F513_105.1 S3 MX3SB4	F513_105.1 P90 BE90LA4	F513_105.1 P90 BX90LA4
14.6	913	3.2	98.2	20000	F603_98.2 S3 ME3SB4	F603_98.2 S3 MX3SB4	F603_98.2 P90 BE90LA4	F603_98.2 P90 BX90LA4
16.8	789	1.4	84.9	8500	F413_84.9 S3 ME3SB4	F413_84.9 S3 MX3SB4	F413_84.9 P90 BE90LA4	F413_84.9 P90 BX90LA4
17.2	774	2.3	83.2	12000	F513_83.2 S3 ME3SB4	F513_83.2 S3 MX3SB4	F513_83.2 P90 BE90LA4	F513_83.2 P90 BX90LA4
20.7	642	0.9	69.1	6500	F313_69.1 S3 ME3SB4	F313_69.1 S3 MX3SB4	F313_69.1 P90 BE90LA4	F313_69.1 P90 BX90LA4
21.5	618	1.8	66.5	8500	F413_66.5 S3 ME3SB4	F413_66.5 S3 MX3SB4	F413_66.5 P90 BE90LA4	F413_66.5 P90 BX90LA4
21.7	612	2.9	65.8	12000	F513_65.8 S3 ME3SB4	F513_65.8 S3 MX3SB4	F513_65.8 P90 BE90LA4	F513_65.8 P90 BX90LA4
22.8	584	1.0	62.8	6500	F313_62.8 S3 ME3SB4	F313_62.8 S3 MX3SB4	F313_62.8 P90 BE90LA4	F313_62.8 P90 BX90LA4
23.7	560	2.0	60.2	8500	F413_60.2 S3 ME3SB4	F413_60.2 S3 MX3SB4	F413_60.2 P90 BE90LA4	F413_60.2 P90 BX90LA4
27.5	484	1.2	52.1	6500	F313_52.1 S3 ME3SB4	F313_52.1 S3 MX3SB4	F313_52.1 P90 BE90LA4	F313_52.1 P90 BX90LA4
27.8	479	2.3	51.5	8500	F413_51.5 S3 ME3SB4	F413_51.5 S3 MX3SB4	F413_51.5 P90 BE90LA4	F413_51.5 P90 BX90LA4
29.8	455	2.4	47.9	8500	F412_47.9 S3 ME3SB4	F412_47.9 S3 MX3SB4	F412_47.9 P90 BE90LA4	F412_47.9 P90 BX90LA4
30	442	1.3	47.5	6500	F313_47.5 S3 ME3SB4	F313_47.5 S3 MX3SB4	F313_47.5 P90 BE90LA4	F313_47.5 P90 BX90LA4



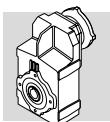
1.5 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IE2	IE3
31	424	0.9	45.6	3880	F253_45.6 S3 ME3SB4	F253_45.6 S3 MX3SB4	F253_45.6 P90 BE90LA4	F253_45.6 P90 BX90LA4
32	424	1.4	44.6	6500	F312_44.6 S3 ME3SB4	F312_44.6 S3 MX3SB4	F312_44.6 P90 BE90LA4	F312_44.6 P90 BX90LA4
32	422	0.9	44.4	4180	F252_44.4 S3 ME3SB4	F252_44.4 S3 MX3SB4	F252_44.4 P90 BE90LA4	F252_44.4 P90 BX90LA4
35	387	1.0	40.7	3970	F252_40.7 S3 ME3SB4	F252_40.7 S3 MX3SB4	F252_40.7 P90 BE90LA4	F252_40.7 P90 BX90LA4
35	383	1.6	40.4	6500	F312_40.4 S3 ME3SB4	F312_40.4 S3 MX3SB4	F312_40.4 P90 BE90LA4	F312_40.4 P90 BX90LA4
37	363	3.0	38.2	8500	F412_38.2 S3 ME3SB4	F412_38.2 S3 MX3SB4	F412_38.2 P90 BE90LA4	F412_38.2 P90 BX90LA4
38	358	1.7	37.7	6500	F312_37.7 S3 ME3SB4	F312_37.7 S3 MX3SB4	F312_37.7 P90 BE90LA4	F312_37.7 P90 BX90LA4
39	346	1.2	36.4	3940	F252_36.4 S3 ME3SB4	F252_36.4 S3 MX3SB4	F252_36.4 P90 BE90LA4	F252_36.4 P90 BX90LA4
42	326	1.8	34.4	6500	F312_34.4 S3 ME3SB4	F312_34.4 S3 MX3SB4	F312_34.4 P90 BE90LA4	F312_34.4 P90 BX90LA4
44	306	1.3	32.2	3890	F252_32.2 S3 ME3SB4	F252_32.2 S3 MX3SB4	F252_32.2 P90 BE90LA4	F252_32.2 P90 BX90LA4
47	286	2.1	30.1	6500	F312_30.1 S3 ME3SB4	F312_30.1 S3 MX3SB4	F312_30.1 P90 BE90LA4	F312_30.1 P90 BX90LA4
48	285	1.4	30.0	3860	F252_30.0 S3 ME3SB4	F252_30.0 S3 MX3SB4	F252_30.0 P90 BE90LA4	F252_30.0 P90 BX90LA4
52	259	2.3	27.3	6500	F312_27.3 S3 ME3SB4	F312_27.3 S3 MX3SB4	F312_27.3 P90 BE90LA4	F312_27.3 P90 BX90LA4
53	258	1.5	27.2	3810	F252_27.2 S3 ME3SB4	F252_27.2 S3 MX3SB4	F252_27.2 P90 BE90LA4	F252_27.2 P90 BX90LA4
55	246	1.0	25.9	2640	F202_25.9 S3 ME3SB4	F202_25.9 S3 MX3SB4	F202_25.9 P90 BE90LA4	F202_25.9 P90 BX90LA4
60	226	1.8	23.8	3730	F252_23.8 S3 ME3SB4	F252_23.8 S3 MX3SB4	F252_23.8 P90 BE90LA4	F252_23.8 P90 BX90LA4
61	222	2.7	23.4	6480	F312_23.4 S3 ME3SB4	F312_23.4 S3 MX3SB4	F312_23.4 P90 BE90LA4	F312_23.4 P90 BX90LA4
62	220	1.1	23.1	2600	F202_23.1 S3 ME3SB4	F202_23.1 S3 MX3SB4	F202_23.1 P90 BE90LA4	F202_23.1 P90 BX90LA4
66	207	1.9	21.8	3680	F252_21.8 S3 ME3SB4	F252_21.8 S3 MX3SB4	F252_21.8 P90 BE90LA4	F252_21.8 P90 BX90LA4
68	201	3.0	21.1	6320	F312_21.1 S3 ME3SB4	F312_21.1 S3 MX3SB4	F312_21.1 P90 BE90LA4	F312_21.1 P90 BX90LA4
71	191	1.2	20.2	2530	F202_20.2 S3 ME3SB4	F202_20.2 S3 MX3SB4	F202_20.2 P90 BE90LA4	F202_20.2 P90 BX90LA4
77	177	2.3	18.6	3570	F252_18.6 S3 ME3SB4	F252_18.6 S3 MX3SB4	F252_18.6 P90 BE90LA4	F252_18.6 P90 BX90LA4
77	176	3.4	18.5	6110	F312_18.5 S3 ME3SB4	F312_18.5 S3 MX3SB4	F312_18.5 P90 BE90LA4	F312_18.5 P90 BX90LA4
79	172	1.2	18.1	2480	F202_18.1 S3 ME3SB4	F202_18.1 S3 MX3SB4	F202_18.1 P90 BE90LA4	F202_18.1 P90 BX90LA4
86	158	2.5	16.6	3490	F252_16.6 S3 ME3SB4	F252_16.6 S3 MX3SB4	F252_16.6 P90 BE90LA4	F252_16.6 P90 BX90LA4
97	141	1.4	14.8	2380	F202_14.8 S3 ME3SB4	F202_14.8 S3 MX3SB4	F202_14.8 P90 BE90LA4	F202_14.8 P90 BX90LA4
99	137	2.9	14.5	3390	F252_14.5 S3 ME3SB4	F252_14.5 S3 MX3SB4	F252_14.5 P90 BE90LA4	F252_14.5 P90 BX90LA4
110	123	3.2	13.0	3310	F252_13.0 S3 ME3SB4	F252_13.0 S3 MX3SB4	F252_13.0 P90 BE90LA4	F252_13.0 P90 BX90LA4
124	110	0.9	11.5	1160	F102_11.5 S3 ME3SB4	F102_11.5 S3 MX3SB4	F102_11.5 P90 BE90LA4	F102_11.5 P90 BX90LA4
127	107	1.7	11.2	2220	F202_11.2 S3 ME3SB4	F202_11.2 S3 MX3SB4	F202_11.2 P90 BE90LA4	F202_11.2 P90 BX90LA4
143	95	1.7	10.0	2160	F202_10.0 S3 ME3SB4	F202_10.0 S3 MX3SB4	F202_10.0 P90 BE90LA4	F202_10.0 P90 BX90LA4
146	93	1.0	9.8	1760	F102_9.8 S3 ME3SB4	F102_9.8 S3 MX3SB4	F102_9.8 P90 BE90LA4	F102_9.8 P90 BX90LA4
153	89	3.0	9.4	3070	F252_9.4 S3 ME3SB4	F252_9.4 S3 MX3SB4	F252_9.4 P90 BE90LA4	F252_9.4 P90 BX90LA4
164	83	1.9	8.7	2090	F202_8.7 S3 ME3SB4	F202_8.7 S3 MX3SB4	F202_8.7 P90 BE90LA4	F202_8.7 P90 BX90LA4
167	82	1.0	8.6	1710	F102_8.6 S3 ME3SB4	F102_8.6 S3 MX3SB4	F102_8.6 P90 BE90LA4	F102_8.6 P90 BX90LA4
170	80	3.3	8.4	2980	F252_8.4 S3 ME3SB4	F252_8.4 S3 MX3SB4	F252_8.4 P90 BE90LA4	F252_8.4 P90 BX90LA4
183	74	1.9	7.8	2030	F202_7.8 S3 ME3SB4	F202_7.8 S3 MX3SB4	F202_7.8 P90 BE90LA4	F202_7.8 P90 BX90LA4
193	70	1.1	7.4	1650	F102_7.4 S3 ME3SB4	F102_7.4 S3 MX3SB4	F102_7.4 P90 BE90LA4	F102_7.4 P90 BX90LA4
223	61	2.1	6.4	1930	F202_6.4 S3 ME3SB4	F202_6.4 S3 MX3SB4	F202_6.4 P90 BE90LA4	F202_6.4 P90 BX90LA4
247	55	1.4	11.5	1560	F102_11.5 S3 ME3SA2		F102_11.5 P90 BE90SA2	
254	54	2.6	11.2	1860	F202_11.2 S3 ME3SA2		F202_11.2 P90 BE90SA2	
292	47	1.6	9.8	1490	F102_9.8 S3 ME3SA2		F102_9.8 P90 BE90SA2	
327	42	3.0	8.7	1740	F202_8.7 S3 ME3SA2		F202_8.7 P90 BE90SA2	
333	41	1.6	8.6	1440	F102_8.6 S3 ME3SA2		F102_8.6 P90 BE90SA2	
364	37	3.1	7.8	1680	F202_7.8 S3 ME3SA2		F202_7.8 P90 BE90SA2	
386	35	1.8	7.4	1380	F102_7.4 S3 ME3SA2		F102_7.4 P90 BE90SA2	
445	31	3.4	6.4	1590	F202_6.4 S3 ME3SA2		F202_6.4 P90 BE90SA2	



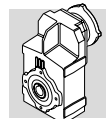
1.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
0.8	15321	0.9	1702.3	55000		F904_1702 P90 BXN90L4 529
0.9	14142	1.0	1571.4	55000		F904_1571 P90 BXN90L4 529
1.0	12851	1.1	1427.9	55000		F904_1428 P90 BXN90L4 529
1.1	11863	1.2	1318.1	55000		F904_1318 P90 BXN90L4 529
1.2	10845	1.3	1204.9	55000		F904_1205 P90 BXN90L4 529
1.3	10010	1.4	1112.3	55000		F904_1112 P90 BXN90L4 529
1.5	8874	1.6	986.0	55000		F904_986.0 P90 BXN90L4 529
1.5	8748	0.9	972.0	45000		F804_972.0 P90 BXN90L4 526
1.6	8192	1.7	910.2	55000		F904_910.2 P90 BXN90L4 529
1.6	8075	1.0	897.3	45000		F804_897.3 P90 BXN90L4 526
1.8	6970	1.1	774.4	45000		F804_774.4 P90 BXN90L4 526
1.8	6961	2.0	773.4	55000		F904_773.4 P90 BXN90L4 529
2.0	6434	1.2	714.9	45000		F804_714.9 P90 BXN90L4 526
2.0	6426	2.2	714.0	55000		F904_714.0 P90 BXN90L4 529
2.3	5631	2.5	625.6	55000		F904_625.6 P90 BXN90L4 529
2.3	5498	1.5	610.9	45000		F804_610.9 P90 BXN90L4 526
2.4	5462	0.9	606.8	35000		F704_606.8 P90 BXN90L4 523
2.5	5197	2.7	577.5	55000		F904_577.5 P90 BXN90L4 529
2.5	5075	1.6	563.9	45000		F804_563.9 P90 BXN90L4 526
2.8	4594	1.1	510.4	35000		F704_510.4 P90 BXN90L4 523
2.9	4460	3.1	495.6	55000		F904_495.6 P90 BXN90L4 529
2.9	4402	1.8	489.1	45000		F804_489.1 P90 BXN90L4 526
3.0	4240	1.2	471.2	35000		F704_471.2 P90 BXN90L4 523
3.1	4117	3.4	457.5	55000		F904_457.5 P90 BXN90L4 529
3.2	4063	2.0	451.5	45000		F804_451.5 P90 BXN90L4 526
3.5	3632	1.4	403.5	35000		F704_403.5 P90 BXN90L4 523
3.7	3448	2.3	383.2	45000		F804_383.2 P90 BXN90L4 526
3.8	3352	1.5	372.5	35000		F704_372.5 P90 BXN90L4 523
4.0	3183	2.5	353.7	45000		F804_353.7 P90 BXN90L4 526
4.2	3075	0.9	341.7	20000		F604_341.7 P90 BXN90L4 519
4.5	2839	1.0	315.4	20000		F604_315.4 P90 BXN90L4 519
4.7	2739	1.8	304.3	35000		F704_304.3 P90 BXN90L4 523
4.8	2670	3.0	296.7	45000		F804_296.7 P90 BXN90L4 526
5.1	2528	2.0	280.9	35000		F704_280.9 P90 BXN90L4 523
5.1	2610	1.1	280.7	20000		F603_280.7 P90 BXN90L4 519
5.2	2465	3.2	273.9	45000		F804_273.9 P90 BXN90L4 526
5.5	2409	1.2	259.1	20000		F603_259.1 P90 BXN90L4 519
6.1	2193	1.3	235.8	20000		F603_235.8 P90 BXN90L4 519
6.1	2111	2.4	234.6	35000		F704_234.6 P90 BXN90L4 523
6.6	2024	1.4	217.6	20000		F603_217.6 P90 BXN90L4 519
6.6	1949	2.6	216.5	35000		F704_216.5 P90 BXN90L4 523
7.1	1882	1.0	202.4	12000		F513_202.4 P90 BXN90L4 515
7.1	1873	1.5	201.4	20000		F603_201.4 P90 BXN90L4 519
7.3	1823	2.7	196.0	35000		F703_196.0 P90 BXN90L4 523
7.7	1729	1.7	185.9	20000		F603_185.9 P90 BXN90L4 519
7.9	1683	3.0	180.9	35000		F703_180.9 P90 BXN90L4 523
8.6	1550	3.2	166.7	35000		F703_166.7 P90 BXN90L4 523
8.6	1540	1.2	165.6	12000		F513_165.6 P90 BXN90L4 515
8.8	1515	1.9	162.9	20000		F603_162.9 P90 BXN90L4 519
9.3	1431	3.5	153.8	35000		F703_153.8 P90 BXN90L4 523
9.5	1398	2.1	150.4	20000		F603_150.4 P90 BXN90L4 519
10.6	1250	0.9	134.4	8500		F413_134.4 P90 BXN90L4 511
11.0	1214	2.4	130.5	20000		F603_130.5 P90 BXN90L4 519
11.0	1208	1.5	129.9	12000		F513_129.9 P90 BXN90L4 515
11.9	1120	2.6	120.5	20000		F603_120.5 P90 BXN90L4 519
13.4	989	2.9	106.4	20000		F603_106.4 P90 BXN90L4 519
13.5	986	1.1	106.0	8500		F413_106.0 P90 BXN90L4 511



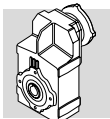
1.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
13.6	977	1.8	105.1	12000		F513_105.1 P90 BXN90L4 515
14.6	913	3.2	98.2	20000		F603_98.2 P90 BXN90L4 519
16.8	789	1.4	84.9	8500		F413_84.9 P90 BXN90L4 511
17.2	774	2.3	83.2	12000		F513_83.2 P90 BXN90L4 515
20.7	642	0.9	69.1	6500		F313_69.1 P90 BXN90L4 507
21.5	618	1.8	66.5	8500		F413_66.5 P90 BXN90L4 511
21.7	612	2.9	65.8	12000		F513_65.8 P90 BXN90L4 515
22.8	584	1.0	62.8	6500		F313_62.8 P90 BXN90L4 507
23.7	560	2.0	60.2	8500		F413_60.2 P90 BXN90L4 511
27.5	484	1.2	52.1	6500		F313_52.1 P90 BXN90L4 507
27.8	479	2.3	51.5	8500		F413_51.5 P90 BXN90L4 511
29.8	455	2.4	47.9	8500		F412_47.9 P90 BXN90L4 511
30	442	1.3	47.5	6500		F313_47.5 P90 BXN90L4 507
31	424	0.9	45.6	3880		F253_45.6 P90 BXN90L4 503
32	424	1.4	44.6	6500		F312_44.6 P90 BXN90L4 507
32	422	0.9	44.4	4180		F252_44.4 P90 BXN90L4 503
35	387	1.0	40.7	3970		F252_40.7 P90 BXN90L4 503
35	383	1.6	40.4	6500		F312_40.4 P90 BXN90L4 507
37	363	3.0	38.2	8500		F412_38.2 P90 BXN90L4 511
38	358	1.7	37.7	6500		F312_37.7 P90 BXN90L4 507
39	346	1.2	36.4	3940		F252_36.4 P90 BXN90L4 503
42	326	1.8	34.4	6500		F312_34.4 P90 BXN90L4 507
44	306	1.3	32.2	3890		F252_32.2 P90 BXN90L4 503
47	286	2.1	30.1	6500		F312_30.1 P90 BXN90L4 507
48	285	1.4	30.0	3860		F252_30.0 P90 BXN90L4 503
52	259	2.3	27.3	6500		F312_27.3 P90 BXN90L4 507
53	258	1.5	27.2	3810		F252_27.2 P90 BXN90L4 503
55	246	1.0	25.9	2640		F202_25.9 P90 BXN90L4 499
60	226	1.8	23.8	3730		F252_23.8 P90 BXN90L4 503
61	222	2.7	23.4	6480		F312_23.4 P90 BXN90L4 507
62	220	1.1	23.1	2600		F202_23.1 P90 BXN90L4 499
66	207	1.9	21.8	3680		F252_21.8 P90 BXN90L4 503
68	201	3.0	21.1	6320		F312_21.1 P90 BXN90L4 507
71	191	1.2	20.2	2530		F202_20.2 P90 BXN90L4 499
77	177	2.3	18.6	3570		F252_18.6 P90 BXN90L4 503
77	176	3.4	18.5	6110		F312_18.5 P90 BXN90L4 507
79	172	1.2	18.1	2480		F202_18.1 P90 BXN90L4 499
86	158	2.5	16.6	3490		F252_16.6 P90 BXN90L4 503
97	141	1.4	14.8	2380		F202_14.8 P90 BXN90L4 499
99	137	2.9	14.5	3390		F252_14.5 P90 BXN90L4 503
110	123	3.2	13.0	3310		F252_13.0 P90 BXN90L4 503
124	110	0.9	11.5	1160		F102_11.5 P90 BXN90L4 495
127	107	1.7	11.2	2220		F202_11.2 P90 BXN90L4 499
143	95	1.7	10.0	2160		F202_10.0 P90 BXN90L4 499
146	93	1.0	9.8	1760		F102_9.8 P90 BXN90L4 495
153	89	3.0	9.4	3070		F252_9.4 P90 BXN90L4 503
164	83	1.9	8.7	2090		F202_8.7 P90 BXN90L4 499
167	82	1.0	8.6	1710		F102_8.6 P90 BXN90L4 495
170	80	3.3	8.4	2980		F252_8.4 P90 BXN90L4 503
183	74	1.9	7.8	2030		F202_7.8 P90 BXN90L4 499
193	70	1.1	7.4	1650		F102_7.4 P90 BXN90L4 495
223	61	2.1	6.4	1930		F202_6.4 P90 BXN90L4 499



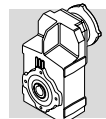
2.2 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC	IE2	IE3
1.2	15941	0.9	1204.9	55000	F904_1205 S3 ME3LA4	F904_1205 S3 MX3LA4	528	F904_1205 P100 BE100LA4	F904_1205 P100 BX100LA4
1.3	14715	1.0	1112.3	55000	F904_1112 S3 ME3LA4	F904_1112 S3 MX3LA4	528	F904_1112 P100 BE100LA4	F904_1112 P100 BX100LA4
1.5	13045	1.1	986.0	55000	F904_986.0 S3 ME3LA4	F904_986.0 S3 MX3LA4	528	F904_986.0 P100 BE100LA4	F904_986.0 P100 BX100LA4
1.6	12042	1.2	910.2	55000	F904_910.2 S3 ME3LA4	F904_910.2 S3 MX3LA4	528	F904_910.2 P100 BE100LA4	F904_910.2 P100 BX100LA4
1.8	10233	1.4	773.4	55000	F904_773.4 S3 ME3LA4	F904_773.4 S3 MX3LA4	528	F904_773.4 P100 BE100LA4	F904_773.4 P100 BX100LA4
2.0	9446	1.5	714.0	55000	F904_714.0 S3 ME3LA4	F904_714.0 S3 MX3LA4	528	F904_714.0 P100 BE100LA4	F904_714.0 P100 BX100LA4
2.3	8277	1.7	625.6	55000	F904_625.6 S3 ME3LA4	F904_625.6 S3 MX3LA4	528	F904_625.6 P100 BE100LA4	F904_625.6 P100 BX100LA4
2.3	8082	1.0	610.9	45000	F804_610.9 S3 ME3LA4	F804_610.9 S3 MX3LA4	525	F804_610.9 P100 BE100LA4	F804_610.9 P100 BX100LA4
2.5	7640	1.8	577.5	55000	F904_577.5 S3 ME3LA4	F904_577.5 S3 MX3LA4	528	F904_577.5 P100 BE100LA4	F904_577.5 P100 BX100LA4
2.5	7460	1.1	563.9	45000	F804_563.9 S3 ME3LA4	F804_563.9 S3 MX3LA4	525	F804_563.9 P100 BE100LA4	F804_563.9 P100 BX100LA4
2.9	6556	2.1	495.6	55000	F904_495.6 S3 ME3LA4	F904_495.6 S3 MX3LA4	528	F904_495.6 P100 BE100LA4	F904_495.6 P100 BX100LA4
2.9	6471	1.2	489.1	45000	F804_489.1 S3 ME3LA4	F804_489.1 S3 MX3LA4	525	F804_489.1 P100 BE100LA4	F804_489.1 P100 BX100LA4
3.1	6052	2.3	457.5	55000	F904_457.5 S3 ME3LA4	F904_457.5 S3 MX3LA4	528	F904_457.5 P100 BE100LA4	F904_457.5 P100 BX100LA4
3.2	5973	1.3	451.5	45000	F804_451.5 S3 ME3LA4	F804_451.5 S3 MX3LA4	525	F804_451.5 P100 BE100LA4	F804_451.5 P100 BX100LA4
3.5	5338	0.9	403.5	35000	F704_403.5 S3 ME3LA4	F704_403.5 S3 MX3LA4	522	F704_403.5 P100 BE100LA4	F704_403.5 P100 BX100LA4
3.6	5186	2.7	392.0	55000	F904_392.0 S3 ME3LA4	F904_392.0 S3 MX3LA4	528	F904_392.0 P100 BE100LA4	F904_392.0 P100 BX100LA4
3.7	5069	1.6	383.2	45000	F804_383.2 S3 ME3LA4	F804_383.2 S3 MX3LA4	525	F804_383.2 P100 BE100LA4	F804_383.2 P100 BX100LA4
3.8	4928	1.0	372.5	35000	F704_372.5 S3 ME3LA4	F704_372.5 S3 MX3LA4	522	F704_372.5 P100 BE100LA4	F704_372.5 P100 BX100LA4
4.0	4787	2.9	361.8	55000	F904_361.8 S3 ME3LA4	F904_361.8 S3 MX3LA4	528	F904_361.8 P100 BE100LA4	F904_361.8 P100 BX100LA4
4.0	4679	1.7	353.7	45000	F804_353.7 S3 ME3LA4	F804_353.7 S3 MX3LA4	525	F804_353.7 P100 BE100LA4	F804_353.7 P100 BX100LA4
4.7	4027	1.2	304.3	35000	F704_304.3 S3 ME3LA4	F704_304.3 S3 MX3LA4	522	F704_304.3 P100 BE100LA4	F704_304.3 P100 BX100LA4
4.8	3926	2.0	296.7	45000	F804_296.7 S3 ME3LA4	F804_296.7 S3 MX3LA4	525	F804_296.7 P100 BE100LA4	F804_296.7 P100 BX100LA4
4.9	3852	3.6	291.1	55000	F904_291.1 S3 ME3LA4	F904_291.1 S3 MX3LA4	528	F904_291.1 P100 BE100LA4	F904_291.1 P100 BX100LA4
5.1	3717	1.3	280.9	35000	F704_280.9 S3 ME3LA4	F704_280.9 S3 MX3LA4	522	F704_280.9 P100 BE100LA4	F704_280.9 P100 BX100LA4
5.2	3624	2.2	273.9	45000	F804_273.9 S3 ME3LA4	F804_273.9 S3 MX3LA4	525	F804_273.9 P100 BE100LA4	F804_273.9 P100 BX100LA4
6.1	3223	0.9	235.8	20000	F603_235.8 S3 ME3LA4	F603_235.8 S3 MX3LA4	518	F603_235.8 P100 BE100LA4	F603_235.8 P100 BX100LA4
6.1	3103	1.6	234.6	35000	F704_234.6 S3 ME3LA4	F704_234.6 S3 MX3LA4	522	F704_234.6 P100 BE100LA4	F704_234.6 P100 BX100LA4
6.5	2891	2.8	218.5	45000	F804_218.5 S3 ME3LA4	F804_218.5 S3 MX3LA4	525	F804_218.5 P100 BE100LA4	F804_218.5 P100 BX100LA4
6.6	2975	1.0	217.6	20000	F603_217.6 S3 ME3LA4	F603_217.6 S3 MX3LA4	518	F603_217.6 P100 BE100LA4	F603_217.6 P100 BX100LA4
6.6	2865	1.7	216.5	35000	F704_216.5 S3 ME3LA4	F704_216.5 S3 MX3LA4	522	F704_216.5 P100 BE100LA4	F704_216.5 P100 BX100LA4
7.1	2753	1.1	201.4	20000	F603_201.4 S3 ME3LA4	F603_201.4 S3 MX3LA4	518	F603_201.4 P100 BE100LA4	F603_201.4 P100 BX100LA4
7.2	2734	2.9	200.0	45000	F803_200.0 S3 ME3LA4	F803_200.0 S3 MX3LA4	525	F803_200.0 P100 BE100LA4	F803_200.0 P100 BX100LA4
7.3	2680	1.9	196.0	35000	F703_196.0 S3 ME3LA4	F703_196.0 S3 MX3LA4	522	F703_196.0 P100 BE100LA4	F703_196.0 P100 BX100LA4
7.7	2541	1.1	185.9	20000	F603_185.9 S3 ME3LA4	F603_185.9 S3 MX3LA4	518	F603_185.9 P100 BE100LA4	F603_185.9 P100 BX100LA4
7.7	2524	3.2	184.6	45000	F803_184.6 S3 ME3LA4	F803_184.6 S3 MX3LA4	525	F803_184.6 P100 BE100LA4	F803_184.6 P100 BX100LA4
7.9	2474	2.0	180.9	35000	F703_180.9 S3 ME3LA4	F703_180.9 S3 MX3LA4	522	F703_180.9 P100 BE100LA4	F703_180.9 P100 BX100LA4
8.6	2279	2.2	166.7	35000	F703_166.7 S3 ME3LA4	F703_166.7 S3 MX3LA4	522	F703_166.7 P100 BE100LA4	F703_166.7 P100 BX100LA4
8.8	2227	1.3	162.9	20000	F603_162.9 S3 ME3LA4	F603_162.9 S3 MX3LA4	518	F603_162.9 P100 BE100LA4	F603_162.9 P100 BX100LA4
9.3	2103	2.4	153.8	35000	F703_153.8 S3 ME3LA4	F703_153.8 S3 MX3LA4	522	F703_153.8 P100 BE100LA4	F703_153.8 P100 BX100LA4
9.5	2056	1.4	150.4	20000	F603_150.4 S3 ME3LA4	F603_150.4 S3 MX3LA4	518	F603_150.4 P100 BE100LA4	F603_150.4 P100 BX100LA4
10.8	1818	2.8	133.0	35000	F703_133.0 S3 ME3LA4	F703_133.0 S3 MX3LA4	522	F703_133.0 P100 BE100LA4	F703_133.0 P100 BX100LA4
11.0	1784	1.6	130.5	20000	F603_130.5 S3 ME3LA4	F603_130.5 S3 MX3LA4	518	F603_130.5 P100 BE100LA4	F603_130.5 P100 BX100LA4
11.0	1776	1.0	129.9	12000	F513_129.9 S3 ME3LA4	F513_129.9 S3 MX3LA4	514	F513_129.9 P100 BE100LA4	F513_129.9 P100 BX100LA4
11.7	1678	3.0	122.7	35000	F703_122.7 S3 ME3LA4	F703_122.7 S3 MX3LA4	522	F703_122.7 P100 BE100LA4	F703_122.7 P100 BX100LA4
11.9	1647	1.8	120.5	20000	F603_120.5 S3 ME3LA4	F603_120.5 S3 MX3LA4	518	F603_120.5 P100 BE100LA4	F603_120.5 P100 BX100LA4
13.0	1499	3.3	109.6	35000	F703_109.6 S3 ME3LA4	F703_109.6 S3 MX3LA4	522	F703_109.6 P100 BE100LA4	F703_109.6 P100 BX100LA4
13.4	1454	2.0	106.4	20000	F603_106.4 S3 ME3LA4	F603_106.4 S3 MX3LA4	518	F603_106.4 P100 BE100LA4	F603_106.4 P100 BX100LA4
13.6	1437	1.3	105.1	12000	F513_105.1 S3 ME3LA4	F513_105.1 S3 MX3LA4	514	F513_105.1 P100 BE100LA4	F513_105.1 P100 BX100LA4
14.1	1383	3.6	101.2	35000	F703_101.2 S3 ME3LA4	F703_101.2 S3 MX3LA4	522	F703_101.2 P100 BE100LA4	F703_101.2 P100 BX100LA4
14.6	1342	2.2	98.2	20000	F603_98.2 S3 ME3LA4	F603_98.2 S3 MX3LA4	518	F603_98.2 P100 BE100LA4	F603_98.2 P100 BX100LA4
16.8	1160	0.9	84.9	8500	F413_84.9 S3 ME3LA4	F413_84.9 S3 MX3LA4	510	F413_84.9 P100 BE100LA4	F413_84.9 P100 BX100LA4
17.0	1149	2.5	84.0	20000	F603_84.0 S3 ME3LA4	F603_84.0 S3 MX3LA4	518	F603_84.0 P100 BE100LA4	F603_84.0 P100 BX100LA4
17.2	1138	1.6	83.2	12000	F513_83.2 S3 ME3LA4	F513_83.2 S3 MX3LA4	514	F513_83.2 P100 BE100LA4	F513_83.2 P100 BX100LA4
18.4	1060	2.7	77.6	20000	F603_77.6 S3 ME3LA4	F603_77.6 S3 MX3LA4	518	F603_77.6 P100 BE100LA4	F603_77.6 P100 BX100LA4
20.9	933	3.1	68.3	20000	F603_68.3 S3 ME3LA4	F603_68.3 S3 MX3LA4	518	F603_68.3 P100 BE100LA4	F603_68.3 P100 BX100LA4
21.5	909	1.2	66.5	8500	F413_66.5 S3 ME3LA4	F413_66.5 S3 MX3LA4	510	F413_66.5 P100 BE100LA4	F413_66.5 P100 BX100LA4
21.7	900	2.0	65.8	12000	F513_65.8 S3 ME3LA4	F513_65.8 S3 MX3LA4	514	F513_65.8 P100 BE100LA4	F513_65.8 P100 BX100LA4



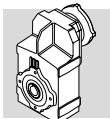
2.2 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IE3	IE3
1.2	15941	0.9	1204.9	55000		F904_1205 P100 BXN100LA4	529
1.3	14715	1.0	1112.3	55000		F904_1112 P100 BXN100LA4	529
1.5	13045	1.1	986.0	55000		F904_986.0 P100 BXN100LA4	529
1.6	12042	1.2	910.2	55000		F904_910.2 P100 BXN100LA4	529
1.8	10233	1.4	773.4	55000		F904_773.4 P100 BXN100LA4	529
2.0	9446	1.5	714.0	55000		F904_714.0 P100 BXN100LA4	529
2.3	8277	1.7	625.6	55000		F904_625.6 P100 BXN100LA4	529
2.3	8082	1.0	610.9	45000		F804_610.9 P100 BXN100LA4	526
2.5	7640	1.8	577.5	55000		F904_577.5 P100 BXN100LA4	529
2.5	7460	1.1	563.9	45000		F804_563.9 P100 BXN100LA4	526
2.9	6556	2.1	495.6	55000		F904_495.6 P100 BXN100LA4	529
2.9	6471	1.2	489.1	45000		F804_489.1 P100 BXN100LA4	526
3.1	6052	2.3	457.5	55000		F904_457.5 P100 BXN100LA4	529
3.2	5973	1.3	451.5	45000		F804_451.5 P100 BXN100LA4	526
3.5	5338	0.9	403.5	35000		F704_403.5 P100 BXN100LA4	523
3.6	5186	2.7	392.0	55000		F904_392.0 P100 BXN100LA4	529
3.7	5069	1.6	383.2	45000		F804_383.2 P100 BXN100LA4	526
3.8	4928	1.0	372.5	35000		F704_372.5 P100 BXN100LA4	523
4.0	4787	2.9	361.8	55000		F904_361.8 P100 BXN100LA4	529
4.0	4679	1.7	353.7	45000		F804_353.7 P100 BXN100LA4	526
4.7	4027	1.2	304.3	35000		F704_304.3 P100 BXN100LA4	523
4.8	3926	2.0	296.7	45000		F804_296.7 P100 BXN100LA4	526
4.9	3852	3.6	291.1	55000		F904_291.1 P100 BXN100LA4	529
5.1	3717	1.3	280.9	35000		F704_280.9 P100 BXN100LA4	523
5.2	3624	2.2	273.9	45000		F804_273.9 P100 BXN100LA4	526
6.1	3223	0.9	235.8	20000		F603_235.8 P100 BXN100LA4	519
6.1	3103	1.6	234.6	35000		F704_234.6 P100 BXN100LA4	523
6.5	2891	2.8	218.5	45000		F804_218.5 P100 BXN100LA4	526
6.6	2975	1.0	217.6	20000		F603_217.6 P100 BXN100LA4	519
6.6	2865	1.7	216.5	35000		F704_216.5 P100 BXN100LA4	523
7.1	2753	1.1	201.4	20000		F603_201.4 P100 BXN100LA4	519
7.2	2734	2.9	200.0	45000		F803_200.0 P100 BXN100LA4	526
7.3	2680	1.9	196.0	35000		F703_196.0 P100 BXN100LA4	523
7.7	2541	1.1	185.9	20000		F603_185.9 P100 BXN100LA4	519
7.7	2524	3.2	184.6	45000		F803_184.6 P100 BXN100LA4	526
7.9	2474	2.0	180.9	35000		F703_180.9 P100 BXN100LA4	523
8.6	2279	2.2	166.7	35000		F703_166.7 P100 BXN100LA4	523
8.8	2227	1.3	162.9	20000		F603_162.9 P100 BXN100LA4	519
9.3	2103	2.4	153.8	35000		F703_153.8 P100 BXN100LA4	523
9.5	2056	1.4	150.4	20000		F603_150.4 P100 BXN100LA4	519
10.8	1818	2.8	133.0	35000		F703_133.0 P100 BXN100LA4	523
11.0	1784	1.6	130.5	20000		F603_130.5 P100 BXN100LA4	519
11.0	1776	1.0	129.9	12000		F513_129.9 P100 BXN100LA4	515
11.7	1678	3.0	122.7	35000		F703_122.7 P100 BXN100LA4	523
11.9	1647	1.8	120.5	20000		F603_120.5 P100 BXN100LA4	519
13.0	1499	3.3	109.6	35000		F703_109.6 P100 BXN100LA4	523
13.4	1454	2.0	106.4	20000		F603_106.4 P100 BXN100LA4	519
13.6	1437	1.3	105.1	12000		F513_105.1 P100 BXN100LA4	515
14.1	1383	3.6	101.2	35000		F703_101.2 P100 BXN100LA4	523
14.6	1342	2.2	98.2	20000		F603_98.2 P100 BXN100LA4	519
16.8	1160	0.9	84.9	8500		F413_84.9 P100 BXN100LA4	511
17.0	1149	2.5	84.0	20000		F603_84.0 P100 BXN100LA4	519
17.2	1138	1.6	83.2	12000		F513_83.2 P100 BXN100LA4	515



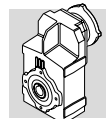
2.2 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IE3	IE3
1.2	15941	0.9	1204.9	55000		F904_1205 P100 BXN100LA4	529
1.3	14715	1.0	1112.3	55000		F904_1112 P100 BXN100LA4	529
1.5	13045	1.1	986.0	55000		F904_986.0 P100 BXN100LA4	529
1.6	12042	1.2	910.2	55000		F904_910.2 P100 BXN100LA4	529
1.8	10233	1.4	773.4	55000		F904_773.4 P100 BXN100LA4	529
2.0	9446	1.5	714.0	55000		F904_714.0 P100 BXN100LA4	529
2.3	8277	1.7	625.6	55000		F904_625.6 P100 BXN100LA4	529
2.3	8082	1.0	610.9	45000		F804_610.9 P100 BXN100LA4	526
2.5	7640	1.8	577.5	55000		F904_577.5 P100 BXN100LA4	529
2.5	7460	1.1	563.9	45000		F804_563.9 P100 BXN100LA4	526
2.9	6556	2.1	495.6	55000		F904_495.6 P100 BXN100LA4	529
2.9	6471	1.2	489.1	45000		F804_489.1 P100 BXN100LA4	526
3.1	6052	2.3	457.5	55000		F904_457.5 P100 BXN100LA4	529
3.2	5973	1.3	451.5	45000		F804_451.5 P100 BXN100LA4	526
3.5	5338	0.9	403.5	35000		F704_403.5 P100 BXN100LA4	523
3.6	5186	2.7	392.0	55000		F904_392.0 P100 BXN100LA4	529
3.7	5069	1.6	383.2	45000		F804_383.2 P100 BXN100LA4	526
3.8	4928	1.0	372.5	35000		F704_372.5 P100 BXN100LA4	523
4.0	4787	2.9	361.8	55000		F904_361.8 P100 BXN100LA4	529
4.0	4679	1.7	353.7	45000		F804_353.7 P100 BXN100LA4	526
4.7	4027	1.2	304.3	35000		F704_304.3 P100 BXN100LA4	523
4.8	3926	2.0	296.7	45000		F804_296.7 P100 BXN100LA4	526
4.9	3852	3.6	291.1	55000		F904_291.1 P100 BXN100LA4	529
5.1	3717	1.3	280.9	35000		F704_280.9 P100 BXN100LA4	523
5.2	3624	2.2	273.9	45000		F804_273.9 P100 BXN100LA4	526
6.1	3223	0.9	235.8	20000		F603_235.8 P100 BXN100LA4	519
6.1	3103	1.6	234.6	35000		F704_234.6 P100 BXN100LA4	523
6.5	2891	2.8	218.5	45000		F804_218.5 P100 BXN100LA4	526
6.6	2975	1.0	217.6	20000		F603_217.6 P100 BXN100LA4	519
6.6	2865	1.7	216.5	35000		F704_216.5 P100 BXN100LA4	523
7.1	2753	1.1	201.4	20000		F603_201.4 P100 BXN100LA4	519
7.2	2734	2.9	200.0	45000		F803_200.0 P100 BXN100LA4	526
7.3	2680	1.9	196.0	35000		F703_196.0 P100 BXN100LA4	523
7.7	2541	1.1	185.9	20000		F603_185.9 P100 BXN100LA4	519
7.7	2524	3.2	184.6	45000		F803_184.6 P100 BXN100LA4	526
7.9	2474	2.0	180.9	35000		F703_180.9 P100 BXN100LA4	523
8.6	2279	2.2	166.7	35000		F703_166.7 P100 BXN100LA4	523
8.8	2227	1.3	162.9	20000		F603_162.9 P100 BXN100LA4	519
9.3	2103	2.4	153.8	35000		F703_153.8 P100 BXN100LA4	523
9.5	2056	1.4	150.4	20000		F603_150.4 P100 BXN100LA4	519
10.8	1818	2.8	133.0	35000		F703_133.0 P100 BXN100LA4	523
11.0	1784	1.6	130.5	20000		F603_130.5 P100 BXN100LA4	519
11.0	1776	1.0	129.9	12000		F513_129.9 P100 BXN100LA4	515
11.7	1678	3.0	122.7	35000		F703_122.7 P100 BXN100LA4	523
11.9	1647	1.8	120.5	20000		F603_120.5 P100 BXN100LA4	519
13.0	1499	3.3	109.6	35000		F703_109.6 P100 BXN100LA4	523
13.4	1454	2.0	106.4	20000		F603_106.4 P100 BXN100LA4	519
13.6	1437	1.3	105.1	12000		F513_105.1 P100 BXN100LA4	515
14.1	1383	3.6	101.2	35000		F703_101.2 P100 BXN100LA4	523
14.6	1342	2.2	98.2	20000		F603_98.2 P100 BXN100LA4	519
16.8	1160	0.9	84.9	8500		F413_84.9 P100 BXN100LA4	511
17.0	1149	2.5	84.0	20000		F603_84.0 P100 BXN100LA4	519
17.2	1138	1.6	83.2	12000		F513_83.2 P100 BXN100LA4	515



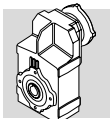
2.2 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IE3	IE3
18.4	1060	2.7	77.6	20000		F603_77.6 P100 BXN100LA4	519
20.9	933	3.1	68.3	20000		F603_68.3 P100 BXN100LA4	519
21.5	909	1.2	66.5	8500		F413_66.5 P100 BXN100LA4	511
21.7	900	2.0	65.8	12000		F513_65.8 P100 BXN100LA4	515
22.7	862	3.4	63.0	20000		F603_63.0 P100 BXN100LA4	519
23.7	824	1.3	60.2	8500		F413_60.2 P100 BXN100LA4	511
27.8	704	1.5	51.5	8500		F413_51.5 P100 BXN100LA4	511
29.2	669	2.7	48.9	12000		F513_48.9 P100 BXN100LA4	515
29.8	669	1.6	47.9	8500		F412_47.9 P100 BXN100LA4	511
30	650	0.9	47.5	6500		F313_47.5 P100 BXN100LA4	507
32	623	1.0	44.6	6500		F312_44.6 P100 BXN100LA4	507
35	564	1.1	40.4	6500		F312_40.4 P100 BXN100LA4	507
37	533	2.1	38.2	8500		F412_38.2 P100 BXN100LA4	511
38	526	1.1	37.7	6500		F312_37.7 P100 BXN100LA4	507
39	519	3.3	37.1	12000		F512_37.1 P100 BXN100LA4	515
42	480	1.3	34.4	6490		F312_34.4 P100 BXN100LA4	507
44	449	0.9	32.2	3620		F252_32.2 P100 BXN100LA4	503
47	421	1.4	30.1	6360		F312_30.1 P100 BXN100LA4	507
47	421	2.6	30.1	8500		F412_30.1 P100 BXN100LA4	511
48	419	1.0	30.0	3300		F252_30.0 P100 BXN100LA4	503
52	381	1.6	27.3	6250		F312_27.3 P100 BXN100LA4	507
53	380	1.1	27.2	3300		F252_27.2 P100 BXN100LA4	503
59	337	3.3	24.1	8400		F412_24.1 P100 BXN100LA4	511
60	332	1.2	23.8	3290		F252_23.8 P100 BXN100LA4	503
61	327	1.8	23.4	6080		F312_23.4 P100 BXN100LA4	507
66	305	1.3	21.8	3270		F252_21.8 P100 BXN100LA4	503
68	295	2.0	21.1	5960		F312_21.1 P100 BXN100LA4	507
77	260	1.5	18.6	3220		F252_18.6 P100 BXN100LA4	503
77	258	2.3	18.5	5790		F312_18.5 P100 BXN100LA4	507
85	235	2.6	16.8	5670		F312_16.8 P100 BXN100LA4	507
86	232	1.7	16.6	3180		F252_16.6 P100 BXN100LA4	503
97	207	1.0	14.8	2190		F202_14.8 P100 BXN100LA4	499
99	202	2.0	14.5	3120		F252_14.5 P100 BXN100LA4	503
103	195	3.1	13.9	5430		F312_13.9 P100 BXN100LA4	507
110	181	2.2	13.0	3070		F252_13.0 P100 BXN100LA4	503
112	178	3.4	12.7	5310		F312_12.7 P100 BXN100LA4	507
127	157	1.1	11.2	2060		F202_11.2 P100 BXN100LA4	499
135	148	2.7	10.6	2960		F252_10.6 P100 BXN100LA4	503
143	140	1.2	10.0	2000		F202_10.0 P100 BXN100LA4	499
153	131	2.0	9.4	2900		F252_9.4 P100 BXN100LA4	503
159	126	3.1	9.0	4830		F312_9.0 P100 BXN100LA4	507
164	122	1.3	8.7	1960		F202_8.7 P100 BXN100LA4	499
170	117	2.2	8.4	2830		F252_8.4 P100 BXN100LA4	503
174	115	3.4	8.2	4720		F312_8.2 P100 BXN100LA4	507
183	109	1.3	7.8	1920		F202_7.8 P100 BXN100LA4	499
208	96	2.7	6.9	2710		F252_6.9 P100 BXN100LA4	503
223	90	1.5	6.4	1840		F202_6.4 P100 BXN100LA4	499



3 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC	IE2	IE3
1.9	13922	1.0	773.4	55000	F904_773.4 S3 ME3LB4	F904_773.4 S3 MX3LB4	528	F904_773.4 P100 BE100LB4	F904_773.4 P100 BX100LB4
2.0	12851	1.1	714.0	55000	F904_714.0 S3 ME3LB4	F904_714.0 S3 MX3LB4	528	F904_714.0 P100 BE100LB4	F904_714.0 P100 BX100LB4
2.3	11261	1.2	625.6	55000	F904_625.6 S3 ME3LB4	F904_625.6 S3 MX3LB4	528	F904_625.6 P100 BE100LB4	F904_625.6 P100 BX100LB4
2.5	10395	1.3	577.5	55000	F904_577.5 S3 ME3LB4	F904_577.5 S3 MX3LB4	528	F904_577.5 P100 BE100LB4	F904_577.5 P100 BX100LB4
2.9	8920	1.6	495.6	55000	F904_495.6 S3 ME3LB4	F904_495.6 S3 MX3LB4	528	F904_495.6 P100 BE100LB4	F904_495.6 P100 BX100LB4
2.9	8804	0.9	489.1	45000	F804_489.1 S3 ME3LB4	F804_489.1 S3 MX3LB4	525	F804_489.1 P100 BE100LB4	F804_489.1 P100 BX100LB4
3.1	8234	1.7	457.5	55000	F904_457.5 S3 ME3LB4	F904_457.5 S3 MX3LB4	528	F904_457.5 P100 BE100LB4	F904_457.5 P100 BX100LB4
3.2	8127	1.0	451.5	45000	F804_451.5 S3 ME3LB4	F804_451.5 S3 MX3LB4	525	F804_451.5 P100 BE100LB4	F804_451.5 P100 BX100LB4
3.7	7056	2.0	392.0	55000	F904_392.0 S3 ME3LB4	F904_392.0 S3 MX3LB4	528	F904_392.0 P100 BE100LB4	F904_392.0 P100 BX100LB4
3.8	6897	1.2	383.2	45000	F804_383.2 S3 ME3LB4	F804_383.2 S3 MX3LB4	525	F804_383.2 P100 BE100LB4	F804_383.2 P100 BX100LB4
4.0	6513	2.1	361.8	55000	F904_361.8 S3 ME3LB4	F904_361.8 S3 MX3LB4	528	F904_361.8 P100 BE100LB4	F904_361.8 P100 BX100LB4
4.1	6366	1.3	353.7	45000	F804_353.7 S3 ME3LB4	F804_353.7 S3 MX3LB4	525	F804_353.7 P100 BE100LB4	F804_353.7 P100 BX100LB4
4.7	5478	0.9	304.3	35000	F704_304.3 S3 ME3LB4	F704_304.3 S3 MX3LB4	522	F704_304.3 P100 BE100LB4	F704_304.3 P100 BX100LB4
4.9	5341	1.5	296.7	45000	F804_296.7 S3 ME3LB4	F804_296.7 S3 MX3LB4	525	F804_296.7 P100 BE100LB4	F804_296.7 P100 BX100LB4
4.9	5240	2.7	291.1	55000	F904_291.1 S3 ME3LB4	F904_291.1 S3 MX3LB4	528	F904_291.1 P100 BE100LB4	F904_291.1 P100 BX100LB4
5.1	5057	1.0	280.9	35000	F704_280.9 S3 ME3LB4	F704_280.9 S3 MX3LB4	522	F704_280.9 P100 BE100LB4	F704_280.9 P100 BX100LB4
5.3	4930	1.6	273.9	45000	F804_273.9 S3 ME3LB4	F804_273.9 S3 MX3LB4	525	F804_273.9 P100 BE100LB4	F804_273.9 P100 BX100LB4
5.4	4837	2.9	268.7	55000	F904_268.7 S3 ME3LB4	F904_268.7 S3 MX3LB4	528	F904_268.7 P100 BE100LB4	F904_268.7 P100 BX100LB4
6.1	4222	1.2	234.6	35000	F704_234.6 S3 ME3LB4	F704_234.6 S3 MX3LB4	522	F704_234.6 P100 BE100LB4	F704_234.6 P100 BX100LB4
6.2	4165	3.4	231.4	55000	F904_231.4 S3 ME3LB4	F904_231.4 S3 MX3LB4	528	F904_231.4 P100 BE100LB4	F904_231.4 P100 BX100LB4
6.6	3933	2.0	218.5	45000	F804_218.5 S3 ME3LB4	F804_218.5 S3 MX3LB4	525	F804_218.5 P100 BE100LB4	F804_218.5 P100 BX100LB4
6.7	3897	1.3	216.5	35000	F704_216.5 S3 ME3LB4	F704_216.5 S3 MX3LB4	522	F704_216.5 P100 BE100LB4	F704_216.5 P100 BX100LB4
6.7	3845	3.6	213.6	55000	F904_213.6 S3 ME3LB4	F904_213.6 S3 MX3LB4	528	F904_213.6 P100 BE100LB4	F904_213.6 P100 BX100LB4
7.2	3720	2.2	200.0	45000	F803_200.0 S3 ME3LB4	F803_200.0 S3 MX3LB4	525	F803_200.0 P100 BE100LB4	F803_200.0 P100 BX100LB4
7.3	3646	1.4	196.0	35000	F703_196.0 S3 ME3LB4	F703_196.0 S3 MX3LB4	522	F703_196.0 P100 BE100LB4	F703_196.0 P100 BX100LB4
7.8	3434	2.3	184.6	45000	F803_184.6 S3 ME3LB4	F803_184.6 S3 MX3LB4	525	F803_184.6 P100 BE100LB4	F803_184.6 P100 BX100LB4
8.0	3366	1.5	180.9	35000	F703_180.9 S3 ME3LB4	F703_180.9 S3 MX3LB4	522	F703_180.9 P100 BE100LB4	F703_180.9 P100 BX100LB4
8.6	3100	1.6	166.7	35000	F703_166.7 S3 ME3LB4	F703_166.7 S3 MX3LB4	522	F703_166.7 P100 BE100LB4	F703_166.7 P100 BX100LB4
8.8	3030	1.0	162.9	20000	F603_162.9 S3 ME3LB4	F603_162.9 S3 MX3LB4	518	F603_162.9 P100 BE100LB4	F603_162.9 P100 BX100LB4
9.0	2980	2.7	160.2	45000	F803_160.2 S3 ME3LB4	F803_160.2 S3 MX3LB4	525	F803_160.2 P100 BE100LB4	F803_160.2 P100 BX100LB4
9.4	2862	1.7	153.8	35000	F703_153.8 S3 ME3LB4	F703_153.8 S3 MX3LB4	522	F703_153.8 P100 BE100LB4	F703_153.8 P100 BX100LB4
9.6	2797	1.0	150.4	20000	F603_150.4 S3 ME3LB4	F603_150.4 S3 MX3LB4	518	F603_150.4 P100 BE100LB4	F603_150.4 P100 BX100LB4
9.7	2751	2.9	147.9	45000	F803_147.9 S3 ME3LB4	F803_147.9 S3 MX3LB4	525	F803_147.9 P100 BE100LB4	F803_147.9 P100 BX100LB4
10.8	2473	2.0	133.0	35000	F703_133.0 S3 ME3LB4	F703_133.0 S3 MX3LB4	522	F703_133.0 P100 BE100LB4	F703_133.0 P100 BX100LB4
10.9	2468	3.2	132.7	45000	F803_132.7 S3 ME3LB4	F803_132.7 S3 MX3LB4	525	F803_132.7 P100 BE100LB4	F803_132.7 P100 BX100LB4
11.0	2427	1.2	130.5	20000	F603_130.5 S3 ME3LB4	F603_130.5 S3 MX3LB4	518	F603_130.5 P100 BE100LB4	F603_130.5 P100 BX100LB4
11.7	2283	2.2	122.7	35000	F703_122.7 S3 ME3LB4	F703_122.7 S3 MX3LB4	522	F703_122.7 P100 BE100LB4	F703_122.7 P100 BX100LB4
12.0	2240	1.3	120.5	20000	F603_120.5 S3 ME3LB4	F603_120.5 S3 MX3LB4	518	F603_120.5 P100 BE100LB4	F603_120.5 P100 BX100LB4
13.1	2039	2.5	109.6	35000	F703_109.6 S3 ME3LB4	F703_109.6 S3 MX3LB4	522	F703_109.6 P100 BE100LB4	F703_109.6 P100 BX100LB4
13.5	1979	1.5	106.4	20000	F603_106.4 S3 ME3LB4	F603_106.4 S3 MX3LB4	518	F603_106.4 P100 BE100LB4	F603_106.4 P100 BX100LB4
13.7	1955	0.9	105.1	12000	F513_105.1 S3 ME3LB4	F513_105.1 S3 MX3LB4	514	F513_105.1 P100 BE100LB4	F513_105.1 P100 BX100LB4
14.2	1882	2.7	101.2	35000	F703_101.2 S3 ME3LB4	F703_101.2 S3 MX3LB4	522	F703_101.2 P100 BE100LB4	F703_101.2 P100 BX100LB4
14.7	1826	1.6	98.2	20000	F603_98.2 S3 ME3LB4	F603_98.2 S3 MX3LB4	518	F603_98.2 P100 BE100LB4	F603_98.2 P100 BX100LB4
15.6	1721	2.9	92.5	35000	F703_92.5 S3 ME3LB4	F703_92.5 S3 MX3LB4	522	F703_92.5 P100 BE100LB4	F703_92.5 P100 BX100LB4
16.9	1588	3.1	85.4	35000	F703_85.4 S3 ME3LB4	F703_85.4 S3 MX3LB4	522	F703_85.4 P100 BE100LB4	F703_85.4 P100 BX100LB4
17.1	1563	1.9	84.0	20000	F603_84.0 S3 ME3LB4	F603_84.0 S3 MX3LB4	518	F603_84.0 P100 BE100LB4	F603_84.0 P100 BX100LB4
17.3	1548	1.2	83.2	12000	F513_83.2 S3 ME3LB4	F513_83.2 S3 MX3LB4	514	F513_83.2 P100 BE100LB4	F513_83.2 P100 BX100LB4
18.6	1443	2.0	77.6	20000	F603_77.6 S3 ME3LB4	F603_77.6 S3 MX3LB4	518	F603_77.6 P100 BE100LB4	F603_77.6 P100 BX100LB4
19.6	1368	3.7	73.6	35000	F703_73.6 S3 ME3LB4	F703_73.6 S3 MX3LB4	522	F703_73.6 P100 BE100LB4	F703_73.6 P100 BX100LB4
21.1	1270	2.3	68.3	20000	F603_68.3 S3 ME3LB4	F603_68.3 S3 MX3LB4	518	F603_68.3 P100 BE100LB4	F603_68.3 P100 BX100LB4
21.9	1225	1.5	65.8	12000	F513_65.8 S3 ME3LB4	F513_65.8 S3 MX3LB4	514	F513_65.8 P100 BE100LB4	F513_65.8 P100 BX100LB4
22.8	1172	2.5	63.0	20000	F603_63.0 S3 ME3LB4	F603_63.0 S3 MX3LB4	518	F603_63.0 P100 BE100LB4	F603_63.0 P100 BX100LB4
23.9	1121	1.0	60.2	8500	F413_60.2 S3 ME3LB4	F413_60.2 S3 MX3LB4	510	F413_60.2 P100 BE100LB4	F413_60.2 P100 BX100LB4
27.8	964	3.0	51.8	20000	F603_51.8 S3 ME3LB4	F603_51.8 S3 MX3LB4	518	F603_51.8 P100 BE100LB4	F603_51.8 P100 BX100LB4
28.0	958	1.1	51.5	8500	F413_51.5 S3 ME3LB4	F413_51.5 S3 MX3LB4	510	F413_51.5 P100 BE100LB4	F413_51.5 P100 BX100LB4
29.4	910	2.0	48.9	12000	F513_48.9 S3 ME3LB4	F513_48.9 S3 MX3LB4	514	F513_48.9 P100 BE100LB4	F513_48.9 P100 BX100LB4
30	911	1.2	47.9	8500	F412_47.9 S3 ME3LB4	F412_47.9 S3 MX3LB4	510	F412_47.9 P100 BE100LB4	F412_47.9 P100 BX100LB4
30	890	3.3	47.8	20000	F603_47.8 S3 ME3LB4	F603_47.8 S3 MX3LB4	518	F603_47.8 P100 BE100LB4	F603_47.8 P100 BX100LB4
38	725	1.5	38.2	8500	F412_38.2 S3 ME3LB4	F412_38.2 S3 MX3LB4	510	F412_38.2 P100 BE100LB4	F412_38.2 P100 BX100LB4
39	706	2.4	37.1	11800	F512_37.1 S3 ME3LB4	F512_37.1 S3 MX3LB4	514	F512_37.1 P100 BE100LB4	F512_37.1 P100 BX100LB4
42	653	0.9	34.4	5810	F312_34.4 S3 ME3LB4	F312_34.4 S3 MX3LB4	506	F312_34.4 P100 BE100LB4	F312_34.4 P100 BX100LB4
48	572	1.0	30.1	5770	F312_30.1 S3 ME3LB4	F312_30.1 S3 MX3LB4	506	F312_30.1 P100 BE100LB4	F312_30.1 P100 BX100LB4
48	572	1.9	30.1	8290	F412_30.1 S3 ME3LB4	F412_30.1 S3 MX3LB4	510	F412_30.1 P100 BE100LB4	F412_30.1 P100 BX100LB4
48	571	3.0	30.0	11200	F512_30.0 S3 ME3LB4	F512_30.0 S3 MX3LB4	514	F512_30.0 P100 BE100LB4	F512_30.0 P100 BX100LB4
53	518	1.2	27.3	5720	F312_27.3 S3 ME3LB4	F312_27.3 S3 MX3LB4	506	F312_27.3 P100 BE100LB4	F312_27.3 P100 BX100LB4

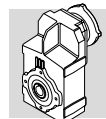


3 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IE2	IE3
60	458	2.4	24.1	7960	F412_24.1 S3 ME3LB4	F412_24.1 S3 MX3LB4	F412_24.1 P100 BE100LB4	F412_24.1 P100 BX100LB4
61	451	0.9	23.8	3100	F252_23.8 S3 ME3LB4	F252_23.8 S3 MX3LB4	F252_23.8 P100 BE100LB4	F252_23.8 P100 BX100LB4
62	444	1.4	23.4	5620	F312_23.4 S3 ME3LB4	F312_23.4 S3 MX3LB4	F312_23.4 P100 BE100LB4	F312_23.4 P100 BX100LB4
66	415	1.0	21.8	2800	F252_21.8 S3 ME3LB4	F252_21.8 S3 MX3LB4	F252_21.8 P100 BE100LB4	F252_21.8 P100 BX100LB4
68	401	1.5	21.1	5540	F312_21.1 S3 ME3LB4	F312_21.1 S3 MX3LB4	F312_21.1 P100 BE100LB4	F312_21.1 P100 BX100LB4
76	359	3.0	18.9	7560	F412_18.9 S3 ME3LB4	F412_18.9 S3 MX3LB4	F412_18.9 P100 BE100LB4	F412_18.9 P100 BX100LB4
77	354	1.1	18.6	2830	F252_18.6 S3 ME3LB4	F252_18.6 S3 MX3LB4	F252_18.6 P100 BE100LB4	F252_18.6 P100 BX100LB4
78	351	1.7	18.5	5430	F312_18.5 S3 ME3LB4	F312_18.5 S3 MX3LB4	F312_18.5 P100 BE100LB4	F312_18.5 P100 BX100LB4
84	325	3.2	17.1	7400	F412_17.1 S3 ME3LB4	F412_17.1 S3 MX3LB4	F412_17.1 P100 BE100LB4	F412_17.1 P100 BX100LB4
86	319	1.9	16.8	5340	F312_16.8 S3 ME3LB4	F312_16.8 S3 MX3LB4	F312_16.8 P100 BE100LB4	F312_16.8 P100 BX100LB4
87	316	1.3	16.6	2830	F252_16.6 S3 ME3LB4	F252_16.6 S3 MX3LB4	F252_16.6 P100 BE100LB4	F252_16.6 P100 BX100LB4
100	275	1.5	14.5	2810	F252_14.5 S3 ME3LB4	F252_14.5 S3 MX3LB4	F252_14.5 P100 BE100LB4	F252_14.5 P100 BX100LB4
103	265	2.3	13.9	5150	F312_13.9 S3 ME3LB4	F312_13.9 S3 MX3LB4	F312_13.9 P100 BE100LB4	F312_13.9 P100 BX100LB4
111	247	1.6	13.0	2790	F252_13.0 S3 ME3LB4	F252_13.0 S3 MX3LB4	F252_13.0 P100 BE100LB4	F252_13.0 P100 BX100LB4
113	242	2.5	12.7	5060	F312_12.7 S3 ME3LB4	F312_12.7 S3 MX3LB4	F312_12.7 P100 BE100LB4	F312_12.7 P100 BX100LB4
134	204	2.9	10.7	4880	F312_10.7 S3 ME3LB4	F312_10.7 S3 MX3LB4	F312_10.7 P100 BE100LB4	F312_10.7 P100 BX100LB4
136	202	2.0	10.6	2730	F252_10.6 S3 ME3LB4	F252_10.6 S3 MX3LB4	F252_10.6 P100 BE100LB4	F252_10.6 P100 BX100LB4
154	178	1.5	9.4	2710	F252_9.4 S3 ME3LB4	F252_9.4 S3 MX3LB4	F252_9.4 P100 BE100LB4	F252_9.4 P100 BX100LB4
160	171	2.3	9.0	4650	F312_9.0 S3 ME3LB4	F312_9.0 S3 MX3LB4	F312_9.0 P100 BE100LB4	F312_9.0 P100 BX100LB4
165	166	0.9	8.7	1820	F202_8.7 S3 ME3LB4	F202_8.7 S3 MX3LB4	F202_8.7 P100 BE100LB4	F202_8.7 P100 BX100LB4
172	159	1.6	8.4	2660	F252_8.4 S3 ME3LB4	F252_8.4 S3 MX3LB4	F252_8.4 P100 BE100LB4	F252_8.4 P100 BX100LB4
175	156	2.5	8.2	4550	F312_8.2 S3 ME3LB4	F312_8.2 S3 MX3LB4	F312_8.2 P100 BE100LB4	F312_8.2 P100 BX100LB4
184	149	1.0	7.8	1790	F202_7.8 S3 ME3LB4	F202_7.8 S3 MX3LB4	F202_7.8 P100 BE100LB4	F202_7.8 P100 BX100LB4
207	132	3.0	6.9	4360	F312_6.9 S3 ME3LB4	F312_6.9 S3 MX3LB4	F312_6.9 P100 BE100LB4	F312_6.9 P100 BX100LB4
210	131	2.0	6.9	2560	F252_6.9 S3 ME3LB4	F252_6.9 S3 MX3LB4	F252_6.9 P100 BE100LB4	F252_6.9 P100 BX100LB4
222	123	2.9	13.0	2510	F252_13.0 S3 ME3LB2	F202_6.4 S3 MX3LB4	F252_13.0 P100 BE100L2	F202_6.4 P100 BX100LB4
225	122	1.1	6.4	1730	F202_6.4 S3 ME3LB4		F202_6.4 P100 BE100LB4	
256	106	1.3	11.2	1680	F202_11.2 S3 ME3LB2		F202_11.2 P100 BE100L2	
271	100	3.2	10.6	2410	F252_10.6 S3 ME3LB2		F252_10.6 P100 BE100L2	
308	88	3.0	9.4	2350	F252_9.4 S3 ME3LB2		F252_9.4 P100 BE100L2	
330	83	1.5	8.7	1600	F202_8.7 S3 ME3LB2		F202_8.7 P100 BE100L2	
343	79	3.3	8.4	2290	F252_8.4 S3 ME3LB2		F252_8.4 P100 BE100L2	
368	74	1.6	7.8	1560	F202_7.8 S3 ME3LB2		F202_7.8 P100 BE100L2	
449	61	1.7	6.4	1480	F202_6.4 S3 ME3LB2		F202_6.4 P100 BE100L2	

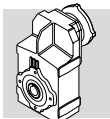
3 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE3	IE3
1.9	13922	1.0	773.4	55000		F904_773.4 P100 BXN100LB4
2.0	12851	1.1	714.0	55000		F904_714.0 P100 BXN100LB4
2.3	11261	1.2	625.6	55000		F904_625.6 P100 BXN100LB4
2.5	10395	1.3	577.5	55000		F904_577.5 P100 BXN100LB4
2.9	8920	1.6	495.6	55000		F904_495.6 P100 BXN100LB4
2.9	8804	0.9	489.1	45000		F804_489.1 P100 BXN100LB4
3.1	8234	1.7	457.5	55000		F904_457.5 P100 BXN100LB4
3.2	8127	1.0	451.5	45000		F804_451.5 P100 BXN100LB4
3.7	7056	2.0	392.0	55000		F904_392.0 P100 BXN100LB4
3.8	6897	1.2	383.2	45000		F804_383.2 P100 BXN100LB4
4.0	6513	2.1	361.8	55000		F904_361.8 P100 BXN100LB4
4.1	6366	1.3	353.7	45000		F804_353.7 P100 BXN100LB4
4.7	5478	0.9	304.3	35000		F704_304.3 P100 BXN100LB4
4.9	5341	1.5	296.7	45000		F804_296.7 P100 BXN100LB4
4.9	5240	2.7	291.1	55000		F904_291.1 P100 BXN100LB4
5.1	5057	1.0	280.9	35000		F704_280.9 P100 BXN100LB4
5.3	4930	1.6	273.9	45000		F804_273.9 P100 BXN100LB4
5.4	4837	2.9	268.7	55000		F904_268.7 P100 BXN100LB4
6.1	4222	1.2	234.6	35000		F704_234.6 P100 BXN100LB4
6.2	4165	3.4	231.4	55000		F904_231.4 P100 BXN100LB4
6.6	3933	2.0	218.5	45000		F804_218.5 P100 BXN100LB4



3 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IE3	IE3
6.7	3897	1.3	216.5	35000		F704_216.5 P100 BXN100LB4	523
6.7	3845	3.6	213.6	55000		F904_213.6 P100 BXN100LB4	529
7.2	3720	2.2	200.0	45000		F803_200.0 P100 BXN100LB4	526
7.3	3646	1.4	196.0	35000		F703_196.0 P100 BXN100LB4	523
7.8	3434	2.3	184.6	45000		F803_184.6 P100 BXN100LB4	526
8.0	3366	1.5	180.9	35000		F703_180.9 P100 BXN100LB4	523
8.6	3100	1.6	166.7	35000		F703_166.7 P100 BXN100LB4	523
8.8	3030	1.0	162.9	20000		F603_162.9 P100 BXN100LB4	519
9.0	2980	2.7	160.2	45000		F803_160.2 P100 BXN100LB4	526
9.4	2862	1.7	153.8	35000		F703_153.8 P100 BXN100LB4	523
9.6	2797	1.0	150.4	20000		F603_150.4 P100 BXN100LB4	519
9.7	2751	2.9	147.9	45000		F803_147.9 P100 BXN100LB4	526
10.8	2473	2.0	133.0	35000		F703_133.0 P100 BXN100LB4	523
10.9	2468	3.2	132.7	45000		F803_132.7 P100 BXN100LB4	526
11.0	2427	1.2	130.5	20000		F603_130.5 P100 BXN100LB4	519
11.7	2283	2.2	122.7	35000		F703_122.7 P100 BXN100LB4	523
12.0	2240	1.3	120.5	20000		F603_120.5 P100 BXN100LB4	519
13.1	2039	2.5	109.6	35000		F703_109.6 P100 BXN100LB4	523
13.5	1979	1.5	106.4	20000		F603_106.4 P100 BXN100LB4	519
13.7	1955	0.9	105.1	12000		F513_105.1 P100 BXN100LB4	515
14.2	1882	2.7	101.2	35000		F703_101.2 P100 BXN100LB4	523
14.7	1826	1.6	98.2	20000		F603_98.2 P100 BXN100LB4	519
15.6	1721	2.9	92.5	35000		F703_92.5 P100 BXN100LB4	523
16.9	1588	3.1	85.4	35000		F703_85.4 P100 BXN100LB4	523
17.1	1563	1.9	84.0	20000		F603_84.0 P100 BXN100LB4	519
17.3	1548	1.2	83.2	12000		F513_83.2 P100 BXN100LB4	515
18.6	1443	2.0	77.6	20000		F603_77.6 P100 BXN100LB4	519
19.6	1368	3.7	73.6	35000		F703_73.6 P100 BXN100LB4	523
21.1	1270	2.3	68.3	20000		F603_68.3 P100 BXN100LB4	519
21.9	1225	1.5	65.8	12000		F513_65.8 P100 BXN100LB4	515
22.8	1172	2.5	63.0	20000		F603_63.0 P100 BXN100LB4	519
23.9	1121	1.0	60.2	8500		F413_60.2 P100 BXN100LB4	511
27.8	964	3.0	51.8	20000		F603_51.8 P100 BXN100LB4	519
28.0	958	1.1	51.5	8500		F413_51.5 P100 BXN100LB4	511
29.4	910	2.0	48.9	12000		F513_48.9 P100 BXN100LB4	515
30	911	1.2	47.9	8500		F412_47.9 P100 BXN100LB4	511
30	890	3.3	47.8	20000		F603_47.8 P100 BXN100LB4	519
38	725	1.5	38.2	8500		F412_38.2 P100 BXN100LB4	511
39	706	2.4	37.1	11800		F512_37.1 P100 BXN100LB4	515
42	653	0.9	34.4	5810		F312_34.4 P100 BXN100LB4	507
48	572	1.0	30.1	5770		F312_30.1 P100 BXN100LB4	507
48	572	1.9	30.1	8290		F412_30.1 P100 BXN100LB4	511
48	571	3.0	30.0	11200		F512_30.0 P100 BXN100LB4	515
53	518	1.2	27.3	5720		F312_27.3 P100 BXN100LB4	507
60	458	2.4	24.1	7960		F412_24.1 P100 BXN100LB4	511
61	451	0.9	23.8	3100		F252_23.8 P100 BXN100LB4	503
62	444	1.4	23.4	5620		F312_23.4 P100 BXN100LB4	507
66	415	1.0	21.8	2800		F252_21.8 P100 BXN100LB4	503
68	401	1.5	21.1	5540		F312_21.1 P100 BXN100LB4	507
76	359	3.0	18.9	7560		F412_18.9 P100 BXN100LB4	511
77	354	1.1	18.6	2830		F252_18.6 P100 BXN100LB4	503
78	351	1.7	18.5	5430		F312_18.5 P100 BXN100LB4	507
84	325	3.2	17.1	7400		F412_17.1 P100 BXN100LB4	511
86	319	1.9	16.8	5340		F312_16.8 P100 BXN100LB4	507
87	316	1.3	16.6	2830		F252_16.6 P100 BXN100LB4	503
100	275	1.5	14.5	2810		F252_14.5 P100 BXN100LB4	503
103	265	2.3	13.9	5150		F312_13.9 P100 BXN100LB4	507
111	247	1.6	13.0	2790		F252_13.0 P100 BXN100LB4	503
113	242	2.5	12.7	5060		F312_12.7 P100 BXN100LB4	507
134	204	2.9	10.7	4880		F312_10.7 P100 BXN100LB4	507
136	202	2.0	10.6	2730		F252_10.6 P100 BXN100LB4	503
154	178	1.5	9.4	2710		F252_9.4 P100 BXN100LB4	503
160	171	2.3	9.0	4650		F312_9.0 P100 BXN100LB4	507
165	166	0.9	8.7	1820		F202_8.7 P100 BXN100LB4	499
172	159	1.6	8.4	2660		F252_8.4 P100 BXN100LB4	503

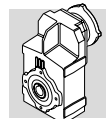


3 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IEC	 IE3
175	156	2.5	8.2	4550		F312_8.2 P100 BXN100LB4	507
184	149	1.0	7.8	1790		F202_7.8 P100 BXN100LB4	499
207	132	3.0	6.9	4360		F312_6.9 P100 BXN100LB4	507
210	131	2.0	6.9	2560		F252_6.9 P100 BXN100LB4	503
225	122	1.1	6.4	1730		F202_6.4 P100 BXN100LB4	499

4 kW

n ₂	M ₂	S	i	R _{n2}	IEC					
min ⁻¹	Nm			N	IE2	IE3	IE2	IE3		
2.3	15202	0.9	625.6	55000	F904_625.6 S4 ME4SA4	F904_625.6 S4 MX4SA4	528	F904_625.6 P112 BE112M4	F904_625.6 P112 BX112M4	529
2.5	14033	1.0	577.5	55000	F904_577.5 S4 ME4SA4	F904_577.5 S4 MX4SA4	528	F904_577.5 P112 BE112M4	F904_577.5 P112 BX112M4	529
2.9	12042	1.2	495.6	55000	F904_495.6 S4 ME4SA4	F904_495.6 S4 MX4SA4	528	F904_495.6 P112 BE112M4	F904_495.6 P112 BX112M4	529
3.1	11116	1.3	457.5	55000	F904_457.5 S4 ME4SA4	F904_457.5 S4 MX4SA4	528	F904_457.5 P112 BE112M4	F904_457.5 P112 BX112M4	529
3.7	9526	1.5	392.0	55000	F904_392.0 S4 ME4SA4	F904_392.0 S4 MX4SA4	528	F904_392.0 P112 BE112M4	F904_392.0 P112 BX112M4	529
4.0	8793	1.6	361.8	55000	F904_361.8 S4 ME4SA4	F904_361.8 S4 MX4SA4	528	F904_361.8 P112 BE112M4	F904_361.8 P112 BX112M4	529
4.1	8594	0.9	353.7	45000	F804_353.7 S4 ME4SA4	F804_353.7 S4 MX4SA4	525	F804_353.7 P112 BE112M4	F804_353.7 P112 BX112M4	526
4.9	7210	1.1	296.7	45000	F804_296.7 S4 ME4SA4	F804_296.7 S4 MX4SA4	525	F804_296.7 P112 BE112M4	F804_296.7 P112 BX112M4	526
4.9	7074	2.0	291.1	55000	F904_291.1 S4 ME4SA4	F904_291.1 S4 MX4SA4	528	F904_291.1 P112 BE112M4	F904_291.1 P112 BX112M4	529
5.3	6656	1.2	273.9	45000	F804_273.9 S4 ME4SA4	F804_273.9 S4 MX4SA4	525	F804_273.9 P112 BE112M4	F804_273.9 P112 BX112M4	526
5.4	6530	2.1	268.7	55000	F904_268.7 S4 ME4SA4	F904_268.7 S4 MX4SA4	528	F904_268.7 P112 BE112M4	F904_268.7 P112 BX112M4	529
6.1	5700	0.9	234.6	35000	F704_234.6 S4 ME4SA4	F704_234.6 S4 MX4SA4	522	F704_234.6 P112 BE112M4	F704_234.6 P112 BX112M4	523
6.2	5623	2.5	231.4	55000	F904_231.4 S4 ME4SA4	F904_231.4 S4 MX4SA4	528	F904_231.4 P112 BE112M4	F904_231.4 P112 BX112M4	529
6.6	5309	1.5	218.5	45000	F804_218.5 S4 ME4SA4	F804_218.5 S4 MX4SA4	525	F804_218.5 P112 BE112M4	F804_218.5 P112 BX112M4	526
6.7	5262	1.0	216.5	35000	F704_216.5 S4 ME4SA4	F704_216.5 S4 MX4SA4	522	F704_216.5 P112 BE112M4	F704_216.5 P112 BX112M4	523
6.7	5190	2.7	213.6	55000	F904_213.6 S4 ME4SA4	F904_213.6 S4 MX4SA4	528	F904_213.6 P112 BE112M4	F904_213.6 P112 BX112M4	529
7.2	5022	1.6	200.0	45000	F803_200.0 S4 ME4SA4	F803_200.0 S4 MX4SA4	525	F803_200.0 P112 BE112M4	F803_200.0 P112 BX112M4	526
7.3	4922	1.0	196.0	35000	F703_196.0 S4 ME4SA4	F703_196.0 S4 MX4SA4	522	F703_196.0 P112 BE112M4	F703_196.0 P112 BX112M4	523
7.4	4875	2.9	194.2	55000	F903_194.2 S4 ME4SA4	F903_194.2 S4 MX4SA4	528	F903_194.2 P112 BE112M4	F903_194.2 P112 BX112M4	529
7.8	4636	1.7	184.6	45000	F803_184.6 S4 ME4SA4	F803_184.6 S4 MX4SA4	525	F803_184.6 P112 BE112M4	F803_184.6 P112 BX112M4	526
8.0	4544	1.1	180.9	35000	F703_180.9 S4 ME4SA4	F703_180.9 S4 MX4SA4	522	F703_180.9 P112 BE112M4	F703_180.9 P112 BX112M4	523
8.0	4500	3.1	179.2	55000	F903_179.2 S4 ME4SA4	F903_179.2 S4 MX4SA4	528	F903_179.2 P112 BE112M4	F903_179.2 P112 BX112M4	529
8.6	4185	1.2	166.7	35000	F703_166.7 S4 ME4SA4	F703_166.7 S4 MX4SA4	522	F703_166.7 P112 BE112M4	F703_166.7 P112 BX112M4	523
8.8	4089	3.4	162.8	55000	F903_162.8 S4 ME4SA4	F903_162.8 S4 MX4SA4	528	F903_162.8 P112 BE112M4	F903_162.8 P112 BX112M4	529
9.0	4023	2.0	160.2	45000	F803_160.2 S4 ME4SA4	F803_160.2 S4 MX4SA4	525	F803_160.2 P112 BE112M4	F803_160.2 P112 BX112M4	526
9.4	3863	1.3	153.8	35000	F703_153.8 S4 ME4SA4	F703_153.8 S4 MX4SA4	522	F703_153.8 P112 BE112M4	F703_153.8 P112 BX112M4	523
9.7	3714	2.2	147.9	45000	F803_147.9 S4 ME4SA4	F803_147.9 S4 MX4SA4	525	F803_147.9 P112 BE112M4	F803_147.9 P112 BX112M4	526
10.8	3338	1.5	133.0	35000	F703_133.0 S4 ME4SA4	F703_133.0 S4 MX4SA4	522	F703_133.0 P112 BE112M4	F703_133.0 P112 BX112M4	523
10.9	3332	2.4	132.7	45000	F803_132.7 S4 ME4SA4	F803_132.7 S4 MX4SA4	525	F803_132.7 P112 BE112M4	F803_132.7 P112 BX112M4	526
11.0	3277	0.9	130.5	20000	F603_130.5 S4 ME4SA4	F603_130.5 S4 MX4SA4	518	F603_130.5 P112 BE112M4	F603_130.5 P112 BX112M4	519
11.7	3082	1.6	122.7	35000	F703_122.7 S4 ME4SA4	F703_122.7 S4 MX4SA4	522	F703_122.7 P112 BE112M4	F703_122.7 P112 BX112M4	523
11.8	3076	2.6	122.5	45000	F803_122.5 S4 ME4SA4	F803_122.5 S4 MX4SA4	525	F803_122.5 P112 BE112M4	F803_122.5 P112 BX112M4	526
12.0	3025	1.0	120.5	20000	F603_120.5 S4 ME4SA4	F603_120.5 S4 MX4SA4	518	F603_120.5 P112 BE112M4	F603_120.5 P112 BX112M4	519
12.7	2856	2.8	113.8	45000	F803_113.8 S4 ME4SA4	F803_113.8 S4 MX4SA4	525	F803_113.8 P112 BE112M4	F803_113.8 P112 BX112M4	526
13.1	2752	1.8	109.6	35000	F703_109.6 S4 ME4SA4	F703_109.6 S4 MX4SA4	522	F703_109.6 P112 BE112M4	F703_109.6 P112 BX112M4	523
13.5	2671	1.1	106.4	20000	F603_106.4 S4 ME4SA4	F603_106.4 S4 MX4SA4	518	F603_106.4 P112 BE112M4	F603_106.4 P112 BX112M4	519
13.7	2637	3.0	105.0	45000	F803_105.0 S4 ME4SA4	F803_105.0 S4 MX4SA4	525	F803_105.0 P112 BE112M4	F803_105.0 P112 BX112M4	526
14.2	2541	2.0	101.2	35000	F703_101.2 S4 ME4SA4	F703_101.2 S4 MX4SA4	522	F703_101.2 P112 BE112M4	F703_101.2 P112 BX112M4	523
14.7	2466	1.2	98.2	20000	F603_98.2 S4 ME4SA4	F603_98.2 S4 MX4SA4	518	F603_98.2 P112 BE112M4	F603_98.2 P112 BX112M4	519
15.6	2323	2.2	92.5	35000	F703_92.5 S4 ME4SA4	F703_92.5 S4 MX4SA4	522	F703_92.5 P112 BE112M4	F703_92.5 P112 BX112M4	523
16.9	2144	2.3	85.4	35000	F703_85.4 S4 ME4SA4	F703_85.4 S4 MX4SA4	522	F703_85.4 P112 BE112M4	F703_85.4 P112 BX112M4	523
17.1	2110	1.4	84.0	20000	F603_84.0 S4 ME4SA4	F603_84.0 S4 MX4SA4	518	F603_84.0 P112 BE112M4	F603_84.0 P112 BX112M4	519
18.6	1947	1.5	77.6	20000	F603_77.6 S4 ME4SA4	F603_77.6 S4 MX4SA4	518	F603_77.6 P112 BE112M4	F603_77.6 P112 BX112M4	519
19.6	1847	2.7	73.6	35000	F703_73.6 S4 ME4SA4	F703_73.6 S4 MX4SA4	522			
21.1	1715	1.7	68.3	20000	F603_68.3 S4 ME4SA4	F603_68.3 S4 MX4SA4	518	F603_68.3 P112 BE112M4	F603_68.3 P112 BX112M4	519
21.2	1705	2.9	67.9	35000	F703_67.9 S4 ME4SA4	F703_67.9 S4 MX4SA4	522			

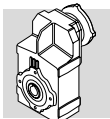


4 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC	IE2	IE3
21.9	1653	1.1	65.8	12000	F513_65.8 S4 ME4SA4	F513_65.8 S4 MX4SA4	514	F513_65.8 P112 BE112M4	F513_65.8 P112 BX112M4
22.8	1583	1.8	63.0	20000	F603_63.0 S4 ME4SA4	F603_63.0 S4 MX4SA4	518	F603_63.0 P112 BE112M4	F603_63.0 P112 BX112M4
23.0	1569	3.2	62.5	35000	F703_62.5 S4 ME4SA4	F703_62.5 S4 MX4SA4	522		
25.0	1449	3.5	57.7	35000	F703_57.7 S4 ME4SA4	F703_57.7 S4 MX4SA4	522		
27.8	1301	2.2	51.8	20000	F603_51.8 S4 ME4SA4	F603_51.8 S4 MX4SA4	518	F603_51.8 P112 BE112M4	F603_51.8 P112 BX112M4
29.4	1228	1.5	48.9	11600	F513_48.9 S4 ME4SA4	F513_48.9 S4 MX4SA4	514	F513_48.9 P112 BE112M4	F513_48.9 P112 BX112M4
30	1201	2.4	47.8	20000	F603_47.8 S4 ME4SA4	F603_47.8 S4 MX4SA4	518	F603_47.8 P112 BE112M4	F603_47.8 P112 BX112M4
34	1057	2.7	42.1	20000	F603_42.1 S4 ME4SA4	F603_42.1 S4 MX4SA4	518	F603_42.1 P112 BE112M4	F603_42.1 P112 BX112M4
37	975	3.0	38.8	20000	F603_38.8 S4 ME4SA4	F603_38.8 S4 MX4SA4	518	F603_38.8 P112 BE112M4	F603_38.8 P112 BX112M4
38	979	1.1	38.2	7720	F412_38.2 S4 ME4SA4	F412_38.2 S4 MX4SA4	510	F412_38.2 P112 BE112M4	F412_38.2 P112 BX112M4
39	953	1.8	37.1	11200	F512_37.1 S4 ME4SA4	F512_37.1 S4 MX4SA4	514	F512_37.1 P112 BE112M4	F512_37.1 P112 BX112M4
45	806	3.6	32.1	20000	F603_32.1 S4 ME4SA4	F603_32.1 S4 MX4SA4	518		
48	773	1.4	30.1	7610	F412_30.1 S4 ME4SA4	F412_30.1 S4 MX4SA4	510	F412_30.1 P112 BE112M4	F412_30.1 P112 BX112M4
48	770	2.2	30.0	10700	F512_30.0 S4 ME4SA4	F512_30.0 S4 MX4SA4	514	F512_30.0 P112 BE112M4	F512_30.0 P112 BX112M4
57	638	3.0	25.4	20000	F603_25.4 S4 ME4SA4	F603_25.4 S4 MX4SA4	518	F603_25.4 P112 BE112M4	F603_25.4 P112 BX112M4
60	619	1.8	24.1	7420	F412_24.1 S4 ME4SA4	F412_24.1 S4 MX4SA4	510	F412_24.1 P112 BE112M4	F412_24.1 P112 BX112M4
61	610	2.7	23.8	10200	F512_23.8 S4 ME4SA4	F512_23.8 S4 MX4SA4	514	F512_23.8 P112 BE112M4	F512_23.8 P112 BX112M4
61	589	3.2	23.5	20000	F603_23.5 S4 ME4SA4	F603_23.5 S4 MX4SA4	518	F603_23.5 P112 BE112M4	F603_23.5 P112 BX112M4
62	600	1.0	23.4	5040	F312_23.4 S4 ME4SA4	F312_23.4 S4 MX4SA4	506	F312_23.4 P112 BE112M4	F312_23.4 P112 BX112M4
68	542	1.1	21.1	5020	F312_21.1 S4 ME4SA4	F312_21.1 S4 MX4SA4	506	F312_21.1 P112 BE112M4	F312_21.1 P112 BX112M4
76	485	2.2	18.9	7150	F412_18.9 S4 ME4SA4	F412_18.9 S4 MX4SA4	510	F412_18.9 P112 BE112M4	F412_18.9 P112 BX112M4
77	483	3.2	18.8	9640	F512_18.8 S4 ME4SA4	F512_18.8 S4 MX4SA4	514	F512_18.8 P112 BE112M4	F512_18.8 P112 BX112M4
78	474	1.3	18.5	4980	F312_18.5 S4 ME4SA4	F312_18.5 S4 MX4SA4	506	F312_18.5 P112 BE112M4	F312_18.5 P112 BX112M4
84	439	2.4	17.1	7030	F412_17.1 S4 ME4SA4	F412_17.1 S4 MX4SA4	510	F412_17.1 P112 BE112M4	F412_17.1 P112 BX112M4
86	431	1.4	16.8	4930	F312_16.8 S4 ME4SA4	F312_16.8 S4 MX4SA4	506	F312_16.8 P112 BE112M4	F312_16.8 P112 BX112M4
98	375	2.7	14.6	6820	F412_14.6 S4 ME4SA4	F412_14.6 S4 MX4SA4	510	F412_14.6 P112 BE112M4	F412_14.6 P112 BX112M4
103	358	1.7	13.9	4820	F312_13.9 S4 ME4SA4	F312_13.9 S4 MX4SA4	506	F312_13.9 P112 BE112M4	F312_13.9 P112 BX112M4
113	326	1.8	12.7	4750	F312_12.7 S4 ME4SA4	F312_12.7 S4 MX4SA4	506	F312_12.7 P112 BE112M4	F312_12.7 P112 BX112M4
134	276	3.3	10.8	6380	F412_10.8 S4 ME4SA4	F412_10.8 S4 MX4SA4	510	F412_10.8 P112 BE112M4	F412_10.8 P112 BX112M4
134	276	2.2	10.7	4620	F312_10.7 S4 ME4SA4	F312_10.7 S4 MX4SA4	506	F312_10.7 P112 BE112M4	F312_10.7 P112 BX112M4
158	234	3.0	9.1	6160	F412_9.1 S4 ME4SA4	F412_9.1 S4 MX4SA4	510	F412_9.1 P112 BE112M4	F412_9.1 P112 BX112M4
160	231	1.7	9.0	4420	F312_9.0 S4 ME4SA4	F312_9.0 S4 MX4SA4	506	F312_9.0 P112 BE112M4	F312_9.0 P112 BX112M4
175	211	1.8	8.2	4350	F312_8.2 S4 ME4SA4	F312_8.2 S4 MX4SA4	506	F312_8.2 P112 BE112M4	F312_8.2 P112 BX112M4
207	178	2.2	6.9	4200	F312_6.9 S4 ME4SA4	F312_6.9 S4 MX4SA4	506	F312_6.9 P112 BE112M4	F312_6.9 P112 BX112M4
228	159	3.5	12.7	4120	F312_12.7 S4 ME4SA2		506	F312_12.7 P112 BE112M2	
322	113	3.4	9.0	3760	F312_9.0 S4 ME4SA2		506	F312_9.0 P112 BE112M2	

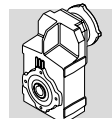
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC	IE3
2.3	15202	0.9	625.6	55000		F904_625.6 P112 BXN112M4	529
2.5	14033	1.0	577.5	55000		F904_577.5 P112 BXN112M4	529
2.9	12042	1.2	495.6	55000		F904_495.6 P112 BXN112M4	529
3.1	11116	1.3	457.5	55000		F904_457.5 P112 BXN112M4	529
3.7	9526	1.5	392.0	55000		F904_392.0 P112 BXN112M4	529
4.0	8793	1.6	361.8	55000		F904_361.8 P112 BXN112M4	529
4.1	8594	0.9	353.7	45000		F804_353.7 P112 BXN112M4	526
4.9	7210	1.1	296.7	45000		F804_296.7 P112 BXN112M4	526
4.9	7074	2.0	291.1	55000		F904_291.1 P112 BXN112M4	529
5.3	6656	1.2	273.9	45000		F804_273.9 P112 BXN112M4	526
5.4	6530	2.1	268.7	55000		F904_268.7 P112 BXN112M4	529
6.1	5700	0.9	234.6	35000		F704_234.6 P112 BXN112M4	523
6.2	5623	2.5	231.4	55000		F904_231.4 P112 BXN112M4	529
6.6	5309	1.5	218.5	45000		F804_218.5 P112 BXN112M4	526
6.7	5262	1.0	216.5	35000		F704_216.5 P112 BXN112M4	523



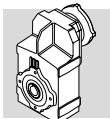
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IE3	IE3
6.7	5190	2.7	213.6	55000		F904_213.6 P112 BXN112M4	529
7.2	5022	1.6	200.0	45000		F803_200.0 P112 BXN112M4	526
7.3	4922	1.0	196.0	35000		F703_196.0 P112 BXN112M4	523
7.4	4875	2.9	194.2	55000		F903_194.2 P112 BXN112M4	529
7.8	4636	1.7	184.6	45000		F803_184.6 P112 BXN112M4	526
8.0	4544	1.1	180.9	35000		F703_180.9 P112 BXN112M4	523
8.0	4500	3.1	179.2	55000		F903_179.2 P112 BXN112M4	529
8.6	4185	1.2	166.7	35000		F703_166.7 P112 BXN112M4	523
8.8	4089	3.4	162.8	55000		F903_162.8 P112 BXN112M4	529
9.0	4023	2.0	160.2	45000		F803_160.2 P112 BXN112M4	526
9.4	3863	1.3	153.8	35000		F703_153.8 P112 BXN112M4	523
9.7	3714	2.2	147.9	45000		F803_147.9 P112 BXN112M4	526
10.8	3338	1.5	133.0	35000		F703_133.0 P112 BXN112M4	523
10.9	3332	2.4	132.7	45000		F803_132.7 P112 BXN112M4	526
11.0	3277	0.9	130.5	20000		F603_130.5 P112 BXN112M4	519
11.7	3082	1.6	122.7	35000		F703_122.7 P112 BXN112M4	523
11.8	3076	2.6	122.5	45000		F803_122.5 P112 BXN112M4	526
12.0	3025	1.0	120.5	20000		F603_120.5 P112 BXN112M4	519
12.7	2856	2.8	113.8	45000		F803_113.8 P112 BXN112M4	526
13.1	2752	1.8	109.6	35000		F703_109.6 P112 BXN112M4	523
13.5	2671	1.1	106.4	20000		F603_106.4 P112 BXN112M4	519
13.7	2637	3.0	105.0	45000		F803_105.0 P112 BXN112M4	526
14.2	2541	2.0	101.2	35000		F703_101.2 P112 BXN112M4	523
14.7	2466	1.2	98.2	20000		F603_98.2 P112 BXN112M4	519
15.6	2323	2.2	92.5	35000		F703_92.5 P112 BXN112M4	523
16.9	2144	2.3	85.4	35000		F703_85.4 P112 BXN112M4	523
17.1	2110	1.4	84.0	20000		F603_84.0 P112 BXN112M4	519
18.6	1947	1.5	77.6	20000		F603_77.6 P112 BXN112M4	519
21.1	1715	1.7	68.3	20000		F603_68.3 P112 BXN112M4	519
21.9	1653	1.1	65.8	12000		F513_65.8 P112 BXN112M4	515
22.8	1583	1.8	63.0	20000		F603_63.0 P112 BXN112M4	519
27.8	1301	2.2	51.8	20000		F603_51.8 P112 BXN112M4	519
29.4	1228	1.5	48.9	11600		F513_48.9 P112 BXN112M4	515
30	1201	2.4	47.8	20000		F603_47.8 P112 BXN112M4	519
34	1057	2.7	42.1	20000		F603_42.1 P112 BXN112M4	519
37	975	3.0	38.8	20000		F603_38.8 P112 BXN112M4	519
38	979	1.1	38.2	7720		F412_38.2 P112 BXN112M4	511
39	953	1.8	37.1	11200		F512_37.1 P112 BXN112M4	515
48	773	1.4	30.1	7610		F412_30.1 P112 BXN112M4	511
48	770	2.2	30.0	10700		F512_30.0 P112 BXN112M4	515
57	638	3.0	25.4	20000		F603_25.4 P112 BXN112M4	519
60	619	1.8	24.1	7420		F412_24.1 P112 BXN112M4	511
61	610	2.7	23.8	10200		F512_23.8 P112 BXN112M4	515
61	589	3.2	23.5	20000		F603_23.5 P112 BXN112M4	519
62	600	1.0	23.4	5040		F312_23.4 P112 BXN112M4	507
68	542	1.1	21.1	5020		F312_21.1 P112 BXN112M4	507
76	485	2.2	18.9	7150		F412_18.9 P112 BXN112M4	511
77	483	3.2	18.8	9640		F512_18.8 P112 BXN112M4	515
78	474	1.3	18.5	4980		F312_18.5 P112 BXN112M4	507
84	439	2.4	17.1	7030		F412_17.1 P112 BXN112M4	511
86	431	1.4	16.8	4930		F312_16.8 P112 BXN112M4	507
98	375	2.7	14.6	6820		F412_14.6 P112 BXN112M4	511
103	358	1.7	13.9	4820		F312_13.9 P112 BXN112M4	507
113	326	1.8	12.7	4750		F312_12.7 P112 BXN112M4	507
134	276	3.3	10.8	6380		F412_10.8 P112 BXN112M4	511
134	276	2.2	10.7	4620		F312_10.7 P112 BXN112M4	507
158	234	3.0	9.1	6160		F412_9.1 P112 BXN112M4	511
160	231	1.7	9.0	4420		F312_9.0 P112 BXN112M4	507
175	211	1.8	8.2	4350		F312_8.2 P112 BXN112M4	507
207	178	2.2	6.9	4200		F312_6.9 P112 BXN112M4	507



5.5 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IE2	IE3
2.9	16057	0.9	495.6	55000	F904_495.6 S4 ME4SB4	F904_495.6 S4 MX4SB4	F904_495.6 P132 BE132S4	F904_495.6 P132 BX132SB4
3.2	14821	0.9	457.5	55000	F904_457.5 S4 ME4SB4	F904_457.5 S4 MX4SB4	F904_457.5 P132 BE132S4	F904_457.5 P132 BX132SB4
3.7	12701	1.1	392.0	55000	F904_392.0 S4 ME4SB4	F904_392.0 S4 MX4SB4	F904_392.0 P132 BE132S4	F904_392.0 P132 BX132SB4
4.0	11724	1.2	361.8	55000	F904_361.8 S4 ME4SB4	F904_361.8 S4 MX4SB4	F904_361.8 P132 BE132S4	F904_361.8 P132 BX132SB4
5.0	9432	1.5	291.1	55000	F904_291.1 S4 ME4SB4	F904_291.1 S4 MX4SB4	F904_291.1 P132 BE132S4	F904_291.1 P132 BX132SB4
5.3	8874	0.9	273.9	45000	F804_273.9 S4 ME4SB4	F804_273.9 S4 MX4SB4	F804_273.9 P132 BE132S4	F804_273.9 P132 BX132SB4
5.4	8707	1.6	268.7	55000	F904_268.7 S4 ME4SB4	F904_268.7 S4 MX4SB4	F904_268.7 P132 BE132S4	F904_268.7 P132 BX132SB4
6.3	7497	1.9	231.4	55000	F904_231.4 S4 ME4SB4	F904_231.4 S4 MX4SB4	F904_231.4 P132 BE132S4	F904_231.4 P132 BX132SB4
6.7	7079	1.1	218.5	45000	F804_218.5 S4 ME4SB4	F804_218.5 S4 MX4SB4	F804_218.5 P132 BE132S4	F804_218.5 P132 BX132SB4
6.8	6920	2.0	213.6	55000	F904_213.6 S4 ME4SB4	F904_213.6 S4 MX4SB4	F904_213.6 P132 BE132S4	F904_213.6 P132 BX132SB4
7.3	6696	1.2	200.0	45000	F803_200.0 S4 ME4SB4	F803_200.0 S4 MX4SB4	F803_200.0 P132 BE132S4	F803_200.0 P132 BX132SB4
7.5	6500	2.2	194.2	55000	F903_194.2 S4 ME4SB4	F903_194.2 S4 MX4SB4	F903_194.2 P132 BE132S4	F903_194.2 P132 BX132SB4
7.9	6181	1.3	184.6	45000	F803_184.6 S4 ME4SB4	F803_184.6 S4 MX4SB4	F803_184.6 P132 BE132S4	F803_184.6 P132 BX132SB4
8.1	6000	2.3	179.2	55000	F903_179.2 S4 ME4SB4	F903_179.2 S4 MX4SB4	F903_179.2 P132 BE132S4	F903_179.2 P132 BX132SB4
8.8	5580	0.9	166.7	35000	F703_166.7 S4 ME4SB4	F703_166.7 S4 MX4SB4	F703_166.7 P132 BE132S4	F703_166.7 P132 BX132SB4
9.0	5452	2.6	162.8	55000	F903_162.8 S4 ME4SB4	F903_162.8 S4 MX4SB4	F903_162.8 P132 BE132S4	F903_162.8 P132 BX132SB4
9.1	5364	1.5	160.2	45000	F803_160.2 S4 ME4SB4	F803_160.2 S4 MX4SB4	F803_160.2 P132 BE132S4	F803_160.2 P132 BX132SB4
9.5	5151	1.0	153.8	35000	F703_153.8 S4 ME4SB4	F703_153.8 S4 MX4SB4	F703_153.8 P132 BE132S4	F703_153.8 P132 BX132SB4
9.7	5032	2.8	150.3	55000	F903_150.3 S4 ME4SB4	F903_150.3 S4 MX4SB4	F903_150.3 P132 BE132S4	F903_150.3 P132 BX132SB4
9.9	4952	1.6	147.9	45000	F803_147.9 S4 ME4SB4	F803_147.9 S4 MX4SB4	F803_147.9 P132 BE132S4	F803_147.9 P132 BX132SB4
10.6	4598	3.0	137.3	55000	F903_137.3 S4 ME4SB4	F903_137.3 S4 MX4SB4	F903_137.3 P132 BE132S4	F903_137.3 P132 BX132SB4
11.0	4451	1.1	133.0	35000	F703_133.0 S4 ME4SB4	F703_133.0 S4 MX4SB4	F703_133.0 P132 BE132S4	F703_133.0 P132 BX132SB4
11.0	4443	1.8	132.7	45000	F803_132.7 S4 ME4SB4	F803_132.7 S4 MX4SB4	F803_132.7 P132 BE132S4	F803_132.7 P132 BX132SB4
11.5	4244	3.3	126.8	55000	F903_126.8 S4 ME4SB4	F903_126.8 S4 MX4SB4	F903_126.8 P132 BE132S4	F903_126.8 P132 BX132SB4
11.9	4109	1.2	122.7	35000	F703_122.7 S4 ME4SB4	F703_122.7 S4 MX4SB4	F703_122.7 P132 BE132S4	F703_122.7 P132 BX132SB4
11.9	4101	2.0	122.5	45000	F803_122.5 S4 ME4SB4	F803_122.5 S4 MX4SB4	F803_122.5 P132 BE132S4	F803_122.5 P132 BX132SB4
12.8	3808	2.1	113.8	45000	F803_113.8 S4 ME4SB4	F803_113.8 S4 MX4SB4	F803_113.8 P132 BE132S4	F803_113.8 P132 BX132SB4
13.3	3670	1.4	109.6	35000	F703_109.6 S4 ME4SB4	F703_109.6 S4 MX4SB4	F703_109.6 P132 BE132S4	F703_109.6 P132 BX132SB4
13.9	3515	2.3	105.0	45000	F803_105.0 S4 ME4SB4	F803_105.0 S4 MX4SB4	F803_105.0 P132 BE132S4	F803_105.0 P132 BX132SB4
14.4	3388	1.5	101.2	35000	F703_101.2 S4 ME4SB4	F703_101.2 S4 MX4SB4	F703_101.2 P132 BE132S4	F703_101.2 P132 BX132SB4
15.8	3097	1.6	92.5	35000	F703_92.5 S4 ME4SB4	F703_92.5 S4 MX4SB4	F703_92.5 P132 BE132S4	F703_92.5 P132 BX132SB4
15.8	3090	2.6	92.3	45000	F803_92.3 S4 ME4SB4	F803_92.3 S4 MX4SB4	F803_92.3 P132 BE132S4	F803_92.3 P132 BX132SB4
17.1	2859	1.7	85.4	35000	F703_85.4 S4 ME4SB4	F703_85.4 S4 MX4SB4	F703_85.4 P132 BE132S4	F703_85.4 P132 BX132SB4
17.1	2853	2.8	85.2	45000	F803_85.2 S4 ME4SB4	F803_85.2 S4 MX4SB4	F803_85.2 P132 BE132S4	F803_85.2 P132 BX132SB4
17.4	2813	1.0	84.0	20000	F603_84.0 S4 ME4SB4	F603_84.0 S4 MX4SB4	F603_84.0 P132 BE132S4	F603_84.0 P132 BX132SB4
18.8	2597	1.1	77.6	20000	F603_77.6 S4 ME4SB4	F603_77.6 S4 MX4SB4	F603_77.6 P132 BE132S4	F603_77.6 P132 BX132SB4
19.1	2553	3.1	76.3	45000	F803_76.3 S4 ME4SB4	F803_76.3 S4 MX4SB4	F803_76.3 P132 BE132S4	F803_76.3 P132 BX132SB4
19.8	2463	2.0	73.6	35000	F703_73.6 S4 ME4SB4	F703_73.6 S4 MX4SB4	F703_73.6 P132 BE132S4	F703_73.6 P132 BX132SB4
20.7	2356	3.4	70.4	45000	F803_70.4 S4 ME4SB4	F803_70.4 S4 MX4SB4	F803_70.4 P132 BE132S4	F803_70.4 P132 BX132SB4
21.4	2286	1.3	68.3	20000	F603_68.3 S4 ME4SB4	F603_68.3 S4 MX4SB4	F603_68.3 P132 BE132S4	F603_68.3 P132 BX132SB4
21.5	2273	2.2	67.9	35000	F703_67.9 S4 ME4SB4	F703_67.9 S4 MX4SB4	F703_67.9 P132 BE132S4	F703_67.9 P132 BX132SB4
23.2	2110	1.4	63.0	20000	F603_63.0 S4 ME4SB4	F603_63.0 S4 MX4SB4	F603_63.0 P132 BE132S4	F603_63.0 P132 BX132SB4
23.4	2093	2.4	62.5	35000	F703_62.5 S4 ME4SB4	F703_62.5 S4 MX4SB4	F703_62.5 P132 BE132S4	F703_62.5 P132 BX132SB4
25.3	1932	2.6	57.7	35000	F703_57.7 S4 ME4SB4	F703_57.7 S4 MX4SB4	F703_57.7 P132 BE132S4	F703_57.7 P132 BX132SB4
28.2	1735	1.7	51.8	20000	F603_51.8 S4 ME4SB4	F603_51.8 S4 MX4SB4	F603_51.8 P132 BE132S4	F603_51.8 P132 BX132SB4
30	1639	3.1	49.0	35000	F703_49.0 S4 ME4SB4	F703_49.0 S4 MX4SB4	F703_49.0 P132 BE132S4	F703_49.0 P132 BX132SB4
30	1637	1.1	48.9	10300	F513_48.9 S4 ME4SB4	F513_48.9 S4 MX4SB4	F513_48.9 P132 BE132S4	F513_48.9 P132 BX132SB4
31	1602	1.8	47.8	20000	F603_47.8 S4 ME4SB4	F603_47.8 S4 MX4SB4	F603_47.8 P132 BE132S4	F603_47.8 P132 BX132SB4
32	1513	3.3	45.2	34300	F703_45.2 S4 ME4SB4	F703_45.2 S4 MX4SB4	F703_45.2 P132 BE132S4	F703_45.2 P132 BX132SB4
35	1409	2.1	42.1	20000	F603_42.1 S4 ME4SB4	F603_42.1 S4 MX4SB4	F603_42.1 P132 BE132S4	F603_42.1 P132 BX132SB4
38	1301	2.2	38.8	20000	F603_38.8 S4 ME4SB4	F603_38.8 S4 MX4SB4	F603_38.8 P132 BE132S4	F603_38.8 P132 BX132SB4
39	1270	1.3	37.1	10300	F512_37.1 S4 ME4SB4	F512_37.1 S4 MX4SB4	F512_37.1 P132 BE132S4	F512_37.1 P132 BX132SB4
46	1074	2.7	32.1	20000	F603_32.1 S4 ME4SB4	F603_32.1 S4 MX4SB4	F603_32.1 P132 BE132S4	F603_32.1 P132 BX132SB4
48	1030	1.1	30.1	6580	F412_30.1 S4 ME4SB4	F412_30.1 S4 MX4SB4	F412_30.1 P132 BE132S4	F412_30.1 P132 BX132SB4
49	1027	1.7	30.0	9950	F512_30.0 S4 ME4SB4	F512_30.0 S4 MX4SB4	F512_30.0 P132 BE132S4	F512_30.0 P132 BX132SB4
49	992	2.9	29.6	20000	F603_29.6 S4 ME4SB4	F603_29.6 S4 MX4SB4	F603_29.6 P132 BE132S4	F603_29.6 P132 BX132SB4
57	851	2.2	25.4	20000	F603_25.4 S4 ME4SB4	F603_25.4 S4 MX4SB4	F603_25.4 P132 BE132S4	F603_25.4 P132 BX132SB4

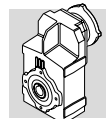


5.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IE2	IE3
61	825	1.3	24.1	6580	F412_24.1 S4 ME4SB4	F412_24.1 S4 MX4SB4	F412_24.1 P132 BE132S4	F412_24.1 P132 BX132SB4
61	814	2.0	23.8	9560	F512_23.8 S4 ME4SB4	F512_23.8 S4 MX4SB4	F512_23.8 P132 BE132S4	F512_23.8 P132 BX132SB4
62	786	2.4	23.5	20000	F603_23.5 S4 ME4SB4	F603_23.5 S4 MX4SB4	F603_23.5 P132 BE132S4	F603_23.5 P132 BX132SB4
71	692	2.7	20.7	20000	F603_20.7 S4 ME4SB4	F603_20.7 S4 MX4SB4	F603_20.7 P132 BE132S4	F603_20.7 P132 BX132SB4
77	638	3.0	19.1	20000	F603_19.1 S4 ME4SB4	F603_19.1 S4 MX4SB4	F603_19.1 P132 BE132S4	F603_19.1 P132 BX132SB4
77	646	1.7	18.9	6480	F412_18.9 S4 ME4SB4	F412_18.9 S4 MX4SB4	F412_18.9 P132 BE132S4	F412_18.9 P132 BX132SB4
78	644	2.4	18.8	9110	F512_18.8 S4 ME4SB4	F512_18.8 S4 MX4SB4	F512_18.8 P132 BE132S4	F512_18.8 P132 BX132SB4
79	632	0.9	18.5	4480	F312_18.5 S4 ME4SB4	F312_18.5 S4 MX4SB4	F312_18.5 P132 BE132S4	F312_18.5 P132 BX132SB4
85	585	1.8	17.1	6410	F412_17.1 S4 ME4SB4	F412_17.1 S4 MX4SB4	F412_17.1 P132 BE132S4	F412_17.1 P132 BX132SB4
87	575	1.0	16.8	4300	F312_16.8 S4 ME4SB4	F312_16.8 S4 MX4SB4	F312_16.8 P132 BE132S4	F312_16.8 P132 BX132SB4
100	500	2.0	14.6	6280	F412_14.6 S4 ME4SB4	F412_14.6 S4 MX4SB4	F412_14.6 P132 BE132S4	F412_14.6 P132 BX132SB4
104	478	3.0	14.0	8520	F512_14.0 S4 ME4SB4	F512_14.0 S4 MX4SB4	F512_14.0 P132 BE132S4	F512_14.0 P132 BX132SB4
105	477	1.3	13.9	4180	F312_13.9 S4 ME4SB4	F312_13.9 S4 MX4SB4	F312_13.9 P132 BE132S4	F312_13.9 P132 BX132SB4
115	435	1.4	12.7	3980	F312_12.7 S4 ME4SB4	F312_12.7 S4 MX4SB4	F312_12.7 P132 BE132S4	F312_12.7 P132 BX132SB4
131	380	3.5	11.1	8050	F512_11.1 S4 ME4SB4	F512_11.1 S4 MX4SB4	F512_11.1 P132 BE132S4	F512_11.1 P132 BX132SB4
136	368	2.4	10.8	5970	F412_10.8 S4 ME4SB4	F412_10.8 S4 MX4SB4	F412_10.8 P132 BE132S4	F412_10.8 P132 BX132SB4
136	368	1.6	10.7	3880	F312_10.7 S4 ME4SB4	F312_10.7 S4 MX4SB4	F312_10.7 P132 BE132S4	F312_10.7 P132 BX132SB4
160	312	2.2	9.1	5810	F412_9.1 S4 ME4SB4	F412_9.1 S4 MX4SB4	F412_9.1 P132 BE132S4	F412_9.1 P132 BX132SB4
161	310	3.6	9.1	7590	F512_9.1 S4 ME4SB4	F512_9.1 S4 MX4SB4	F512_9.1 P132 BE132S4	F512_9.1 P132 BX132SB4
162	308	1.3	9.0	3850	F312_9.0 S4 ME4SB4	F312_9.0 S4 MX4SB4	F312_9.0 P132 BE132S4	F312_9.0 P132 BX132SB4
177	281	1.4	8.2	3750	F312_8.2 S4 ME4SB4	F312_8.2 S4 MX4SB4	F312_8.2 P132 BE132S4	F312_8.2 P132 BX132SB4
200	250	3.3	14.6	5510	F412_14.6 S4 ME4SB2		F412_14.6 P132 BE132SA2	
210	238	1.6	6.9	3610	F312_6.9 S4 ME4SB4	F312_6.9 S4 MX4SB4	F312_6.9 P132 BE132S4	F312_6.9 P132 BX132SB4
217	230	2.8	6.7	5430	F412_6.7 S4 ME4SB4	F412_6.7 S4 MX4SB4	F412_6.7 P132 BE132S4	F412_6.7 P132 BX132SB4
272	184	4.0	10.8	5120	F412_10.8 S4 ME4SB2		F412_10.8 P132 BE132SA2	
320	156	3.9	9.1	4930	F412_9.1 S4 ME4SB2		F412_9.1 P132 BE132SA2	

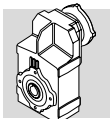
5.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IE3
2.9	16057	0.9	495.6	55000		F904_495.6 P132 BXN132S4
3.2	14821	0.9	457.5	55000		F904_457.5 P132 BXN132S4
3.7	12701	1.1	392.0	55000		F904_392.0 P132 BXN132S4
4.0	11724	1.2	361.8	55000		F904_361.8 P132 BXN132S4
5.0	9432	1.5	291.1	55000		F904_291.1 P132 BXN132S4
5.3	8874	0.9	273.9	45000		F804_273.9 P132 BXN132S4
5.4	8707	1.6	268.7	55000		F904_268.7 P132 BXN132S4
6.3	7497	1.9	231.4	55000		F904_231.4 P132 BXN132S4
6.7	7079	1.1	218.5	45000		F804_218.5 P132 BXN132S4
6.8	6920	2.0	213.6	55000		F904_213.6 P132 BXN132S4
7.3	6696	1.2	200.0	45000		F803_200.0 P132 BXN132S4
7.5	6500	2.2	194.2	55000		F903_194.2 P132 BXN132S4
7.9	6181	1.3	184.6	45000		F803_184.6 P132 BXN132S4
8.1	6000	2.3	179.2	55000		F903_179.2 P132 BXN132S4
8.8	5580	0.9	166.7	35000		F703_166.7 P132 BXN132S4
9.0	5452	2.6	162.8	55000		F903_162.8 P132 BXN132S4
9.1	5364	1.5	160.2	45000		F803_160.2 P132 BXN132S4
9.5	5151	1.0	153.8	35000		F703_153.8 P132 BXN132S4
9.7	5032	2.8	150.3	55000		F903_150.3 P132 BXN132S4
9.9	4952	1.6	147.9	45000		F803_147.9 P132 BXN132S4
10.6	4598	3.0	137.3	55000		F903_137.3 P132 BXN132S4
11.0	4451	1.1	133.0	35000		F703_133.0 P132 BXN132S4



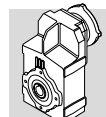
5.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC IE3
11.0	4443	1.8	132.7	45000		F803_132.7 P132 BXN132S4 526
11.5	4244	3.3	126.8	55000		F903_126.8 P132 BXN132S4 529
11.9	4109	1.2	122.7	35000		F703_122.7 P132 BXN132S4 523
11.9	4101	2.0	122.5	45000		F803_122.5 P132 BXN132S4 526
12.8	3808	2.1	113.8	45000		F803_113.8 P132 BXN132S4 526
13.3	3670	1.4	109.6	35000		F703_109.6 P132 BXN132S4 523
13.9	3515	2.3	105.0	45000		F803_105.0 P132 BXN132S4 526
14.4	3388	1.5	101.2	35000		F703_101.2 P132 BXN132S4 523
15.8	3097	1.6	92.5	35000		F703_92.5 P132 BXN132S4 523
15.8	3090	2.6	92.3	45000		F803_92.3 P132 BXN132S4 526
17.1	2859	1.7	85.4	35000		F703_85.4 P132 BXN132S4 523
17.1	2853	2.8	85.2	45000		F803_85.2 P132 BXN132S4 526
17.4	2813	1.0	84.0	20000		F603_84.0 P132 BXN132S4 519
18.8	2597	1.1	77.6	20000		F603_77.6 P132 BXN132S4 519
19.1	2553	3.1	76.3	45000		F803_76.3 P132 BXN132S4 526
19.8	2463	2.0	73.6	35000		F703_73.6 P132 BXN132S4 523
20.7	2356	3.4	70.4	45000		F803_70.4 P132 BXN132S4 526
21.4	2286	1.3	68.3	20000		F603_68.3 P132 BXN132S4 519
21.5	2273	2.2	67.9	35000		F703_67.9 P132 BXN132S4 523
23.2	2110	1.4	63.0	20000		F603_63.0 P132 BXN132S4 519
23.4	2093	2.4	62.5	35000		F703_62.5 P132 BXN132S4 523
25.3	1932	2.6	57.7	35000		F703_57.7 P132 BXN132S4 523
28.2	1735	1.7	51.8	20000		F603_51.8 P132 BXN132S4 519
30	1639	3.1	49.0	35000		F703_49.0 P132 BXN132S4 523
30	1637	1.1	48.9	10300		F513_48.9 P132 BXN132S4 515
31	1602	1.8	47.8	20000		F603_47.8 P132 BXN132S4 519
32	1513	3.3	45.2	34300		F703_45.2 P132 BXN132S4 523
35	1409	2.1	42.1	20000		F603_42.1 P132 BXN132S4 519
38	1301	2.2	38.8	20000		F603_38.8 P132 BXN132S4 519
39	1270	1.3	37.1	10300		F512_37.1 P132 BXN132S4 515
46	1074	2.7	32.1	20000		F603_32.1 P132 BXN132S4 519
48	1030	1.1	30.1	6580		F412_30.1 P132 BXN132S4 511
49	1027	1.7	30.0	9950		F512_30.0 P132 BXN132S4 515
49	992	2.9	29.6	20000		F603_29.6 P132 BXN132S4 519
57	851	2.2	25.4	20000		F603_25.4 P132 BXN132S4 519
61	825	1.3	24.1	6580		F412_24.1 P132 BXN132S4 511
61	814	2.0	23.8	9560		F512_23.8 P132 BXN132S4 515
62	786	2.4	23.5	20000		F603_23.5 P132 BXN132S4 519
71	692	2.7	20.7	20000		F603_20.7 P132 BXN132S4 519
77	638	3.0	19.1	20000		F603_19.1 P132 BXN132S4 519
77	646	1.7	18.9	6480		F412_18.9 P132 BXN132S4 511
78	644	2.4	18.8	9110		F512_18.8 P132 BXN132S4 515
79	632	0.9	18.5	4480		F312_18.5 P132 BXN132S4 507
85	585	1.8	17.1	6410		F412_17.1 P132 BXN132S4 511
87	575	1.0	16.8	4300		F312_16.8 P132 BXN132S4 507
100	500	2.0	14.6	6280		F412_14.6 P132 BXN132S4 511
104	478	3.0	14.0	8520		F512_14.0 P132 BXN132S4 515
105	477	1.3	13.9	4180		F312_13.9 P132 BXN132S4 507
115	435	1.4	12.7	3980		F312_12.7 P132 BXN132S4 507
131	380	3.5	11.1	8050		F512_11.1 P132 BXN132S4 515
136	368	2.4	10.8	5970		F412_10.8 P132 BXN132S4 511
136	368	1.6	10.7	3880		F312_10.7 P132 BXN132S4 507
160	312	2.2	9.1	5810		F412_9.1 P132 BXN132S4 511
161	310	3.6	9.1	7590		F512_9.1 P132 BXN132S4 515
162	308	1.3	9.0	3850		F312_9.0 P132 BXN132S4 507
177	281	1.4	8.2	3750		F312_8.2 P132 BXN132S4 507
210	238	1.6	6.9	3610		F312_6.9 P132 BXN132S4 507
217	230	2.8	6.7	5430		F412_6.7 P132 BXN132S4 511



7.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC	IE2	IE3
4.0	15957	0.9	361.8	55000	F904_361.8 S4 ME4LA4	F904_361.8 S4 MX4LA4	528	F904_361.8 P132 BE132MA4	F904_361.8 P132 BX132MA4
5.0	12838	1.1	291.1	55000	F904_291.1 S4 ME4LA4	F904_291.1 S4 MX4LA4	528	F904_291.1 P132 BE132MA4	F904_291.1 P132 BX132MA4
5.4	11851	1.2	268.7	55000	F904_268.7 S4 ME4LA4	F904_268.7 S4 MX4LA4	528	F904_268.7 P132 BE132MA4	F904_268.7 P132 BX132MA4
6.3	10204	1.4	231.4	55000	F904_231.4 S4 ME4LA4	F904_231.4 S4 MX4LA4	528	F904_231.4 P132 BE132MA4	F904_231.4 P132 BX132MA4
6.8	9419	1.5	213.6	55000	F904_213.6 S4 ME4LA4	F904_213.6 S4 MX4LA4	528	F904_213.6 P132 BE132MA4	F904_213.6 P132 BX132MA4
7.3	9114	0.9	200.0	45000	F803_200.0 S4 ME4LA4	F803_200.0 S4 MX4LA4	525	F803_200.0 P132 BE132MA4	F803_200.0 P132 BX132MA4
7.5	8848	1.6	194.2	55000	F903_194.2 S4 ME4LA4	F903_194.2 S4 MX4LA4	528	F903_194.2 P132 BE132MA4	F903_194.2 P132 BX132MA4
7.9	8413	1.0	184.6	45000	F803_184.6 S4 ME4LA4	F803_184.6 S4 MX4LA4	525	F803_184.6 P132 BE132MA4	F803_184.6 P132 BX132MA4
8.1	8167	1.7	179.2	55000	F903_179.2 S4 ME4LA4	F903_179.2 S4 MX4LA4	528	F903_179.2 P132 BE132MA4	F903_179.2 P132 BX132MA4
8.9	7420	1.9	162.8	55000	F903_162.8 S4 ME4LA4	F903_162.8 S4 MX4LA4	528	F903_162.8 P132 BE132MA4	F903_162.8 P132 BX132MA4
9.1	7302	1.1	160.2	45000	F803_160.2 S4 ME4LA4	F803_160.2 S4 MX4LA4	525	F803_160.2 P132 BE132MA4	F803_160.2 P132 BX132MA4
9.7	6849	2.0	150.3	55000	F903_150.3 S4 ME4LA4	F903_150.3 S4 MX4LA4	528	F903_150.3 P132 BE132MA4	F903_150.3 P132 BX132MA4
9.8	6740	1.2	147.9	45000	F803_147.9 S4 ME4LA4	F803_147.9 S4 MX4LA4	525	F803_147.9 P132 BE132MA4	F803_147.9 P132 BX132MA4
10.6	6259	2.2	137.3	55000	F903_137.3 S4 ME4LA4	F903_137.3 S4 MX4LA4	528	F903_137.3 P132 BE132MA4	F903_137.3 P132 BX132MA4
11.0	6047	1.3	132.7	45000	F803_132.7 S4 ME4LA4	F803_132.7 S4 MX4LA4	525	F803_132.7 P132 BE132MA4	F803_132.7 P132 BX132MA4
11.5	5777	2.4	126.8	55000	F903_126.8 S4 ME4LA4	F903_126.8 S4 MX4LA4	528	F903_126.8 P132 BE132MA4	F903_126.8 P132 BX132MA4
11.9	5593	0.9	122.7	35000	F703_122.7 S4 ME4LA4	F703_122.7 S4 MX4LA4	522	F703_122.7 P132 BE132MA4	F703_122.7 P132 BX132MA4
11.9	5582	1.4	122.5	45000	F803_122.5 S4 ME4LA4	F803_122.5 S4 MX4LA4	525	F803_122.5 P132 BE132MA4	F803_122.5 P132 BX132MA4
12.8	5184	1.5	113.8	45000	F803_113.8 S4 ME4LA4	F803_113.8 S4 MX4LA4	525	F803_113.8 P132 BE132MA4	F803_113.8 P132 BX132MA4
13.0	5101	2.7	111.9	55000	F903_111.9 S4 ME4LA4	F903_111.9 S4 MX4LA4	528	F903_111.9 P132 BE132MA4	F903_111.9 P132 BX132MA4
13.3	4995	1.0	109.6	35000	F703_109.6 S4 ME4LA4	F703_109.6 S4 MX4LA4	522	F703_109.6 P132 BE132MA4	F703_109.6 P132 BX132MA4
13.9	4785	1.7	105.0	45000	F803_105.0 S4 ME4LA4	F803_105.0 S4 MX4LA4	525	F803_105.0 P132 BE132MA4	F803_105.0 P132 BX132MA4
14.1	4709	3.0	103.3	55000	F903_103.3 S4 ME4LA4	F903_103.3 S4 MX4LA4	528	F903_103.3 P132 BE132MA4	F903_103.3 P132 BX132MA4
14.4	4611	1.1	101.2	35000	F703_101.2 S4 ME4LA4	F703_101.2 S4 MX4LA4	522	F703_101.2 P132 BE132MA4	F703_101.2 P132 BX132MA4
15.2	4364	3.2	95.8	55000	F903_95.8 S4 ME4LA4	F903_95.8 S4 MX4LA4	528	F903_95.8 P132 BE132MA4	F903_95.8 P132 BX132MA4
15.7	4215	1.2	92.5	35000	F703_92.5 S4 ME4LA4	F703_92.5 S4 MX4LA4	522	F703_92.5 P132 BE132MA4	F703_92.5 P132 BX132MA4
15.8	4206	1.9	92.3	45000	F803_92.3 S4 ME4LA4	F803_92.3 S4 MX4LA4	525	F803_92.3 P132 BE132MA4	F803_92.3 P132 BX132MA4
16.5	4028	3.5	88.4	55000	F903_88.4 S4 ME4LA4	F903_88.4 S4 MX4LA4	528	F903_88.4 P132 BE132MA4	F903_88.4 P132 BX132MA4
17.0	3891	1.3	85.4	35000	F703_85.4 S4 ME4LA4	F703_85.4 S4 MX4LA4	522	F703_85.4 P132 BE132MA4	F703_85.4 P132 BX132MA4
17.1	3883	2.1	85.2	45000	F803_85.2 S4 ME4LA4	F803_85.2 S4 MX4LA4	525	F803_85.2 P132 BE132MA4	F803_85.2 P132 BX132MA4
19.1	3475	2.3	76.3	45000	F803_76.3 S4 ME4LA4	F803_76.3 S4 MX4LA4	525	F803_76.3 P132 BE132MA4	F803_76.3 P132 BX132MA4
19.8	3352	1.5	73.6	35000	F703_73.6 S4 ME4LA4	F703_73.6 S4 MX4LA4	522	F703_73.6 P132 BE132MA4	F703_73.6 P132 BX132MA4
20.7	3207	2.5	70.4	44700	F803_70.4 S4 ME4LA4	F803_70.4 S4 MX4LA4	525	F803_70.4 P132 BE132MA4	F803_70.4 P132 BX132MA4
21.3	3112	0.9	68.3	20000	F603_68.3 S4 ME4LA4	F603_68.3 S4 MX4LA4	518	F603_68.3 P132 BE132MA4	F603_68.3 P132 BX132MA4
21.4	3094	1.6	67.9	35000	F703_67.9 S4 ME4LA4	F703_67.9 S4 MX4LA4	522	F703_67.9 P132 BE132MA4	F703_67.9 P132 BX132MA4
23.1	2872	1.0	63.0	20000	F603_63.0 S4 ME4LA4	F603_63.0 S4 MX4LA4	518	F603_63.0 P132 BE132MA4	F603_63.0 P132 BX132MA4
23.3	2848	1.8	62.5	35000	F703_62.5 S4 ME4LA4	F703_62.5 S4 MX4LA4	522	F703_62.5 P132 BE132MA4	F703_62.5 P132 BX132MA4
23.7	2801	2.9	61.5	43500	F803_61.5 S4 ME4LA4	F803_61.5 S4 MX4LA4	525	F803_61.5 P132 BE132MA4	F803_61.5 P132 BX132MA4
25.2	2629	1.9	57.7	34900	F703_57.7 S4 ME4LA4	F703_57.7 S4 MX4LA4	522	F703_57.7 P132 BE132MA4	F703_57.7 P132 BX132MA4
25.6	2585	3.1	56.7	42600	F803_56.7 S4 ME4LA4	F803_56.7 S4 MX4LA4	525	F803_56.7 P132 BE132MA4	F803_56.7 P132 BX132MA4
28.1	2362	1.2	51.8	20000	F603_51.8 S4 ME4LA4	F603_51.8 S4 MX4LA4	518	F603_51.8 P132 BE132MA4	F603_51.8 P132 BX132MA4
29.7	2231	2.2	49.0	33800	F703_49.0 S4 ME4LA4	F703_49.0 S4 MX4LA4	522	F703_49.0 P132 BE132MA4	F703_49.0 P132 BX132MA4
30	2180	1.3	47.8	20000	F603_47.8 S4 ME4LA4	F603_47.8 S4 MX4LA4	518	F603_47.8 P132 BE132MA4	F603_47.8 P132 BX132MA4
32	2059	2.4	45.2	33200	F703_45.2 S4 ME4LA4	F703_45.2 S4 MX4LA4	522	F703_45.2 P132 BE132MA4	F703_45.2 P132 BX132MA4
35	1918	1.5	42.1	20000	F603_42.1 S4 ME4LA4	F603_42.1 S4 MX4LA4	518	F603_42.1 P132 BE132MA4	F603_42.1 P132 BX132MA4
37	1770	1.6	38.8	20000	F603_38.8 S4 ME4LA4	F603_38.8 S4 MX4LA4	518	F603_38.8 P132 BE132MA4	F603_38.8 P132 BX132MA4
39	1729	1.0	37.1	9090	F512_37.1 S4 ME4LA4	F512_37.1 S4 MX4LA4	514	F512_37.1 P132 BE132MA4	F512_37.1 P132 BX132MA4
45	1462	2.0	32.1	20000	F603_32.1 S4 ME4LA4	F603_32.1 S4 MX4LA4	518	F603_32.1 P132 BE132MA4	F603_32.1 P132 BX132MA4
48	1398	1.2	30.0	9010	F512_30.0 S4 ME4LA4	F512_30.0 S4 MX4LA4	514	F512_30.0 P132 BE132MA4	F512_30.0 P132 BX132MA4
49	1350	2.1	29.6	20000	F603_29.6 S4 ME4LA4	F603_29.6 S4 MX4LA4	518	F603_29.6 P132 BE132MA4	F603_29.6 P132 BX132MA4
57	1158	1.6	25.4	20000	F603_25.4 S4 ME4LA4	F603_25.4 S4 MX4LA4	518	F603_25.4 P132 BE132MA4	F603_25.4 P132 BX132MA4
60	1123	1.0	24.1	5500	F412_24.1 S4 ME4LA4	F412_24.1 S4 MX4LA4	510	F412_24.1 P132 BE132MA4	F412_24.1 P132 BX132MA4
61	1108	1.5	23.8	8810	F512_23.8 S4 ME4LA4	F512_23.8 S4 MX4LA4	514	F512_23.8 P132 BE132MA4	F512_23.8 P132 BX132MA4
62	1069	1.8	23.5	20000	F603_23.5 S4 ME4LA4	F603_23.5 S4 MX4LA4	518	F603_23.5 P132 BE132MA4	F603_23.5 P132 BX132MA4
70	941	2.0	20.7	20000	F603_20.7 S4 ME4LA4	F603_20.7 S4 MX4LA4	518	F603_20.7 P132 BE132MA4	F603_20.7 P132 BX132MA4
76	869	2.2	19.1	20000	F603_19.1 S4 ME4LA4	F603_19.1 S4 MX4LA4	518	F603_19.1 P132 BE132MA4	F603_19.1 P132 BX132MA4
77	879	1.2	18.9	5630	F412_18.9 S4 ME4LA4	F412_18.9 S4 MX4LA4	510	F412_18.9 P132 BE132MA4	F412_18.9 P132 BX132MA4
77	876	1.8	18.8	8520	F512_18.8 S4 ME4LA4	F512_18.8 S4 MX4LA4	514	F512_18.8 P132 BE132MA4	F512_18.8 P132 BX132MA4
85	797	1.3	17.1	5650	F412_17.1 S4 ME4LA4	F412_17.1 S4 MX4LA4	510	F412_17.1 P132 BE132MA4	F412_17.1 P132 BX132MA4
93	715	2.7	15.7	20000	F603_15.7 S4 ME4LA4	F603_15.7 S4 MX4LA4	518	F603_15.7 P132 BE132MA4	F603_15.7 P132 BX132MA4
99	681	1.5	14.6	5630	F412_14.6 S4 ME4LA4	F412_14.6 S4 MX4LA4	510	F412_14.6 P132 BE132MA4	F412_14.6 P132 BX132MA4
101	660	2.9	14.5	20000	F603_14.5 S4 ME4LA4	F603_14.5 S4 MX4LA4	518	F603_14.5 P132 BE132MA4	F603_14.5 P132 BX132MA4
104	651	2.2	14.0	8080	F512_14.0 S4 ME4LA4	F512_14.0 S4 MX4LA4	514	F512_14.0 P132 BE132MA4	F512_14.0 P132 BX132MA4
104	649	0.9	13.9	3980	F312_13.9 S4 ME4LA4	F312_13.9 S4 MX4LA4	506	F312_13.9 P132 BE132MA4	F312_13.9 P132 BX132MA4
114	580	3.3	12.7	19900	F603_12.7 S4 ME4LA4	F603_12.7 S4 MX4LA4	518	F603_12.7 P132 BE132MA4	F603_12.7 P132 BX132MA4



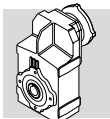
7.5 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IE2	IE3
114	592	1.0	12.7	3880	F312_12.7 S4 ME4LA4	F312_12.7 S4 MX4LA4	F312_12.7 P132 BE132MA4	F312_12.7 P132 BX132MA4
124	536	3.5	11.8	19500	F603_11.8 S4 ME4LA4	F603_11.8 S4 MX4LA4	F603_11.8 P132 BE132MA4	F603_11.8 P132 BX132MA4
131	517	2.6	11.1	7700	F512_11.1 S4 ME4LA4	F512_11.1 S4 MX4LA4	F512_11.1 P132 BE132MA4	F512_11.1 P132 BX132MA4
135	501	1.8	10.8	5490	F412_10.8 S4 ME4LA4	F412_10.8 S4 MX4LA4	F412_10.8 P132 BE132MA4	F412_10.8 P132 BX132MA4
135	500	1.2	10.7	3730	F312_10.7 S4 ME4LA4	F312_10.7 S4 MX4LA4	F312_10.7 P132 BE132MA4	F312_10.7 P132 BX132MA4
159	425	1.6	9.1	5410	F412_9.1 S4 ME4LA4	F412_9.1 S4 MX4LA4	F412_9.1 P132 BE132MA4	F412_9.1 P132 BX132MA4
161	421	2.6	9.1	7290	F512_9.1 S4 ME4LA4	F512_9.1 S4 MX4LA4	F512_9.1 P132 BE132MA4	F512_9.1 P132 BX132MA4
161	420	0.9	9.0	3770	F312_9.0 S4 ME4LA4	F312_9.0 S4 MX4LA4	F312_9.0 P132 BE132MA4	F312_9.0 P132 BX132MA4
177	383	1.0	8.2	3680	F312_8.2 S4 ME4LA4	F312_8.2 S4 MX4LA4	F312_8.2 P132 BE132MA4	F312_8.2 P132 BX132MA4
202	335	2.9	7.2	6900	F512_7.2 S4 ME4LA4	F512_7.2 S4 MX4LA4	F512_7.2 P132 BE132MA4	F512_7.2 P132 BX132MA4
209	323	1.2	6.9	3520	F312_6.9 S4 ME4LA4	F312_6.9 S4 MX4LA4	F312_6.9 P132 BE132MA4	F312_6.9 P132 BX132MA4
216	313	2.0	6.7	5140	F412_6.7 S4 ME4LA4	F412_6.7 S4 MX4LA4	F412_6.7 P132 BE132MA4	F412_6.7 P132 BX132MA4
272	251	2.9	10.8	4880	F412_10.8 S4 ME4LA2		F412_10.8 P132 BE132SB2	
320	213	2.9	9.1	4730	F412_9.1 S4 ME4LA2		F412_9.1 P132 BE132SB2	
435	156	3.3	6.7	4390	F412_6.7 S4 ME4LA2		F412_6.7 P132 BE132SB2	

7.5 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE3	IE3
4.0	15957	0.9	361.8	55000		F904_361.8 P132 BXN132M4
5.0	12838	1.1	291.1	55000		F904_291.1 P132 BXN132M4
5.4	11851	1.2	268.7	55000		F904_268.7 P132 BXN132M4
6.3	10204	1.4	231.4	55000		F904_231.4 P132 BXN132M4
6.8	9419	1.5	213.6	55000		F904_213.6 P132 BXN132M4
7.3	9114	0.9	200.0	45000		F803_200.0 P132 BXN132M4
7.5	8848	1.6	194.2	55000		F903_194.2 P132 BXN132M4
7.9	8413	1.0	184.6	45000		F803_184.6 P132 BXN132M4
8.1	8167	1.7	179.2	55000		F903_179.2 P132 BXN132M4
8.9	7420	1.9	162.8	55000		F903_162.8 P132 BXN132M4
9.1	7302	1.1	160.2	45000		F803_160.2 P132 BXN132M4
9.7	6849	2.0	150.3	55000		F903_150.3 P132 BXN132M4
9.8	6740	1.2	147.9	45000		F803_147.9 P132 BXN132M4
10.6	6259	2.2	137.3	55000		F903_137.3 P132 BXN132M4
11.0	6047	1.3	132.7	45000		F803_132.7 P132 BXN132M4
11.5	5777	2.4	126.8	55000		F903_126.8 P132 BXN132M4
11.9	5593	0.9	122.7	35000		F703_122.7 P132 BXN132M4
11.9	5582	1.4	122.5	45000		F803_122.5 P132 BXN132M4
12.8	5184	1.5	113.8	45000		F803_113.8 P132 BXN132M4
13.0	5101	2.7	111.9	55000		F903_111.9 P132 BXN132M4
13.3	4995	1.0	109.6	35000		F703_109.6 P132 BXN132M4
13.9	4785	1.7	105.0	45000		F803_105.0 P132 BXN132M4
14.1	4709	3.0	103.3	55000		F903_103.3 P132 BXN132M4
14.4	4611	1.1	101.2	35000		F703_101.2 P132 BXN132M4
15.2	4364	3.2	95.8	55000		F903_95.8 P132 BXN132M4
15.7	4215	1.2	92.5	35000		F703_92.5 P132 BXN132M4
15.8	4206	1.9	92.3	45000		F803_92.3 P132 BXN132M4
16.5	4028	3.5	88.4	55000		F903_88.4 P132 BXN132M4
17.0	3891	1.3	85.4	35000		F703_85.4 P132 BXN132M4
17.1	3883	2.1	85.2	45000		F803_85.2 P132 BXN132M4
19.1	3475	2.3	76.3	45000		F803_76.3 P132 BXN132M4
19.8	3352	1.5	73.6	35000		F703_73.6 P132 BXN132M4
20.7	3207	2.5	70.4	44700		F803_70.4 P132 BXN132M4
21.3	3112	0.9	68.3	20000		F603_68.3 P132 BXN132M4
21.4	3094	1.6	67.9	35000		F703_67.9 P132 BXN132M4
23.1	2872	1.0	63.0	20000		F603_63.0 P132 BXN132M4
23.3	2848	1.8	62.5	35000		F703_62.5 P132 BXN132M4
23.7	2801	2.9	61.5	43500		F803_61.5 P132 BXN132M4
25.6	2585	3.1	56.7	42600		F803_56.7 P132 BXN132M4

*Les données techniques sont indicatives, les configurations doivent être sélectionnées sur la base des données fournies par les fabricants de moteurs pour les puissances nominales supérieures à 22 kW.

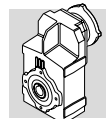


7.5 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE3	IE3	IE3
28.1	2362	1.2	51.8	20000		F603_51.8 P132 BXN132M4	519
29.7	2231	2.2	49.0	33800		F703_49.0 P132 BXN132M4	523
30	2180	1.3	47.8	20000		F603_47.8 P132 BXN132M4	519
32	2059	2.4	45.2	33200		F703_45.2 P132 BXN132M4	523
35	1918	1.5	42.1	20000		F603_42.1 P132 BXN132M4	519
37	1770	1.6	38.8	20000		F603_38.8 P132 BXN132M4	519
39	1729	1.0	37.1	9090		F512_37.1 P132 BXN132M4	515
45	1462	2.0	32.1	20000		F603_32.1 P132 BXN132M4	519
48	1398	1.2	30.0	9010		F512_30.0 P132 BXN132M4	515
49	1350	2.1	29.6	20000		F603_29.6 P132 BXN132M4	519
57	1158	1.6	25.4	20000		F603_25.4 P132 BXN132M4	519
60	1123	1.0	24.1	5500		F412_24.1 P132 BXN132M4	511
61	1108	1.5	23.8	8810		F512_23.8 P132 BXN132M4	515
62	1069	1.8	23.5	20000		F603_23.5 P132 BXN132M4	519
70	941	2.0	20.7	20000		F603_20.7 P132 BXN132M4	519
76	869	2.2	19.1	20000		F603_19.1 P132 BXN132M4	519
77	879	1.2	18.9	5630		F412_18.9 P132 BXN132M4	511
77	876	1.8	18.8	8520		F512_18.8 P132 BXN132M4	515
85	797	1.3	17.1	5650		F412_17.1 P132 BXN132M4	511
93	715	2.7	15.7	20000		F603_15.7 P132 BXN132M4	519
99	681	1.5	14.6	5630		F412_14.6 P132 BXN132M4	511
101	660	2.9	14.5	20000		F603_14.5 P132 BXN132M4	519
104	651	2.2	14.0	8080		F512_14.0 P132 BXN132M4	515
104	649	0.9	13.9	3980		F312_13.9 P132 BXN132M4	507
114	580	3.3	12.7	19900		F603_12.7 P132 BXN132M4	519
114	592	1.0	12.7	3880		F312_12.7 P132 BXN132M4	507
124	536	3.5	11.8	19500		F603_11.8 P132 BXN132M4	519
131	517	2.6	11.1	7700		F512_11.1 P132 BXN132M4	515
135	501	1.8	10.8	5490		F412_10.8 P132 BXN132M4	511
135	500	1.2	10.7	3730		F312_10.7 P132 BXN132M4	507
159	425	1.6	9.1	5410		F412_9.1 P132 BXN132M4	511
161	421	2.6	9.1	7290		F512_9.1 P132 BXN132M4	515
161	420	0.9	9.0	3770		F312_9.0 P132 BXN132M4	507
177	383	1.0	8.2	3680		F312_8.2 P132 BXN132M4	507
202	335	2.9	7.2	6900		F512_7.2 P132 BXN132M4	515
209	323	1.2	6.9	3520		F312_6.9 P132 BXN132M4	507
216	313	2.0	6.7	5140		F412_6.7 P132 BXN132M4	511

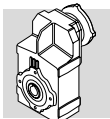
9.2 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IE2	IE3
5.0	15983	0.9	291.1	55000	F904_291.1 S4 ME4LB4		F904_291.1 P132 BE132MB4	F904_291.1 P160 BX160MA4
5.4	14753	0.9	268.7	55000	F904_268.7 S4 ME4LB4		F904_268.7 P132 BE132MB4	F904_268.7 P160 BX160MA4
6.3	12703	1.1	231.4	55000	F904_231.4 S4 ME4LB4		F904_231.4 P132 BE132MB4	F904_231.4 P160 BX160MA4
6.8	11726	1.2	213.6	55000	F904_213.6 S4 ME4LB4		F904_213.6 P132 BE132MB4	F904_213.6 P160 BX160MA4
7.5	11014	1.3	194.2	55000	F903_194.2 S4 ME4LB4	F903_194.2 S5 MX5SA4	F903_194.2 P132 BE132MB4	F903_194.2 P160 BX160MA4
8.1	10167	1.4	179.2	55000	F903_179.2 S4 ME4LB4	F903_179.2 S5 MX5SA4	F903_179.2 P132 BE132MB4	F903_179.2 P160 BX160MA4
8.9	9237	1.5	162.8	55000	F903_162.8 S4 ME4LB4	F903_162.8 S5 MX5SA4	F903_162.8 P132 BE132MB4	F903_162.8 P160 BX160MA4
9.0	9090	0.9	160.2	45000	F803_160.2 S4 ME4LB4	F803_160.2 S5 MX5SA4	F803_160.2 P132 BE132MB4	F803_160.2 P160 BX160MA4
9.6	8527	1.6	150.3	55000	F903_150.3 S4 ME4LB4	F903_150.3 S5 MX5SA4	F903_150.3 P132 BE132MB4	F903_150.3 P160 BX160MA4
9.8	8390	1.0	147.9	45000	F803_147.9 S4 ME4LB4	F803_147.9 S5 MX5SA4	F803_147.9 P132 BE132MB4	F803_147.9 P160 BX160MA4
10.6	7791	1.8	137.3	55000	F903_137.3 S4 ME4LB4	F903_137.3 S5 MX5SA4	F903_137.3 P132 BE132MB4	F903_137.3 P160 BX160MA4
10.9	7528	1.1	132.7	45000	F803_132.7 S4 ME4LB4	F803_132.7 S5 MX5SA4	F803_132.7 P132 BE132MB4	F803_132.7 P160 BX160MA4
11.4	7192	1.9	126.8	55000	F903_126.8 S4 ME4LB4	F903_126.8 S5 MX5SA4	F903_126.8 P132 BE132MB4	F903_126.8 P160 BX160MA4
11.8	6949	1.2	122.5	45000	F803_122.5 S4 ME4LB4	F803_122.5 S5 MX5SA4	F803_122.5 P132 BE132MB4	F803_122.5 P160 BX160MA4
12.7	6453	1.2	113.8	45000	F803_113.8 S4 ME4LB4	F803_113.8 S5 MX5SA4	F803_113.8 P132 BE132MB4	F803_113.8 P160 BX160MA4



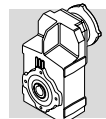
9.2 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IE2	IE3
13.0	6351	2.2	111.9	55000	F903_111.9 S4 ME4LB4	F903_111.9 S5 MX5SA4	F903_111.9 P132 BE132MB4	F903_111.9 P160 BX160MA4
13.8	5957	1.3	105.0	45000	F803_105.0 S4 ME4LB4	F803_105.0 S5 MX5SA4	F803_105.0 P132 BE132MB4	F803_105.0 P160 BX160MA4
14.0	5862	2.4	103.3	55000	F903_103.3 S4 ME4LB4	F903_103.3 S5 MX5SA4	F903_103.3 P132 BE132MB4	F903_103.3 P160 BX160MA4
15.1	5432	2.6	95.8	55000	F903_95.8 S4 ME4LB4	F903_95.8 S5 MX5SA4	F903_95.8 P132 BE132MB4	F903_95.8 P160 BX160MA4
15.7	5248	1.0	92.5	35000	F703_92.5 S4 ME4LB4	F703_92.5 S5 MX5SA4	F703_92.5 P132 BE132MB4	F703_92.5 P160 BX160MA4
15.7	5237	1.5	92.3	45000	F803_92.3 S4 ME4LB4	F803_92.3 S5 MX5SA4	F803_92.3 P132 BE132MB4	F803_92.3 P160 BX160MA4
16.4	5015	2.8	88.4	55000	F903_88.4 S4 ME4LB4	F903_88.4 S5 MX5SA4	F903_88.4 P132 BE132MB4	F903_88.4 P160 BX160MA4
17.0	4844	1.0	85.4	35000	F703_85.4 S4 ME4LB4	F703_85.4 S5 MX5SA4	F703_85.4 P132 BE132MB4	F703_85.4 P160 BX160MA4
17.0	4834	1.7	85.2	45000	F803_85.2 S4 ME4LB4	F803_85.2 S5 MX5SA4	F803_85.2 P132 BE132MB4	F803_85.2 P160 BX160MA4
18.9	4348	3.2	76.7	55000	F903_76.7 S4 ME4LB4	F903_76.7 S5 MX5SA4	F903_76.7 P132 BE132MB4	F903_76.7 P160 BX160MA4
19.0	4326	1.8	76.3	44100	F803_76.3 S4 ME4LB4	F803_76.3 S5 MX5SA4	F803_76.3 P132 BE132MB4	F803_76.3 P160 BX160MA4
19.7	4173	1.2	73.6	35000	F703_73.6 S4 ME4LB4	F703_73.6 S5 MX5SA4	F703_73.6 P132 BE132MB4	F703_73.6 P160 BX160MA4
20.5	4014	3.5	70.8	55000	F903_70.8 S4 ME4LB4	F903_70.8 S5 MX5SA4	F903_70.8 P132 BE132MB4	F903_70.8 P160 BX160MA4
20.6	3993	2.0	70.4	43700	F803_70.4 S4 ME4LB4	F803_70.4 S5 MX5SA4	F803_70.4 P132 BE132MB4	F803_70.4 P160 BX160MA4
21.4	3852	1.3	67.9	34600	F703_67.9 S4 ME4LB4	F703_67.9 S5 MX5SA4	F703_67.9 P132 BE132MB4	F703_67.9 P160 BX160MA4
23.2	3546	1.4	62.5	34200	F703_62.5 S4 ME4LB4	F703_62.5 S5 MX5SA4	F703_62.5 P132 BE132MB4	F703_62.5 P160 BX160MA4
23.6	3487	2.3	61.5	42200	F803_61.5 S4 ME4LB4	F803_61.5 S5 MX5SA4	F803_61.5 P132 BE132MB4	F803_61.5 P160 BX160MA4
25.1	3273	1.5	57.7	33700	F703_57.7 S4 ME4LB4	F703_57.7 S5 MX5SA4	F703_57.7 P132 BE132MB4	F703_57.7 P160 BX160MA4
25.6	3218	2.5	56.7	41400	F803_56.7 S4 ME4LB4	F803_56.7 S5 MX5SA4	F803_56.7 P132 BE132MB4	F803_56.7 P160 BX160MA4
28.0	2940	1.0	51.8	20000	F603_51.8 S4 ME4LB4	F603_51.8 S5 MX5SA4	F603_51.8 P132 BE132MB4	F603_51.8 P160 BX160MA4
29.6	2777	1.8	49.0	32800	F703_49.0 S4 ME4LB4	F703_49.0 S5 MX5SA4	F703_49.0 P132 BE132MB4	F703_49.0 P160 BX160MA4
30	2714	1.1	47.8	20000	F603_47.8 S4 ME4LB4	F603_47.8 S5 MX5SA4	F603_47.8 P132 BE132MB4	F603_47.8 P160 BX160MA4
32	2564	2.0	45.2	32300	F703_45.2 S4 ME4LB4	F703_45.2 S5 MX5SA4	F703_45.2 P132 BE132MB4	F703_45.2 P160 BX160MA4
34	2387	1.2	42.1	20000	F603_42.1 S4 ME4LB4	F603_42.1 S5 MX5SA4	F603_42.1 P132 BE132MB4	F603_42.1 P160 BX160MA4
37	2204	1.3	38.8	20000	F603_38.8 S4 ME4LB4	F603_38.8 S5 MX5SA4	F603_38.8 P132 BE132MB4	F603_38.8 P160 BX160MA4
45	1820	1.6	32.1	20000	F603_32.1 S4 ME4LB4	F603_32.1 S5 MX5SA4	F603_32.1 P132 BE132MB4	F603_32.1 P160 BX160MA4
48	1741	1.0	30.0	8210	F512_30.0 S4 ME4LB4	F512_30.0 S5 MX5SA4	F512_30.0 P132 BE132MB4	F512_30.0 P160 BX160MA4
49	1680	1.7	29.6	20000	F603_29.6 S4 ME4LB4	F603_29.6 S5 MX5SA4	F603_29.6 P132 BE132MB4	F603_29.6 P160 BX160MA4
57	1442	1.3	25.4	20000	F603_25.4 S4 ME4LB4	F603_25.4 S5 MX5SA4	F603_25.4 P132 BE132MB4	F603_25.4 P160 BX160MA4
59	1393	2.9	24.6	28300	F703_24.6 S4 ME4LB4	F703_24.6 S5 MX5SA4	F703_24.6 P132 BE132MB4	F703_24.6 P160 BX160MA4
61	1379	1.2	23.8	8170	F512_23.8 S4 ME4LB4	F512_23.8 S5 MX5SA4	F512_23.8 P132 BE132MB4	F512_23.8 P160 BX160MA4
62	1331	1.4	23.5	20000	F603_23.5 S4 ME4LB4	F603_23.5 S5 MX5SA4	F603_23.5 P132 BE132MB4	F603_23.5 P160 BX160MA4
64	1282	3.4	22.6	27800	F703_22.6 S4 ME4LB4	F703_22.6 S5 MX5SA4	F703_22.6 P132 BE132MB4	F703_22.6 P160 BX160MA4
69	1184	3.4	20.9	27200	F703_20.9 S4 ME4LB4	F703_20.9 S5 MX5SA4	F703_20.9 P132 BE132MB4	F703_20.9 P160 BX160MA4
70	1172	1.6	20.7	20000	F603_20.7 S4 ME4LB4	F603_20.7 S5 MX5SA4	F603_20.7 P132 BE132MB4	F603_20.7 P160 BX160MA4
76	1082	1.8	19.1	20000	F603_19.1 S4 ME4LB4	F603_19.1 S5 MX5SA4	F603_19.1 P132 BE132MB4	F603_19.1 P160 BX160MA4
77	1095	1.0	18.9	4920	F412_18.9 S4 ME4LB4		F412_18.9 P132 BE132MB4	
77	1091	1.4	18.8	8020	F512_18.8 S4 ME4LB4	F512_18.8 S5 MX5SA4	F512_18.8 P132 BE132MB4	F512_18.8 P160 BX160MA4
85	992	1.1	17.1	5000	F412_17.1 S4 ME4LB4		F412_17.1 P132 BE132MB4	
92	890	2.1	15.7	20000	F603_15.7 S4 ME4LB4	F603_15.7 S5 MX5SA4	F603_15.7 P132 BE132MB4	F603_15.7 P160 BX160MA4
99	848	1.2	14.6	5070	F412_14.6 S4 ME4LB4		F412_14.6 P132 BE132MB4	
100	821	2.3	14.5	20000	F603_14.5 S4 ME4LB4	F603_14.5 S5 MX5SA4	F603_14.5 P132 BE132MB4	F603_14.5 P160 BX160MA4
104	810	1.8	14.0	7700	F512_14.0 S4 ME4LB4	F512_14.0 S5 MX5SA4	F512_14.0 P132 BE132MB4	F512_14.0 P160 BX160MA4
114	722	2.6	12.7	19700	F603_12.7 S4 ME4LB4	F603_12.7 S5 MX5SA4	F603_12.7 P132 BE132MB4	F603_12.7 P160 BX160MA4
123	667	2.8	11.8	19300	F603_11.8 S4 ME4LB4	F603_11.8 S5 MX5SA4	F603_11.8 P132 BE132MB4	F603_11.8 P160 BX160MA4
131	644	2.1	11.1	7400	F512_11.1 S4 ME4LB4	F512_11.1 S5 MX5SA4	F512_11.1 P132 BE132MB4	F512_11.1 P160 BX160MA4
135	624	1.4	10.8	5080	F412_10.8 S4 ME4LB4		F412_10.8 P132 BE132MB4	
135	623	1.0	10.7	3660	F312_10.7 S4 ME4LB4		F312_10.7 P132 BE132MB4	
149	551	3.5	9.7	18400	F603_9.7 S4 ME4LB4	F603_9.7 S5 MX5SA4	F603_9.7 P132 BE132MB4	F603_9.7 P160 BX160MA4
159	529	1.3	9.1	5080	F412_9.1 S4 ME4LB4		F412_9.1 P132 BE132MB4	
160	525	2.1	9.1	7040	F512_9.1 S4 ME4LB4	F512_9.1 S5 MX5SA4	F512_9.1 P132 BE132MB4	F512_9.1 P160 BX160MA4
202	417	2.3	7.2	6700	F512_7.2 S4 ME4LB4	F512_7.2 S5 MX5SA4	F512_7.2 P132 BE132MB4	F512_7.2 P160 BX160MA4
209	403	1.0	6.9	3450	F312_6.9 S4 ME4LB4		F312_6.9 P132 BE132MB4	
216	390	1.6	6.7	4890	F412_6.7 S4 ME4LB4		F412_6.7 P132 BE132MB4	
263	318	3.4	11.1	6340	F512_11.1 S4 ME4LB2		F512_11.1 P132 BE132MB2	
271	308	2.4	10.8	4680	F412_10.8 S4 ME4LB2		F412_10.8 P132 BE132MB2	
320	261	2.3	9.1	4560	F412_9.1 S4 ME4LB2		F412_9.1 P132 BE132MB2	
323	259	3.5	9.1	5980	F512_9.1 S4 ME4LB2		F512_9.1 P132 BE132MB2	
434	192	2.7	6.7	4270	F412_6.7 S4 ME4LB2		F412_6.7 P132 BE132MB2	



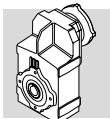
11 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IE2	IE3
6.4	14994	0.9	231.4	55000	F904_231.4 S5 ME5SA4	F904_231.4 S5 MX5SB4	F904_231.4 P160 BE160M4	F904_231.4 P160 BX160MB4
6.9	13841	1.0	213.6	55000	F904_213.6 S5 ME5SA4	F904_213.6 S5 MX5SB4	F904_213.6 P160 BE160M4	F904_213.6 P160 BX160MB4
7.6	13001	1.1	194.2	55000	F903_194.2 S5 ME5SA4	F903_194.2 S5 MX5SB4	F903_194.2 P160 BE160M4	F903_194.2 P160 BX160MB4
8.2	12001	1.2	179.2	55000	F903_179.2 S5 ME5SA4	F903_179.2 S5 MX5SB4	F903_179.2 P160 BE160M4	F903_179.2 P160 BX160MB4
9.0	10903	1.3	162.8	55000	F903_162.8 S5 ME5SA4	F903_162.8 S5 MX5SB4	F903_162.8 P160 BE160M4	F903_162.8 P160 BX160MB4
9.8	10064	1.4	150.3	55000	F903_150.3 S5 ME5SA4	F903_150.3 S5 MX5SB4	F903_150.3 P160 BE160M4	F903_150.3 P160 BX160MB4
10.7	9196	1.5	137.3	55000	F903_137.3 S5 ME5SA4	F903_137.3 S5 MX5SB4	F903_137.3 P160 BE160M4	F903_137.3 P160 BX160MB4
11.1	8885	0.9	132.7	45000	F803_132.7 S5 ME5SA4	F803_132.7 S5 MX5SB4	F803_132.7 P160 BE160M4	F803_132.7 P160 BX160MB4
11.6	8489	1.6	126.8	55000	F903_126.8 S5 ME5SA4	F903_126.8 S5 MX5SB4	F903_126.8 P160 BE160M4	F903_126.8 P160 BX160MB4
12.0	8202	1.0	122.5	45000	F803_122.5 S5 ME5SA4	F803_122.5 S5 MX5SB4	F803_122.5 P160 BE160M4	F803_122.5 P160 BX160MB4
12.9	7617	1.1	113.8	45000	F803_113.8 S5 ME5SA4	F803_113.8 S5 MX5SB4	F803_113.8 P160 BE160M4	F803_113.8 P160 BX160MB4
13.1	7496	1.9	111.9	55000	F903_111.9 S5 ME5SA4	F903_111.9 S5 MX5SB4	F903_111.9 P160 BE160M4	F903_111.9 P160 BX160MB4
14.0	7031	1.1	105.0	44400	F803_105.0 S5 ME5SA4	F803_105.0 S5 MX5SB4	F803_105.0 P160 BE160M4	F803_105.0 P160 BX160MB4
14.2	6919	2.0	103.3	55000	F903_103.3 S5 ME5SA4	F903_103.3 S5 MX5SB4	F903_103.3 P160 BE160M4	F903_103.3 P160 BX160MB4
15.4	6412	2.2	95.8	55000	F903_95.8 S5 ME5SA4	F903_95.8 S5 MX5SB4	F903_95.8 P160 BE160M4	F903_95.8 P160 BX160MB4
15.9	6181	1.3	92.3	44100	F803_92.3 S5 ME5SA4	F803_92.3 S5 MX5SB4	F803_92.3 P160 BE160M4	F803_92.3 P160 BX160MB4
16.6	5919	2.4	88.4	55000	F903_88.4 S5 ME5SA4	F903_88.4 S5 MX5SB4	F903_88.4 P160 BE160M4	F903_88.4 P160 BX160MB4
17.3	5705	1.4	85.2	44000	F803_85.2 S5 ME5SA4	F803_85.2 S5 MX5SB4	F803_85.2 P160 BE160M4	F803_85.2 P160 BX160MB4
19.2	5132	2.7	76.7	55000	F903_76.7 S5 ME5SA4	F903_76.7 S5 MX5SB4	F903_76.7 P160 BE160M4	F903_76.7 P160 BX160MB4
19.3	5106	1.6	76.3	42800	F803_76.3 S5 ME5SA4	F803_76.3 S5 MX5SB4	F803_76.3 P160 BE160M4	F803_76.3 P160 BX160MB4
20.0	4925	1.0	73.6	33500	F703_73.6 S5 ME5SA4	F703_73.6 S5 MX5SB4	F703_73.6 P160 BE160M4	F703_73.6 P160 BX160MB4
20.8	4738	3.0	70.8	55000	F903_70.8 S5 ME5SA4	F903_70.8 S5 MX5SB4	F903_70.8 P160 BE160M4	F903_70.8 P160 BX160MB4
20.9	4713	1.7	70.4	42500	F803_70.4 S5 ME5SA4	F803_70.4 S5 MX5SB4	F803_70.4 P160 BE160M4	F803_70.4 P160 BX160MB4
21.6	4547	1.1	67.9	33100	F703_67.9 S5 ME5SA4	F703_67.9 S5 MX5SB4	F703_67.9 P160 BE160M4	F703_67.9 P160 BX160MB4
23.5	4185	1.2	62.5	32900	F703_62.5 S5 ME5SA4	F703_62.5 S5 MX5SB4	F703_62.5 P160 BE160M4	F703_62.5 P160 BX160MB4
23.7	4158	3.4	62.1	55000			F903_62.1 P160 BE160M4	F903_62.1 P160 BX160MB4
23.9	4115	1.9	61.5	41100	F803_61.5 S5 ME5SA4	F803_61.5 S5 MX5SB4	F803_61.5 P160 BE160M4	F803_61.5 P160 BX160MB4
25.5	3863	1.3	57.7	32500	F703_57.7 S5 ME5SA4	F703_57.7 S5 MX5SB4	F703_57.7 P160 BE160M4	F703_57.7 P160 BX160MB4
25.9	3799	2.1	56.7	40800	F803_56.7 S5 ME5SA4	F803_56.7 S5 MX5SB4	F803_56.7 P160 BE160M4	F803_56.7 P160 BX160MB4
29.9	3288	2.4	49.1	39100			F803_49.1 P160 BE160M4	F803_49.1 P160 BX160MB4
30	3278	1.5	49.0	31800	F703_49.0 S5 ME5SA4	F703_49.0 S5 MX5SB4	F703_49.0 P160 BE160M4	F703_49.0 P160 BX160MB4
31	3203	0.9	47.8	20000	F603_47.8 S5 ME5SA4	F603_47.8 S5 MX5SB4	F603_47.8 P160 BE160M4	F603_47.8 P160 BX160MB4
32	3035	2.6	45.3	38900			F803_45.3 P160 BE160M4	F803_45.3 P160 BX160MB4
33	3026	1.7	45.2	31300	F703_45.2 S5 ME5SA4	F703_45.2 S5 MX5SB4	F703_45.2 P160 BE160M4	F703_45.2 P160 BX160MB4
35	2818	1.0	42.1	20000	F603_42.1 S5 ME5SA4	F603_42.1 S5 MX5SB4	F603_42.1 P160 BE160M4	F603_42.1 P160 BX160MB4
38	2611	3.1	39.0	36400			F803_39.0 P160 BE160M4	F803_39.0 P160 BX160MB4
38	2601	1.1	38.8	20000	F603_38.8 S5 ME5SA4	F603_38.8 S5 MX5SB4	F603_38.8 P160 BE160M4	F603_38.8 P160 BX160MB4
38	2571	1.9	38.4	30200			F703_38.4 P160 BE160M4	F703_38.4 P160 BX160MB4
41	2411	3.3	36.0	35600			F803_36.0 P160 BE160M4	F803_36.0 P160 BX160MB4
41	2373	2.1	35.4	29600			F703_35.4 P160 BE160M4	F703_35.4 P160 BX160MB4
46	2148	1.3	32.1	20000	F603_32.1 S5 ME5SA4	F603_32.1 S5 MX5SB4	F603_32.1 P160 BE160M4	F603_32.1 P160 BX160MB4
49	2009	2.5	30.0	29000			F703_30.0 P160 BE160M4	F703_30.0 P160 BX160MB4
50	1983	1.5	29.6	20000	F603_29.6 S5 ME5SA4	F603_29.6 S5 MX5SB4	F603_29.6 P160 BE160M4	F603_29.6 P160 BX160MB4
53	1854	2.5	27.7	28300			F703_27.7 P160 BE160M4	F703_27.7 P160 BX160MB4
58	1702	1.1	25.4	20000	F603_25.4 S5 ME5SA4	F603_25.4 S5 MX5SB4	F603_25.4 P160 BE160M4	F603_25.4 P160 BX160MB4
60	1644	2.4	24.6	27800	F703_24.6 S5 ME5SA4	F703_24.6 S5 MX5SB4	F703_24.6 P160 BE160M4	F703_24.6 P160 BX160MB4
62	1628	1.0	23.8	7500	F512_23.8 S5 ME5SA4	F512_23.8 S5 MX5SB4	F512_23.8 P160 BE160M4	F512_23.8 P160 BX160MB4
63	1571	1.2	23.5	20000	F603_23.5 S5 ME5SA4	F603_23.5 S5 MX5SB4	F603_23.5 P160 BE160M4	F603_23.5 P160 BX160MB4
65	1514	2.9	22.6	27300	F703_22.6 S5 ME5SA4	F703_22.6 S5 MX5SB4	F703_22.6 P160 BE160M4	F703_22.6 P160 BX160MB4
70	1397	2.9	20.9	26800	F703_20.9 S5 ME5SA4	F703_20.9 S5 MX5SB4	F703_20.9 P160 BE160M4	F703_20.9 P160 BX160MB4
71	1383	1.4	20.7	20000	F603_20.7 S5 ME5SA4	F603_20.7 S5 MX5SB4	F603_20.7 P160 BE160M4	F603_20.7 P160 BX160MB4
77	1277	1.5	19.1	20000	F603_19.1 S5 ME5SA4	F603_19.1 S5 MX5SB4	F603_19.1 P160 BE160M4	F603_19.1 P160 BX160MB4
78	1287	1.2	18.8	7490	F512_18.8 S5 ME5SA4	F512_18.8 S5 MX5SB4	F512_18.8 P160 BE160M4	F512_18.8 P160 BX160MB4
94	1050	1.8	15.7	20000	F603_15.7 S5 ME5SA4	F603_15.7 S5 MX5SB4	F603_15.7 P160 BE160M4	F603_15.7 P160 BX160MB4
102	969	2.0	14.5	20000	F603_14.5 S5 ME5SA4	F603_14.5 S5 MX5SB4	F603_14.5 P160 BE160M4	F603_14.5 P160 BX160MB4
105	956	1.5	14.0	7310	F512_14.0 S5 ME5SA4	F512_14.0 S5 MX5SB4	F512_14.0 P160 BE160M4	F512_14.0 P160 BX160MB4
115	853	2.2	12.7	19400	F603_12.7 S5 ME5SA4	F603_12.7 S5 MX5SB4	F603_12.7 P160 BE160M4	F603_12.7 P160 BX160MB4
125	787	2.4	11.8	19000	F603_11.8 S5 ME5SA4	F603_11.8 S5 MX5SB4	F603_11.8 P160 BE160M4	F603_11.8 P160 BX160MB4
132	760	1.8	11.1	7090	F512_11.1 S5 ME5SA4	F512_11.1 S5 MX5SB4	F512_11.1 P160 BE160M4	F512_11.1 P160 BX160MB4
151	650	2.9	9.7	18200	F603_9.7 S5 ME5SA4	F603_9.7 S5 MX5SB4	F603_9.7 P160 BE160M4	F603_9.7 P160 BX160MB4
162	619	1.8	9.1	6770	F512_9.1 S5 ME5SA4	F512_9.1 S5 MX5SB4	F512_9.1 P160 BE160M4	F512_9.1 P160 BX160MB4
164	600	3.2	9.0	17800	F603_9.0 S5 ME5SA4	F603_9.0 S5 MX5SB4	F603_9.0 P160 BE160M4	F603_9.0 P160 BX160MB4
204	492	2.0	7.2	6490	F512_7.2 S5 ME5SA4	F512_7.2 S5 MX5SB4	F512_7.2 P160 BE160M4	F512_7.2 P160 BX160MB4
265	377	2.9	11.1	6170	F512_11.1 S5 ME5SA2		F512_11.1 P160 BE160MA2	
325	307	2.9	9.1	5840	F512_9.1 S5 ME5SA2		F512_9.1 P160 BE160MA2	
409	244	3.3	7.2	5510	F512_7.2 S5 ME5SA2		F512_7.2 P160 BE160MA2	



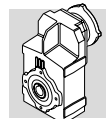
15 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IE2	IE3
9.0	14840	0.9	162.8	55000	F903_162.8 S5 ME5LA4	F903_162.8 S5 MX5LA4	F903_162.8 P160 BE160L4	F903_162.8 P160 BX160L4
9.8	13699	1.0	150.3	55000	F903_150.3 S5 ME5LA4	F903_150.3 S5 MX5LA4	F903_150.3 P160 BE160L4	F903_150.3 P160 BX160L4
10.7	12517	1.1	137.3	55000	F903_137.3 S5 ME5LA4	F903_137.3 S5 MX5LA4	F903_137.3 P160 BE160L4	F903_137.3 P160 BX160L4
11.6	11554	1.2	126.8	55000	F903_126.8 S5 ME5LA4	F903_126.8 S5 MX5LA4	F903_126.8 P160 BE160L4	F903_126.8 P160 BX160L4
13.1	10203	1.4	111.9	55000	F903_111.9 S5 ME5LA4	F903_111.9 S5 MX5LA4	F903_111.9 P160 BE160L4	F903_111.9 P160 BX160L4
14.2	9418	1.5	103.3	55000	F903_103.3 S5 ME5LA4	F903_103.3 S5 MX5LA4	F903_103.3 P160 BE160L4	F903_103.3 P160 BX160L4
15.4	8728	1.6	95.8	55000	F903_95.8 S5 ME5LA4	F903_95.8 S5 MX5LA4	F903_95.8 P160 BE160L4	F903_95.8 P160 BX160L4
15.9	8413	1.0	92.3	41300	F803_92.3 S5 ME5LA4	F803_92.3 S5 MX5LA4	F803_92.3 P160 BE160L4	F803_92.3 P160 BX160L4
16.6	8056	1.7	88.4	55000	F903_88.4 S5 ME5LA4	F903_88.4 S5 MX5LA4	F903_88.4 P160 BE160L4	F903_88.4 P160 BX160L4
17.3	7766	1.0	85.2	40800	F803_85.2 S5 ME5LA4	F803_85.2 S5 MX5LA4	F803_85.2 P160 BE160L4	F803_85.2 P160 BX160L4
19.2	6986	2.0	76.7	55000	F903_76.7 S5 ME5LA4	F903_76.7 S5 MX5LA4	F903_76.7 P160 BE160L4	F903_76.7 P160 BX160L4
19.3	6949	1.2	76.3	40500	F803_76.3 S5 ME5LA4	F803_76.3 S5 MX5LA4	F803_76.3 P160 BE160L4	F803_76.3 P160 BX160L4
20.8	6449	2.2	70.8	55000	F903_70.8 S5 ME5LA4	F903_70.8 S5 MX5LA4	F903_70.8 P160 BE160L4	F903_70.8 P160 BX160L4
20.9	6415	1.2	70.4	39900	F803_70.4 S5 ME5LA4	F803_70.4 S5 MX5LA4	F803_70.4 P160 BE160L4	F803_70.4 P160 BX160L4
23.5	5696	0.9	62.5	31300	F703_62.5 S5 ME5LA4	F703_62.5 S5 MX5LA4	F703_62.5 P160 BE160L4	F703_62.5 P160 BX160L4
23.7	5660	2.5	62.1	55000			F903_62.1 P160 BE160L4	F903_62.1 P160 BX160L4
23.9	5601	1.4	61.5	38700	F803_61.5 S5 ME5LA4	F803_61.5 S5 MX5LA4	F803_61.5 P160 BE160L4	F803_61.5 P160 BX160L4
25.5	5258	1.0	57.7	29700	F703_57.7 S5 ME5LA4	F703_57.7 S5 MX5LA4	F703_57.7 P160 BE160L4	F703_57.7 P160 BX160L4
25.6	5224	2.7	57.3	55000			F903_57.3 P160 BE160L4	F903_57.3 P160 BX160L4
25.9	5170	1.5	56.7	38600	F803_56.7 S5 ME5LA4	F803_56.7 S5 MX5LA4	F803_56.7 P160 BE160L4	F803_56.7 P160 BX160L4
29.5	4548	3.1	49.9	54400			F903_49.9 P160 BE160L4	F903_49.9 P160 BX160L4
29.9	4476	1.8	49.1	37800			F803_49.1 P160 BE160L4	F803_49.1 P160 BX160L4
30	4462	1.1	49.0	29400	F703_49.0 S5 ME5LA4	F703_49.0 S5 MX5LA4	F703_49.0 P160 BE160L4	F703_49.0 P160 BX160L4
32	4198	3.3	46.1	53500			F903_46.1 P160 BE160L4	F903_46.1 P160 BX160L4
32	4131	1.9	45.3	37200			F803_45.3 P160 BE160L4	F803_45.3 P160 BX160L4
33	4119	1.2	45.2	29100	F703_45.2 S5 ME5LA4	F703_45.2 S5 MX5LA4	F703_45.2 P160 BE160L4	F703_45.2 P160 BX160L4
38	3554	2.3	39.0	35800			F803_39.0 P160 BE160L4	F803_39.0 P160 BX160L4
38	3499	1.4	38.4	28600			F703_38.4 P160 BE160L4	F703_38.4 P160 BX160L4
41	3281	2.4	36.0	35200			F803_36.0 P160 BE160L4	F803_36.0 P160 BX160L4
41	3230	1.5	35.4	28200			F703_35.4 P160 BE160L4	F703_35.4 P160 BX160L4
46	2924	1.0	32.1	20000	F603_32.1 S5 ME5LA4	F603_32.1 S5 MX5LA4	F603_32.1 P160 BE160L4	F603_32.1 P160 BX160L4
49	2734	1.8	30.0	27700			F703_30.0 P160 BE160L4	F703_30.0 P160 BX160L4
50	2699	1.1	29.6	20000	F603_29.6 S5 ME5LA4	F603_29.6 S5 MX5LA4	F603_29.6 P160 BE160L4	F603_29.6 P160 BX160L4
53	2524	1.9	27.7	27100			F703_27.7 P160 BE160L4	F703_27.7 P160 BX160L4
58	2299	2.7	25.2	32900	F803_25.2 S5 ME5LA4	F803_25.2 S5 MX5LA4	F803_25.2 P160 BE160L4	F803_25.2 P160 BX160L4
60	2238	1.8	24.6	26500	F703_24.6 S5 ME5LA4	F703_24.6 S5 MX5LA4	F703_24.6 P160 BE160L4	F703_24.6 P160 BX160L4
63	2138	0.9	23.5	20000	F603_23.5 S5 ME5LA4	F603_23.5 S5 MX5LA4	F603_23.5 P160 BE160L4	F603_23.5 P160 BX160L4
65	2060	2.1	22.6	26200	F703_22.6 S5 ME5LA4	F703_22.6 S5 MX5LA4	F703_22.6 P160 BE160L4	F703_22.6 P160 BX160L4
67	2008	3.3	22.0	31900	F803_22.0 S5 ME5LA4	F803_22.0 S5 MX5LA4	F803_22.0 P160 BE160L4	F803_22.0 P160 BX160L4
70	1902	2.1	20.9	25700	F703_20.9 S5 ME5LA4	F703_20.9 S5 MX5LA4	F703_20.9 P160 BE160L4	F703_20.9 P160 BX160L4
71	1883	1.0	20.7	20000	F603_20.7 S5 ME5LA4	F603_20.7 S5 MX5LA4	F603_20.7 P160 BE160L4	F603_20.7 P160 BX160L4
72	1853	3.3	20.3	31300	F803_20.3 S5 ME5LA4	F803_20.3 S5 MX5LA4	F803_20.3 P160 BE160L4	F803_20.3 P160 BX160L4
77	1738	1.1	19.1	20000	F603_19.1 S5 ME5LA4	F603_19.1 S5 MX5LA4	F603_19.1 P160 BE160L4	F603_19.1 P160 BX160L4
78	1752	0.9	18.8	6800	F512_18.8 S5 ME5LA4	F512_18.8 S5 MX5LA4	F512_18.8 P160 BE160L4	F512_18.8 P160 BX160L4
83	1614	2.7	17.7	24900	F703_17.7 S5 ME5LA4	F703_17.7 S5 MX5LA4	F703_17.7 P160 BE160L4	F703_17.7 P160 BX160L4
90	1490	2.7	16.3	24400	F703_16.3 S5 ME5LA4	F703_16.3 S5 MX5LA4	F703_16.3 P160 BE160L4	F703_16.3 P160 BX160L4
94	1429	1.3	15.7	19600	F603_15.7 S5 ME5LA4	F603_15.7 S5 MX5LA4	F603_15.7 P160 BE160L4	F603_15.7 P160 BX160L4
102	1319	1.4	14.5	19200	F603_14.5 S5 ME5LA4	F603_14.5 S5 MX5LA4	F603_14.5 P160 BE160L4	F603_14.5 P160 BX160L4
105	1301	1.1	14.0	6450	F512_14.0 S5 ME5LA4	F512_14.0 S5 MX5LA4	F512_14.0 P160 BE160L4	F512_14.0 P160 BX160L4
106	1266	3.1	13.9	23600	F703_13.9 S5 ME5LA4	F703_13.9 S5 MX5LA4	F703_13.9 P160 BE160L4	F703_13.9 P160 BX160L4
115	1168	3.1	12.8	23100	F703_12.8 S5 ME5LA4	F703_12.8 S5 MX5LA4	F703_12.8 P160 BE160L4	F703_12.8 P160 BX160L4
115	1160	1.6	12.7	18800	F603_12.7 S5 ME5LA4	F603_12.7 S5 MX5LA4	F603_12.7 P160 BE160L4	F603_12.7 P160 BX160L4
125	1071	1.8	11.8	18400	F603_11.8 S5 ME5LA4	F603_11.8 S5 MX5LA4	F603_11.8 P160 BE160L4	F603_11.8 P160 BX160L4
132	1034	1.3	11.1	6000	F512_11.1 S5 ME5LA4	F512_11.1 S5 MX5LA4	F512_11.1 P160 BE160L4	F512_11.1 P160 BX160L4
135	989	3.5	10.9	22300	F703_10.9 S5 ME5LA4	F703_10.9 S5 MX5LA4	F703_10.9 P160 BE160L4	F703_10.9 P160 BX160L4
147	913	3.5	10.0	21800	F703_10.0 S5 ME5LA4	F703_10.0 S5 MX5LA4	F703_10.0 P160 BE160L4	F703_10.0 P160 BX160L4
151	885	2.1	9.7	17700	F603_9.7 S5 ME5LA4	F603_9.7 S5 MX5LA4	F603_9.7 P160 BE160L4	F603_9.7 P160 BX160L4
162	843	1.3	9.1	5800	F512_9.1 S5 ME5LA4	F512_9.1 S5 MX5LA4	F512_9.1 P160 BE160L4	F512_9.1 P160 BX160L4
164	817	2.3	9.0	17300	F603_9.0 S5 ME5LA4	F603_9.0 S5 MX5LA4	F603_9.0 P160 BE160L4	F603_9.0 P160 BX160L4
204	670	1.5	7.2	5640	F512_7.2 S5 ME5LA4	F512_7.2 S5 MX5LA4	F512_7.2 P160 BE160L4	F512_7.2 P160 BX160L4



18.5 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N		IE2	IE3	
10.7	15327	0.9	137.3	55000		F903_137.3 P180 BE180M4	F903_137.3 P180 BX180M4	529
11.6	14148	1.0	126.8	55000		F903_126.8 P180 BE180M4	F903_126.8 P180 BX180M4	529
13.1	12493	1.1	111.9	55000		F903_111.9 P180 BE180M4	F903_111.9 P180 BX180M4	529
14.2	11532	1.2	103.3	55000		F903_103.3 P180 BE180M4	F903_103.3 P180 BX180M4	529
15.4	10687	1.3	95.8	55000		F903_95.8 P180 BE180M4	F903_95.8 P180 BX180M4	529
16.6	9865	1.4	88.4	55000		F903_88.4 P180 BE180M4	F903_88.4 P180 BX180M4	529
19.2	8554	1.6	76.7	55000		F903_76.7 P180 BE180M4	F903_76.7 P180 BX180M4	529
19.3	8510	0.9	76.3	38100		F803_76.3 P180 BE180M4	F803_76.3 P180 BX180M4	526
20.8	7896	1.8	70.8	55000		F903_70.8 P180 BE180M4	F903_70.8 P180 BX180M4	529
20.9	7855	1.0	70.4	37600		F803_70.4 P180 BE180M4	F803_70.4 P180 BX180M4	526
23.7	6930	2.0	62.1	55000		F903_62.1 P180 BE180M4	F903_62.1 P180 BX180M4	529
23.9	6859	1.2	61.5	37400		F803_61.5 P180 BE180M4	F803_61.5 P180 BX180M4	526
25.6	6397	2.2	57.3	55000		F903_57.3 P180 BE180M4	F903_57.3 P180 BX180M4	529
25.9	6331	1.3	56.7	36800		F803_56.7 P180 BE180M4	F803_56.7 P180 BX180M4	526
29.5	5568	2.5	49.9	55000		F903_49.9 P180 BE180M4	F903_49.9 P180 BX180M4	529
29.9	5480	1.5	49.1	35800		F803_49.1 P180 BE180M4	F803_49.1 P180 BX180M4	526
30	5464	0.9	49.0	27400		F703_49.0 P180 BE180M4	F703_49.0 P180 BX180M4	523
32	5140	2.7	46.1	55000		F903_46.1 P180 BE180M4	F903_46.1 P180 BX180M4	529
32	5059	1.6	45.3	35700		F803_45.3 P180 BE180M4	F803_45.3 P180 BX180M4	526
33	5043	1.0	45.2	27200		F703_45.2 P180 BE180M4	F703_45.2 P180 BX180M4	523
36	4520	3.1	40.5	52300		F903_40.5 P180 BE180M4	F903_40.5 P180 BX180M4	529
38	4352	1.8	39.0	35000		F803_39.0 P180 BE180M4	F803_39.0 P180 BX180M4	526
38	4285	1.2	38.4	27000		F703_38.4 P180 BE180M4	F703_38.4 P180 BX180M4	523
39	4172	3.2	37.4	51400		F903_37.4 P180 BE180M4	F903_37.4 P180 BX180M4	529
41	4018	2.0	36.0	34400		F803_36.0 P180 BE180M4	F803_36.0 P180 BX180M4	526
41	3955	1.3	35.4	26700		F703_35.4 P180 BE180M4	F703_35.4 P180 BX180M4	523
47	3488	2.3	31.3	33400		F803_31.3 P180 BE180M4	F803_31.3 P180 BX180M4	526
49	3348	1.5	30.0	26500		F703_30.0 P180 BE180M4	F703_30.0 P180 BX180M4	523
51	3219	2.5	28.8	33000		F803_28.8 P180 BE180M4	F803_28.8 P180 BX180M4	526
53	3090	1.5	27.7	26000		F703_27.7 P180 BE180M4	F703_27.7 P180 BX180M4	523
58	2815	2.2	25.2	32100		F803_25.2 P180 BE180M4	F803_25.2 P180 BX180M4	526
60	2741	1.5	24.6	25500		F703_24.6 P180 BE180M4	F703_24.6 P180 BX180M4	523
65	2523	1.7	22.6	25200		F703_22.6 P180 BE180M4	F703_22.6 P180 BX180M4	523
67	2458	2.7	22.0	31300		F803_22.0 P180 BE180M4	F803_22.0 P180 BX180M4	526
70	2329	1.7	20.9	24900		F703_20.9 P180 BE180M4	F703_20.9 P180 BX180M4	523
72	2269	2.7	20.3	30600		F803_20.3 P180 BE180M4	F803_20.3 P180 BX180M4	526
77	2128	0.9	19.1	19200		F603_19.1 P180 BE180M4	F603_19.1 P180 BX180M4	519
83	1976	2.2	17.7	24200		F703_17.7 P180 BE180M4	F703_17.7 P180 BX180M4	523
84	1964	3.4	17.6	29700		F803_17.6 P180 BE180M4	F803_17.6 P180 BX180M4	526
90	1824	2.2	16.3	23800		F703_16.3 P180 BE180M4	F703_16.3 P180 BX180M4	523
90	1813	3.4	16.2	29100		F803_16.2 P180 BE180M4	F803_16.2 P180 BX180M4	526
94	1750	1.1	15.7	18700		F603_15.7 P180 BE180M4	F603_15.7 P180 BX180M4	519
102	1615	1.2	14.5	18600		F603_14.5 P180 BE180M4	F603_14.5 P180 BX180M4	519
106	1550	2.5	13.9	23000		F703_13.9 P180 BE180M4	F703_13.9 P180 BX180M4	523
115	1430	2.5	12.8	22600		F703_12.8 P180 BE180M4	F703_12.8 P180 BX180M4	523
115	1421	1.3	12.7	18300		F603_12.7 P180 BE180M4	F603_12.7 P180 BX180M4	519
125	1312	1.4	11.8	17900		F603_11.8 P180 BE180M4	F603_11.8 P180 BX180M4	519
132	1267	1.1	11.1	5800		F512_11.1 P180 BE180M4	F512_11.1 P180 BX180M4	515
135	1211	2.8	10.9	21800		F703_10.9 P180 BE180M4	F703_10.9 P180 BX180M4	523
147	1118	2.9	10.0	21400		F703_10.0 P180 BE180M4	F703_10.0 P180 BX180M4	523
151	1083	1.8	9.7	17300		F603_9.7 P180 BE180M4	F603_9.7 P180 BX180M4	519
162	1032	1.1	9.1	5630		F512_9.1 P180 BE180M4	F512_9.1 P180 BX180M4	515
164	1000	1.9	9.0	16900		F603_9.0 P180 BE180M4	F603_9.0 P180 BX180M4	519
204	820	1.2	7.2	5400		F512_7.2 P180 BE180M4	F512_7.2 P180 BX180M4	515

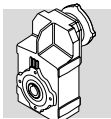


22 kW

n ₂	M ₂	S	i	R _{n2}			IE2	IE3	
min-1	Nm			N					
13.1	14888	0.9	111.9	55000			F903_111.9 P180 BE180L4	F903_111.9 P180 BX180L4	529
14.2	13743	1.0	103.3	55000			F903_103.3 P180 BE180L4	F903_103.3 P180 BX180L4	529
15.4	12735	1.1	95.8	55000			F903_95.8 P180 BE180L4	F903_95.8 P180 BX180L4	529
16.6	11755	1.2	88.4	55000			F903_88.4 P180 BE180L4	F903_88.4 P180 BX180L4	529
19.2	10194	1.4	76.7	55000			F903_76.7 P180 BE180L4	F903_76.7 P180 BX180L4	529
20.8	9410	1.5	70.8	55000			F903_70.8 P180 BE180L4	F903_70.8 P180 BX180L4	529
23.7	8259	1.7	62.1	55000			F903_62.1 P180 BE180L4	F903_62.1 P180 BX180L4	529
23.9	8173	1.0	61.5	35400			F803_61.5 P180 BE180L4	F803_61.5 P180 BX180L4	526
25.6	7623	1.8	57.3	55000			F903_57.3 P180 BE180L4	F903_57.3 P180 BX180L4	529
25.9	7545	1.1	56.7	35000			F803_56.7 P180 BE180L4	F803_56.7 P180 BX180L4	526
29.5	6636	2.1	49.9	54400			F903_49.9 P180 BE180L4	F903_49.9 P180 BX180L4	529
29.9	6531	1.2	49.1	34100			F803_49.1 P180 BE180L4	F803_49.1 P180 BX180L4	526
32	6125	2.3	46.1	53500			F903_46.1 P180 BE180L4	F903_46.1 P180 BX180L4	529
32	6028	1.3	45.3	34300			F803_45.3 P180 BE180L4	F803_45.3 P180 BX180L4	526
36	5386	2.6	40.5	52300			F903_40.5 P180 BE180L4	F903_40.5 P180 BX180L4	529
38	5187	1.5	39.0	33300			F803_39.0 P180 BE180L4	F803_39.0 P180 BX180L4	526
38	5106	1.0	38.4	25400			F703_38.4 P180 BE180L4	F703_38.4 P180 BX180L4	523
39	4972	2.7	37.4	51400			F903_37.4 P180 BE180L4	F903_37.4 P180 BX180L4	529
41	4788	1.7	36.0	33200			F803_36.0 P180 BE180L4	F803_36.0 P180 BX180L4	526
41	4713	1.1	35.4	25300			F703_35.4 P180 BE180L4	F703_35.4 P180 BX180L4	523
47	4156	1.9	31.3	32600			F803_31.3 P180 BE180L4	F803_31.3 P180 BX180L4	526
47	4122	3.2	31.0	49500			F903_31.0 P180 BE180L4	F903_31.0 P180 BX180L4	529
49	3990	1.3	30.0	25100			F703_30.0 P180 BE180L4	F703_30.0 P180 BX180L4	523
51	3836	2.1	28.8	32000			F803_28.8 P180 BE180L4	F803_28.8 P180 BX180L4	526
51	3805	3.2	28.6	48600			F903_28.6 P180 BE180L4	F903_28.6 P180 BX180L4	529
53	3683	1.3	27.7	24800			F703_27.7 P180 BE180L4	F703_27.7 P180 BX180L4	523
58	3355	1.8	25.2	31300			F803_25.2 P180 BE180L4	F803_25.2 P180 BX180L4	526
60	3266	1.2	24.6	24500			F703_24.6 P180 BE180L4	F703_24.6 P180 BX180L4	523
65	3006	1.4	22.6	24300			F703_22.6 P180 BE180L4	F703_22.6 P180 BX180L4	523
67	2929	2.3	22.0	30200			F803_22.0 P180 BE180L4	F803_22.0 P180 BX180L4	526
70	2775	1.4	20.9	24000			F703_20.9 P180 BE180L4	F703_20.9 P180 BX180L4	523
72	2704	2.3	20.3	29900			F803_20.3 P180 BE180L4	F803_20.3 P180 BX180L4	526
83	2355	1.9	17.7	23400			F703_17.7 P180 BE180L4	F703_17.7 P180 BX180L4	523
84	2341	2.9	17.6	29100			F803_17.6 P180 BE180L4	F803_17.6 P180 BX180L4	526
90	2174	1.8	16.3	23100			F703_16.3 P180 BE180L4	F703_16.3 P180 BX180L4	523
90	2161	2.9	16.2	28500			F803_16.2 P180 BE180L4	F803_16.2 P180 BX180L4	526
94	2085	0.9	15.7	18200			F603_15.7 P180 BE180L4	F603_15.7 P180 BX180L4	519
102	1925	1.0	14.5	18000			F603_14.5 P180 BE180L4	F603_14.5 P180 BX180L4	519
106	1847	2.1	13.9	22400			F703_13.9 P180 BE180L4	F703_13.9 P180 BX180L4	523
115	1705	2.1	12.8	22100			F703_12.8 P180 BE180L4	F703_12.8 P180 BX180L4	523
115	1693	1.1	12.7	17700			F603_12.7 P180 BE180L4	F603_12.7 P180 BX180L4	519
125	1563	1.2	11.8	17400			F603_11.8 P180 BE180L4	F603_11.8 P180 BX180L4	519
135	1443	2.4	10.9	21400			F703_10.9 P180 BE180L4	F703_10.9 P180 BX180L4	523
147	1332	2.4	10.0	21000			F703_10.0 P180 BE180L4	F703_10.0 P180 BX180L4	523
151	1291	1.5	9.7	16900			F603_9.7 P180 BE180L4	F603_9.7 P180 BX180L4	519
164	1192	1.6	9.0	16500			F603_9.0 P180 BE180L4	F603_9.0 P180 BX180L4	519
204	977	1.0	7.2	5250			F512_7.2 P180 BE180L4	F512_7.2 P180 BX180L4	515

30 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N		IEC	
						IE3	
16.6	16022	0.9	88.4	52200		F903_88.4 P200 BX200LAK4	529
19.2	13893	1.0	76.7	52400		F903_76.7 P200 BX200LAK4	529
20.8	12825	1.1	70.8	52100		F903_70.8 P200 BX200LAK4	529
23.7	11256	1.2	62.1	51800		F903_62.1 P200 BX200LAK4	529
25.6	10390	1.3	57.3	51400		F903_57.3 P200 BX200LAK4	529
29.5	9044	1.5	49.9	50800		F903_49.9 P200 BX200LAK4	529
32	8348	1.7	46.1	50200		F903_46.1 P200 BX200LAK4	529
32	8216	1.0	45.3	30900		F803_45.3 P200 BX200LAK4	526
36	7341	1.9	40.5	49400		F903_40.5 P200 BX200LAK4	529
38	7069	1.1	39.0	31000		F803_39.0 P200 BX200LAK4	526

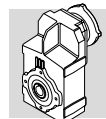


30 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N		IEC IE3
39	6776	2.0	37.4	48700		F903_37.4 P200 BX200LAK4 529
41	6525	1.2	36.0	30600		F803_36.0 P200 BX200LAK4 526
47	5664	1.4	31.3	29900		F803_31.3 P200 BX200LAK4 526
47	5618	2.3	31.0	47300		F903_31.0 P200 BX200LAK4 529
49	5438	0.9	30.0	22300		F703_30.0 P200 BX200LAK4 523
51	5229	1.5	28.8	29500		F803_28.8 P200 BX200LAK4 526
51	5186	2.3	28.6	46600		F903_28.6 P200 BX200LAK4 529
53	5019	0.9	27.7	22200		F703_27.7 P200 BX200LAK4 523
58	4601	2.6	25.4	45500		F903_25.4 P200 BX200LAK4 529
58	4572	1.2	25.2	29500		F803_25.2 P200 BX200LAK4 526
66	4039	3.0	22.3	44400		F903_22.3 P200 BX200LAK4 529
67	3992	1.7	22.0	29000		F803_22.0 P200 BX200LAK4 526
71	3728	3.0	20.6	43600		F903_20.6 P200 BX200LAK4 529
72	3685	1.7	20.3	28500		F803_20.3 P200 BX200LAK4 526
83	3209	1.4	17.7	21800		F703_17.7 P200 BX200LAK4 523
84	3190	2.1	17.6	27900		F803_17.6 P200 BX200LAK4 526
90	2963	1.4	16.3	21500		F703_16.3 P200 BX200LAK4 523
90	2945	2.1	16.2	27400		F803_16.2 P200 BX200LAK4 526
105	2534	2.7	14.0	26700		F803_14.0 P200 BX200LAK4 526
106	2517	1.5	13.9	21100		F703_13.9 P200 BX200LAK4 523
114	2339	2.7	12.9	26200		F803_12.9 P200 BX200LAK4 526
115	2323	1.5	12.8	20900		F703_12.8 P200 BX200LAK4 523
135	1967	1.8	10.9	20300		F703_10.9 P200 BX200LAK4 523
142	1874	3.0	10.3	24900		F803_10.3 P200 BX200LAK4 526
147	1815	1.8	10.0	20000		F703_10.0 P200 BX200LAK4 523

37 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N		IEC IE3
20.9	15710	0.9	70.8	47600		F903_70.8 P225 BX225SAK4 529
25.8	12728	1.1	57.3	47700		F903_57.3 P225 BX225SAK4 529
29.7	11079	1.3	49.9	47600		F903_49.9 P225 BX225SAK4 529
32	10227	1.4	46.1	47200		F903_46.1 P225 BX225SAK4 529
37	8993	1.6	40.5	46800		F903_40.5 P225 BX225SAK4 529
38	8659	0.9	39.0	28500		F803_39.0 P225 BX225SAK4 526
40	8301	1.6	37.4	46300		F903_37.4 P225 BX225SAK4 529
41	7993	1.0	36.0	28300		F803_36.0 P225 BX225SAK4 526
47	6939	1.2	31.3	28400		F803_31.3 P225 BX225SAK4 526
48	6882	1.9	31.0	45300		F903_31.0 P225 BX225SAK4 529
51	6405	1.2	28.8	28100		F803_28.8 P225 BX225SAK4 526
52	6353	1.9	28.6	44700		F903_28.6 P225 BX225SAK4 529
58	5637	2.1	25.4	43900		F903_25.4 P225 BX225SAK4 529
59	5601	1.1	25.2	27800		F803_25.2 P225 BX225SAK4 526
66	4947	2.4	22.3	43000		F903_22.3 P225 BX225SAK4 529
67	4891	1.1	22.0	27600		F803_22.0 P225 BX225SAK4 526
72	4567	2.5	20.6	42300		F903_20.6 P225 BX225SAK4 529
73	4515	1.1	20.3	27200		F803_20.3 P225 BX225SAK4 526
83	3975	2.8	17.9	41200		F903_17.9 P225 BX225SAK4 529
84	3908	1.7	17.6	26800		F803_17.6 P225 BX225SAK4 526
90	3669	2.8	16.5	40500		F903_16.5 P225 BX225SAK4 529
91	3607	1.7	16.2	26300		F803_16.2 P225 BX225SAK4 526
102	3226	3.1	14.5	39500		F903_14.5 P225 BX225SAK4 529
106	3104	2.2	14.0	25800		F803_14.0 P225 BX225SAK4 526
110	2978	3.1	13.4	38700		F903_13.4 P225 BX225SAK4 529
115	2865	2.2	12.9	25300		F803_12.9 P225 BX225SAK4 526
132	2487	2.4	11.2	24500		F803_11.2 P225 BX225SAK4 526
143	2296	2.4	10.3	24300		F803_10.3 P225 BX225SAK4 526

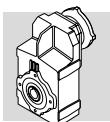


45 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N		IEC IE3
32	12438	1.1	46.1	43900		F903_46.1 P225 BX225SBK4 529
37	10937	1.3	40.5	43900		F903_40.5 P225 BX225SBK4 529
40	10096	1.3	37.4	43600		F903_37.4 P225 BX225SBK4 529
47	8439	0.9	31.3	26100		F803_31.3 P225 BX225SBK4 526
48	8370	1.6	31.0	43100		F903_31.0 P225 BX225SBK4 529
51	7790	1.0	28.8	26000		F803_28.8 P225 BX225SBK4 526
52	7726	1.6	28.6	42600		F903_28.6 P225 BX225SBK4 529
58	6855	1.8	25.4	42000		F903_25.4 P225 BX225SBK4 529
66	6017	2.0	22.3	41400		F903_22.3 P225 BX225SBK4 529
67	5948	1.1	22.0	26000		F803_22.0 P225 BX225SBK4 526
72	5554	2.0	20.6	40800		F903_20.6 P225 BX225SBK4 529
73	5491	1.1	20.3	25700		F803_20.3 P225 BX225SBK4 526
83	4834	2.3	17.9	39900		F903_17.9 P225 BX225SBK4 529
84	4753	1.4	17.6	25500		F803_17.6 P225 BX225SBK4 526
90	4463	2.3	16.5	39300		F903_16.5 P225 BX225SBK4 529
91	4387	1.4	16.2	25200		F803_16.2 P225 BX225SBK4 526
102	3924	2.5	14.5	38400		F903_14.5 P225 BX225SBK4 529
106	3775	1.8	14.0	24800		F803_14.0 P225 BX225SBK4 526
110	3622	2.6	13.4	37800		F903_13.4 P225 BX225SBK4 529
115	3484	1.8	12.9	24100		F803_12.9 P225 BX225SBK4 526
132	3025	1.5	11.2	24000		F803_11.2 P225 BX225SBK4 526
133	3003	2.9	11.1	36400		F903_11.1 P225 BX225SBK4 529
143	2792	2.0	10.3	23500		F803_10.3 P225 BX225SBK4 526

55 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N		IEC IE3
32	15202	0.9	46.1	39700		F903_46.1 P250 BX250MAK4 529
37	13367	1.0	40.5	40300		F903_40.5 P250 BX250MAK4 529
40	12339	1.1	37.4	40200		F903_37.4 P250 BX250MAK4 529
48	10230	1.3	31.0	40300		F903_31.0 P250 BX250MAK4 529
52	9443	1.3	28.6	40100		F903_28.6 P250 BX250MAK4 529
58	8379	1.4	25.4	39700		F903_25.4 P250 BX250MAK4 529
66	7354	1.6	22.3	39400		F903_22.3 P250 BX250MAK4 529
72	6788	1.7	20.6	38900		F903_20.6 P250 BX250MAK4 529
83	5909	1.9	17.9	38300		F903_17.9 P250 BX250MAK4 529
90	5454	1.9	16.5	37800		F903_16.5 P250 BX250MAK4 529
102	4796	2.1	14.5	37100		F903_14.5 P250 BX250MAK4 529
110	4427	2.1	13.4	36600		F903_13.4 P250 BX250MAK4 529
133	3671	2.4	11.1	35400		F903_11.1 P250 BX250MAK4 529
144	3388	2.4	10.3	34800		F903_10.3 P250 BX250MAK4 529

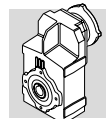


61 DONNEES TECHNIQUES REDUCTEURS

F 10

140 Nm

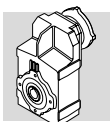
	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 10 2_7.4	7.4	378	63	2.6	1000	1290	189	76	1.6	1290	1640	465
F 10 2_8.6	8.6	326	67	2.4	980	1350	163	82	1.5	1260	1710	
F 10 2_9.8	9.8	287	73	2.3	980	1410	143	89	1.4	1250	1780	
F 10 2_11.5	11.5	243	78	2.1	950	1480	121	96	1.3	1220	1870	
F 10 2_13.0	13.0	215	85	2.0	940	1530	107	104	1.2	1210	1940	
F 10 2_14.6	14.6	191	94	2.0	1120	1590	96	119	1.3	1300	2000	
F 10 2_17.0	17.0	165	104	1.9	1090	1650	82	128	1.2	1300	2090	
F 10 2_19.3	19.3	145	108	1.7	1100	1730	72	136	1.1	1300	2180	
F 10 2_22.8	22.8	123	119	1.6	1080	1810	61	140	0.95	1300	2310	
F 10 2_25.8	25.8	109	123	1.5	1090	1890	54	140	0.84	1300	2430	
F 10 2_29.6	29.6	94	132	1.4	1060	1970	47	140	0.73	1300	2560	
F 10 2_33.0	33.0	85	137	1.3	1070	2040	42	140	0.65	1300	2670	
F 10 2_35.3	35.3	79	140	1.2	1060	2090	40	140	0.61	1300	2740	
F 10 2_39.6	39.6	71	140	1.1	1080	2190	35	140	0.54	1300	2800	
F 10 2_44.7	44.7	63	140	0.97	1080	2290	31	140	0.48	1300	2800	
F 10 2_48.7	48.7	57	140	0.89	1090	2370	28.7	140	0.44	1300	2800	
F 10 2_56.7	56.7	49	140	0.76	1100	2520	24.7	140	0.38	1300	2800	
F 10 2_63.0	63.0	44	140	0.69	1110	2620	22.2	140	0.34	1300	2800	
F 10 2_71.1	71.1	39	140	0.61	1000	2750	19.7	140	0.30	1300	2800	
F 10 2_81.3	81.3	34	140	0.53	1110	2800	17.2	140	0.27	1300	2800	
F 10 2_91.5	91.5	31	140	0.47	1110	2800	15.3	140	0.24	1300	2800	
F 10 2_106.0	106.0	26.4	140	0.41	1120	2800	13.2	140	0.20	1300	2800	
F 10 2_127.1	127.1	22.0	140	0.34	1130	2800	11.0	140	0.17	1300	2800	



F 10

140 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 10 2_7.4	7.4	122	91	1.2	1300	1890	68	111	0.83	1300	2300	465
F 10 2_8.6	8.6	105	94	1.1	1300	1970	58	112	0.72	1300	2430	
F 10 2_9.8	9.8	92	107	1.1	1300	2050	51	130	0.73	1300	2490	
F 10 2_11.5	11.5	78	110	0.95	1300	2180	43	131	0.63	1300	2660	
F 10 2_13.0	13.0	69	124	0.94	1300	2240	38	140	0.59	1300	2800	
F 10 2_14.6	14.6	61	138	0.93	1300	2320	34	140	0.53	1300	2800	
F 10 2_17.0	17.0	53	140	0.82	1300	2450	29.5	140	0.46	1300	2800	
F 10 2_19.3	19.3	47	140	0.72	1300	2580	25.9	140	0.40	1300	2800	
F 10 2_22.8	22.8	39	140	0.61	1300	2750	21.9	140	0.34	1300	2800	
F 10 2_25.8	25.8	35	140	0.54	1300	2800	19.4	140	0.30	1300	2800	
F 10 2_29.6	29.6	30	140	0.47	1300	2800	16.9	140	0.26	1300	2800	
F 10 2_33.0	33.0	27.3	140	0.42	1300	2800	15.2	140	0.23	1300	2800	
F 10 2_35.3	35.3	25.5	140	0.39	1300	2800	14.1	140	0.22	1300	2800	
F 10 2_39.6	39.6	22.7	140	0.35	1300	2800	12.6	140	0.19	1300	2800	
F 10 2_44.7	44.7	20.1	140	0.31	1300	2800	11.2	140	0.17	1300	2800	
F 10 2_48.7	48.7	18.5	140	0.29	1300	2800	10.3	140	0.16	1300	2800	
F 10 2_56.7	56.7	15.9	140	0.24	1300	2800	8.8	140	0.14	1300	2800	
F 10 2_63.0	63.0	14.3	140	0.22	1300	2800	7.9	140	0.12	1300	2800	
F 10 2_71.1	71.1	12.7	140	0.20	1300	2800	7.0	140	0.11	1300	2800	
F 10 2_81.3	81.3	11.1	140	0.17	1300	2800	6.1	140	0.09	1300	2800	
F 10 2_91.5	91.5	9.8	140	0.15	1300	2800	5.5	140	0.08	1300	2800	
F 10 2_106.0	106.0	8.5	140	0.13	1300	2800	4.7	140	0.07	1300	2800	
F 10 2_127.1	127.1	7.1	140	0.11	1300	2800	3.9	140	0.06	1300	2800	

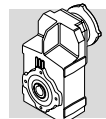


F 20

250 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 20 2_6.4	6.4	437	103	5.0	—	1370	218	130	3.1	—	1720	469
F 20 2_7.8	7.8	357	115	4.5	—	1440	179	144	2.8	—	1820	
F 20 2_8.7	8.7	321	123	4.3	—	1490	160	155	2.7	—	1870	
F 20 2_10.0	10.0	279	131	4.0	—	1550	140	165	2.5	—	1950	
F 20 2_11.2	11.2	249	141	3.9	—	1590	125	177	2.4	—	2010	
F 20 2_14.8	14.8	189	166	3.5	760	1740	95	203	2.1	1010	2210	
F 20 2_18.1	18.1	155	175	3.0	750	1870	77	213	1.8	1020	2380	
F 20 2_20.2	20.2	139	182	2.8	810	1940	69	223	1.7	1070	2460	
F 20 2_23.1	23.1	121	190	2.5	770	2030	60	235	1.6	1000	2570	
F 20 2_25.9	25.9	108	196	2.3	830	2110	54	240	1.4	1100	2680	
F 20 2_30.4	30.4	92	205	2.1	780	2230	46	250	1.3	1050	2840	
F 20 2_33.1	33.1	85	210	2.0	800	2300	42	250	1.2	1120	2940	
F 20 2_37.9	37.9	74	220	1.8	740	2400	37	250	1.0	1130	3110	
F 20 2_41.8	41.8	67	225	1.7	780	2490	33	250	0.92	1220	3240	
F 20 2_44.8	44.8	62	235	1.6	690	2540	31	250	0.86	1200	3330	
F 20 2_50.7	50.7	55	238	1.4	780	2660	27.6	250	0.76	1320	3500	
F 20 2_56.7	56.7	49	250	1.4	730	2750	24.7	250	0.68	1360	3660	
F 20 2_61.9	61.9	45	250	1.2	750	2860	22.6	250	0.62	1370	3790	
F 20 2_69.1	69.1	40	250	1.1	760	2990	20.2	250	0.56	1370	3950	
F 20 2_76.8	76.8	36	250	1.0	780	3130	18.2	250	0.50	1380	4000	
F 20 2_90.4	90.4	31	250	0.85	830	3340	15.5	250	0.43	1390	4000	
F 20 2_101.6	101.6	27.5	250	0.76	830	3500	13.8	250	0.38	1390	4000	
F 20 2_114.3	114.3	24.5	250	0.67	850	3670	12.2	250	0.34	1400	4000	
F 20 2_132.2	132.2	21.2	250	0.58	870	3890	10.6	250	0.29	1400	4000	
F 20 3_156.3	156.3	17.9	250	0.50	1170	4000	9.0	250	0.25	1300	4000	
F 20 3_172.6	172.6	16.2	250	0.46	1200	4000	8.1	250	0.23	1300	4000	
F 20 3_184.9	184.9	15.1	250	0.43	1210	4000	7.6	250	0.21	1300	4000	
F 20 3_209.3	209.3	13.4	250	0.38	1240	4000	6.7	250	0.19	1300	4000	
F 20 3_234.0	234.0	12.0	250	0.34	1270	4000	6.0	250	0.17	1300	4000	
F 20 3_255.3	255.3	11.0	250	0.31	1280	4000	5.5	250	0.15	1300	4000	
F 20 3_285.2	285.2	9.8	250	0.28	1300	4000	4.9	250	0.14	1300	4000	
F 20 3_316.9	316.9	8.8	250	0.25	1300	4000	4.4	250	0.12	1300	4000	
F 20 3_372.9	372.9	7.5	250	0.21	1300	4000	3.8	250	0.11	1300	4000	
F 20 3_419.3	419.3	6.7	250	0.19	1300	4000	3.3	250	0.09	1300	4000	
F 20 3_471.7	471.7	5.9	250	0.17	1300	4000	3.0	250	0.08	1300	4000	
F 20 3_545.3	545.3	5.1	250	0.14	1300	4000	2.6	250	0.07	1300	4000	

(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)

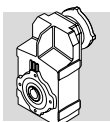


F 20

250 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 20 2_6.4	6.4	140	150	2.3	—	1990	218	183	4.4	—	2420	469
F 20 2_7.8	7.8	115	167	2.1	—	2110	64	189	1.3	—	2610	
F 20 2_8.7	8.7	103	180	2.0	—	2170	57	219	1.4	—	2640	
F 20 2_10.0	10.0	90	191	1.9	—	2260	50	221	1.2	—	2790	
F 20 2_11.2	11.2	80	205	1.8	—	2330	45	250	1.2	—	2830	
F 20 2_14.8	14.8	61	232	1.6	1210	2570	34	250	0.93	1790	3230	
F 20 2_18.1	18.1	50	250	1.4	1150	2740	27.7	250	0.76	1910	3500	
F 20 2_20.2	20.2	45	250	1.2	1320	2870	24.8	250	0.68	1960	3650	
F 20 2_23.1	23.1	39	250	1.1	1350	3040	21.6	250	0.60	1970	3860	
F 20 2_25.9	25.9	35	250	0.96	1500	3190	19.3	250	0.53	2010	4000	
F 20 2_30.4	30.4	29.6	250	0.82	1530	3400	16.5	250	0.45	2020	4000	
F 20 2_33.1	33.1	27.2	250	0.75	1580	3520	15.1	250	0.42	2040	4000	
F 20 2_37.9	37.9	23.8	250	0.65	1590	3720	13.2	250	0.36	2040	4000	
F 20 2_41.8	41.8	21.5	250	0.59	1610	3870	12.0	250	0.33	2070	4000	
F 20 2_44.8	44.8	20.1	250	0.55	1610	3970	11.2	250	0.31	2060	4000	
F 20 2_50.7	50.7	17.7	250	0.49	1640	4000	9.9	250	0.27	2090	4000	
F 20 2_56.7	56.7	15.9	250	0.44	1650	4000	8.8	250	0.24	2110	4000	
F 20 2_61.9	61.9	14.5	250	0.40	1660	4000	8.1	250	0.22	2110	4000	
F 20 2_69.1	69.1	13.0	250	0.36	1660	4000	7.2	250	0.20	2110	4000	
F 20 2_76.8	76.8	11.7	250	0.32	1670	4000	6.5	250	0.18	2120	4000	
F 20 2_90.4	90.4	10.0	250	0.27	1680	4000	5.5	250	0.15	2130	4000	
F 20 2_101.6	101.6	8.9	250	0.24	1680	4000	4.9	250	0.14	2130	4000	
F 20 2_114.3	114.3	7.9	250	0.22	1690	4000	4.4	250	0.12	2140	4000	
F 20 2_132.2	132.2	6.8	250	0.19	1690	4000	3.8	250	0.10	2150	4000	
F 20 3_156.3	156.3	5.8	250	0.16	1300	4000	3.2	250	0.09	1300	4000	
F 20 3_172.6	172.6	5.2	250	0.15	1300	4000	2.9	250	0.08	1300	4000	
F 20 3_184.9	184.9	4.9	250	0.14	1300	4000	2.7	250	0.08	1300	4000	
F 20 3_209.3	209.3	4.3	250	0.12	1300	4000	2.4	250	0.07	1300	4000	
F 20 3_234.0	234.0	3.8	250	0.11	1300	4000	2.1	250	0.06	1300	4000	
F 20 3_255.3	255.3	3.5	250	0.10	1300	4000	2.0	250	0.06	1300	4000	
F 20 3_285.2	285.2	3.2	250	0.09	1300	4000	1.8	250	0.05	1300	4000	
F 20 3_316.9	316.9	2.8	250	0.08	1300	4000	1.6	250	0.04	1300	4000	
F 20 3_372.9	372.9	2.4	250	0.07	1300	4000	1.3	250	0.04	1300	4000	
F 20 3_419.3	419.3	2.1	250	0.06	1300	4000	1.2	250	0.03	1300	4000	
F 20 3_471.7	471.7	1.9	250	0.05	1300	4000	1.1	250	0.03	1300	4000	
F 20 3_545.3	545.3	1.7	250	0.05	1300	4000	0.92	250	0.03	1300	4000	

(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)

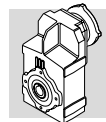


F 25

400 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 25 2_6.9	6.9	408	155	7.0	—	1840	204	195	4.4	—	2320	473
F 25 2_8.4	8.4	334	170	6.3	—	1950	167	215	4.0	—	2450	
F 25 2_9.4	9.4	299	180	5.9	—	2010	150	225	3.7	—	2540	
F 25 2_10.6	10.6	264	240	7.0	—	1850	132	305	4.4	—	2320	
F 25 2_13.0	13.0	216	255	6.1	—	1990	108	320	3.8	—	2510	
F 25 2_14.5	14.5	194	260	5.5	—	2080	97	330	3.5	—	2610	
F 25 2_16.6	16.6	168	270	5.0	—	2190	84	340	3.2	—	2760	
F 25 2_18.6	18.6	150	280	4.6	—	2270	75	350	2.9	—	2870	
F 25 2_21.8	21.8	128	280	4.0	—	2460	64	355	2.5	250	3090	
F 25 2_23.8	23.8	118	285	3.7	250	2540	59	360	2.3	300	3200	
F 25 2_27.2	27.2	103	290	3.3	250	2690	51	365	2.1	320	3400	
F 25 2_30.0	30.0	93	295	3.0	310	2800	47	370	1.9	410	3540	
F 25 2_32.2	32.2	87	295	2.8	310	2900	44	370	1.8	410	3660	
F 25 2_36.4	36.4	77	295	2.5	460	3070	38	370	1.6	600	3880	
F 25 2_40.7	40.7	69	295	2.2	560	3230	34	370	1.4	720	4080	
F 25 2_44.4	44.4	63	295	2.0	720	3360	32	370	1.3	720	4250	
F 25 3_45.6	45.6	61	340	2.4	1440	3100	31	400	1.4	1830	4030	
F 25 3_50.8	50.8	55	350	2.2	1450	3230	27.6	400	1.2	1850	4250	
F 25 3_58.3	58.3	48	365	2.0	1450	3390	24.0	400	1.1	1860	4530	
F 25 3_65.3	65.3	43	375	1.8	1450	3530	21.4	400	0.97	1870	4780	
F 25 3_76.6	76.6	37	395	1.6	1450	3730	18.3	400	0.82	1880	5140	
F 25 3_83.4	83.4	34	400	1.5	1450	3860	16.8	400	0.76	1880	5330	
F 25 3_95.5	95.5	29.3	400	1.3	1460	4130	14.7	400	0.66	1890	5660	
F 25 3_105.4	105.4	26.6	400	1.2	1470	4320	13.3	400	0.60	1890	5910	
F 25 3_113.0	113.0	24.8	400	1.1	1470	4470	12.4	400	0.56	1890	6090	
F 25 3_127.8	127.8	21.9	400	0.99	1480	4730	11.0	400	0.49	1900	6430	
F 25 3_143.0	143.0	19.6	400	0.88	1480	4980	9.8	400	0.44	1910	6500	
F 25 3_155.9	155.9	18.0	400	0.81	1480	5180	9.0	400	0.40	1910	6500	
F 25 3_174.2	174.2	16.1	400	0.72	1490	5440	8.0	400	0.36	1910	6500	
F 25 3_193.6	193.6	14.5	400	0.65	1490	5700	7.2	400	0.33	1910	6500	
F 25 3_227.8	227.8	12.3	400	0.55	1490	6120	6.1	400	0.28	1920	6500	
F 25 3_256.1	256.1	10.9	400	0.49	1490	6430	5.5	400	0.25	1920	6500	
F 25 3_288.1	288.1	9.7	400	0.44	1490	6500	4.9	400	0.22	1920	6500	
F 25 3_333.1	333.1	8.4	400	0.38	1500	6500	4.2	400	0.19	1930	6500	
F 25 4_393.9	393.9	7.1	400	0.33	1270	6500	3.6	400	0.17	1300	6500	
F 25 4_434.9	434.9	6.4	400	0.30	1290	6500	3.2	400	0.15	1300	6500	
F 25 4_466.0	466.0	6.0	400	0.28	1300	6500	3.0	400	0.14	1300	6500	
F 25 4_527.3	527.3	5.3	400	0.25	1300	6500	2.7	400	0.12	1300	6500	
F 25 4_589.7	589.7	4.7	400	0.22	1300	6500	2.4	400	0.11	1300	6500	
F 25 4_643.3	643.3	4.4	400	0.20	1300	6500	2.2	400	0.10	1300	6500	
F 25 4_718.7	718.7	3.9	400	0.18	1300	6500	1.9	400	0.09	1300	6500	
F 25 4_798.5	798.5	3.5	400	0.16	1300	6500	1.8	400	0.08	1300	6500	
F 25 4_939.8	939.8	3.0	400	0.14	1300	6500	1.5	400	0.07	1300	6500	
F 25 4_1057	1057	2.7	400	0.12	1300	6500	1.3	400	0.06	1300	6500	
F 25 4_1189	1189	2.4	400	0.11	1300	6500	1.2	400	0.05	1300	6500	
F 25 4_1374	1374	2.0	400	0.09	1300	6500	1.0	400	0.05	1300	6500	

(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)

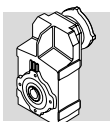


F 25

400 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 25 2_6.9	6.9	131	225	3.2	—	2690	73	255	2.0	370	3350	473
F 25 2_8.4	8.4	107	250	3.0	—	2840	60	260	1.7	590	3630	
F 25 2_9.4	9.4	96	260	2.8	—	2940	53	265	1.6	820	3780	
F 25 2_10.6	10.6	85	355	3.3	—	2680	47	395	2.0	360	3420	
F 25 2_13.0	13.0	69	370	2.8	—	2910	39	400	1.7	620	3750	
F 25 2_14.5	14.5	62	380	2.6	—	3030	35	400	1.5	940	3950	
F 25 2_16.6	16.6	54	395	2.4	—	3190	30	400	1.3	1070	4210	
F 25 2_18.6	18.6	48	400	2.1	300	3350	26.9	400	1.2	1330	4440	
F 25 2_21.8	21.8	41	400	1.8	420	3630	22.9	400	1.0	1450	4770	
F 25 2_23.8	23.8	38	400	1.7	530	3780	21.0	400	0.93	1560	4950	
F 25 2_27.2	27.2	33	400	1.5	610	4030	18.4	400	0.81	1640	5260	
F 25 2_30.0	30.0	30	400	1.3	760	4220	16.6	400	0.73	1790	5490	
F 25 2_32.2	32.2	28.0	400	1.2	760	4360	15.5	400	0.69	1790	5660	
F 25 2_36.4	36.4	24.7	400	1.1	970	4610	13.7	400	0.61	2000	5970	
F 25 2_40.7	40.7	22.1	375	0.91	1330	4950	12.3	375	0.51	2000	6360	
F 25 2_44.4	44.4	20.3	385	0.86	1230	5100	11.3	385	0.48	2000	6500	
F 25 3_45.6	45.6	19.8	400	0.89	2160	4960	11.0	400	0.49	2200	6420	
F 25 3_50.8	50.8	17.7	400	0.80	2180	5210	9.8	400	0.44	2200	6500	
F 25 3_58.3	58.3	15.4	400	0.69	2190	5540	8.6	400	0.39	2200	6500	
F 25 3_65.3	65.3	13.8	400	0.62	2200	5820	7.7	400	0.34	2200	6500	
F 25 3_76.6	76.6	11.8	400	0.53	2200	6240	6.5	400	0.29	2200	6500	
F 25 3_83.4	83.4	10.8	400	0.49	2200	6470	6.0	400	0.27	2200	6500	
F 25 3_95.5	95.5	9.4	400	0.42	2200	6500	5.2	400	0.24	2200	6500	
F 25 3_105.4	105.4	8.5	400	0.38	2200	6500	4.7	400	0.21	2200	6500	
F 25 3_113.0	113.0	8.0	400	0.36	2200	6500	4.4	400	0.20	2200	6500	
F 25 3_127.8	127.8	7.0	400	0.32	2200	6500	3.9	400	0.18	2200	6500	
F 25 3_143.0	143.0	6.3	400	0.28	2200	6500	3.5	400	0.16	2200	6500	
F 25 3_155.9	155.9	5.8	400	0.26	2200	6500	3.2	400	0.14	2200	6500	
F 25 3_174.2	174.2	5.2	400	0.23	2200	6500	2.9	400	0.13	2200	6500	
F 25 3_193.6	193.6	4.6	400	0.21	2200	6500	2.6	400	0.12	2200	6500	
F 25 3_227.8	227.8	4.0	400	0.18	2200	6500	2.2	400	0.10	2200	6500	
F 25 3_256.1	256.1	3.5	400	0.16	2200	6500	2.0	400	0.09	2200	6500	
F 25 3_288.1	288.1	3.1	400	0.14	2200	6500	1.7	400	0.08	2200	6500	
F 25 3_333.1	333.1	2.7	400	0.12	2200	6500	1.5	400	0.07	2200	6500	
F 25 4_393.9	393.9	2.3	400	0.11	1300	6500	1.3	400	0.06	1300	6500	
F 25 4_434.9	434.9	2.1	400	0.10	1300	6500	1.1	400	0.05	1300	6500	
F 25 4_466.0	466.0	1.9	400	0.09	1300	6500	1.1	400	0.05	1300	6500	
F 25 4_527.3	527.3	1.7	400	0.08	1300	6500	0.95	400	0.04	1300	6500	
F 25 4_589.7	589.7	1.5	400	0.07	1300	6500	0.85	400	0.04	1300	6500	
F 25 4_643.3	643.3	1.4	400	0.07	1300	6500	0.78	400	0.04	1300	6500	
F 25 4_718.7	718.7	1.3	400	0.06	1300	6500	0.70	400	0.03	1300	6500	
F 25 4_798.5	798.5	1.1	400	0.05	1300	6500	0.63	400	0.03	1300	6500	
F 25 4_939.8	939.8	0.96	400	0.04	1300	6500	0.53	400	0.02	1300	6500	
F 25 4_1057	1057	0.85	400	0.04	1300	6500	0.47	400	0.02	1300	6500	
F 25 4_1189	1189	0.76	400	0.04	1300	6500	0.42	400	0.02	1300	6500	
F 25 4_1374	1374	0.65	400	0.03	1300	6500	0.36	400	0.02	1300	6500	

(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)

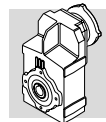


F 31

600 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 31 2_6.9	6.9	403	295	13.1	—	2710	201	360	8.0	—	3460	477
F 31 2_8.2	8.2	340	310	11.6	—	2880	170	375	7.0	—	3690	
F 31 2_9.0	9.0	311	310	10.6	—	3000	155	385	6.6	390	3810	
F 31 2_10.7	10.7	261	450	12.9	—	2790	130	525	7.5	500	3670	
F 31 2_12.7	12.7	220	475	11.5	—	2950	110	555	6.7	490	3880	
F 31 2_13.9	13.9	201	475	10.5	290	3100	100	570	6.3	650	4010	
F 31 2_16.8	16.8	167	475	8.7	510	3410	83	595	5.5	680	4310	
F 31 2_18.5	18.5	151	475	7.9	730	3580	76	600	5.0	910	4510	
F 31 2_21.1	21.1	133	475	6.9	830	3830	66	600	4.4	1030	4820	
F 31 2_23.4	23.4	120	475	6.3	1020	4020	60	600	4.0	1270	5060	
F 31 2_27.3	27.3	103	475	5.4	1100	4330	51	600	3.4	1380	5450	
F 31 2_30.1	30.1	93	475	4.9	1270	4540	46	600	3.1	1590	5710	
F 31 2_34.4	34.4	81	475	4.3	1330	4820	41	600	2.7	1660	6070	
F 31 2_37.7	37.7	74	475	3.9	1430	5030	37	600	2.5	1800	6330	
F 31 2_40.4	40.4	69	475	3.6	1440	5190	35	600	2.3	1800	6500	
F 31 2_44.6	44.6	63	475	3.3	1540	5430	31	600	2.1	1930	6500	
F 31 3_47.5	47.5	59	475	3.1	2110	5490	29.4	580	1.9	2200	6500	
F 31 3_52.1	52.1	54	485	2.9	2120	5680	26.9	600	1.8	2200	6500	
F 31 3_62.8	62.8	45	515	2.6	2120	6040	22.3	600	1.5	2200	6500	
F 31 3_69.1	69.1	41	530	2.4	2130	6250	20.3	600	1.4	2200	6500	
F 31 3_78.9	78.9	36	550	2.2	2120	6500	17.8	600	1.2	2200	6500	
F 31 3_87.4	87.4	32	570	2.1	2130	6500	16.0	600	1.1	2200	6500	
F 31 3_101.9	101.9	27.5	595	1.8	2130	6500	13.7	600	0.93	2200	6500	
F 31 3_112.5	112.5	24.9	600	1.7	2130	6500	12.4	600	0.84	2200	6500	
F 31 3_128.4	128.4	21.8	600	1.5	2140	6500	10.9	600	0.74	2200	6500	
F 31 3_140.7	140.7	19.9	600	1.3	2140	6500	9.9	600	0.67	2200	6500	
F 31 3_150.8	150.8	18.6	600	1.3	2140	6500	9.3	600	0.63	2200	6500	
F 31 3_166.8	166.8	16.8	600	1.1	2150	6500	8.4	600	0.57	2200	6500	
F 31 3_185.4	185.4	15.1	600	1.0	2160	6500	7.5	600	0.51	2200	6500	
F 31 3_202.3	202.3	13.8	600	0.94	2160	6500	6.9	600	0.47	2200	6500	
F 31 3_228.2	228.2	12.3	600	0.83	2160	6500	6.1	600	0.41	2200	6500	
F 31 3_253.6	253.6	11.0	600	0.75	2160	6500	5.5	600	0.37	2200	6500	
F 31 3_293.8	293.8	9.5	600	0.64	2170	6500	4.8	600	0.32	2200	6500	
F 31 3_332.8	332.8	8.4	600	0.57	2170	6500	4.2	600	0.28	2200	6500	
F 31 3_374.4	374.4	7.5	600	0.51	2170	6500	3.7	600	0.25	2200	6500	
F 31 4_418.9	418.9	6.7	600	0.47	1230	6500	3.3	600	0.23	1300	6500	
F 31 4_462.6	462.6	6.1	600	0.42	1250	6500	3.0	600	0.21	1300	6500	
F 31 4_527.8	527.8	5.3	600	0.37	1270	6500	2.7	600	0.19	1300	6500	
F 31 4_578.6	578.6	4.8	600	0.34	1290	6500	2.4	600	0.17	1300	6500	
F 31 4_619.9	619.9	4.5	600	0.32	1300	6500	2.3	600	0.16	1300	6500	
F 31 4_685.6	685.6	4.1	600	0.29	1300	6500	2.0	600	0.14	1300	6500	
F 31 4_762.3	762.3	3.7	600	0.26	1300	6500	1.8	600	0.13	1300	6500	
F 31 4_831.6	831.6	3.4	600	0.24	1300	6500	1.7	600	0.12	1300	6500	
F 31 4_938.2	938.2	3.0	600	0.21	1300	6500	1.5	600	0.10	1300	6500	
F 31 4_1042	1042	2.7	600	0.19	1300	6500	1.3	600	0.09	1300	6500	
F 31 4_1208	1208	2.3	600	0.16	1300	6500	1.2	600	0.08	1300	6500	
F 31 4_1368	1368	2.0	600	0.14	1300	6500	1.0	600	0.07	1300	6500	
F 31 4_1539	1539	1.8	600	0.13	1300	6500	0.91	600	0.06	1300	6500	

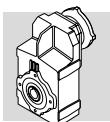
(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



F 31

600 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 31 2_6.9	6.9	130	390	5.6	640	4120	72	390	3.1	2200	5350	477
F 31 2_8.2	8.2	109	390	4.7	990	4450	61	390	2.6	2200	5760	
F 31 2_9.0	9.0	100	390	4.3	1320	4640	55	390	2.4	2200	5980	
F 31 2_10.7	10.7	84	600	5.5	670	4280	47	600	3.1	2200	5710	
F 31 2_12.7	12.7	71	600	4.7	1020	4670	39	600	2.6	2200	6170	
F 31 2_13.9	13.9	65	600	4.3	1350	4880	36	600	2.4	2200	6440	
F 31 2_16.8	16.8	54	600	3.5	1640	5340	29.8	600	2.0	2200	6500	
F 31 2_18.5	18.5	49	600	3.2	1915	5580	27.0	600	1.8	2200	6500	
F 31 2_21.1	21.1	43	600	2.8	2040	5950	23.7	600	1.6	2200	6500	
F 31 2_23.4	23.4	38	600	2.5	2200	6230	21.4	600	1.4	2200	6500	
F 31 2_27.3	27.3	33	600	2.2	2200	6500	18.3	600	1.2	2200	6500	
F 31 2_30.1	30.1	29.9	600	2.0	2200	6500	16.6	600	1.1	2200	6500	
F 31 2_34.4	34.4	26.2	600	1.7	2200	6500	14.6	600	0.96	2200	6500	
F 31 2_37.7	37.7	23.9	600	1.6	2200	6500	13.3	600	0.88	2200	6500	
F 31 2_40.4	40.4	22.3	600	1.5	2200	6500	12.4	600	0.82	2200	6500	
F 31 2_44.6	44.6	20.2	600	1.3	2200	6500	11.2	600	0.74	2200	6500	
F 31 3_47.5	47.5	18.9	600	1.3	2200	6500	10.5	600	0.71	2200	6500	
F 31 3_52.1	52.1	17.3	600	1.2	2200	6500	9.6	600	0.65	2200	6500	
F 31 3_62.8	62.8	14.3	600	0.97	2200	6500	8.0	600	0.54	2200	6500	
F 31 3_69.1	69.1	13.0	600	0.88	2200	6500	7.2	600	0.49	2200	6500	
F 31 3_78.9	78.9	11.4	600	0.77	2200	6500	6.3	600	0.43	2200	6500	
F 31 3_87.4	87.4	10.3	600	0.70	2200	6500	5.7	600	0.39	2200	6500	
F 31 3_101.9	101.9	8.8	600	0.60	2200	6500	4.9	600	0.33	2200	6500	
F 31 3_112.5	112.5	8.0	600	0.54	2200	6500	4.4	600	0.30	2200	6500	
F 31 3_128.4	128.4	7.0	600	0.47	2200	6500	3.9	600	0.26	2200	6500	
F 31 3_140.7	140.7	6.4	600	0.43	2200	6500	3.6	600	0.24	2200	6500	
F 31 3_150.8	150.8	6.0	600	0.40	2200	6500	3.3	600	0.22	2200	6500	
F 31 3_166.8	166.8	5.4	600	0.36	2200	6500	3.0	600	0.20	2200	6500	
F 31 3_185.4	185.4	4.9	600	0.33	2200	6500	2.7	600	0.18	2200	6500	
F 31 3_202.3	202.3	4.4	600	0.30	2200	6500	2.5	600	0.17	2200	6500	
F 31 3_228.2	228.2	3.9	600	0.27	2200	6500	2.2	600	0.15	2200	6500	
F 31 3_253.6	253.6	3.5	600	0.24	2200	6500	2.0	600	0.13	2200	6500	
F 31 3_293.8	293.8	3.1	600	0.21	2200	6500	1.7	600	0.11	2200	6500	
F 31 3_332.8	332.8	2.7	600	0.18	2200	6500	1.5	600	0.10	2200	6500	
F 31 3_374.4	374.4	2.4	600	0.16	2200	6500	1.3	600	0.09	2200	6500	
F 31 4_418.9	418.9	2.1	600	0.15	1300	6500	1.2	600	0.08	1300	6500	
F 31 4_462.6	462.6	1.9	600	0.14	1300	6500	1.1	600	0.08	1300	6500	
F 31 4_527.8	527.8	1.7	600	0.12	1300	6500	0.95	600	0.07	1300	6500	
F 31 4_578.6	578.6	1.6	600	0.11	1300	6500	0.86	600	0.06	1300	6500	
F 31 4_619.9	619.9	1.5	600	0.10	1300	6500	0.81	600	0.06	1300	6500	
F 31 4_685.6	685.6	1.3	600	0.09	1300	6500	0.73	600	0.05	1300	6500	
F 31 4_762.3	762.3	1.2	600	0.08	1300	6500	0.66	600	0.05	1300	6500	
F 31 4_831.6	831.6	1.1	600	0.08	1300	6500	0.60	600	0.04	1300	6500	
F 31 4_938.2	938.2	0.96	600	0.07	1300	6500	0.53	600	0.04	1300	6500	
F 31 4_1042	1042	0.86	600	0.06	1300	6500	0.48	600	0.03	1300	6500	
F 31 4_1208	1208	0.75	600	0.05	1300	6500	0.41	600	0.03	1300	6500	
F 31 4_1368	1368	0.66	600	0.05	1300	6500	0.37	600	0.03	1300	6500	
F 31 4_1539	1539	0.58	600	0.04	1300	6500	0.32	600	0.02	1300	6500	

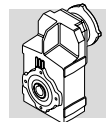


F 41

1100 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 41 2_6.7	6.7	416	460	21	—	3410	208	580	13.3	—	4290	481
F 41 2_9.1	9.1	306	515	17.4	—	3750	153	650	11.0	—	4730	
F 41 2_10.8	10.8	260	715	21	—	3310	130	900	12.9	—	4170	
F 41 2_14.6	14.6	191	805	17.0	—	3620	96	1015	10.7	—	4560	
F 41 2_17.1	17.1	164	835	15.1	—	3860	82	1055	9.5	—	4850	
F 41 2_18.9	18.9	148	860	14.0	410	4000	74	1085	8.9	500	5030	
F 41 2_24.1	24.1	116	875	11.2	650	4540	58	1100	7.0	840	5730	
F 41 2_30.1	30.1	93	875	9.0	980	5130	46	1100	5.6	1260	6470	
F 41 2_38.2	38.2	73	875	7.1	1260	5810	37	1100	4.4	1600	7330	
F 41 2_47.9	47.9	58	850	5.5	1680	6600	29.2	1070	3.4	2120	8320	
F 41 3_51.5	51.5	54	880	5.4	3030	6750	27.2	1085	3.3	3500	8500	
F 41 3_60.2	60.2	46	930	4.9	3030	7100	23.2	1100	2.9	3500	8500	
F 41 3_66.5	66.5	42	980	4.6	3030	7280	21.1	1100	2.6	3500	8500	
F 41 3_84.9	84.9	33	1065	4.0	3030	7890	16.5	1100	2.0	3500	8500	
F 41 3_106.0	106.0	26.4	1100	3.3	3040	8500	13.2	1100	1.6	3500	8500	
F 41 3_134.4	134.4	20.8	1100	2.6	3050	8500	10.4	1100	1.3	3500	8500	
F 41 3_168.7	168.7	16.6	1100	2.1	3070	8500	8.3	1100	1.0	3500	8500	
F 41 3_180.7	180.7	15.5	1100	1.9	3070	8500	7.7	1100	0.96	3500	8500	
F 41 3_198.9	198.9	14.1	1100	1.7	3080	8500	7.0	1100	0.87	3500	8500	
F 41 3_220.1	220.1	12.7	1100	1.6	3090	8500	6.4	1100	0.79	3500	8500	
F 41 3_240.1	240.1	11.7	1100	1.4	3090	8500	5.8	1100	0.72	3500	8500	
F 41 3_266.9	266.9	10.5	1100	1.3	3090	8500	5.2	1100	0.65	3500	8500	
F 41 3_296.6	296.6	9.4	1100	1.2	3090	8500	4.7	1100	0.58	3500	8500	
F 41 3_344.8	344.8	8.1	1100	1.0	3100	8500	4.1	1100	0.50	3500	8500	
F 41 4_433.7	433.7	6.5	1100	0.83	1480	8500	3.2	1100	0.41	1910	8500	
F 41 4_549.8	549.8	5.1	1100	0.65	1520	8500	2.5	1100	0.33	1940	8500	
F 41 4_690.1	690.1	4.1	1100	0.52	1540	8500	2.0	1100	0.26	1970	8500	
F 41 4_739.4	739.4	3.8	1100	0.48	1550	8500	1.9	1100	0.24	1980	8500	
F 41 4_813.8	813.8	3.4	1100	0.44	1560	8500	1.7	1100	0.22	1990	8500	
F 41 4_900.5	900.5	3.1	1100	0.40	1570	8500	1.6	1100	0.20	2000	8500	
F 41 4_982.4	982.4	2.9	1100	0.36	1570	8500	1.4	1100	0.18	2000	8500	
F 41 4_1092	1092	2.6	1100	0.33	1580	8500	1.3	1100	0.16	2010	8500	
F 41 4_1213	1213	2.3	1100	0.30	1590	8500	1.2	1100	0.15	2020	8500	
F 41 4_1411	1411	2.0	1100	0.25	1600	8500	1.0	1100	0.13	2020	8500	

(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)

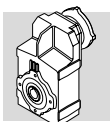


F 41

1100 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 41 2_6.7	6.7	134	670	9.9	—	4980	74	700	5.7	1760	6450	481
F 41 2_9.1	9.1	99	700	7.6	680	5660	55	700	4.2	2850	7410	
F 41 2_10.8	10.8	84	1025	9.4	480	4900	46	1100	5.6	1950	6480	
F 41 2_14.6	14.6	62	1100	7.5	860	5550	34	1100	4.1	3030	7590	
F 41 2_17.1	17.1	53	1100	6.4	1230	6060	29.2	1100	3.5	3400	8210	
F 41 2_18.9	18.9	48	1100	5.8	1760	6390	26.5	1100	3.2	3500	8500	
F 41 2_24.1	24.1	37	1100	4.5	2210	7260	20.7	1100	2.5	3500	8500	
F 41 2_30.1	30.1	29.9	1100	3.6	2630	8120	16.6	1100	2.0	3500	8500	
F 41 2_38.2	38.2	23.6	1100	2.9	2970	8500	13.1	1100	1.6	3500	8500	
F 41 2_47.9	47.9	18.8	1070	2.2	3490	8500	10.4	1070	1.2	3500	8500	
F 41 3_51.5	51.5	17.5	1100	2.2	3500	8500	9.7	1100	1.2	3500	8500	
F 41 3_60.2	60.2	14.9	1100	1.9	3500	8500	8.3	1100	1.0	3500	8500	
F 41 3_66.5	66.5	13.5	1100	1.7	3500	8500	7.5	1100	0.93	3500	8500	
F 41 3_84.9	84.9	10.6	1100	1.3	3500	8500	5.9	1100	0.73	3500	8500	
F 41 3_106.0	106.0	8.5	1100	1.1	3500	8500	4.7	1100	0.58	3500	8500	
F 41 3_134.4	134.4	6.7	1100	0.83	3500	8500	3.7	1100	0.46	3500	8500	
F 41 3_168.7	168.7	5.3	1100	0.66	3500	8500	3.0	1100	0.37	3500	8500	
F 41 3_180.7	180.7	5.0	1100	0.62	3500	8500	2.8	1100	0.34	3500	8500	
F 41 3_198.9	198.9	4.5	1100	0.56	3500	8500	2.5	1100	0.31	3500	8500	
F 41 3_220.1	220.1	4.1	1100	0.51	3500	8500	2.3	1100	0.28	3500	8500	
F 41 3_240.1	240.1	3.7	1100	0.46	3500	8500	2.1	1100	0.26	3500	8500	
F 41 3_266.9	266.9	3.4	1100	0.42	3500	8500	1.9	1100	0.23	3500	8500	
F 41 3_296.6	296.6	3.0	1100	0.38	3500	8500	1.7	1100	0.21	3500	8500	
F 41 3_344.8	344.8	2.6	1100	0.32	3500	8500	1.5	1100	0.18	3500	8500	
F 41 4_433.7	433.7	2.1	1100	0.27	2200	8500	1.2	1100	0.15	2200	8500	
F 41 4_549.8	549.8	1.6	1100	0.21	2200	8500	0.91	1100	0.12	2200	8500	
F 41 4_690.1	690.1	1.3	1100	0.17	2200	8500	0.72	1100	0.09	2200	8500	
F 41 4_739.4	739.4	1.2	1100	0.16	2200	8500	0.68	1100	0.09	2200	8500	
F 41 4_813.8	813.8	1.1	1100	0.14	2200	8500	0.61	1100	0.08	2200	8500	
F 41 4_900.5	900.5	1.0	1100	0.13	2200	8500	0.56	1100	0.07	2200	8500	
F 41 4_982.4	982.4	0.92	1100	0.12	2200	8500	0.51	1100	0.07	2200	8500	
F 41 4_1092	1092	0.82	1100	0.11	2200	8500	0.46	1100	0.06	2200	8500	
F 41 4_1213	1213	0.74	1100	0.09	2200	8500	0.41	1100	0.05	2200	8500	
F 41 4_1411	1411	0.64	1100	0.08	2200	8500	0.35	1100	0.05	2200	8500	

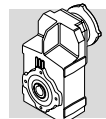
(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



F 51

1800 Nm

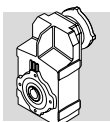
	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 51 2_7.2	7.2	389	775	33	990	4170	195	975	21	1440	5260	485
F 51 2_9.1	9.1	309	875	30	890	4400	155	1100	18.8	1320	5550	
F 51 2_11.1	11.1	252	1055	29	1460	4530	126	1330	18.5	2010	5700	
F 51 2_14.0	14.0	200	1125	25	1580	4920	100	1420	15.7	2150	6200	
F 51 2_18.8	18.8	149	1225	20	1660	5480	74	1545	12.7	2240	6900	
F 51 2_23.8	23.8	118	1310	17.0	1710	5960	59	1650	10.7	2290	7520	
F 51 2_30.0	30.0	93	1350	13.9	1760	6610	47	1700	8.7	2330	8340	
F 51 2_37.1	37.1	75	1350	11.2	1910	7350	38	1700	7.1	2410	9260	
F 51 3_48.9	48.9	57	1505	9.7	2600	7800	28.6	1800	5.8	3310	10100	
F 51 3_65.8	65.8	43	1650	7.9	2610	8640	21.3	1800	4.3	3380	11600	
F 51 3_83.2	83.2	34	1770	6.7	2630	9380	16.8	1800	3.4	3440	12000	
F 51 3_105.1	105.1	26.6	1800	5.4	2650	10400	13.3	1800	2.7	3460	12000	
F 51 3_129.9	129.9	21.6	1800	4.4	2670	11600	10.8	1800	2.2	3490	12000	
F 51 3_165.6	165.6	16.9	1800	3.4	2700	12000	8.5	1800	1.7	3500	12000	
F 51 3_202.4	202.4	13.8	1800	2.8	2710	12000	6.9	1800	1.4	3500	12000	
F 51 3_216.9	216.9	12.9	1800	2.6	2710	12000	6.5	1800	1.3	3500	12000	
F 51 3_239.8	239.8	11.7	1800	2.4	2730	12000	5.8	1800	1.2	3500	12000	
F 51 3_262.1	262.1	10.7	1800	2.2	2730	12000	5.3	1800	1.1	3500	12000	
F 51 3_285.9	285.9	9.8	1800	2.0	2730	12000	4.9	1800	0.99	3500	12000	
F 51 3_317.3	317.3	8.8	1800	1.8	2740	12000	4.4	1800	0.89	3500	12000	
F 51 3_352.5	352.5	7.9	1800	1.6	2740	12000	4.0	1800	0.80	3500	12000	
F 51 4_429.1	429.1	6.5	1800	1.4	1930	12000	3.3	1800	0.68	2200	12000	
F 51 4_530.5	530.5	5.3	1800	1.1	1970	12000	2.6	1800	0.55	2200	12000	
F 51 4_676.3	676.3	4.1	1800	0.87	2020	12000	2.1	1800	0.43	2200	12000	
F 51 4_826.4	826.4	3.4	1800	0.71	2040	12000	1.7	1800	0.35	2200	12000	
F 51 4_885.5	885.5	3.2	1800	0.66	2050	12000	1.6	1800	0.33	2200	12000	
F 51 4_979.4	979.4	2.9	1800	0.60	2060	12000	1.4	1800	0.30	2200	12000	
F 51 4_1070	1070	2.6	1800	0.55	2070	12000	1.3	1800	0.27	2200	12000	
F 51 4_1168	1168	2.4	1800	0.50	2080	12000	1.2	1800	0.25	2200	12000	
F 51 4_1296	1296	2.2	1800	0.45	2090	12000	1.1	1800	0.23	2200	12000	
F 51 4_1439	1439	1.9	1800	0.41	2100	12000	1.0	1800	0.20	2200	12000	



F 51

1800 Nm

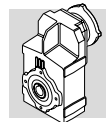
	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 51 2_7.2	7.2	125	1100	15.2	1940	6170	70	1100	8.4	3190	8140	485
F 51 2_9.1	9.1	99	1100	12.1	2450	6900	55	1100	6.7	3440	9030	
F 51 2_11.1	11.1	81	1520	13.6	2450	6660	45	1700	8.4	3190	8480	
F 51 2_14.0	14.0	64	1620	11.5	2550	7250	36	1700	6.7	3440	9500	
F 51 2_18.8	18.8	48	1700	9.0	2690	8230	26.6	1700	5.0	3500	10900	
F 51 2_23.8	23.8	38	1700	7.1	2870	9250	21.0	1700	3.9	3500	12000	
F 51 2_30.0	30.0	30	1700	5.6	2960	10300	16.6	1700	3.1	3500	12000	
F 51 2_37.1	37.1	24.2	1700	4.5	3040	11400	13.5	1700	2.5	3500	12000	
F 51 3_48.9	48.9	18.4	1800	3.7	3500	12000	10.2	1800	2.1	3500	12000	
F 51 3_65.8	65.8	13.7	1800	2.8	3500	12000	7.6	1800	1.5	3500	12000	
F 51 3_83.2	83.2	10.8	1800	2.2	3500	12000	6.0	1800	1.2	3500	12000	
F 51 3_105.1	105.1	8.6	1800	1.7	3500	12000	4.8	1800	0.96	3500	12000	
F 51 3_129.9	129.9	6.9	1800	1.4	3500	12000	3.8	1800	0.78	3500	12000	
F 51 3_165.6	165.6	5.4	1800	1.1	3500	12000	3.0	1800	0.61	3500	12000	
F 51 3_202.4	202.4	4.4	1800	0.90	3500	12000	2.5	1800	0.50	3500	12000	
F 51 3_216.9	216.9	4.2	1800	0.84	3500	12000	2.3	1800	0.47	3500	12000	
F 51 3_239.8	239.8	3.8	1800	0.76	3500	12000	2.1	1800	0.42	3500	12000	
F 51 3_262.1	262.1	3.4	1800	0.70	3500	12000	1.9	1800	0.39	3500	12000	
F 51 3_285.9	285.9	3.1	1800	0.64	3500	12000	1.7	1800	0.35	3500	12000	
F 51 3_317.3	317.3	2.8	1800	0.57	3500	12000	1.6	1800	0.32	3500	12000	
F 51 3_352.5	352.5	2.6	1800	0.52	3500	12000	1.4	1800	0.29	3500	12000	
F 51 4_429.1	429.1	2.1	1800	0.44	2200	12000	1.2	1800	0.24	2200	12000	
F 51 4_530.5	530.5	1.7	1800	0.36	2200	12000	0.94	1800	0.20	2200	12000	
F 51 4_676.3	676.3	1.3	1800	0.28	2200	12000	0.74	1800	0.15	2200	12000	
F 51 4_826.4	826.4	1.1	1800	0.23	2200	12000	0.61	1800	0.13	2200	12000	
F 51 4_885.5	885.5	1.0	1800	0.21	2200	12000	0.56	1800	0.12	2200	12000	
F 51 4_979.4	979.4	0.92	1800	0.19	2200	12000	0.51	1800	0.11	2200	12000	
F 51 4_1070	1070	0.84	1800	0.18	2200	12000	0.47	1800	0.10	2200	12000	
F 51 4_1168	1168	0.77	1800	0.16	2200	12000	0.43	1800	0.09	2200	12000	
F 51 4_1296	1296	0.69	1800	0.15	2200	12000	0.39	1800	0.08	2200	12000	
F 51 4_1439	1439	0.63	1800	0.13	2200	12000	0.35	1800	0.07	2200	12000	



F 60 2900 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 60 3_9.0	9.0	311	920	32	—	13300	156	1160	20	—	16500	489
F 60 3_9.7	9.7	289	1000	33	—	13600	144	1250	20	—	16700	
F 60 3_11.8	11.8	237	1030	28	—	14600	119	1300	17.4	—	17800	
F 60 3_12.7	12.7	220	1110	28	—	14700	110	1400	17.4	—	18000	
F 60 3_14.5	14.5	193	1110	24	—	15500	97	1400	15.3	—	19000	
F 60 3_15.7	15.7	178	1200	24	—	15600	89	1500	15.1	—	19200	
F 60 3_19.1	19.1	147	1200	19.9	—	16800	73	1500	12.4	—	20000	
F 60 3_20.7	20.7	135	1300	19.9	—	17000	68	1640	12.5	—	20000	
F 60 3_23.5	23.5	119	1260	17.0	—	17900	60	1590	10.7	—	20000	
F 60 3_25.4	25.4	110	1370	17.1	—	18100	55	1720	10.7	—	20000	
F 60 3_29.6	29.6	95	2750	29	820	15900	47	2900	15.5	2630	20000	
F 60 3_32.1	32.1	87	2800	28	1290	16200	44	2900	14.3	3260	20000	
F 60 3_38.8	38.8	72	2900	24	1260	17500	36	2900	11.8	3480	20000	
F 60 3_42.1	42.1	67	2900	22	1820	17900	33	2900	10.9	3720	20000	
F 60 3_47.8	47.8	59	2900	19.2	1770	19100	29.3	2900	9.6	3730	20000	
F 60 3_51.8	51.8	54	2900	17.7	2290	19500	27.0	2900	8.9	3830	20000	
F 60 3_63.0	63.0	44	2900	14.6	2310	20000	22.2	2900	7.3	3850	20000	
F 60 3_68.3	68.3	41	2900	13.4	2790	20000	20.5	2900	6.7	3940	20000	
F 60 3_77.6	77.6	36	2900	11.8	2620	20000	18.0	2900	5.9	3920	20000	
F 60 3_84.0	84.0	33	2900	10.9	2960	20000	16.7	2900	5.5	4010	20000	
F 60 3_98.2	98.2	28.5	2900	9.3	2910	20000	14.3	2900	4.7	3980	20000	
F 60 3_106.4	106.4	26.3	2900	8.6	3020	20000	13.2	2900	4.3	4070	20000	
F 60 3_120.5	120.5	23.2	2900	7.6	2970	20000	11.6	2900	3.8	4030	20000	
F 60 3_130.5	130.5	21.5	2900	7.0	3060	20000	10.7	2900	3.5	4110	20000	
F 60 3_150.4	150.4	18.6	2900	6.1	3010	20000	9.3	2900	3.0	4060	20000	
F 60 3_162.9	162.9	17.2	2900	5.6	3090	20000	8.6	2900	2.8	4140	20000	
F 60 3_185.9	185.9	15.1	2900	4.9	3050	20000	7.5	2900	2.5	4100	20000	
F 60 3_201.4	201.4	13.9	2900	4.6	3130	20000	7.0	2900	2.3	4180	20000	
F 60 3_217.6	217.6	12.9	2900	4.2	3070	20000	6.4	2900	2.1	4120	20000	
F 60 3_235.8	235.8	11.9	2900	3.9	3140	20000	5.9	2900	1.9	4190	20000	
F 60 3_259.1	259.1	10.8	2900	3.5	3080	20000	5.4	2900	1.8	4130	20000	
F 60 3_280.7	280.7	10.0	2900	3.3	3150	20000	5.0	2900	1.6	4200	20000	
F 60 4_315.4	315.4	8.9	2900	3.0	3500	20000	4.4	2900	1.5	3500	20000	
F 60 4_341.7	341.7	8.2	2900	2.8	3500	20000	4.1	2900	1.4	3500	20000	
F 60 4_399.3	399.3	7.0	2900	2.4	3500	20000	3.5	2900	1.2	3500	20000	
F 60 4_432.6	432.6	6.5	2900	2.2	3500	20000	3.2	2900	1.1	3500	20000	
F 60 4_489.8	489.8	5.7	2900	1.9	3500	20000	2.9	2900	0.96	3500	20000	
F 60 4_530.7	530.7	5.3	2900	1.8	3500	20000	2.6	2900	0.89	3500	20000	
F 60 4_611.4	611.4	4.6	2900	1.5	3500	20000	2.3	2900	0.77	3500	20000	
F 60 4_662.4	662.4	4.2	2900	1.4	3500	20000	2.1	2900	0.71	3500	20000	
F 60 4_756.0	756.0	3.7	2900	1.2	3500	20000	1.9	2900	0.62	3500	20000	
F 60 4_819.0	819.0	3.4	2900	1.1	3500	20000	1.7	2900	0.57	3500	20000	
F 60 4_885.1	885.1	3.2	2900	1.1	3500	20000	1.6	2900	0.53	3500	20000	
F 60 4_958.9	958.9	2.9	2900	0.98	3500	20000	1.5	2900	0.49	3500	20000	
F 60 4_1054	1054	2.7	2900	0.89	3500	20000	1.3	2900	0.45	3500	20000	
F 60 4_1141	1141	2.5	2900	0.83	3500	20000	1.2	2900	0.41	3500	20000	

(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)

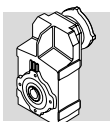


F 60

2900 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 60 3_9.0	9.0	100	1340	15.1	—	18800	56	1630	10.2	—	20000	489
F 60 3_9.7	9.7	93	1460	15.3	—	19000	52	1780	10.4	—	20000	
F 60 3_11.8	11.8	76	1500	12.9	—	20000	42	1830	8.8	—	20000	
F 60 3_12.7	12.7	71	1620	13.0	—	20000	39	1900	8.4	600	20000	
F 60 3_14.5	14.5	62	1620	11.4	—	20000	34	1900	7.4	490	20000	
F 60 3_15.7	15.7	57	1750	11.3	—	20000	32	1900	6.8	1630	20000	
F 60 3_19.1	19.1	47	1750	9.3	—	20000	26.2	1900	5.6	1660	20000	
F 60 3_20.7	20.7	43	1900	9.3	—	20000	24.2	1900	5.2	2700	20000	
F 60 3_23.5	23.5	38	1840	8.0	—	20000	21.3	1900	4.6	2340	20000	
F 60 3_25.4	25.4	35	1900	7.6	620	20000	19.7	1900	4.2	3330	20000	
F 60 3_29.6	29.6	30	2900	10.0	4220	20000	16.9	2900	5.5	4700	20000	
F 60 3_32.1	32.1	28.0	2900	9.2	4350	20000	15.6	2900	5.1	4700	20000	
F 60 3_38.8	38.8	23.2	2900	7.6	4420	20000	12.9	2900	4.2	4700	20000	
F 60 3_42.1	42.1	21.4	2900	7.0	4530	20000	11.9	2900	3.9	4700	20000	
F 60 3_47.8	47.8	18.8	2900	6.2	4530	20000	10.5	2900	3.4	4700	20000	
F 60 3_51.8	51.8	17.4	2900	5.7	4640	20000	9.7	2900	3.2	4700	20000	
F 60 3_63.0	63.0	14.3	2900	4.7	4660	20000	7.9	2900	2.6	4700	20000	
F 60 3_68.3	68.3	13.2	2900	4.3	4700	20000	7.3	2900	2.4	4700	20000	
F 60 3_77.6	77.6	11.6	2900	3.8	4700	20000	6.4	2900	2.1	4700	20000	
F 60 3_84.0	84.0	10.7	2900	3.5	4700	20000	6.0	2900	1.9	4700	20000	
F 60 3_98.2	98.2	9.2	2900	3.0	4700	20000	5.1	2900	1.7	4700	20000	
F 60 3_106.4	106.4	8.5	2900	2.8	4700	20000	4.7	2900	1.5	4700	20000	
F 60 3_120.5	120.5	7.5	2900	2.4	4700	20000	4.1	2900	1.4	4700	20000	
F 60 3_130.5	130.5	6.9	2900	2.3	4700	20000	3.8	2900	1.3	4700	20000	
F 60 3_150.4	150.4	6.0	2900	2.0	4700	20000	3.3	2900	1.1	4700	20000	
F 60 3_162.9	162.9	5.5	2900	1.8	4700	20000	3.1	2900	1.0	4700	20000	
F 60 3_185.9	185.9	4.8	2900	1.6	4700	20000	2.7	2900	0.88	4700	20000	
F 60 3_201.4	201.4	4.5	2900	1.5	4700	20000	2.5	2900	0.81	4700	20000	
F 60 3_217.6	217.6	4.1	2900	1.4	4700	20000	2.3	2900	0.75	4700	20000	
F 60 3_235.8	235.8	3.8	2900	1.3	4700	20000	2.1	2900	0.69	4700	20000	
F 60 3_259.1	259.1	3.5	2900	1.1	4700	20000	1.9	2900	0.63	4700	20000	
F 60 3_280.7	280.7	3.2	2900	1.1	4700	20000	1.8	2900	0.58	4700	20000	
F 60 4_315.4	315.4	2.9	2900	0.96	3500	20000	1.6	2900	0.53	3500	20000	
F 60 4_341.7	341.7	2.6	2900	0.89	3500	20000	1.5	2900	0.49	3500	20000	
F 60 4_399.3	399.3	2.3	2900	0.76	3500	20000	1.3	2900	0.42	3500	20000	
F 60 4_432.6	432.6	2.1	2900	0.70	3500	20000	1.2	2900	0.39	3500	20000	
F 60 4_489.8	489.8	1.8	2900	0.62	3500	20000	1.0	2900	0.34	3500	20000	
F 60 4_530.7	530.7	1.7	2900	0.57	3500	20000	0.94	2900	0.32	3500	20000	
F 60 4_611.4	611.4	1.5	2900	0.50	3500	20000	0.82	2900	0.28	3500	20000	
F 60 4_662.4	662.4	1.4	2900	0.46	3500	20000	0.75	2900	0.25	3500	20000	
F 60 4_756.0	756.0	1.2	2900	0.40	3500	20000	0.66	2900	0.22	3500	20000	
F 60 4_819.0	819.0	1.1	2900	0.37	3500	20000	0.61	2900	0.21	3500	20000	
F 60 4_885.1	885.1	1.0	2900	0.34	3500	20000	0.56	2900	0.19	3500	20000	
F 60 4_958.9	958.9	0.94	2900	0.32	3500	20000	0.52	2900	0.18	3500	20000	
F 60 4_1054	1054	0.85	2900	0.29	3500	20000	0.47	2900	0.16	3500	20000	
F 60 4_1141	1141	0.79	2900	0.27	3500	20000	0.44	2900	0.15	3500	20000	

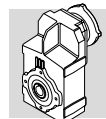
(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



F 70

5000 Nm

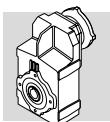
	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 70 3_10.0	10.0	280	2600	82	1410	14800	140	3200	51	1750	18200	493
F 70 3_10.9	10.9	257	2800	81	1510	14700	128	3450	50	1840	18100	
F 70 3_12.8	12.8	219	2900	72	860	15700	109	3600	44	880	19300	
F 70 3_13.9	13.9	201	3150	72	810	15600	101	3900	44	880	19100	
F 70 3_16.3	16.3	172	3250	63	570	16600	86	4000	39	710	20500	
F 70 3_17.7	17.7	158	3550	63	430	16400	79	4350	39	630	20200	
F 70 3_20.9	20.9	134	3450	52	690	18000	67	4000	30	2090	22700	
F 70 3_22.6	22.6	124	3750	52	640	17800	62	4350	30	2010	22500	
F 70 3_24.6	24.6	114	3550	46	560	19000	57	4000	26	2510	24200	
F 70 3_27.7	27.7	101	3750	43	5070	19600	51	4650	27	6410	24100	
F 70 3_30.0	30.0	93	4050	43	5080	19400	47	5000	26	6420	23900	
F 70 3_35.4	35.4	79	4150	37	5070	20900	40	5000	22	6440	25900	
F 70 3_38.4	38.4	73	4500	37	5060	20700	36	5000	21	6540	26500	
F 70 3_45.2	45.2	62	4600	32	5080	22200	31	5000	17.5	6590	28700	
F 70 3_49.0	49.0	57	4600	30	5170	22700	28.6	5000	16.1	6680	29300	
F 70 3_57.7	57.7	49	5000	27	5090	23800	24.3	5000	13.7	6680	31600	
F 70 3_62.5	62.5	45	5000	25	5170	24300	22.4	5000	12.7	6760	32300	
F 70 3_67.9	67.9	41	5000	23	5110	25500	20.6	5000	11.6	6710	33600	
F 70 3_73.6	73.6	38	5000	21	5190	26100	19.0	5000	10.7	6790	34400	
F 70 3_85.4	85.4	33	5000	18.5	5190	28000	16.4	5000	9.3	6780	35000	
F 70 3_92.5	92.5	30	5000	17.1	5260	28700	15.1	5000	8.5	6860	35000	
F 70 3_101.2	101.2	27.7	5000	15.6	5220	30000	13.8	5000	7.8	6820	35000	
F 70 3_109.6	109.6	25.5	5000	14.4	5290	30700	12.8	5000	7.2	6890	35000	
F 70 3_122.7	122.7	22.8	5000	12.9	5250	32300	11.4	5000	6.4	6850	35000	
F 70 3_133.0	133.0	21.1	5000	11.9	5320	33100	10.5	5000	5.9	6920	35000	
F 70 3_153.8	153.8	18.2	5000	10.3	5280	35000	9.1	5000	5.1	6880	35000	
F 70 3_166.7	166.7	16.8	5000	9.5	5350	35000	8.4	5000	4.7	6950	35000	
F 70 3_180.9	180.9	15.5	5000	8.7	5310	35000	7.7	5000	4.4	6910	35000	
F 70 3_196.0	196.0	14.3	5000	8.1	5370	35000	7.1	5000	4.0	6970	35000	
F 70 4_216.5	216.5	12.9	5000	7.5	2130	35000	6.5	5000	3.7	2860	35000	
F 70 4_234.6	234.6	11.9	5000	6.9	2130	35000	6.0	5000	3.5	2860	35000	
F 70 4_280.9	280.9	10.0	5000	5.8	2200	35000	5.0	5000	2.9	2940	35000	
F 70 4_304.3	304.3	9.2	5000	5.3	2200	35000	4.6	5000	2.7	2940	35000	
F 70 4_372.5	372.5	7.5	5000	4.4	2260	35000	3.8	5000	2.2	3000	35000	
F 70 4_403.5	403.5	6.9	5000	4.0	2260	35000	3.5	5000	2.0	3000	35000	
F 70 4_471.2	471.2	5.9	5000	3.4	2300	35000	3.0	5000	1.7	3040	35000	
F 70 4_510.4	510.4	5.5	5000	3.2	2300	35000	2.7	5000	1.6	3040	35000	
F 70 4_606.8	606.8	4.6	5000	2.7	2340	35000	2.3	5000	1.3	3070	35000	
F 70 4_657.4	657.4	4.3	5000	2.5	2340	35000	2.1	5000	1.2	3070	35000	
F 70 4_759.0	759.0	3.7	5000	2.1	2360	35000	1.8	5000	1.1	3090	35000	
F 70 4_822.2	822.2	3.4	5000	2.0	2360	35000	1.7	5000	1.0	3090	35000	
F 70 4_899.4	899.4	3.1	5000	1.8	2370	35000	1.6	5000	0.90	3110	35000	
F 70 4_974.4	974.4	2.9	5000	1.7	2370	35000	1.4	5000	0.83	3110	35000	
F 70 4_1091	1091	2.6	5000	1.5	2390	35000	1.3	5000	0.74	3120	35000	
F 70 4_1182	1182	2.4	5000	1.4	2390	35000	1.2	5000	0.69	3120	35000	
F 70 4_1368	1368	2.0	5000	1.2	2400	35000	1.0	5000	0.59	3130	35000	
F 70 4_1481	1481	1.9	5000	1.1	2400	35000	0.95	5000	0.55	3130	35000	
F 70 4_1585	1585	1.8	5000	1.0	2410	35000	0.88	5000	0.51	3140	35000	
F 70 4_1717	1717	1.6	5000	0.95	2410	35000	0.82	5000	0.47	3140	35000	
F 70 4_2019	2019	1.4	5000	0.80	2420	35000	0.69	5000	0.40	3150	35000	
F 70 4_2188	2188	1.3	5000	0.74	2420	35000	0.64	5000	0.37	3150	35000	



F 70

5000 Nm

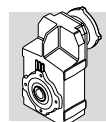
	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 70 3_10.0	10.0	90	3200	33	4870	21700	50	3200	18.1	7000	27000	493
F 70 3_10.9	10.9	83	3450	32	4970	21700	46	3450	17.9	7000	27200	
F 70 3_12.8	12.8	70	3850	31	2540	22500	39	3600	15.9	7000	28300	
F 70 3_13.9	13.9	65	4200	31	2380	22400	36	3900	15.8	7000	28300	
F 70 3_16.3	16.3	55	4000	25	3830	24500	31	4000	13.9	7000	30700	
F 70 3_17.7	17.7	51	4350	25	3750	24400	28.2	4350	13.9	7000	30800	
F 70 3_20.9	20.9	43	4000	19.5	5210	27000	23.9	4000	10.8	7000	33700	
F 70 3_22.6	22.6	40	4350	19.6	5130	26900	22.1	4350	10.9	7000	33800	
F 70 3_24.6	24.6	37	4000	16.5	5630	28700	20.3	4000	9.2	7000	35000	
F 70 3_27.7	27.7	32	5000	18.4	7000	28100	18.1	4650	9.5	7000	35000	
F 70 3_30.0	30.0	30	5000	16.9	7000	28800	16.7	5000	9.4	7000	35000	
F 70 3_35.4	35.4	25.4	5000	14.4	7000	31000	14.1	5000	8.0	7000	35000	
F 70 3_38.4	38.4	23.4	5000	13.2	7000	31700	13.0	5000	7.4	7000	35000	
F 70 3_45.2	45.2	19.9	5000	11.2	7000	34100	11.1	5000	6.2	7000	35000	
F 70 3_49.0	49.0	18.4	5000	10.4	7000	34900	10.2	5000	5.8	7000	35000	
F 70 3_57.7	57.7	15.6	5000	8.8	7000	35000	8.7	5000	4.9	7000	35000	
F 70 3_62.5	62.5	14.4	5000	8.1	7000	35000	8.0	5000	4.5	7000	35000	
F 70 3_67.9	67.9	13.3	5000	7.5	7000	35000	7.4	5000	4.2	7000	35000	
F 70 3_73.6	73.6	12.2	5000	6.9	7000	35000	6.8	5000	3.8	7000	35000	
F 70 3_85.4	85.4	10.5	5000	6.0	7000	35000	5.9	5000	3.3	7000	35000	
F 70 3_92.5	92.5	9.7	5000	5.5	7000	35000	5.4	5000	3.1	7000	35000	
F 70 3_101.2	101.2	8.9	5000	5.0	7000	35000	4.9	5000	2.8	7000	35000	
F 70 3_109.6	109.6	8.2	5000	4.6	7000	35000	4.6	5000	2.6	7000	35000	
F 70 3_122.7	122.7	7.3	5000	4.1	7000	35000	4.1	5000	2.3	7000	35000	
F 70 3_133.0	133.0	6.8	5000	3.8	7000	35000	3.8	5000	2.1	7000	35000	
F 70 3_153.8	153.8	5.9	5000	3.3	7000	35000	3.3	5000	1.8	7000	35000	
F 70 3_166.7	166.7	5.4	5000	3.0	7000	35000	3.0	5000	1.7	7000	35000	
F 70 3_180.9	180.9	5.0	5000	2.8	7000	35000	2.8	5000	1.6	7000	35000	
F 70 3_196.0	196.0	4.6	5000	2.6	7000	35000	2.6	5000	1.4	7000	35000	
F 70 4_216.5	216.5	4.2	5000	2.4	3430	35000	2.3	5000	1.3	3500	35000	
F 70 4_234.6	234.6	3.8	5000	2.2	3430	35000	2.1	5000	1.2	3500	35000	
F 70 4_280.9	280.9	3.2	5000	1.9	3500	35000	1.8	5000	1.0	3500	35000	
F 70 4_304.3	304.3	3.0	5000	1.7	3500	35000	1.6	5000	0.95	3500	35000	
F 70 4_372.5	372.5	2.4	5000	1.4	3500	35000	1.3	5000	0.78	3500	35000	
F 70 4_403.5	403.5	2.2	5000	1.3	3500	35000	1.2	5000	0.72	3500	35000	
F 70 4_471.2	471.2	1.9	5000	1.1	3500	35000	1.1	5000	0.62	3500	35000	
F 70 4_510.4	510.4	1.8	5000	1.0	3500	35000	0.98	5000	0.57	3500	35000	
F 70 4_606.8	606.8	1.5	5000	0.86	3500	35000	0.82	5000	0.48	3500	35000	
F 70 4_657.4	657.4	1.4	5000	0.79	3500	35000	0.76	5000	0.44	3500	35000	
F 70 4_759.0	759.0	1.2	5000	0.69	3500	35000	0.66	5000	0.38	3500	35000	
F 70 4_822.2	822.2	1.1	5000	0.63	3500	35000	0.61	5000	0.35	3500	35000	
F 70 4_899.4	899.4	1.0	5000	0.58	3500	35000	0.56	5000	0.32	3500	35000	
F 70 4_974.4	974.4	0.92	5000	0.54	3500	35000	0.51	5000	0.30	3500	35000	
F 70 4_1091	1091	0.82	5000	0.48	3500	35000	0.46	5000	0.27	3500	35000	
F 70 4_1182	1182	0.76	5000	0.44	3500	35000	0.42	5000	0.25	3500	35000	
F 70 4_1368	1368	0.66	5000	0.38	3500	35000	0.37	5000	0.21	3500	35000	
F 70 4_1481	1481	0.61	5000	0.35	3500	35000	0.34	5000	0.20	3500	35000	
F 70 4_1585	1585	0.57	5000	0.33	3500	35000	0.32	5000	0.18	3500	35000	
F 70 4_1717	1717	0.52	5000	0.30	3500	35000	0.29	5000	0.17	3500	35000	
F 70 4_2019	2019	0.45	5000	0.26	3500	35000	0.25	5000	0.14	3500	35000	
F 70 4_2188	2188	0.41	5000	0.24	3500	35000	0.23	5000	0.13	3500	35000	



F 80

8000 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 80 3_10.3	10.3	272	3250	100	610	17200	136	4100	63	220	21800	496
F 80 3_11.2	11.2	250	3520	99	620	17800	125	4440	63	230	21700	
F 80 3_12.9	12.9	217	3560	87	670	18900	109	4480	55	350	23100	
F 80 3_14.0	14.0	200	3850	87	700	18800	100	4860	55	310	23000	
F 80 3_16.2	16.2	173	3760	73	760	20300	86	4740	46	430	24800	
F 80 3_17.6	17.6	159	4000	72	730	20300	80	5140	46	410	24700	
F 80 3_20.3	20.3	138	4060	63	780	21700	69	5120	40	440	26500	
F 80 3_22.0	22.0	127	4400	63	780	21600	64	5540	40	470	26400	
F 80 3_25.2	25.2	111	4230	53	700	23300	56	5330	33	360	28500	
F 80 3_28.8	28.8	97	6550	72	4590	20500	49	8000	44	5890	25400	
F 80 3_31.3	31.3	89	7100	72	4590	20000	45	8000	40	6040	26000	
F 80 3_36.0	36.0	78	7250	64	4560	21500	39	8000	35	6110	28100	
F 80 3_39.0	39.0	72	6700	54	4890	23000	36	8000	32	6240	28800	
F 80 3_45.3	45.3	62	7900	55	4440	22700	31	8000	28	6240	31100	
F 80 3_49.1	49.1	57	8000	52	4750	23200	28.5	8000	26	6360	31900	
F 80 3_56.7	56.7	49	8000	45	4780	25200	24.7	8000	22	6390	34300	
F 80 3_61.5	61.5	46	8000	41	4890	25800	22.8	8000	21	6500	35100	
F 80 3_70.4	70.4	40	8000	36	4850	27800	19.9	8000	18.0	6460	37500	
F 80 3_76.3	76.3	37	8000	33	4950	28500	18.3	8000	16.6	6560	38400	
F 80 3_85.2	85.2	33	8000	30	4940	30300	16.4	8000	14.8	6550	40500	
F 80 3_92.3	92.3	30	8000	27	5040	31000	15.2	8000	13.7	6640	41500	
F 80 3_105.0	105.0	26.7	8000	24	5000	33200	13.3	8000	12.0	6610	44000	
F 80 3_113.8	113.8	24.6	8000	22	5090	34000	12.3	8000	11.1	6700	45000	
F 80 3_122.5	122.5	22.9	8000	21	5020	35400	11.4	8000	10.3	6630	45000	
F 80 3_132.7	132.7	21.1	8000	19.1	5110	36200	10.6	8000	9.5	6720	45000	
F 80 3_147.9	147.9	18.9	8000	17.1	5060	38200	9.5	8000	8.6	6660	45000	
F 80 3_160.2	160.2	17.5	8000	15.8	5140	39100	8.7	8000	7.9	6750	45000	
F 80 3_184.6	184.6	15.2	8000	13.7	5090	41800	7.6	8000	6.9	6700	45000	
F 80 3_200.0	200.0	14.0	8000	12.7	5180	42800	7.0	8000	6.3	6780	45000	
F 80 4_218.5	218.5	12.8	8000	11.9	1020	45000	6.4	8000	5.9	2400	45000	
F 80 4_273.9	273.9	10.2	8000	9.5	1470	45000	5.1	8000	4.7	2680	45000	
F 80 4_296.7	296.7	9.4	8000	8.8	1470	45000	4.7	8000	4.4	2680	45000	
F 80 4_353.7	353.7	7.9	8000	7.3	1850	45000	4.0	8000	3.7	2770	45000	
F 80 4_383.2	383.2	7.3	8000	6.8	1850	45000	3.7	8000	3.4	2770	45000	
F 80 4_451.5	451.5	6.2	8000	5.8	2040	45000	3.1	8000	2.9	2820	45000	
F 80 4_489.1	489.1	5.7	8000	5.3	2040	45000	2.9	8000	2.7	2820	45000	
F 80 4_563.9	563.9	5.0	8000	4.6	2130	45000	2.5	8000	2.3	2860	45000	
F 80 4_610.9	610.9	4.6	8000	4.3	2130	45000	2.3	8000	2.1	2860	45000	
F 80 4_714.9	714.9	3.9	8000	3.6	2160	45000	2.0	8000	1.8	2890	45000	
F 80 4_774.4	774.4	3.6	8000	3.4	2160	45000	1.8	8000	1.7	2890	45000	
F 80 4_897.3	897.3	3.1	8000	2.9	2200	45000	1.6	8000	1.4	2930	45000	
F 80 4_972.0	972.0	2.9	8000	2.7	2200	45000	1.4	8000	1.3	2930	45000	
F 80 4_1058	1058	2.6	8000	2.5	2210	45000	1.3	8000	1.2	2950	45000	
F 80 4_1146	1146	2.4	8000	2.3	2210	45000	1.2	8000	1.1	2950	45000	
F 80 4_1277	1277	2.2	8000	2.0	2230	45000	1.1	8000	1.0	2960	45000	
F 80 4_1384	1384	2.0	8000	1.9	2230	45000	1.0	8000	0.94	2960	45000	
F 80 4_1578	1578	1.8	8000	1.6	2240	45000	0.89	8000	0.82	2970	45000	
F 80 4_1709	1709	1.6	8000	1.5	2240	45000	0.82	8000	0.76	2970	45000	
F 80 4_1834	1834	1.5	8000	1.4	2250	45000	0.76	8000	0.71	2980	45000	
F 80 4_1987	1987	1.4	8000	1.3	2250	45000	0.70	8000	0.65	2980	45000	

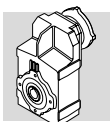


F 80

8000 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 80 3_10.3	10.3	87	4740	47	—	24700	49	5770	32	—	29300	496
F 80 3_11.2	11.2	80	5140	47	—	24600	45	6250	32	—	29200	
F 80 3_12.9	12.9	70	5200	41	—	26200	39	6320	28	—	31100	
F 80 3_14.0	14.0	64	5620	41	—	26100	36	6800	27	—	31000	
F 80 3_16.2	16.2	56	5490	34	—	28200	31	6250	22	1540	34200	
F 80 3_17.6	17.6	51	5960	34	—	28100	28.4	6800	22	1410	30000	
F 80 3_20.3	20.3	44	5930	30	—	30100	24.6	6250	17.4	3710	37300	
F 80 3_22.0	22.0	41	6420	30	—	30000	22.7	6800	17.5	3590	37200	
F 80 3_25.2	25.2	36	6175	25	—	32400	19.8	6250	14.0	4660	40500	
F 80 3_28.8	28.8	31	8000	28	7000	31000	17.4	8000	15.7	7000	39600	
F 80 3_31.3	31.3	28.8	8000	26	7000	31700	16.0	8000	14.4	7000	40600	
F 80 3_36.0	36.0	25.0	8000	23	7000	34100	13.9	8000	12.6	7000	43300	
F 80 3_39.0	39.0	23.1	8000	21	7000	34900	12.8	8000	11.6	7000	44300	
F 80 3_45.3	45.3	19.9	8000	18.0	7000	37500	11.0	8000	10.0	7000	45000	
F 80 3_49.1	49.1	18.3	8000	16.6	7000	38400	10.2	8000	9.2	7000	45000	
F 80 3_56.7	56.7	15.9	8000	14.3	7000	41100	8.8	8000	8.0	7000	45000	
F 80 3_61.5	61.5	14.6	8000	13.2	7000	42000	8.1	8000	7.3	7000	45000	
F 80 3_70.4	70.4	12.8	8000	11.6	7000	44700	7.1	8000	6.4	7000	45000	
F 80 3_76.3	76.3	11.8	8000	10.7	7000	45000	6.6	8000	5.9	7000	45000	
F 80 3_85.2	85.2	10.6	8000	9.5	7000	45000	5.9	8000	5.3	7000	45000	
F 80 3_92.3	92.3	9.8	8000	8.8	7000	45000	5.4	8000	4.9	7000	45000	
F 80 3_105.0	105.0	8.6	8000	7.7	7000	45000	4.8	8000	4.3	7000	45000	
F 80 3_113.8	113.8	7.9	8000	7.1	7000	45000	4.4	8000	4.0	7000	45000	
F 80 3_122.5	122.5	7.3	8000	6.6	7000	45000	4.1	8000	3.7	7000	45000	
F 80 3_132.7	132.7	6.8	8000	6.1	7000	45000	3.8	8000	3.4	7000	45000	
F 80 3_147.9	147.9	6.1	8000	5.5	7000	45000	3.4	8000	3.1	7000	45000	
F 80 3_160.2	160.2	5.6	8000	5.1	7000	45000	3.1	8000	2.8	7000	45000	
F 80 3_184.6	184.6	4.9	8000	4.4	7000	45000	2.7	8000	2.4	7000	45000	
F 80 3_200.0	200.0	4.5	8000	4.1	7000	45000	2.5	8000	2.3	7000	45000	
F 80 4_218.5	218.5	4.1	8000	3.8	3130	45000	2.3	8000	2.1	3500	45000	
F 80 4_273.9	273.9	3.3	8000	3.0	3240	45000	1.8	8000	1.7	3500	45000	
F 80 4_296.7	296.7	3.0	8000	2.8	3240	45000	1.7	8000	1.6	3500	45000	
F 80 4_353.7	353.7	2.5	8000	2.4	3330	45000	1.4	8000	1.3	3500	45000	
F 80 4_383.2	383.2	2.3	8000	2.2	3330	45000	1.3	8000	1.2	3500	45000	
F 80 4_451.5	451.5	2.0	8000	1.8	3380	45000	1.1	8000	1.0	3500	45000	
F 80 4_489.1	489.1	1.8	8000	1.7	3380	45000	1.0	8000	0.95	3500	45000	
F 80 4_563.9	563.9	1.6	8000	1.5	3420	45000	0.89	8000	0.82	3500	45000	
F 80 4_610.9	610.9	1.5	8000	1.4	3420	45000	0.82	8000	0.76	3500	45000	
F 80 4_714.9	714.9	1.3	8000	1.2	3460	45000	0.70	8000	0.65	3500	45000	
F 80 4_774.4	774.4	1.2	8000	1.1	3460	45000	0.65	8000	0.60	3500	45000	
F 80 4_897.3	897.3	1.0	8000	0.93	3490	45000	0.56	8000	0.52	3500	45000	
F 80 4_972.0	972.0	0.93	8000	0.86	3490	45000	0.51	8000	0.48	3500	45000	
F 80 4_1058	1058	0.85	8000	0.79	3500	45000	0.47	8000	0.44	3500	45000	
F 80 4_1146	1146	0.79	8000	0.73	3500	45000	0.44	8000	0.40	3500	45000	
F 80 4_1277	1277	0.70	8000	0.65	3500	45000	0.39	8000	0.36	3500	45000	
F 80 4_1384	1384	0.65	8000	0.60	3500	45000	0.36	8000	0.34	3500	45000	
F 80 4_1578	1578	0.57	8000	0.53	3500	45000	0.32	8000	0.29	3500	45000	
F 80 4_1709	1709	0.53	8000	0.49	3500	45000	0.29	8000	0.27	3500	45000	
F 80 4_1834	1834	0.49	8000	0.46	3500	45000	0.27	8000	0.25	3500	45000	
F 80 4_1987	1987	0.45	8000	0.42	3500	45000	0.25	8000	0.23	3500	45000	

(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)

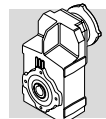


F 90

14000 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 90 3_10.3	10.3	272	6500	200	5480	23800	136	8000	123	8000	29300	499
F 90 3_11.1	11.1	252	7150	204	5280	23300	126	8800	125	7770	28700	
F 90 3_13.4	13.4	209	7550	178	4880	25000	104	9300	110	7280	30700	
F 90 3_14.5	14.5	193	8100	177	5000	24700	97	10000	109	7400	30300	
F 90 3_16.5	16.5	170	8400	161	4540	26000	85	10300	99	6960	32000	
F 90 3_17.9	17.9	156	8950	158	4560	25700	78	11000	97	7180	31700	
F 90 3_20.6	20.6	136	9200	141	3980	27400	68	11300	87	6260	33700	
F 90 3_22.3	22.3	126	9750	138	4280	27100	63	12000	85	6590	33400	
F 90 3_25.4	25.4	110	10050	125	3620	28700	55	12000	75	6310	36000	
F 90 3_28.6	28.6	98	9750	108	9800	30900	49	12000	66	12400	38000	
F 90 3_31.0	31.0	90	10550	108	9800	30300	45	13000	66	12400	37300	
F 90 3_37.4	37.4	75	10950	93	9820	32800	37	13500	57	12400	40400	
F 90 3_40.5	40.5	69	11900	93	9820	32100	35	14000	55	12500	40600	
F 90 3_46.1	46.1	61	12050	83	9840	34300	30	14000	48	12600	43600	
F 90 3_49.9	49.9	56	13050	83	9840	33500	28.1	14000	44	12700	44700	
F 90 3_57.3	57.3	49	13050	72	9810	36300	24.4	14000	39	12700	48100	
F 90 3_62.1	62.1	45	14000	71	9830	35600	22.5	14000	36	12800	49300	
F 90 3_70.8	70.8	40	14000	63	9830	38500	19.8	14000	31	12800	52700	
F 90 3_76.7	76.7	37	14000	58	9960	39500	18.3	14000	29	13000	54000	
F 90 3_88.4	88.4	32	14000	50	9930	42800	15.8	14000	25	12900	55000	
F 90 3_95.8	95.8	29.2	14000	46	10100	43800	14.6	14000	23	13100	55000	
F 90 3_103.3	103.3	27.1	14000	43	9960	45900	13.6	14000	21	13000	55000	
F 90 3_111.9	111.9	25.0	14000	40	10100	47100	12.5	14000	19.8	13100	55000	
F 90 3_126.8	126.8	22.1	14000	35	10000	50300	11.0	14000	17.5	13000	55000	
F 90 3_137.3	137.3	20.4	14000	32	10100	51500	10.2	14000	16.1	13100	55000	
F 90 3_150.3	150.3	18.6	14000	29	10100	54000	9.3	14000	14.7	13100	55000	
F 90 3_162.8	162.8	17.2	14000	27	10200	55000	8.6	14000	13.6	13200	55000	
F 90 3_179.2	179.2	15.6	14000	25	10200	55000	7.8	14000	12.4	13100	55000	
F 90 3_194.2	194.2	14.4	14000	23	10200	55000	7.2	14000	11.4	13200	55000	
F 90 4_213.6	213.6	13.1	14000	21	—	55000	6.6	14000	10.6	—	55000	
F 90 4_231.4	231.4	12.1	14000	19.6	—	55000	6.1	14000	9.8	—	55000	
F 90 4_268.7	268.7	10.4	14000	16.9	—	55000	5.2	14000	8.5	420	55000	
F 90 4_291.1	291.1	9.6	14000	15.6	—	55000	4.8	14000	7.8	420	55000	
F 90 4_361.8	361.8	7.7	14000	12.6	—	55000	3.9	14000	6.3	990	55000	
F 90 4_392.0	392.0	7.1	14000	11.6	—	55000	3.6	14000	5.8	990	55000	
F 90 4_457.5	457.5	6.1	14000	9.9	—	55000	3.1	14000	5.0	1390	55000	
F 90 4_495.6	495.6	5.6	14000	9.2	—	55000	2.8	14000	4.6	1390	55000	
F 90 4_577.5	577.5	4.8	14000	7.9	—	55000	2.4	14000	3.9	1600	55000	
F 90 4_625.6	625.6	4.5	14000	7.3	—	55000	2.2	14000	3.6	1600	55000	
F 90 4_714.0	714.0	3.9	14000	6.4	—	55000	2.0	14000	3.2	1800	55000	
F 90 4_773.4	773.4	3.6	14000	5.9	—	55000	1.8	14000	2.9	1800	55000	
F 90 4_910.2	910.2	3.1	14000	5.0	—	55000	1.5	14000	2.5	2020	55000	
F 90 4_986.0	986.0	2.8	14000	4.6	—	55000	1.4	14000	2.3	2020	55000	
F 90 4_1112	1112	2.5	14000	4.1	—	55000	1.3	14000	2.0	2110	55000	
F 90 4_1205	1205	2.3	14000	3.8	—	55000	1.2	14000	1.9	2110	55000	
F 90 4_1318	1318	2.1	14000	3.4	—	55000	1.1	14000	1.7	2220	55000	
F 90 4_1428	1428	2.0	14000	3.2	—	55000	0.98	14000	1.6	2220	55000	
F 90 4_1571	1571	1.8	14000	2.9	—	55000	0.89	14000	1.4	2260	55000	
F 90 4_1702	1702	1.6	14000	2.7	—	55000	0.82	14000	1.3	2260	55000	
F 90 4_1937	1937	1.4	14000	2.3	—	55000	0.72	14000	1.2	2300	55000	
F 90 4_2099	2099	1.3	14000	2.2	—	55000	0.67	14000	1.1	2300	55000	

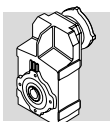
(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



F 90

14000 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 90 3_10.3	10.3	87	9150	90	10000	33400	49	9600	53	15000	41900	499
F 90 3_11.1	11.1	81	10050	92	9780	32700	45	10400	53	15000	41600	
F 90 3_13.4	13.4	67	10600	80	9270	35100	37	12500	53	12700	42100	
F 90 3_14.5	14.5	62	11400	80	9390	34600	34	13550	53	12700	41400	
F 90 3_16.5	16.5	55	11750	72	8890	36600	30	12300	42	14600	46400	
F 90 3_17.9	17.9	50	12550	71	9140	36200	27.9	13150	41	14800	46200	
F 90 3_20.6	20.6	44	12200	60	9100	39700	24.3	12200	33	15000	51000	
F 90 3_22.3	22.3	40	13200	60	9120	39000	22.4	13200	33	15000	50700	
F 90 3_25.4	25.4	35	12000	48	10400	43800	19.7	12000	27	15000	55000	
F 90 3_28.6	28.6	31	13700	49	14400	43400	17.5	14000	28	15000	55000	
F 90 3_31.0	31.0	29.0	14000	46	14500	44000	16.1	14000	26	15000	55000	
F 90 3_37.4	37.4	24.1	14000	38	14700	48400	13.4	14000	21	15000	55000	
F 90 3_40.5	40.5	22.2	14000	35	14800	49600	12.3	14000	19.5	15000	55000	
F 90 3_46.1	46.1	19.5	14000	31	14900	53000	10.8	14000	17.2	15000	55000	
F 90 3_49.9	49.9	18.0	14000	29	15000	54200	10.0	14000	15.8	15000	55000	
F 90 3_57.3	57.3	15.7	14000	25	15000	55000	8.7	14000	13.8	15000	55000	
F 90 3_62.1	62.1	14.5	14000	23	15000	55000	8.1	14000	12.7	15000	55000	
F 90 3_70.8	70.8	12.7	14000	20	15000	55000	7.1	14000	11.2	15000	55000	
F 90 3_76.7	76.7	11.7	14000	18.6	15000	55000	6.5	14000	10.3	15000	55000	
F 90 3_88.4	88.4	10.2	14000	16.1	15000	55000	5.7	14000	8.9	15000	55000	
F 90 3_95.8	95.8	9.4	14000	14.9	15000	55000	5.2	14000	8.3	15000	55000	
F 90 3_103.3	103.3	8.7	14000	13.8	15000	55000	4.8	14000	7.7	15000	55000	
F 90 3_111.9	111.9	8.0	14000	12.7	15000	55000	4.5	14000	7.1	15000	55000	
F 90 3_126.8	126.8	7.1	14000	11.2	15000	55000	3.9	14000	6.2	15000	55000	
F 90 3_137.3	137.3	6.6	14000	10.4	15000	55000	3.6	14000	5.8	15000	55000	
F 90 3_150.3	150.3	6.0	14000	9.5	15000	55000	3.3	14000	5.3	15000	55000	
F 90 3_162.8	162.8	5.5	14000	8.7	15000	55000	3.1	14000	4.9	15000	55000	
F 90 3_179.2	179.2	5.0	14000	7.9	15000	55000	2.8	14000	4.4	15000	55000	
F 90 3_194.2	194.2	4.6	14000	7.3	15000	55000	2.6	14000	4.1	15000	55000	
F 90 4_213.6	213.6	4.2	14000	6.8	810	55000	2.3	14000	3.8	2350	55000	
F 90 4_231.4	231.4	3.9	14000	6.3	810	55000	2.2	14000	3.5	2350	55000	
F 90 4_268.7	268.7	3.3	14000	5.4	1390	55000	1.9	14000	3.0	2920	55000	
F 90 4_291.1	291.1	3.1	14000	5.0	1390	55000	1.7	14000	2.8	2920	55000	
F 90 4_361.8	361.8	2.5	14000	4.0	1960	55000	1.4	14000	2.2	3390	55000	
F 90 4_392.0	392.0	2.3	14000	3.7	1960	55000	1.3	14000	2.1	3390	55000	
F 90 4_457.5	457.5	2.0	14000	3.2	2360	55000	1.1	14000	1.8	3490	55000	
F 90 4_495.6	495.6	1.8	14000	2.9	2360	55000	1.0	14000	1.6	3490	55000	
F 90 4_577.5	577.5	1.6	14000	2.5	2570	55000	0.87	14000	1.4	3500	55000	
F 90 4_625.6	625.6	1.4	14000	2.3	2570	55000	0.80	14000	1.3	3500	55000	
F 90 4_714.0	714.0	1.3	14000	2.0	2770	55000	0.70	14000	1.1	3500	55000	
F 90 4_773.4	773.4	1.2	14000	1.9	2770	55000	0.65	14000	1.0	3500	55000	
F 90 4_910.2	910.2	0.99	14000	1.6	2840	55000	0.55	14000	0.89	3500	55000	
F 90 4_986.0	986.0	0.91	14000	1.5	2840	55000	0.51	14000	0.82	3500	55000	
F 90 4_1112	1112	0.81	14000	1.3	2860	55000	0.45	14000	0.73	3500	55000	
F 90 4_1205	1205	0.75	14000	1.2	2860	55000	0.41	14000	0.67	3500	55000	
F 90 4_1318	1318	0.68	14000	1.1	2890	55000	0.38	14000	0.62	3500	55000	
F 90 4_1428	1428	0.63	14000	1.0	2890	55000	0.35	14000	0.57	3500	55000	
F 90 4_1571	1571	0.57	14000	0.93	2900	55000	0.32	14000	0.52	3500	55000	
F 90 4_1702	1702	0.53	14000	0.86	2900	55000	0.29	14000	0.48	3500	55000	
F 90 4_1937	1937	0.46	14000	0.75	2910	55000	0.26	14000	0.42	3500	55000	
F 90 4_2099	2099	0.43	14000	0.70	2910	55000	0.24	14000	0.39	3500	55000	



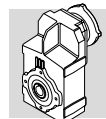
62 PREDISPOSITIONS MOTEUR

Dans les tableaux suivants sont indiqués les accouplements possibles en termes de dimensions.

Le choix le plus approprié de motoréducteur à utiliser, doit être effectué selon les indications du paragraphe 12, ainsi qu'en fonction des tableaux de sélection, en respectant en particulier la condition $S \geq f_s$.

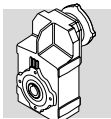
(D 56)

		IEC_     (IM B5)																							
		BN	BE	BX	BXN	BN	BE	BX	BXN	BN	BE	BX	BXN	BN	BE	BX	BXN	BN	BE	BX	BXN	BN	BE	BX	BXN
P _{n1} (#) [kW]	2p	0.37	—	—	—	0.75	—	—	—	1.5	1.1	—	—	2.2	2.2	—	—	4	3	—	—	4	4	—	—
	4p	0.25	0.18	0.25	0.18	0.55	0.37	0.37	0.37	1.1	0.75	0.75	0.75	1.85	1.5	1.5	1.5	3	3	3	3	4	4	4	4
	6p	0.12	—	—	—	0.37	—	—	—	0.75	—	—	—	1.1	0.75	—	—	1.85	1.5	—	—	2.2	2.2	—	—
		P63				P71				P80				P90				P100				P112			
F 10 2		7.4_127.1								7.4_91.5				7.4_91.5											
F 20 2		8.7_132.2 ☯ (14.8_18.1)								6.4_114.3				6.4_114.3				6.4_114.3							
F 20 3		156.3_545.3								156.3_545.3				156.3_545.3											
F 25 2		9.4_44.4 ☯ (10.6_13.0)								6.9_44.4				6.9_44.4				6.9_44.4							
F 25 3		50.8_333.1								45.6_288.1				45.6_288.1				45.6_288.1							
F 25 4		393.9_1374								393.9_1374				393.9_1374				393.9_1374							
F 31 2		18.5_44.6								6.9_44.6				6.9_44.6				6.9_44.6							
F 31 3		69.1_374.4								47.5_374.4				47.5_374.4				47.5_374.4							
F 31 4		418.9_1539								418.9_1539				418.9_1539				418.9_1539							
F 41 2		24.1_47.9								6.7_47.9				6.7_47.9				6.7_47.9							
F 41 3		84.9_344.8								51.5_344.8				51.5_344.8				51.5_344.8							
F 41 4	i =	433.7_1411								433.7_1411				433.7_1411				433.7_1411							
F 51 2		30.0_37.1								7.2_37.1				7.2_37.1				7.2_37.1							
F 51 3		105.1_352.5								48.9_352.5				48.9_352.5				48.9_352.5							
F 51 4		429.1_1439								429.1_1439				429.1_1439				429.1_1439							
F 60 3		98.2_280.7								11.8_280.7 ☯ (29.6_32.1)				11.8_280.7 ☯ (29.6_32.1)				11.8_280.7 ☯ (29.6_32.1)							
F 60 4		315.4_1141								315.4_1141				315.4_1141				315.4_1141							
F 70 3										85.4_196.0				85.4_196.0				85.4_196.0							
F 70 4		372.5_2188								216.5_2188				216.5_2188				216.5_2188							
F 80 3										105.0_200.0				105.0_200.0				105.0_200.0							
F 80 4		451.5_1987								218.5_1987				218.5_1987				218.5_1987							
F 90 3										126.8_194.2				126.8_194.2				126.8_194.2							
F 90 4		577.5_2099								213.6_2099				213.6_2099				213.6_2099							



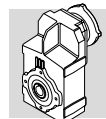
		IEC_     (IM B5)													
		BN	BE	BX	BXN	BN	BE	BX	BN	BE	BX	BN	BX	BX	BX
P _{n1} (#) [kW]	2p	9.2	9.2	—	—	18.5	18.5	—	22	—	—	30	—	—	—
	4p	9.2	9.2	7.5	7.5	15	15	15	22	22	22	30	30	45	55
	6p	5.5	4	—	—	11	7.5	—	15	—	—	18.5	—	—	—
		P132				P160			P180			P200		P225	P250
F 10 2	i =														
F 20 2															
F 20 3															
F 25 2															
F 25 3															
F 25 4															
F 31 2		6.9_37.7													
F 31 3		47.5_140.7													
F 31 4															
F 41 2		6.7_47.9													
F 41 3		51.5_168.7													
F 41 4															
F 51 2		7.2_37.1				7.2_37.1			7.2_37.1						
F 51 3		48.9_202.4				48.9_202.4			48.9_202.4						
F 51 4															
F 60 3		9.0_201.4				9.0_201.4			9.0_201.4						
F 60 4															
F 70 3		16.3_196.0 ☹ (27.7_38.4)				10.0_196.0			10.0_196.0			10.0_49.0 ☹ (20.9_24.6)			
F 70 4		216.5_822.2													
F 80 3		20.3_200.0 ☹ (28.8_49.1)				12.9_200.0 ☹ (28.8_31.3)			10.3_200.0			10.3_132.7		10.3_132.7	
F 80 4		218.5_972.0													
F 90 3		25.4_194.2 ☹ (28.6_62.1)				20.6_194.2 ☹ (28.6_49.9)			10.3_194.2			10.3_162.8		10.3_162.8	10.3_162.8
F 90 4		213.6_1205				213.6_1205			213.6_1205						

(#) P_{n1} = puissance maximum installable en entrée P_



(D 57)

		<div>   </div>						
		M05 - ME05 - MXN05	M1 - M1 - MXN10	ME2 - MX2 - MXN20	ME3 - MX3	ME4 - MX4	ME5 - MX5	
F 10 2	i =	7.4_127.1	7.4_71.1	7.4_91.5	7.4_91.5			
F 20 2		8.7_132.2 ☹ (14.8_18.1)	8.7_90.4 ☹ (14.8_18.1)	6.4_114.3	6.4_114.3			
F 20 3		156.3_545.3	156.3_545.3	156.3_545.3	156.3_545.3			
F 25 2		9.4_44.4 ☹ (10.6_13.0)	9.4_44.4 ☹ (10.6_13.0)	6.9_44.4	6.9_44.4			
F 25 3		50.8_333.1	50.8_227.8	45.6_288.1	45.6_288.1			
F 25 4		393.9_1374	393.9_1374	393.9_1374	393.9_1374			
F 31 2			18.5_44.6	6.9_44.6	6.9_44.6	6.9_37.7		
F 31 3			69.1_293.8	47.5_374.4	47.5_374.4	47.5_140.7		
F 31 4			418.9_1539	418.9_1539	418.9_1539			
F 41 2				24.1_47.9	6.7_47.9	6.7_47.9		
F 41 3				84.9_344.8	51.5_344.8	51.5_344.8	51.5_168.7	
F 41 4			433.7_1411	433.7_1411	433.7_1411			
F 51 2				30.0_37.1	7.2_37.1	7.2_37.1	7.2_37.1	
F 51 3				105.1_352.5	48.9_352.5	48.9_352.5	48.9_202.4	
F 51 4				429.1_1439	429.1_1439			
F 60 3					11.8_280.7 ☹ (29.6_32.1)	11.8_280.7 ☹ (29.6_32.1)	9_201.4	9_201.4
F 60 4				315.4_1141	315.4_1141			
F 70 3					85.4_196.0	85.4_196.0 ☹ (27.7_38.4)	16.3_196.0 ☹ (27.7_38.4)	
F 70 4				372.5_2188	216.5_2188	216.5_2188		
F 80 3						105.0_200.0 ☹ (28.8_49.1)	20.3_200.0 ☹ (28.8_49.1)	
F 80 4			451.5_1987	218.5_1987	218.5_1987	218.5_972.0		
F 90 3					126.8_194.2 ☹ (28.6_62.1)	25.4_194.2 ☹ (28.6_62.1)		
F 90 4				213.6_2099	213.6_2099	213.6_1205		



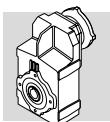
Sont disponibles des prédispositions pour l'accouplement des réducteurs F 10 ... F 60 avec les servomoteurs les plus répandus. Les dimensions des brides sont indiquées dans les pages des dimensions de chaque réducteur. Le code **SK** indique un arbre d'entrée muni d'une rainure de clavette ; le code **SC** indique un arbre d'entrée muni d'une frette de serrage (fournie).

(D 58)

		SERVO INPUT							
		SK60A	SK60B	SK80A	SK80B	SK80C	SK95A	SK95B	SK95C
		SC60A	SC60B	SC80A	SC80B	SC80C	SC95A	SC95B	SC95C
F 10 2	i =	7.4_127.1	7.4_71.1	7.4_71.1		7.4_91.5	7.4_71.1	7.4_91.5	7.4_91.5
F 20 2		8.7_132.2 ⊖(14.8_18.1)	8.7_90.4 ⊖(14.8_18.1)	8.7_90.4 ⊖(14.8_18.1)		6.4_114.3	8.7_90.4 ⊖(14.8_18.1)	6.4_114.3	6.4_114.3
F 20 3		156.3_545.3	156.3_545.3	156.3_545.3		156.3_545.3	156.3_545.3	156.3_545.3	156.3_545.3
F 25 2		9.4_44.4 ⊖(10.6_13.0)	9.4_44.4 ⊖(10.6_13.0)	9.4_44.4 ⊖(10.6_13.0)		6.9_44.4	9.4_44.4 ⊖(10.6_13.0)	6.9_44.4	6.9_44.4
F 25 3		45.6_333.1	45.6_227.8	45.6_227.8		45.6_288.1	45.6_227.8	45.6_288.1	45.6_288.1
F 25 4		393.9_1374	393.9_1374	393.9_1374		393.9_1374	393.9_1374	393.9_1374	393.9_1374
F 31 2		18.5_44.6	18.5_44.6	18.5_44.6		6.9_44.6	18.5_44.6	6.9_44.6	6.9_44.6
F 31 3		69.1_374.4	69.1_293.8	69.1_293.8		47.5_374.4	69.1_293.8	47.5_374.4	47.5_374.4
F 31 4		418.9_1539	418.9_1539	418.9_1539		418.9_1539	418.9_1539	418.9_1539	418.9_1539
F 41 2					24.1_47.9	6.7_47.9	24.1_47.9	6.7_47.9	6.7_47.9
F 41 3					84.9_344.8	51.5_344.8	84.9_344.8	51.5_344.8	51.5_344.8
F 41 4		433.7_1411	433.7_1411	433.7_1411		433.7_1411	433.7_1411	433.7_1411	433.7_1411
F 51 2					30.0_37.1	7.2_37.1	30.0_37.1	7.2_37.1	7.2_37.1
F 51 3					105.1_352.5	48.9_352.5	105.1_352.5	48.9_352.5	48.9_352.5
F 51 4						429.1_1439	429.1_1439	429.1_1439	429.1_1439
F 60 3						11.8_280.7 ⊖(29.6_32.1)	106.4_280.7	11.8_280.7 ⊖(29.6_32.1)	11.8_280.7 ⊖(29.6_32.1)
F 60 4					315.4_1141	315.4_1141	315.4_1141	315.4_1141	315.4_1141

(D 59)

		SERVO INPUT					
		SK110A	SK110B	SK130A	SK130B	SK180A	SK180B
		SC110A	SC110B	SC130A	SC130B	SC180A	SC180B
F 10 2	i =	7.4_91.5	7.4_91.5				
F 20 2		6.4_114.3	6.4_114.3				
F 20 3		156.3_545.3	156.3_545.3				
F 25 2		6.9_44.4	6.9_44.4				
F 25 3		45.6_288.1	45.6_288.1				
F 25 4		393.9_1374	393.9_1374				
F 31 2		6.9_44.6	6.9_44.6	6.9_44.6			
F 31 3		47.5_374.4	47.5_374.4	47.5_374.4			
F 31 4		418.9_1539	418.9_1539				
F 41 2		6.7_47.9	6.7_47.9	6.7_47.9	6.7_47.9	6.7_47.9	6.7_47.9
F 41 3		51.5_344.8	51.5_344.8	51.5_344.8	51.5_168.7	51.5_168.7	51.5_168.7
F 41 4		433.7_1411	433.7_1411				
F 51 2		7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1
F 51 3		48.9_352.5	48.9_352.5	48.9_352.5	48.9_202.4	48.9_202.4	48.9_202.4
F 51 4		429.1_1439	429.1_1439	429.1_1439			
F 60 3		11.8_280.7 ⊖ (29.6_32.1)	11.8_280.7 ⊖ (29.6_32.1)	11.8_280.7 ⊖ (29.6_32.1)	9.0_201.4	9.0_201.4	9.0_201.4
F 60 4		315.4_1141	315.4_1141	315.4_1141			



63 MOMENT D'INERTIE

Les tableaux suivants indiquent les valeurs du moment d'inertie J_r [kgm²] au niveau de l'arbre rapide du réducteur ; pour une plus grande facilité de lecture, nous vous prions de noter les définitions des symboles employés.



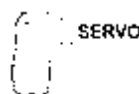
Les valeurs liées à ces symboles sont à assigner au réducteur compact sans moteur. Dans ce cas, afin d'avoir le moment d'inertie total du motoréducteur, on devra additionner la valeur correspondant au réducteur compact, à celle du moteur à assembler (donnée que l'on peut repérer dans les tableaux des caractéristiques techniques des moteurs électriques).



Les valeurs liées à ces symboles sont à assigner au réducteur prédisposé pour accouplement moteur seulement (taille IEC...).



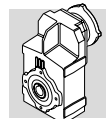
Les valeurs liées au réducteur sont assignées à ce symbole



Les valeurs liées à ces symboles sont à assigner au réducteur prédisposé pour liaison a servomoteur.

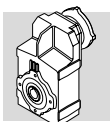
F 10

	i	J (•10 ⁻⁴) [kgm ²]							
			63	71	80	90	100	112	
F 10 2_7.4	7.4	1.0	1.8	1.8	3.8	3.7	4.9	4.9	1.7
F 10 2_8.6	8.6	0.77	1.5	1.5	3.6	3.5	4.7	4.7	1.5
F 10 2_9.8	9.8	0.64	1.4	1.4	3.4	3.3	4.5	4.5	1.3
F 10 2_11.5	11.5	0.48	1.2	1.2	3.3	3.2	4.4	4.4	1.2
F 10 2_13.0	13.0	0.38	1.1	1.1	3.2	3.1	4.3	4.3	1.1
F 10 2_14.6	14.6	0.61	1.4	1.4	3.4	3.3	4.5	4.5	1.3
F 10 2_17.0	17.0	0.48	1.3	1.2	3.3	3.2	4.4	4.4	1.2
F 10 2_19.3	19.3	0.41	1.2	1.2	3.2	3.1	4.3	4.3	1.1
F 10 2_22.8	22.8	0.32	1.1	1.1	3.1	3.0	4.2	4.2	1.0
F 10 2_25.8	25.8	0.25	1.0	1.0	3.1	2.9	4.1	4.1	0.93
F 10 2_29.6	29.6	0.19	1.0	0.95	3.0	2.9	4.1	4.1	0.87
F 10 2_33.0	33.0	0.16	0.93	0.92	3.0	2.8	4.1	4.1	0.84
F 10 2_35.3	35.3	0.14	0.92	0.90	3.0	2.8	4.0	4.0	0.83
F 10 2_39.6	39.6	0.12	0.90	0.88	2.9	2.8	4.0	4.0	0.80
F 10 2_44.7	44.7	0.10	0.88	0.86	2.9	2.8	4.0	4.0	0.79
F 10 2_48.7	48.7	0.09	0.86	0.85	2.9	2.8	4.0	4.0	0.77
F 10 2_56.7	56.7	0.07	0.84	0.83	2.9	2.7	4.0	4.0	0.75
F 10 2_63.0	63.0	0.06	0.83	0.82	2.9	2.7	3.9	3.9	0.74
F 10 2_71.1	71.1	0.05	0.82	0.81	2.8	2.7	3.9	3.9	0.73
F 10 2_81.3	81.3	0.04	0.78	0.77	2.8	2.7	3.9	3.9	0.67
F 10 2_91.5	91.5	0.03	0.78	0.76	2.8	2.7	3.9	3.9	0.66
F 10 2_106.0	106.0	0.03	0.77	0.76	—	—	—	—	0.66
F 10 2_127.1	127.1	0.02	0.76	0.75	—	—	—	—	0.65



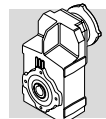
F 10

	i	J (•10 ⁻⁴) [kgm ²]									
		SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 10 2_7.4	7.4	1.3	1.5	1.3	1.7	3.8	4.3	3.8	4.3	3.7	4.7
F 10 2_8.6	8.6	1.0	1.3	1.1	1.5	3.6	4.0	3.6	4.1	3.5	4.5
F 10 2_9.8	9.8	0.91	1.2	0.93	1.4	3.5	3.9	3.4	3.9	3.3	4.3
F 10 2_11.5	11.5	0.75	1.0	0.77	1.2	3.3	3.7	3.3	3.8	3.2	4.2
F 10 2_13.0	13.0	0.65	0.91	0.67	1.1	3.2	3.6	3.2	3.7	3.1	4.1
F 10 2_14.6	14.6	0.88	1.1	0.91	1.3	3.4	3.9	3.4	3.9	3.3	4.3
F 10 2_17.0	17.0	0.75	1.0	0.77	1.2	3.3	3.7	3.3	3.8	3.2	4.2
F 10 2_19.3	19.3	0.68	0.94	0.70	1.1	3.2	3.7	3.2	3.7	3.1	4.1
F 10 2_22.8	22.8	0.59	0.85	0.61	1.0	3.1	3.6	3.1	3.6	3.0	4.0
F 10 2_25.8	25.8	0.52	0.78	0.54	0.98	3.1	3.5	3.1	3.6	2.9	3.9
F 10 2_29.6	29.6	0.46	0.72	0.48	0.92	3.0	3.4	3.0	3.5	2.9	3.9
F 10 2_33.0	33.0	0.43	0.69	0.45	0.89	3.0	3.4	3.0	3.5	2.8	3.8
F 10 2_35.3	35.3	0.41	0.67	0.43	0.87	3.0	3.4	3.0	3.5	2.8	3.8
F 10 2_39.6	39.6	0.39	0.65	0.41	0.85	2.9	3.3	2.9	3.4	2.8	3.8
F 10 2_44.7	44.7	0.37	0.63	0.39	0.83	2.9	3.4	2.9	3.4	2.8	3.8
F 10 2_48.7	48.7	0.36	0.62	0.38	0.82	2.9	3.3	2.9	3.4	2.8	3.8
F 10 2_56.7	56.7	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7
F 10 2_63.0	63.0	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.7	3.7
F 10 2_71.1	71.1	0.32	0.58	0.34	0.78	2.9	3.3	2.8	3.3	2.7	3.7
F 10 2_81.3	81.3	0.31	0.57	—	—	—	—	2.8	3.3	2.7	3.7
F 10 2_91.5	91.5	0.30	0.56	—	—	—	—	2.8	3.3	2.7	3.7
F 10 2_106.0	106.0	0.30	0.56	—	—	—	—	—	—	—	—
F 10 2_127.1	127.1	0.29	0.55	—	—	—	—	—	—	—	—



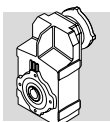
F 20

	i	J ($\cdot 10^{-4}$) [kgm ²]							
			IEC						
			63	71	80	90	100	112	
F 20 2_6.4	6.4	2.2	—	—	5.0	4.8	6.0	6.0	3.9
F 20 2_7.8	7.8	1.5	—	—	4.3	4.2	5.4	5.4	3.3
F 20 2_8.7	8.7	1.3	2.0	2.0	4.1	3.9	5.2	5.2	3.0
F 20 2_10.0	10.0	1.0	1.8	1.7	3.8	3.7	4.9	4.9	2.7
F 20 2_11.2	11.2	0.88	1.6	1.6	3.6	3.5	4.7	4.7	2.6
F 20 2_14.8	14.8	1.2	—	—	4.0	3.9	5.1	5.1	2.9
F 20 2_18.1	18.1	0.90	—	—	3.7	3.5	4.7	4.7	2.6
F 20 2_20.2	20.2	0.78	1.5	1.5	3.5	3.4	4.6	4.6	2.5
F 20 2_23.1	23.1	0.64	1.4	1.3	3.4	3.3	4.5	4.5	2.4
F 20 2_25.9	25.9	0.57	1.3	1.3	3.3	3.2	4.4	4.4	2.3
F 20 2_30.4	30.4	0.41	1.1	1.1	3.2	3.0	4.3	4.3	2.1
F 20 2_33.1	33.1	0.36	1.1	1.1	3.1	3.0	4.2	4.2	2.1
F 20 2_37.9	37.9	0.30	1.0	1.0	3.1	2.9	4.1	4.1	2.0
F 20 2_41.8	41.8	0.27	1.0	1.0	3.0	2.9	4.1	4.1	2.0
F 20 2_44.8	44.8	0.24	1.0	1.0	3.0	2.9	4.1	4.1	2.0
F 20 2_50.7	50.7	0.21	0.93	0.92	3.0	2.8	4.1	4.1	1.9
F 20 2_56.7	56.7	0.18	0.91	0.90	2.9	2.8	4.0	4.0	1.9
F 20 2_61.9	61.9	0.16	0.89	0.88	2.9	2.8	4.0	4.0	1.9
F 20 2_69.1	69.1	0.14	0.87	0.86	2.9	2.8	4.0	4.0	1.8
F 20 2_76.8	76.8	0.12	0.86	0.85	2.9	2.8	4.0	4.0	1.8
F 20 2_90.4	90.4	0.10	0.84	0.82	2.9	2.7	3.9	3.9	1.8
F 20 2_101.6	101.6	0.09	0.80	0.79	2.8	2.7	3.9	3.9	1.8
F 20 2_114.3	114.3	0.08	0.79	0.77	2.8	2.7	3.9	3.9	1.8
F 20 2_132.2	132.2	0.03	0.78	0.77	—	—	—	—	1.8
F 20 3_156.3	156.3	0.04	0.81	0.80	2.8	2.7	3.9	3.9	0.72
F 20 3_172.6	172.6	0.04	0.81	0.80	2.8	2.7	3.9	3.9	0.72
F 20 3_184.9	184.9	0.04	0.81	0.80	2.8	2.7	3.9	3.9	0.72
F 20 3_209.3	209.3	0.03	0.81	0.79	2.8	2.7	3.9	3.9	0.72
F 20 3_234.0	234.0	0.03	0.81	0.79	2.8	2.7	3.9	3.9	0.71
F 20 3_255.3	255.3	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.71
F 20 3_285.2	285.2	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.71
F 20 3_316.9	316.9	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.71
F 20 3_372.9	372.9	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.71
F 20 3_419.3	419.3	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.66
F 20 3_471.7	471.7	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.66
F 20 3_545.3	545.3	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.66



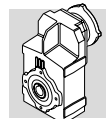
F 20

	i	J ($\cdot 10^{-4}$) [kgm ²]									
		SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 20 2_6.4	6.4	—	—	—	—	—	—	5.0	5.5	4.8	5.8
F 20 2_7.8	7.8	—	—	—	—	—	—	4.3	4.8	4.2	5.2
F 20 2_8.7	8.7	1.6	1.8	1.6	2.0	4.1	4.6	4.1	4.6	3.9	4.9
F 20 2_10.0	10.0	1.3	1.5	1.3	1.7	3.8	4.3	3.8	4.3	3.7	4.7
F 20 2_11.2	11.2	1.2	1.4	1.2	1.6	3.7	4.1	3.6	4.1	3.5	4.5
F 20 2_14.8	14.8	—	—	—	—	—	—	4.0	4.5	3.9	4.9
F 20 2_18.1	18.1	—	—	—	—	—	—	3.7	4.2	3.5	4.5
F 20 2_20.2	20.2	1.1	1.3	1.1	1.5	3.6	4.0	3.5	4.0	3.4	4.4
F 20 2_23.1	23.1	0.91	1.2	0.93	1.4	3.5	3.9	3.4	3.9	3.3	4.3
F 20 2_25.9	25.9	0.84	1.1	0.86	1.3	3.4	3.8	3.3	3.8	3.2	4.2
F 20 2_30.4	30.4	0.68	0.94	0.70	1.1	3.2	3.7	3.2	3.7	3.0	4.0
F 20 2_33.1	33.1	0.63	0.89	0.65	1.1	3.2	3.6	3.1	3.6	3.0	4.0
F 20 2_37.9	37.9	0.47	0.83	0.59	1.0	3.1	3.6	3.1	3.6	2.9	3.9
F 20 2_41.8	41.8	0.44	0.80	0.56	1.0	3.1	3.5	3.0	3.5	2.9	3.9
F 20 2_44.8	44.8	0.41	0.77	0.53	0.97	3.1	3.5	3.0	3.5	2.9	3.9
F 20 2_50.7	50.7	0.48	0.74	0.50	0.94	3.0	3.5	3.0	3.5	2.8	3.8
F 20 2_56.7	56.7	0.45	0.71	0.47	0.91	3.0	3.4	2.9	3.4	2.8	3.8
F 20 2_61.9	61.9	0.43	0.69	0.45	0.89	3.0	3.4	2.9	3.4	2.8	3.8
F 20 2_69.1	69.1	0.41	0.67	0.43	0.87	3.0	3.4	2.9	3.4	2.8	3.8
F 20 2_76.8	76.8	0.39	0.65	0.41	0.85	2.9	3.4	2.9	3.4	2.8	3.8
F 20 2_90.4	90.4	0.37	0.63	0.39	0.83	2.9	3.4	2.9	3.4	2.7	3.7
F 20 2_101.6	101.6	0.36	0.62	—	—	—	—	2.8	3.3	2.7	3.7
F 20 2_114.3	114.3	0.35	0.61	—	—	—	—	2.8	3.3	2.7	3.7
F 20 2_132.2	132.2	0.30	0.56	—	—	—	—	—	—	—	—
F 20 3_156.3	156.3	0.31	0.57	0.33	0.77	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_172.6	172.6	0.31	0.57	0.33	0.77	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_184.9	184.9	0.31	0.57	0.33	0.77	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_209.3	209.3	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_234.0	234.0	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_255.3	255.3	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_285.2	285.2	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_316.9	316.9	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_372.9	372.9	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_419.3	419.3	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_471.7	471.7	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_545.3	545.3	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7



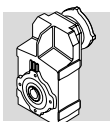
F 25

	i	J (•10 ⁻⁴) [kgm ²]							
			63	71	80	90	100	112	
F 25 2_6.9	6.9	2.7	—	—	5.4	5.3	6.5	6.5	4.4
F 25 2_8.4	8.4	1.9	—	—	4.6	4.5	5.7	5.7	3.6
F 25 2_9.4	9.4	1.6	2.3	2.3	4.3	4.2	5.4	5.4	3.3
F 25 2_10.6	10.6	1.9	—	—	4.6	4.5	5.7	5.7	3.6
F 25 2_13.0	13.0	1.3	—	—	4.1	4.0	5.2	5.2	3.0
F 25 2_14.5	14.5	1.1	1.8	1.8	3.9	3.8	5.0	5.0	2.8
F 25 2_16.6	16.6	0.90	1.6	1.6	3.7	3.5	4.7	4.7	2.6
F 25 2_18.6	18.6	0.77	1.5	1.5	3.5	3.4	4.6	4.6	2.5
F 25 2_21.8	21.8	0.57	1.3	1.3	3.3	3.2	4.4	4.4	2.3
F 25 2_23.8	23.8	0.48	1.2	1.2	3.2	3.1	4.3	4.3	2.2
F 25 2_27.2	27.2	0.40	1.1	1.1	3.2	3.0	4.2	4.2	2.1
F 25 2_30.0	30.0	0.35	1.1	1.1	3.1	3.0	4.2	4.2	2.1
F 25 2_32.2	32.2	0.31	1.0	1.0	3.1	2.9	4.2	4.2	2.0
F 25 2_36.4	36.4	0.26	1.0	1.0	3.0	2.9	4.1	4.1	2.0
F 25 2_40.7	40.7	0.22	1.0	0.94	3.0	2.9	4.1	4.1	1.9
F 25 2_44.4	44.4	0.20	0.93	0.92	3.0	2.8	4.0	4.0	1.9
F 25 3_45.6	45.6	0.79	—	—	3.6	3.4	4.6	4.6	2.5
F 25 3_50.8	50.8	0.70	1.4	1.4	3.5	3.3	4.5	4.5	2.4
F 25 3_58.3	58.3	0.58	1.3	1.3	3.3	3.2	4.4	4.4	2.3
F 25 3_65.3	65.3	0.52	1.2	1.2	3.3	3.1	4.4	4.4	2.2
F 25 3_76.6	76.6	0.38	1.1	1.1	3.1	3.0	4.2	4.2	2.1
F 25 3_83.4	83.4	0.32	1.0	1.0	3.1	3.0	4.2	4.2	2.0
F 25 3_95.5	95.5	0.28	1.0	1.0	3.0	2.9	4.1	4.1	2.0
F 25 3_105.4	105.4	0.25	1.0	1.0	3.0	2.9	4.1	4.1	2.0
F 25 3_113.0	113.0	0.23	0.95	0.94	3.0	2.9	4.1	4.1	1.9
F 25 3_127.8	127.8	0.20	0.92	0.91	3.0	2.8	4.0	4.0	1.9
F 25 3_143.0	143.0	0.17	0.90	0.89	2.9	2.8	4.0	4.0	1.9
F 25 3_155.9	155.9	0.15	0.88	0.87	2.9	2.8	4.0	4.0	1.9
F 25 3_174.2	174.2	0.13	0.87	0.86	2.9	2.8	4.0	4.0	1.8
F 25 3_193.6	193.6	0.12	0.85	0.84	2.9	2.7	4.0	4.0	1.8
F 25 3_227.8	227.8	0.10	0.83	0.82	2.9	2.7	3.9	3.9	1.8
F 25 3_256.1	256.1	0.09	0.79	0.78	2.8	2.7	3.9	3.9	1.8
F 25 3_288.1	288.1	0.08	0.78	0.77	2.8	2.7	3.9	3.9	1.8
F 25 3_333.1	333.1	0.03	0.78	0.76	—	—	—	—	1.8
F 25 4_393.9	393.9	0.02	0.80	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_434.9	434.9	0.02	0.79	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_466.0	466.0	0.02	0.79	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_527.3	527.3	0.02	0.79	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_589.7	589.7	0.02	0.79	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_643.3	643.3	0.02	0.79	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_718.7	718.7	0.02	0.79	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_798.5	798.5	0.01	0.79	0.77	2.8	2.7	3.9	3.9	0.70
F 25 4_939.8	939.8	0.01	0.79	0.77	2.8	2.7	3.9	3.9	0.69
F 25 4_1057	1057	0.01	0.79	0.77	2.8	2.7	3.9	3.9	0.64
F 25 4_1189	1189	0.01	0.78	0.77	2.8	2.7	3.9	3.9	0.64
F 25 4_1374	1374	0.01	0.78	0.77	2.8	2.7	3.9	3.9	0.64



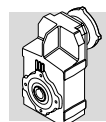
F 25

	i	J (•10 ⁻⁴) [kgm ²]									
		SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 25 2_6.9	6.9	—	—	—	—	—	—	5.4	5.9	5.3	6.3
F 25 2_8.4	8.4	—	—	—	—	—	—	4.6	5.1	4.5	5.5
F 25 2_9.4	9.4	1.9	2.1	1.9	2.3	4.4	4.9	4.3	4.8	4.2	5.2
F 25 2_10.6	10.6	—	—	—	—	—	—	4.6	5.1	4.5	5.5
F 25 2_13.0	13.0	—	—	—	—	—	—	4.1	4.6	4.0	5.0
F 25 2_14.5	14.5	1.4	1.6	1.4	1.8	3.9	4.4	3.9	4.4	3.8	4.8
F 25 2_16.6	16.6	1.2	1.4	1.2	1.6	3.7	4.2	3.7	4.2	3.5	4.5
F 25 2_18.6	18.6	1.0	1.3	1.1	1.5	3.6	4.0	3.5	4.0	3.4	4.4
F 25 2_21.8	21.8	0.84	1.1	0.86	1.3	3.4	3.8	3.3	3.8	3.2	4.2
F 25 2_23.8	23.8	0.75	1.0	0.77	1.2	3.3	3.7	3.2	3.7	3.1	4.1
F 25 2_27.2	27.2	0.67	0.93	0.69	1.1	3.2	3.7	3.2	3.7	3.0	4.0
F 25 2_30.0	30.0	0.62	0.88	0.64	1.1	3.2	3.6	3.1	3.6	3.0	4.0
F 25 2_32.2	32.2	0.58	0.84	1.4	1.8	3.1	3.6	3.1	3.6	2.9	3.9
F 25 2_36.4	36.4	0.53	0.79	0.55	0.99	3.1	3.5	3.0	3.5	2.9	3.9
F 25 2_40.7	40.7	0.49	0.75	0.51	0.95	3.0	3.5	3.0	3.5	2.9	3.9
F 25 2_44.4	44.4	0.47	0.73	0.49	0.93	3.0	3.5	3.0	3.5	2.8	3.8
F 25 3_45.6	45.6	1.1	1.3	1.1	1.5	3.6	4.0	3.6	4.1	3.4	4.4
F 25 3_50.8	50.8	0.97	1.2	0.99	1.4	3.5	4.0	3.5	4.0	3.3	4.3
F 25 3_58.3	58.3	0.85	1.1	0.87	1.3	3.4	3.8	3.3	3.8	3.2	4.2
F 25 3_65.3	65.3	0.79	1.1	0.84	1.2	3.3	3.8	3.3	3.8	3.1	4.1
F 25 3_76.6	76.6	0.65	0.91	0.67	1.1	3.2	3.6	3.1	3.6	3.0	4.0
F 25 3_83.4	83.4	0.59	0.85	0.61	1.0	3.1	3.6	3.1	3.6	3.0	4.0
F 25 3_95.5	95.5	0.55	0.81	0.57	1.0	3.1	3.5	3.0	3.5	2.9	3.9
F 25 3_105.4	105.4	0.52	0.78	0.54	0.98	3.1	3.5	3.0	3.5	2.9	3.9
F 25 3_113.0	113.0	0.50	0.76	0.52	0.96	3.1	3.5	3.0	3.5	2.9	3.9
F 25 3_127.8	127.8	0.47	0.73	0.49	0.93	3.0	3.5	3.0	3.5	2.8	3.8
F 25 3_143.0	143.0	0.44	0.70	0.46	0.90	3.0	3.4	2.9	3.4	2.8	3.8
F 25 3_155.9	155.9	0.42	0.68	0.44	0.88	3.0	3.4	2.9	3.4	2.8	3.8
F 25 3_174.2	174.2	0.40	0.66	0.42	0.86	3.0	3.4	2.9	3.4	2.8	3.8
F 25 3_193.6	193.6	0.39	0.65	0.41	0.85	2.9	3.4	2.9	3.4	2.7	3.7
F 25 3_227.8	227.8	0.37	0.63	0.39	0.83	2.9	3.4	2.9	3.4	2.7	3.7
F 25 3_256.1	256.1	0.36	0.62	—	—	—	—	2.8	3.3	2.7	3.7
F 25 3_288.1	288.1	0.35	0.61	—	—	—	—	2.8	3.3	2.7	3.7
F 25 3_333.1	333.1	0.30	0.56	—	—	—	—	—	—	—	—
F 25 4_393.9	393.9	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_434.9	434.9	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_466.0	466.0	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_527.3	527.3	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_589.7	589.7	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_643.3	643.3	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_718.7	718.7	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_798.5	798.5	0.28	0.54	0.30	0.74	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_939.8	939.8	0.28	0.54	0.30	0.74	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_1057	1057	0.28	0.54	0.30	0.74	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_1189	1189	0.28	0.54	0.30	0.74	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_1374	1374	0.28	0.54	0.30	0.74	2.8	3.3	2.8	3.3	2.7	3.7



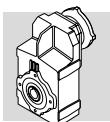
F 31

	i	J (•10-4) [kgm2]								
		63	71	80	90	100	112	132		
F 31 2_6.9	6.9	5.0	—	—	7.8	7.6	8.9	8.9	22	7.1
F 31 2_8.2	8.2	3.7	—	—	6.5	6.3	7.5	7.5	20	5.8
F 31 2_9.0	9.0	3.2	—	—	6.0	5.8	7.0	7.0	20	5.3
F 31 2_10.7	10.7	3.5	—	—	6.3	6.2	7.4	7.4	20	5.6
F 31 2_12.7	12.7	2.6	—	—	5.4	5.3	6.5	6.5	19	4.7
F 31 2_13.9	13.9	2.3	—	—	5.1	4.9	6.2	6.2	19	4.4
F 31 2_16.8	16.8	1.8	—	—	4.6	4.4	5.6	5.6	18	3.9
F 31 2_18.5	18.5	1.5	2.2	2.2	4.2	4.1	5.3	5.3	18	3.5
F 31 2_21.1	21.1	1.1	1.8	1.8	3.9	3.7	5.0	5.0	18	3.2
F 31 2_23.4	23.4	1.0	1.7	1.7	3.7	3.6	4.8	4.8	18	3.0
F 31 2_27.3	27.3	0.78	1.5	1.5	3.5	3.4	4.6	4.6	17	2.8
F 31 2_30.1	30.1	0.65	1.4	1.4	3.4	3.3	4.5	4.5	17	2.7
F 31 2_34.4	34.4	0.53	1.3	1.2	3.3	3.2	4.4	4.4	17	2.6
F 31 2_37.7	37.7	0.47	1.2	1.2	3.2	3.1	4.3	4.3	17	2.5
F 31 2_40.4	40.4	0.42	1.1	1.1	3.2	3.0	4.3	4.3	—	2.5
F 31 2_44.6	44.6	0.37	1.1	1.1	3.1	3.0	4.2	4.2	—	2.4
F 31 3_47.5	47.5	1.6	—	—	4.3	4.2	5.4	5.4	18	3.6
F 31 3_52.1	52.1	1.4	—	—	4.2	4.0	5.3	5.3	18	3.5
F 31 3_62.8	62.8	1.2	—	—	3.9	3.8	5.0	5.0	18	3.2
F 31 3_69.1	69.1	1.0	1.7	1.7	3.7	3.6	4.8	4.8	18	3.0
F 31 3_78.9	78.9	0.72	1.4	1.4	3.5	3.4	4.6	4.6	17	2.8
F 31 3_87.4	87.4	0.66	1.4	1.4	3.4	3.3	4.5	4.5	17	2.7
F 31 3_101.9	101.9	0.54	1.3	1.2	3.3	3.2	4.4	4.4	17	2.6
F 31 3_112.5	112.5	0.46	1.2	1.2	3.2	3.1	4.3	4.3	17	2.5
F 31 3_128.4	128.4	0.38	1.1	1.1	3.1	3.0	4.2	4.2	17	2.4
F 31 3_140.7	140.7	0.35	1.1	1.1	3.1	3.0	4.2	4.2	17	2.4
F 31 3_150.8	150.8	0.31	1.0	1.0	3.1	2.9	4.2	4.2	—	2.4
F 31 3_166.8	166.8	0.28	1.0	1.0	3.0	2.9	4.1	4.1	—	2.3
F 31 3_185.4	185.4	0.24	1.0	1.0	3.0	2.9	4.1	4.1	—	2.3
F 31 3_202.3	202.3	0.21	0.94	0.93	3.0	2.8	4.1	4.1	—	2.3
F 31 3_228.2	228.2	0.18	0.92	0.90	2.9	2.8	4.0	4.0	—	2.2
F 31 3_253.6	253.6	0.16	0.89	0.88	2.9	2.8	4.0	4.0	—	2.2
F 31 3_293.8	293.8	0.13	0.86	0.85	2.9	2.8	4.0	4.0	—	2.2
F 31 3_332.8	332.8	0.11	0.82	0.81	2.9	2.7	4.0	4.0	—	2.2
F 31 3_374.4	374.4	0.10	0.81	0.79	2.9	2.7	3.9	3.9	—	2.2
F 31 4_418.9	418.9	0.09	0.86	0.85	2.9	2.8	3.9	3.9	—	0.77
F 31 4_462.6	462.6	0.08	0.86	0.84	2.9	2.7	3.9	3.9	—	0.77
F 31 4_527.8	527.8	0.08	0.85	0.84	2.9	2.7	3.9	3.9	—	0.76
F 31 4_578.6	578.6	0.08	0.85	0.84	2.9	2.7	3.9	3.9	—	0.76
F 31 4_619.9	619.9	0.07	0.85	0.83	2.9	2.7	3.9	3.9	—	0.76
F 31 4_685.6	685.6	0.07	0.85	0.83	2.9	2.7	3.9	3.9	—	0.76
F 31 4_762.3	762.3	0.07	0.84	0.83	2.9	2.7	3.9	3.9	—	0.75
F 31 4_831.6	831.6	0.07	0.84	0.83	2.9	2.7	3.9	3.9	—	0.75
F 31 4_938.2	938.2	0.07	0.84	0.83	2.9	2.7	3.9	3.9	—	0.75
F 31 4_1042	1042	0.07	0.84	0.83	2.9	2.7	3.9	3.9	—	0.75
F 31 4_1208	1208	0.06	0.84	0.82	2.9	2.7	3.9	3.9	—	0.75
F 31 4_1368	1368	0.06	0.84	0.82	2.9	2.7	3.9	3.9	—	0.75
F 31 4_1539	1539	0.06	0.84	0.82	2.9	2.7	3.9	3.9	—	0.75



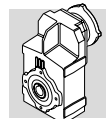
F 31

	i	J (•10 ⁻⁴) [kgm ²]											
		SERVO											
		60A		60B 80A		95A		80C 95B 110A		95C 110B		130A	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 31 2_6.9	6.9	—	—	—	—	—	—	7.8	8.3	7.6	8.6	7.6	8.6
F 31 2_8.2	8.2	—	—	—	—	—	—	6.5	7.0	6.3	7.3	6.3	7.3
F 31 2_9.0	9.0	—	—	—	—	—	—	6.0	6.5	5.8	6.8	5.8	6.8
F 31 2_10.7	10.7	—	—	—	—	—	—	6.3	6.8	6.2	7.2	6.2	7.2
F 31 2_12.7	12.7	—	—	—	—	—	—	5.4	5.9	5.3	6.3	5.3	6.3
F 31 2_13.9	13.9	—	—	—	—	—	—	5.1	5.6	4.9	5.9	4.9	5.9
F 31 2_16.8	16.8	—	—	—	—	—	—	4.6	5.1	4.4	5.4	4.4	5.4
F 31 2_18.5	18.5	1.8	2.0	1.8	2.2	4.3	4.8	4.2	4.7	4.1	5.1	4.1	5.1
F 31 2_21.1	21.1	1.4	1.6	1.4	1.8	3.9	4.3	3.9	4.4	3.7	4.7	3.7	4.7
F 31 2_23.4	23.4	1.3	1.5	1.3	1.7	3.8	4.3	3.7	4.2	3.6	4.6	3.6	4.6
F 31 2_27.3	27.3	1.1	1.3	1.1	1.5	3.6	4.0	3.5	4.0	3.4	4.4	3.4	4.4
F 31 2_30.1	30.1	0.92	1.2	0.94	1.4	3.5	3.9	3.4	3.9	3.3	4.3	3.3	4.3
F 31 2_34.4	34.4	0.80	1.1	0.82	1.3	3.4	3.8	3.3	3.8	3.2	4.2	3.2	4.2
F 31 2_37.7	37.7	0.74	1.0	0.76	1.2	3.3	3.7	3.2	3.7	3.1	4.1	3.1	4.1
F 31 2_40.4	40.4	0.69	0.95	0.71	1.1	3.2	3.7	3.2	3.7	3.0	4.0	3.0	4.0
F 31 2_44.6	44.6	0.64	0.90	0.66	1.1	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0
F 31 3_47.5	47.5	—	—	—	—	—	—	4.3	4.8	4.2	5.2	4.2	5.2
F 31 3_52.1	52.1	—	—	—	—	—	—	4.2	4.7	4.0	5.0	4.0	5.0
F 31 3_62.8	62.8	—	—	—	—	—	—	3.9	4.4	3.8	4.8	3.8	4.8
F 31 3_69.1	69.1	1.3	1.5	1.3	1.7	3.8	4.3	3.7	4.2	3.6	4.6	3.6	4.6
F 31 3_78.9	78.9	0.99	1.3	1.0	1.4	3.5	4.0	3.5	4.0	3.4	4.4	3.4	4.4
F 31 3_87.4	87.4	0.93	1.2	0.95	1.4	3.5	3.9	3.4	3.9	3.3	4.3	3.3	4.3
F 31 3_101.9	101.9	0.81	1.1	0.83	1.3	3.4	3.8	3.3	3.8	3.2	4.2	3.2	4.2
F 31 3_112.5	112.5	0.73	0.99	0.75	1.2	3.3	3.7	3.2	3.7	3.1	4.1	3.1	4.1
F 31 3_128.4	128.4	0.65	0.91	0.67	1.1	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0
F 31 3_140.7	140.7	0.62	0.88	0.64	1.1	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0
F 31 3_150.8	150.8	0.58	0.84	0.60	1.0	3.1	3.6	3.1	3.6	2.9	3.9	2.9	3.9
F 31 3_166.8	166.8	0.55	0.81	0.57	1.0	3.1	3.5	3.0	3.5	2.9	3.9	2.9	3.9
F 31 3_185.4	185.4	0.51	0.77	0.53	0.97	3.1	3.5	3.0	3.5	2.9	3.9	2.9	3.9
F 31 3_202.3	202.3	0.48	0.74	0.50	0.93	3.0	3.5	3.0	3.5	2.8	3.8	2.8	3.8
F 31 3_228.2	228.2	0.45	0.71	0.47	0.91	3.0	3.4	2.9	3.4	2.8	3.8	2.8	3.8
F 31 3_253.6	253.6	0.43	0.69	0.45	0.89	3.0	3.4	2.9	3.4	2.8	3.8	2.8	3.8
F 31 3_293.8	293.8	0.40	0.66	0.42	0.86	3.0	3.4	2.9	3.4	2.8	3.8	2.8	3.8
F 31 3_332.8	332.8	0.38	0.64	—	—	—	—	2.9	3.4	2.7	3.7	2.7	3.7
F 31 3_374.4	374.4	0.37	0.63	—	—	—	—	2.9	3.4	2.7	3.7	2.7	3.7
F 31 4_418.9	418.9	0.36	0.62	0.38	0.82	2.9	3.3	2.9	3.4	2.8	3.8	—	—
F 31 4_462.6	462.6	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_527.8	527.8	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_578.6	578.6	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_619.9	619.9	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_685.6	685.6	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_762.3	762.3	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_831.6	831.6	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_938.2	938.2	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_1042	1042	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_1208	1208	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_1368	1368	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_1539	1539	0.83	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.7	3.7	—	—



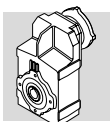
F 41

	i	J (•10-4) [kgm2]								
		63	71	80	90	100	112	132		
F 41 2_6.7	6.7	12	—	—	15	15	18	18	29	21
F 41 2_9.1	9.1	7.2	—	—	10	9.8	13	13	24	16
F 41 2_10.8	10.8	8.0	—	—	11	11	13	13	25	17
F 41 2_14.6	14.6	5.0	—	—	7.7	7.6	10	10	21	14
F 41 2_17.1	17.1	3.5	—	—	6.3	6.2	8.9	8.9	20	12
F 41 2_18.9	18.9	3.1	—	—	5.8	5.7	8.5	8.5	20	12
F 41 2_24.1	24.1	2.1	2.8	2.8	4.9	4.8	7.5	7.5	19	11
F 41 2_30.1	30.1	1.5	2.2	2.2	4.3	4.2	6.9	6.9	18	10
F 41 2_38.2	38.2	0.95	1.7	1.7	3.7	3.6	6.3	6.3	17	9.7
F 41 2_47.9	47.9	0.67	1.4	1.4	3.4	3.3	6.0	6.0	17	9.5
F 41 3_51.5	51.5	3.0	—	—	5.7	5.6	8.4	8.4	19	12
F 41 3_60.2	60.2	2.1	—	—	4.9	4.7	7.5	7.5	19	11
F 41 3_66.5	66.5	1.9	—	—	4.7	4.5	7.3	7.3	18	11
F 41 3_84.9	84.9	1.4	2.1	2.1	4.2	4.0	6.8	6.8	18	10
F 41 3_106.0	106.0	1.1	1.8	1.7	3.8	3.7	6.4	6.4	18	9.8
F 41 3_134.4	134.4	0.66	1.4	1.4	3.4	3.3	6.0	6.0	17	9.4
F 41 3_168.7	168.7	0.49	1.2	1.2	3.2	3.1	5.9	5.9	17	9.3
F 41 3_180.7	180.7	0.43	1.1	1.1	3.2	3.1	5.8	5.8	—	9.2
F 41 3_198.9	198.9	0.39	1.1	1.1	3.1	3.0	5.8	5.8	—	9.2
F 41 3_220.1	220.1	0.36	1.1	1.1	3.1	3.0	5.7	5.7	—	9.1
F 41 3_240.1	240.1	0.31	1.0	1.0	3.1	2.9	5.7	5.7	—	9.1
F 41 3_266.9	266.9	0.28	1.0	1.0	3.0	2.9	5.7	5.7	—	9.1
F 41 3_296.6	296.6	0.23	1.0	1.0	3.0	2.9	5.6	5.6	—	9.0
F 41 3_344.8	344.8	0.19	0.92	0.91	2.9	2.8	5.6	5.6	—	9.0
F 41 4_433.7	433.7	0.21	0.94	0.93	3.0	2.8	4.1	4.1	—	1.9
F 41 4_549.8	549.8	0.19	0.92	0.90	2.9	2.8	4.0	4.0	—	1.9
F 41 4_690.1	690.1	0.18	0.91	0.89	2.9	2.8	4.0	4.0	—	1.9
F 41 4_739.4	739.4	0.17	0.90	0.89	2.9	2.8	4.0	4.0	—	1.9
F 41 4_813.8	813.8	0.17	0.90	0.89	2.9	2.8	4.0	4.0	—	1.9
F 41 4_900.5	900.5	0.17	0.90	0.89	2.9	2.8	4.0	4.0	—	1.9
F 41 4_982.4	982.4	0.17	0.90	0.88	2.9	2.8	4.0	4.0	—	1.9
F 41 4_1092	1092	0.16	0.89	0.88	2.9	2.8	4.0	4.0	—	1.9
F 41 4_1213	1213	0.16	0.89	0.88	2.9	2.8	4.0	4.0	—	1.9
F 41 4_1411	1411	0.16	0.89	0.88	2.9	2.8	4.0	4.0	—	1.9



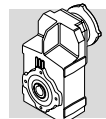
F 41

	i	J (•10 ⁻⁴) [kgm ²]																	
		SERVO																	
		60A		60B 80A		80B		95A		80C 95B 110A		95C 110B		130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 41 2_6.7	6.7	—	—	—	—	—	—	—	—	15	16	15	16	15	16	29	31	29	34
F 41 2_9.1	9.1	—	—	—	—	—	—	—	—	10	11	9.8	11	9.8	11	24	27	24	29
F 41 2_10.8	10.8	—	—	—	—	—	—	—	—	11	12	11	12	11	12	25	27	25	30
F 41 2_14.6	14.6	—	—	—	—	—	—	—	—	7.7	8.2	7.6	8.6	7.6	8.6	22	24	21	26
F 41 2_17.1	17.1	—	—	—	—	—	—	—	—	6.3	6.8	6.2	7.2	6.2	7.2	20	23	20	25
F 41 2_18.9	18.9	—	—	—	—	—	—	—	—	5.8	6.3	5.7	6.7	5.7	6.7	20	23	20	25
F 41 2_24.1	24.1	—	—	—	—	4.9	5.4	4.9	5.4	4.9	5.4	4.8	5.8	4.8	5.8	19	22	19	24
F 41 2_30.1	30.1	—	—	—	—	4.3	4.8	4.3	4.8	4.3	4.8	4.2	5.2	4.2	5.2	18	21	18	23
F 41 2_38.2	38.2	—	—	—	—	3.8	4.2	3.8	4.2	3.7	4.2	3.6	4.6	3.6	4.6	18	20	17	22
F 41 2_47.9	47.9	—	—	—	—	3.5	3.9	3.5	3.9	3.4	3.9	3.3	4.3	3.3	4.3	18	20	17	22
F 41 3_51.5	51.5	—	—	—	—	—	—	—	—	5.7	6.2	5.6	6.6	5.6	6.6	20	22	19	24
F 41 3_60.2	60.2	—	—	—	—	—	—	—	—	4.9	5.4	4.7	5.7	4.7	5.7	19	22	19	24
F 41 3_66.5	66.5	—	—	—	—	—	—	—	—	4.7	5.2	4.5	5.5	4.5	5.5	19	21	18	23
F 41 3_84.9	84.9	—	—	—	—	4.2	4.7	4.2	4.7	4.2	4.7	4.0	5.0	4.0	5.0	18	21	18	23
F 41 3_106.0	106.0	—	—	—	—	3.9	4.4	3.9	4.4	3.8	4.3	3.7	4.7	3.7	4.7	18	21	18	23
F 41 3_134.4	134.4	—	—	—	—	3.5	3.9	3.5	3.9	3.4	3.9	3.3	4.3	3.3	4.3	18	20	17	22
F 41 3_168.7	168.7	—	—	—	—	3.3	3.7	3.3	3.7	3.2	3.7	3.1	4.1	3.1	4.1	17	20	17	22
F 41 3_180.7	180.7	—	—	—	—	3.3	3.7	3.3	3.7	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—
F 41 3_198.9	198.9	—	—	—	—	3.2	3.6	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0	—	—	—	—
F 41 3_220.1	220.1	—	—	—	—	3.2	3.6	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0	—	—	—	—
F 41 3_240.1	240.1	—	—	—	—	3.1	3.6	3.1	3.6	3.1	3.6	2.9	3.9	2.9	3.9	—	—	—	—
F 41 3_266.9	266.9	—	—	—	—	3.1	3.5	3.1	3.5	3.0	3.5	2.9	3.9	2.9	3.9	—	—	—	—
F 41 3_296.6	296.6	—	—	—	—	3.1	3.5	3.1	3.5	3.0	3.5	2.9	3.9	2.9	3.9	—	—	—	—
F 41 3_344.8	344.8	—	—	—	—	3.0	3.4	3.0	3.4	2.9	3.4	2.8	3.8	2.8	3.8	—	—	—	—
F 41 4_433.7	433.7	0.48	0.74	0.50	0.94	—	—	3.0	3.5	3.0	3.5	2.8	3.8	—	—	—	—	—	—
F 41 4_549.8	549.8	0.46	0.72	0.48	0.92	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_690.1	690.1	0.45	0.71	0.47	0.91	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_739.4	739.4	0.44	0.70	0.46	0.90	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_813.8	813.8	0.44	0.70	0.46	0.90	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_900.5	900.5	0.44	0.70	0.46	0.90	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_982.4	982.4	0.44	0.70	0.46	0.90	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_1092	1092	0.43	0.69	0.45	0.89	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_1213	1213	0.43	0.69	0.45	0.89	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_1411	1411	0.43	0.69	0.45	0.89	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—



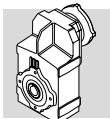
F 51

	i	J (•10 ⁻⁴) [kgm ²]										
			63	71	80	90	100	112	132	160	180	
F 51 2_7.2	7.2	25	—	—	28	28	30	30	42	101	103	34
F 51 2_9.1	9.1	17	—	—	20	19	22	22	33	92	94	26
F 51 2_11.1	11.1	16	—	—	19	19	22	22	33	92	94	25
F 51 2_14.0	14.0	11	—	—	14	14	17	17	28	87	89	20
F 51 2_18.8	18.8	7.0	—	—	9.8	9.6	12	12	24	83	85	16
F 51 2_23.8	23.8	4.5	—	—	7.3	7.2	9.9	9.9	21	80	82	13
F 51 2_30.0	30.0	3.1	3.8	3.8	5.9	5.8	8.5	8.5	20	79	81	12
F 51 2_37.1	37.1	2.2	3.0	3.0	5.0	4.9	7.6	7.6	19	78	80	11
F 51 3_48.9	48.9	6.2	—	—	8.9	8.8	12	12	23	82	84	15
F 51 3_65.8	65.8	4.2	—	—	6.9	6.8	9.6	9.6	21	80	82	13
F 51 3_83.2	83.2	2.7	—	—	5.5	5.4	8.1	8.1	19	78	80	12
F 51 3_105.1	105.1	2.0	2.7	2.7	4.8	4.6	7.4	7.4	19	78	80	11
F 51 3_129.9	129.9	1.5	2.2	2.2	4.3	4.1	6.9	6.9	18	77	79	10
F 51 3_165.6	165.6	0.95	1.7	1.7	3.7	3.6	6.3	6.3	17	76	78	9.7
F 51 3_202.4	202.4	0.72	1.4	1.4	3.5	3.3	6.1	6.1	17	76	78	9.5
F 51 3_216.9	216.9	0.64	1.4	1.3	3.4	3.3	6.0	6.0	—	—	—	9.4
F 51 3_239.8	239.8	0.60	1.3	1.3	3.4	3.2	6.0	6.0	—	—	—	9.4
F 51 3_262.1	262.1	0.53	1.3	1.3	3.3	3.2	5.9	5.9	—	—	—	9.3
F 51 3_285.9	285.9	0.46	1.2	1.2	3.2	3.1	5.8	5.8	—	—	—	9.2
F 51 3_317.3	317.3	0.39	1.1	1.1	3.2	3.0	5.8	5.8	—	—	—	9.2
F 51 3_352.5	352.5	0.28	1.1	1.1	3.1	3.0	5.7	5.7	—	—	—	9.1
F 51 4_429.1	429.1	0.36	1.1	1.1	3.1	3.0	5.7	5.7	—	—	—	2.4
F 51 4_530.5	530.5	0.33	1.1	1.0	3.1	3.0	5.7	5.7	—	—	—	2.4
F 51 4_676.3	676.3	0.30	1.0	1.0	3.1	2.9	5.7	5.7	—	—	—	2.4
F 51 4_826.4	826.4	0.28	1.0	1.0	3.0	2.9	5.7	5.7	—	—	—	2.3
F 51 4_885.5	885.5	0.28	1.0	1.0	3.0	2.9	5.7	5.7	—	—	—	2.3
F 51 4_979.4	979.4	0.28	1.0	1.0	3.0	2.9	5.7	5.7	—	—	—	2.3
F 51 4_1070	1070	0.27	1.0	1.0	3.0	2.9	5.6	5.6	—	—	—	2.3
F 51 4_1168	1168	0.27	1.0	1.0	3.0	2.9	5.6	5.6	—	—	—	2.3
F 51 4_1296	1296	0.26	1.0	1.0	3.0	2.9	5.6	5.6	—	—	—	2.3
F 51 4_1439	1439	0.26	1.0	1.0	3.0	2.9	5.6	5.6	—	—	—	2.3



F 51

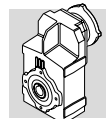
	i	J (•10 ⁻⁴) [kgm ²]											
		SERVO											
		80B		95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 51 2_7.2	7.2	—	—	—	—	28	29	28	23	42	44	42	47
F 51 2_9.1	9.1	—	—	—	—	20	21	19	20	34	36	33	38
F 51 2_11.1	11.1	—	—	—	—	19	20	19	20	33	35	33	38
F 51 2_14.0	14.0	—	—	—	—	14	15	14	15	28	30	28	33
F 51 2_18.8	18.8	—	—	—	—	9.8	10	9.6	11	24	26	24	29
F 51 2_23.8	23.8	—	—	—	—	7.3	7.8	7.2	8.2	21	24	21	26
F 51 2_30.0	30.0	5.9	6.4	5.9	6.4	5.9	6.4	5.8	6.8	20	23	20	25
F 51 2_37.1	37.1	5.0	5.5	5.0	5.5	5.0	5.5	4.9	5.9	19	22	19	24
F 51 3_48.9	48.9	—	—	—	—	8.9	9.4	8.8	9.8	23	26	23	28
F 51 3_65.8	65.8	—	—	—	—	6.9	7.4	6.8	7.8	21	24	21	26
F 51 3_83.2	83.2	—	—	—	—	5.5	6.0	5.4	6.4	20	22	19	24
F 51 3_105.1	105.1	4.8	5.3	4.8	5.3	4.8	5.3	4.6	5.6	19	21	19	24
F 51 3_129.9	129.9	4.3	4.8	4.3	4.8	4.3	4.8	4.1	5.1	18	21	18	23
F 51 3_165.6	165.6	3.8	4.2	3.8	4.2	3.7	4.2	3.6	4.6	18	20	17	22
F 51 3_202.4	202.4	3.5	4.0	3.5	4.0	3.5	4.0	3.3	4.3	18	20	17	22
F 51 3_216.9	216.9	3.5	3.9	3.5	3.9	3.4	3.9	3.3	4.3	—	—	—	—
F 51 3_239.8	239.8	3.4	3.9	3.4	3.9	3.4	3.9	3.2	4.2	—	—	—	—
F 51 3_262.1	262.1	3.4	3.8	3.4	3.8	3.3	3.8	3.2	4.2	—	—	—	—
F 51 3_285.9	285.9	3.3	3.7	3.3	3.7	3.2	3.7	3.1	4.1	—	—	—	—
F 51 3_317.3	317.3	3.2	3.6	3.2	3.6	3.2	3.7	3.0	4.0	—	—	—	—
F 51 3_352.5	352.5	3.1	3.5	3.1	3.5	3.1	3.6	3.0	4.0	—	—	—	—
F 51 4_429.1	429.1	—	—	3.2	3.6	3.1	3.6	3.0	4.0	—	—	—	—
F 51 4_530.5	530.5	—	—	3.2	3.6	3.1	3.6	3.0	4.0	—	—	—	—
F 51 4_676.3	676.3	—	—	3.1	3.6	3.1	3.6	2.9	3.9	—	—	—	—
F 51 4_826.4	826.4	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—
F 51 4_885.5	885.5	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—
F 51 4_979.4	979.4	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—
F 51 4_1070	1070	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—
F 51 4_1168	1168	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—
F 51 4_1296	1296	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—
F 51 4_1439	1439	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—



F 60

	i	J (•10 ⁻⁴) [kgm ²]										
			63	71	80	90	100	112	132	160	180	
F 60 3_9.0	9.0	40	—	—	—	—	—	—	59	118	116	61
F 60 3_9.7	9.7	38	—	—	—	—	—	—	57	116	114	59
F 60 3_11.8	11.8	25	—	—	28	28	29	29	44	103	101	46
F 60 3_12.7	12.7	24	—	—	27	27	28	28	43	102	100	45
F 60 3_14.5	14.5	18	—	—	21	20	22	22	37	96	94	39
F 60 3_15.7	15.7	17	—	—	20	20	21	21	36	95	93	38
F 60 3_19.1	19.1	10	—	—	13	13	14	14	29	89	86	31
F 60 3_20.7	20.7	9.9	—	—	13	13	14	14	29	88	86	31
F 60 3_23.5	23.5	7.3	—	—	10	10	11	11	26	86	83	28
F 60 3_25.4	25.4	7.1	—	—	9.9	9.9	11	11	26	85	83	28
F 60 3_29.6	29.6	15	—	—	—	—	—	—	34	93	91	36
F 60 3_32.1	32.1	15	—	—	—	—	—	—	34	93	91	36
F 60 3_38.8	38.8	11	—	—	14	13	15	15	30	89	87	32
F 60 3_42.1	42.1	11	—	—	13	13	15	15	29	89	87	31
F 60 3_47.8	47.8	8.2	—	—	11	11	12	12	27	86	84	29
F 60 3_51.8	51.8	8.1	—	—	11	11	12	12	27	86	84	29
F 60 3_63.0	63.0	4.9	—	—	7.7	7.6	8.9	8.9	24	83	81	26
F 60 3_68.3	68.3	4.8	—	—	7.7	7.6	8.9	8.9	24	83	81	26
F 60 3_77.6	77.6	3.7	—	—	6.6	6.5	7.8	7.8	23	82	80	25
F 60 3_84.0	84.0	3.7	—	—	6.5	6.5	7.8	7.8	23	82	80	25
F 60 3_98.2	98.2	2.7	4.2	4.2	5.6	5.5	6.8	6.8	22	81	79	24
F 60 3_106.4	106.4	2.7	4.2	4.2	5.5	5.4	6.8	6.8	22	81	79	24
F 60 3_120.5	120.5	1.8	3.2	3.2	4.6	4.6	5.9	5.9	21	80	78	23
F 60 3_130.5	130.5	1.8	3.2	3.2	4.6	4.6	5.8	5.8	21	80	78	23
F 60 3_150.4	150.4	1.3	2.7	2.7	4.1	4.1	5.4	5.4	20	80	77	22
F 60 3_162.9	162.9	1.3	2.7	2.7	4.1	4.1	5.4	5.4	20	80	77	22
F 60 3_185.9	185.9	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	79	77	22
F 60 3_201.4	201.4	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	79	77	22
F 60 3_217.6	217.6	0.70	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	22
F 60 3_235.8	235.8	0.70	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	22
F 60 3_259.1	259.1	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	22
F 60 3_280.7	280.7	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	22

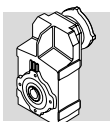
Quant aux valeurs des moments d'inertie, se référant aux réducteurs à 4 étages, consultez notre Service Technique.



F 60

	i	J ($\cdot 10^{-4}$) [kgm ²]									
		SERVO									
		95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 60 3_9.0	9.0	—	—	—	—	—	—	57	59	59	64
F 60 3_9.7	9.7	—	—	—	—	—	—	55	57	57	62
F 60 3_11.8	11.8	—	—	28	29	28	29	42	44	44	49
F 60 3_12.7	12.7	—	—	27	28	27	28	41	43	43	48
F 60 3_14.5	14.5	—	—	21	22	20	21	35	37	37	42
F 60 3_15.7	15.7	—	—	20	21	20	21	34	36	36	41
F 60 3_19.1	19.1	—	—	13	14	13	14	27	29	29	34
F 60 3_20.7	20.7	—	—	13	14	13	14	27	29	29	34
F 60 3_23.5	23.5	—	—	10	11	10	11	24	27	26	31
F 60 3_25.4	25.4	—	—	9.9	10	9.9	11	24	27	26	31
F 60 3_29.6	29.6	—	—	—	—	—	—	32	34	34	39
F 60 3_32.1	32.1	—	—	—	—	—	—	32	34	34	39
F 60 3_38.8	38.8	—	—	14	15	13	14	28	30	30	35
F 60 3_42.1	42.1	—	—	13	14	13	14	28	30	29	34
F 60 3_47.8	47.8	—	—	11	12	11	12	25	28	27	32
F 60 3_51.8	51.8	—	—	11	12	11	12	25	28	27	32
F 60 3_63.0	63.0	—	—	7.7	8.2	7.6	8.6	22	24	24	29
F 60 3_68.3	68.3	—	—	7.7	8.2	7.6	8.6	22	24	24	29
F 60 3_77.6	77.6	—	—	6.6	7.1	6.5	7.5	21	23	23	28
F 60 3_84.0	84.0	—	—	6.5	7.0	6.5	7.5	21	23	23	28
F 60 3_98.2	98.2	—	—	5.6	6.1	5.5	6.5	20	22	22	27
F 60 3_106.4	106.4	5.5	6.0	5.5	6.0	5.4	6.4	20	22	22	27
F 60 3_120.5	120.5	2.2	2.7	4.6	5.1	4.6	5.6	19	21	21	26
F 60 3_130.5	130.5	2.2	2.7	4.6	5.1	4.6	5.6	19	21	21	26
F 60 3_150.4	150.4	4.1	4.6	4.1	4.6	4.1	5.1	18	21	20	25
F 60 3_162.9	162.9	4.1	4.6	4.1	4.6	4.1	5.1	18	21	20	25
F 60 3_185.9	185.9	3.7	4.2	3.8	4.3	3.7	4.7	18	20	20	25
F 60 3_201.4	201.4	3.7	4.2	3.8	4.3	3.7	4.7	18	20	20	25
F 60 3_217.6	217.6	3.5	4.0	3.6	4.1	3.5	4.5	—	—	—	—
F 60 3_235.8	235.8	3.5	4.0	3.6	4.1	3.5	4.5	—	—	—	—
F 60 3_259.1	259.1	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
F 60 3_280.7	280.7	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—

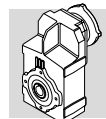
Quant aux valeurs des moments d'inertie, se référant aux réducteurs à 4 étages, consultez notre Service Technique.



F 70

	i	J (•10 ⁻⁴) [kgm ²]									
		63	80	90	100	112	132	160	180	200	250
F 70 3_10.0	10.0	—	—	—	—	—	—	169	167	176	133
F 70 3_10.9	10.9	—	—	—	—	—	—	166	163	173	129
F 70 3_12.8	12.8	—	—	—	—	—	—	139	137	146	102
F 70 3_13.9	13.9	—	—	—	—	—	—	137	135	144	100
F 70 3_16.3	16.3	39	—	—	—	—	58	117	115	124	80
F 70 3_17.7	17.7	37	—	—	—	—	56	116	113	123	79
F 70 3_20.9	20.9	26	—	—	—	—	45	105	102	—	68
F 70 3_22.6	22.6	26	—	—	—	—	44	104	102	—	67
F 70 3_24.6	24.6	21	—	—	—	—	40	99	97	—	62
F 70 3_27.7	27.7	—	—	—	—	—	—	128	126	135	73
F 70 3_30.0	30.0	—	—	—	—	—	—	127	125	134	73
F 70 3_35.4	35.4	—	—	—	—	—	—	114	112	121	77
F 70 3_38.4	38.4	—	—	—	—	—	—	114	111	121	77
F 70 3_45.2	45.2	23	—	—	—	—	42	101	99	108	65
F 70 3_49.0	49.0	23	—	—	—	—	42	101	99	108	65
F 70 3_57.7	57.7	17	—	—	—	—	36	95	93	—	58
F 70 3_62.5	62.5	17	—	—	—	—	36	95	93	—	58
F 70 3_67.9	67.9	14	—	—	—	—	33	92	90	—	55
F 70 3_73.6	73.6	14	—	—	—	—	33	92	90	—	55
F 70 3_85.4	85.4	9.0	11	11	13	13	28	87	85	—	50
F 70 3_92.5	92.5	9.0	11	11	13	13	28	87	85	—	50
F 70 3_101.2	101.2	6.3	8.9	8.8	10	10	25	85	82	—	47
F 70 3_109.6	109.6	6.3	8.9	8.8	10	10	25	85	82	—	47
F 70 3_122.7	122.7	5.1	7.9	7.8	9.1	9.1	24	83	81	—	46
F 70 3_133.0	133.0	5.1	7.9	7.8	9.1	9.1	24	83	81	—	46
F 70 3_153.8	153.8	3.2	6.0	6.0	7.3	7.3	22	81	79	—	44
F 70 3_166.7	166.7	3.2	6.0	6.0	7.3	7.3	22	81	79	—	44
F 70 3_180.9	180.9	2.3	5.1	5.1	6.3	6.3	21	81	78	—	43
F 70 3_196.0	196.0	2.3	5.1	5.0	6.3	6.3	21	81	78	—	43

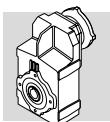
Quant aux valeurs des moments d'inertie, se référant aux réducteurs à 4 étages, consultez notre Service Technique.



F 80

	i	J (•10 ⁻⁴) [kgm ²]										
		IEC	80	90	100	112	132	160	180	200	225	IEC
F 80 3_10.3	10.3	—	—	—	—	—	—	—	286	300	578	252
F 80 3_11.2	11.2	—	—	—	—	—	—	—	277	291	569	244
F 80 3_12.9	12.9	—	—	—	—	—	—	217	218	231	509	184
F 80 3_14.0	14.0	—	—	—	—	—	—	212	212	226	504	178
F 80 3_16.2	16.2	—	—	—	—	—	—	173	171	180	464	136
F 80 3_17.6	17.6	—	—	—	—	—	—	170	167	177	461	133
F 80 3_20.3	20.3	60	—	—	—	—	79	139	136	146	431	102
F 80 3_22.0	22.0	58	—	—	—	—	77	136	134	143	429	100
F 80 3_25.2	25.2	43	—	—	—	—	62	121	119	150	413	84
F 80 3_28.8	28.8	—	—	—	—	—	—	—	189	203	480	155
F 80 3_31.3	31.3	—	—	—	—	—	—	—	188	201	479	154
F 80 3_36.0	36.0	—	—	—	—	—	—	155	155	169	447	121
F 80 3_39.0	39.0	—	—	—	—	—	—	154	154	168	446	121
F 80 3_45.3	45.3	—	—	—	—	—	—	133	132	141	425	97
F 80 3_49.1	49.1	—	—	—	—	—	—	133	131	140	425	97
F 80 3_56.7	56.7	35	—	—	—	—	54	113	111	120	406	77
F 80 3_61.5	61.5	35	—	—	—	—	54	113	111	120	406	76
F 80 3_70.4	70.4	27	—	—	—	—	46	105	103	133	397	68
F 80 3_76.3	76.3	27	—	—	—	—	45	105	103	133	396	68
F 80 3_85.2	85.2	20	—	—	—	—	39	99	96	126	389	62
F 80 3_92.3	92.3	20	—	—	—	—	39	99	96	126	389	61
F 80 3_105.0	105.0	14	16	16	17	17	32	92	90	119	383	55
F 80 3_113.8	113.8	14	16	16	17	17	32	92	90	119	382	55
F 80 3_122.5	122.5	13	15	15	17	17	32	91	89	118	381	54
F 80 3_132.7	132.7	13	15	15	16	16	31	91	89	118	381	54
F 80 3_147.9	147.9	8.5	11	11	13	13	27	87	85	—	—	50
F 80 3_160.2	160.2	8.5	11	11	13	13	27	87	84	—	—	50
F 80 3_184.6	184.6	5.1	7.9	7.8	9.1	9.1	24	83	81	—	—	46
F 80 3_200.0	200.0	5.0	7.9	7.8	9.1	9.1	24	83	81	—	—	46

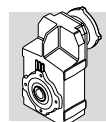
Quant aux valeurs des moments d'inertie, se référant aux réducteurs à 4 étages, consultez notre Service Technique.



F 90

	i	J (•10 ⁻⁴) [kgm ²]											
		80	90	100	112	132	160	180	200	225	250		
F 90 3_10.3	10.3	—	—	—	—	—	—	549	559	843	870	850	
F 90 3_11.1	11.1	—	—	—	—	—	—	529	539	823	850	830	
F 90 3_13.4	13.4	—	—	—	—	—	—	373	383	667	694	674	
F 90 3_14.5	14.5	—	—	—	—	—	—	361	371	655	682	662	
F 90 3_16.5	16.5	—	—	—	—	—	—	286	296	580	607	587	
F 90 3_17.9	17.9	—	—	—	—	—	—	278	288	572	599	579	
F 90 3_20.6	20.6	—	—	—	—	—	224	222	232	516	542	513	
F 90 3_22.3	22.3	—	—	—	—	—	220	217	227	511	537	508	
F 90 3_25.4	25.4	103	—	—	—	122	181	179	188	474	500	471	
F 90 3_28.6	28.6	—	—	—	—	—	—	291	301	585	613	593	
F 90 3_31.0	31.0	—	—	—	—	—	—	289	299	583	610	590	
F 90 3_37.4	37.4	—	—	—	—	—	—	222	232	516	543	523	
F 90 3_40.5	40.5	—	—	—	—	—	—	220	230	514	541	521	
F 90 3_46.1	46.1	—	—	—	—	—	—	186	196	480	507	487	
F 90 3_49.9	49.9	—	—	—	—	—	—	185	195	479	506	486	
F 90 3_57.3	57.3	—	—	—	—	—	161	158	168	452	479	450	
F 90 3_62.1	62.1	—	—	—	—	—	160	158	167	451	478	449	
F 90 3_70.8	70.8	61	—	—	—	80	139	137	146	432	458	429	
F 90 3_76.7	76.7	60	—	—	—	79	139	136	146	431	458	429	
F 90 3_88.4	88.4	44	—	—	—	63	123	120	151	414	441	412	
F 90 3_95.8	95.8	44	—	—	—	63	122	120	151	414	441	412	
F 90 3_103.3	103.3	41	—	—	—	59	119	117	146	410	436	408	
F 90 3_111.9	111.9	40	—	—	—	59	119	116	146	409	436	407	
F 90 3_126.8	126.8	26	29	29	30	45	105	102	132	395	422	393	
F 90 3_137.3	137.3	26	29	29	30	45	104	102	132	395	422	393	
F 90 3_150.3	150.3	21	24	24	25	40	100	97	127	390	417	388	
F 90 3_162.8	162.8	21	24	24	25	40	100	97	127	390	417	388	
F 90 3_179.2	179.2	14	16	16	18	33	92	90	—	—	—	381	
F 90 3_194.2	194.2	14	16	16	17	33	92	90	—	—	—	381	

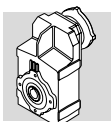
Quant aux valeurs des moments d'inertie, se référant aux réducteurs à 4 étages, consultez notre Service Technique.



64 RAPPORTS EXACTS

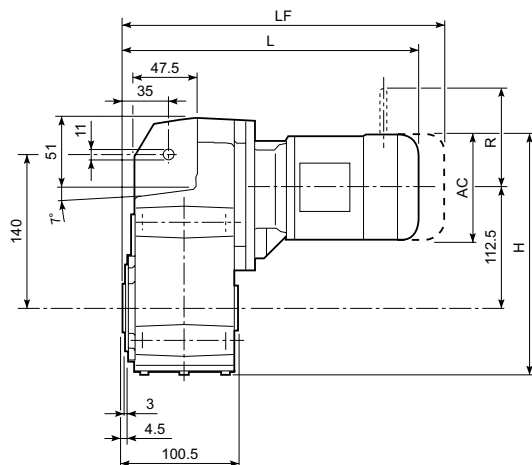
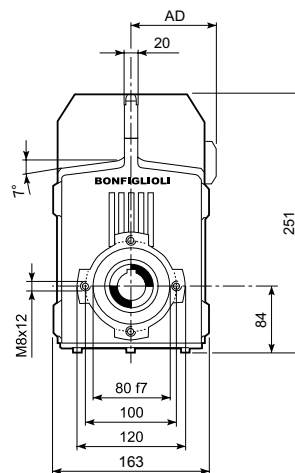
iN	F 10	F 20	F 25	F 31	F 41	F 51	F 60	F 70	F 80	F 90
6.3		6.41210								
7.1	7.40443		6.86957	6.94907	6.72727	7.19408				
8.0		7.83478	8.39375	8.22917						
9.0	8.58204	8.73227	9.35526	9.01630	9.13580	9.05114	8.96000			
10.0	9.76974	10.03069	10.62451	10.74747			9.70667	10.01538	10.33846	10.26577
11.2	11.53759	11.23370			10.77273	11.11005	11.75320	10.85000	11.20000	11.12125
12.5	13.02632		12.98182	12.72727		13.97796	12.73263	12.81731	12.90240	13.41346
14.0	14.64777	14.79842	14.46890	13.94466	14.62963		14.47385	13.88542	13.97760	14.53125
16.0	16.97738		16.62032	16.80000	17.11667		15.68000	16.34455	16.24615	16.52538
18.0		18.08182	18.61364	18.48804	18.89130	18.82155	19.06872	17.70660	17.60000	17.90250
20.0	19.32692	20.15311	21.81818	21.11230			20.65778	20.86538	20.33231	20.56731
22.4	22.82418	23.14973	23.75758	23.38636		23.79447	23.46381	22.60417	22.02667	22.28125
25.0	25.76923	25.92614	27.20455	27.27273	24.11579		25.41913	24.55695	25.22585	25.38622
28.0	29.63462	30.38961	30.03636	30.12121	30.11875	30.03828	29.61538	27.69231	28.84615	28.61169
31.5	32.98462	33.09091	32.18182	34.36364			32.08333	30.00000	31.25000	30.99600
35.5	35.34066	37.89205	36.41958	37.67273	38.18333	37.13636	38.84771	35.43956	36.00000	37.38462
40.0	39.64497	41.83636	40.72727	40.36364			42.08502	38.39286	39.00000	40.50000
45.0	44.66667	44.82468	45.56607	44.64336	47.92667		47.84024	45.19231	45.32967	46.05785
50.0	48.72727	50.72727	50.78571	47.54630	51.49270	48.89965	51.82692	48.95833	49.10714	49.89600
56.0	56.69231	56.72727	58.33718	52.09420	60.24646		63.02761	57.69231	56.73077	57.32308
63.0	62.99145	61.88430	65.33371	62.76111	66.49275	65.84416	68.27991	62.50000	61.45833	62.10000
71.0	71.12308	69.13636	76.58163	69.06725			77.55467	73.55769	70.38462	70.75385
80.0	81.31624	76.81818	83.38889	78.87092	84.88166	83.24111	84.01756	85.38462	76.25000	76.65000
90.0	91.48077	90.40909	95.48772	87.36632			98.19838	92.50000	92.30769	88.39385
100.0	106.02198	101.63636	105.42738	101.88492	106.01061	105.08407	106.38158	101.18343	105.00000	103.33491
112.2		114.34091	112.95791	112.52623			120.45488	109.61538	113.75000	111.94615
125.5	127.12821	132.19481	127.83242	128.37500	134.39596	129.91558	130.49279	122.72727	122.48521	126.77538
140.0		156.30469	142.95238	140.73704			150.35503	132.95455	132.69231	150.30533
160.0		172.57500	155.94805	166.77778	168.69010	165.62338	162.88462	166.66667	160.22727	162.83077
180.0		184.90179	174.22321	185.43056	180.73939	202.39481	185.89349	180.94406	184.61538	179.21958
200.0		209.25000	193.58135	202.28788	198.92028	216.85158	201.38462	196.02273	200.00000	194.15455
225.0		234.00000	227.83036	228.22222	220.13131	239.84416	217.64679	216.52422	218.49174	213.59178
250.0		255.27273	256.12302	253.58025	240.14325	262.11039	259.08284	234.56790	273.89277	231.39109
280.0		285.18750	288.13839	293.83611	266.93818	285.93861	280.67308	280.93645	296.71717	268.72770
315.0		316.87500	333.13010	332.82407	296.59798	317.26753	315.38899	304.34783	353.67893	291.12168
355.0		372.93750		374.42708	344.79515	352.51948	341.67140	372.46964	383.15217	361.84615
400.0		419.25000	393.88686	418.86023		429.09330	399.34008	403.50877	451.49061	392.00000
450.0		471.65625	434.88795	462.60785	433.67975		432.61842	471.15385	489.11483	457.45099
500.0			465.95137	527.76389			489.84985	510.41667	563.87675	495.57191
560.0		545.30357	527.30872	578.58560	549.80165	530.48864	530.67067	606.83761	610.86648	577.48888
630.0			589.67857	619.91314	690.09587	676.29545	611.44379	657.40741	714.86014	625.61296
710.0			643.28571	685.64198	739.38843	826.44545	755.96686	758.97436	774.43182	713.95030
800.0			718.67076	762.32562	813.76478	885.47727	818.96410	822.22222	897.27273	773.44615
900.0			798.52307	831.62795	900.53719	979.36364	885.09695	899.40828	972.04545	910.18225
1000.0			939.80022	938.24691	982.40421	1070.28409	958.85503	974.35897	1058.06885	986.03077
1125.0			1056.50744	1042.49657	1092.01983	1167.58264	1053.60355	1090.90909	1146.24126	1112.25941
1250.0			1188.57087	1207.99290	1213.35537	1295.50909	1141.40385	1181.81818	1277.33630	1204.94769
1400.0			1374.16167	1368.27675	1410.52562	1439.45455		1367.52137	1383.78099	1427.90059
1600.0				1539.31134				1584.61538	1577.62238	1571.37386
1800.0								1716.66667	1709.09091	1702.32168
2000.0								2019.23077	1833.98601	1937.26864
2250.0								2187.50000	1986.81818	2098.70769



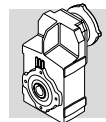


65 DIMENSIONS

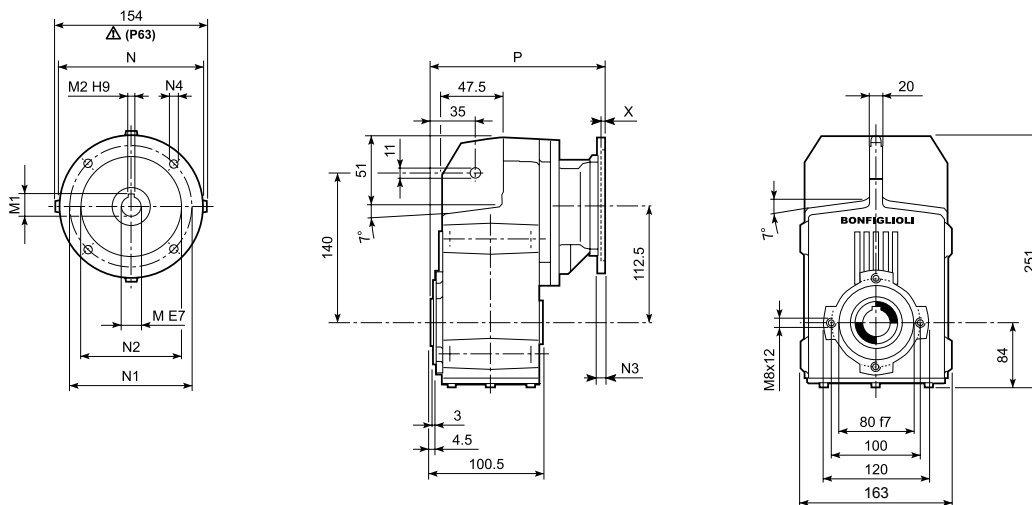
F 10...M/ME/MX/MXN



			Gearmotor - Without brake							Gearmotor - With brake								
			AC	H	L		AD		M...FD				M...FDD					
					plastic	metal			LF		R	AD	LF			R	AD	
F 10 2	S05	M05	121	220.5	—	311.5	95	12	377.5	13	96	122	—	—	—	—	—	
		ME05	121	220.5	—	311.5	95	12	377.5	13	96	119	—	—	—	—	—	
		MX05	121	220.5	—	311.5	95	12	377.5	13	96	119	—	—	—	—	—	
	SX05	MXN05	123	221.5	358	336	122.3	13.8	—	—	—	—	385	350.7	14.9	106	136	
	S1	M1	138	265.5	—	340.5	108	14	401.5	17	103	135	—	—	—	—	—	
		ME1	138	265.5	—	340.5	108	14	401.5	17	103	135	—	—	—	—	—	
		MX1	138	265.5	—	340.5	108	14	401.5	17	103	135	—	—	—	—	—	
	SX10	MXN10	138	265.5	369.5	350	123.3	16.4	—	—	—	—	405.5	370.6	18.8	106	138	
	S2	ME2S	156	274.5	—	369.5	119	18	439.5	20.1	129	143	—	—	—	—	—	
		MX2S	156	274.5	—	413.5	119	23	485.5	27.3	129	143	—	—	—	—	—	
	SX20	MXN20	158	275.5	467	450.7	132.8	25.2	—	—	—	—	508	469.8	27.4	115	148	
	S3	ME3S	195	294	—	412.5	142	22	508.5	29.4	160	155	—	—	—	—	—	
		MX3S	195	294	—	444.5	142	25	534.5	34.4	160	155	—	—	—	—	—	
		ME3L	195	294	—	444.5	142	24	535.5	35.9	160	155	—	—	—	—	—	
		MX3L	195	294	—	488.5	142	30	580.5	43.4	160	155	—	—	—	—	—	

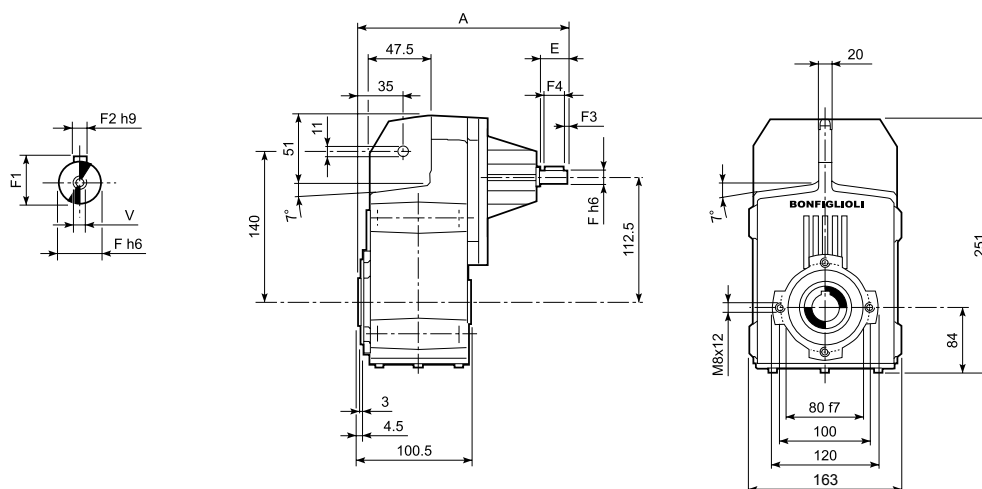


F 10...P(IEC)

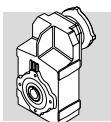


		M	M1	M2	N	N1	N2	N3	N4	X	P	
F 10 2	P63	11	12.8	4	140	115	95	—	M8x19	4	185.5	8
F 10 2	P71	14	16.3	5	160	130	110	—	M8x16	4.5	185.5	8
F 10 2	P80	19	21.8	6	200	165	130	—	M10x14.5	4	205	9
F 10 2	P90	24	27.3	8	200	165	130	—	M10x14.5	4	205	9
F 10 2	P100	28	31.3	8	250	215	180	—	M12x16	4.5	215	13
F 10 2	P112	28	31.3	8	250	215	180	—	M12x16	4.5	215	13

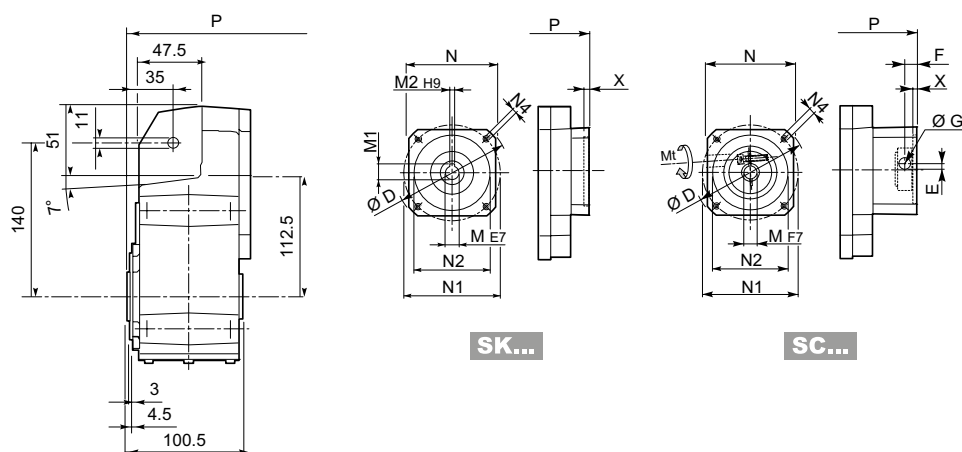
F 10...HS



		A	E	F	F1	F2	F3	F4	V	
F 10 2	HS	192	40	16	18	5	2.5	35	M6x16	7.5

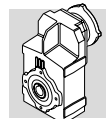


F 10...SK / SC



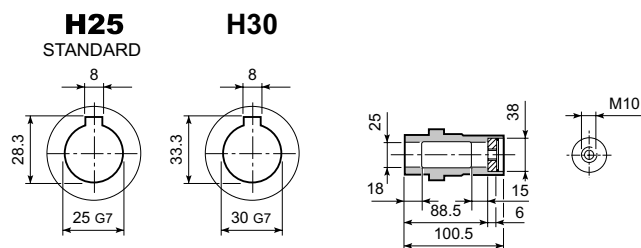
		D	M	M1	M2	N	N1	N2	N4	X	P	
F 10 2	SK 60A	102	11	12.8	4	82	75	60	M5x10	3.5	157	8
F 10 2	SK 60B	102	14	16.3	5	82	75	60	M5x10	4	164	8
F 10 2	SK 80A	115	14	16.3	5	90	100	80	M6x12	4	164	8
F 10 2	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	205	9
F 10 2	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	205	9
F 10 2	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	205	9
F 10 2	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	205	9
F 10 2	SK 110A	150	19	21.8	6	120	130	110	M8x12	5	205	9
F 10 2	SK 110B	150	24	27.3	8	120	130	110	M8x12	5	205	9

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	
F 10 2	SC 60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	184	8
F 10 2	SC 60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	184	9
F 10 2	SC 80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	184	9
F 10 2	SC 80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	228.5	10
F 10 2	SC 95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	228.5	10
F 10 2	SC 95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	228.5	10
F 10 2	SC 95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	228.5	10
F 10 2	SC 110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	228.5	11
F 10 2	SC 110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	228.5	11

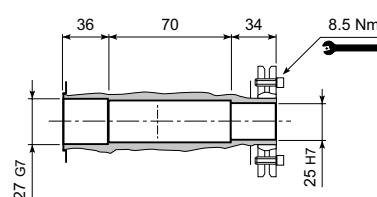
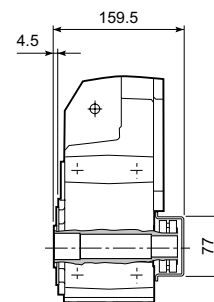


F 10

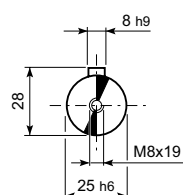
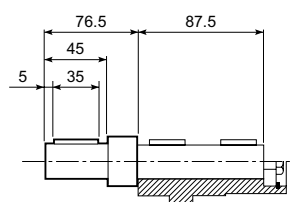
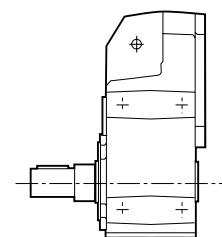
F 10...H



F 10...S

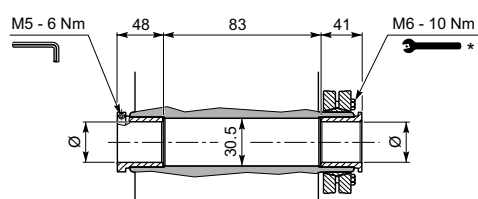
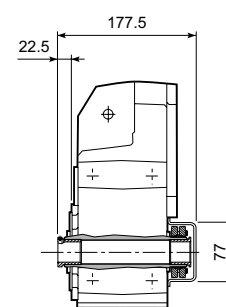


F 10...R

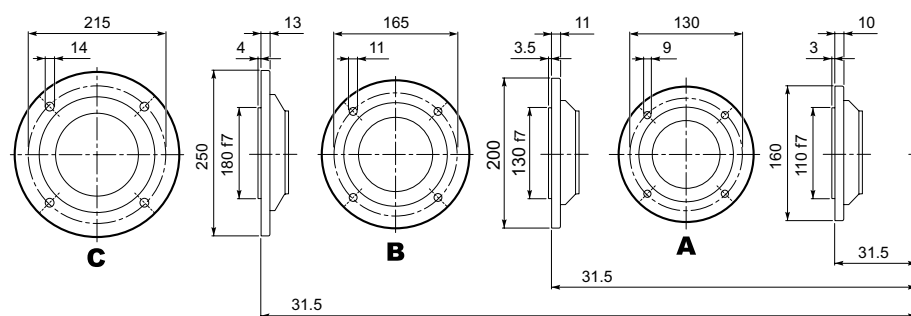


F 10...QF

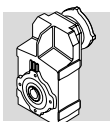
	Ø
QF25	25
QF30	30



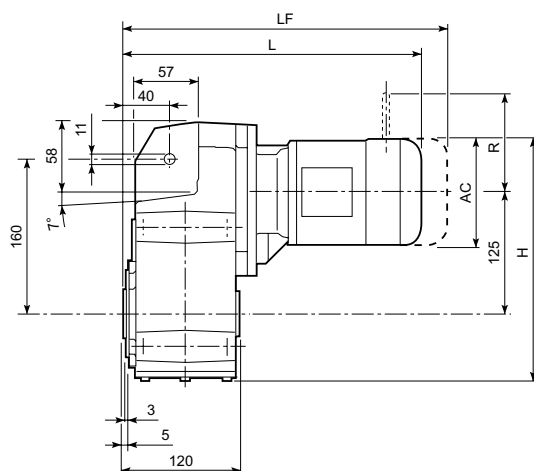
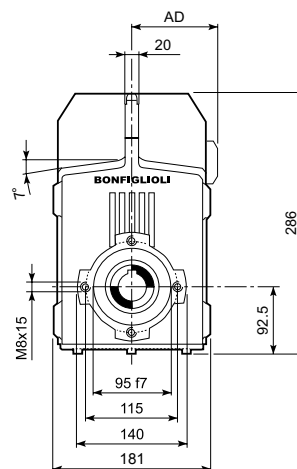
F 10...F...



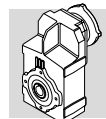
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



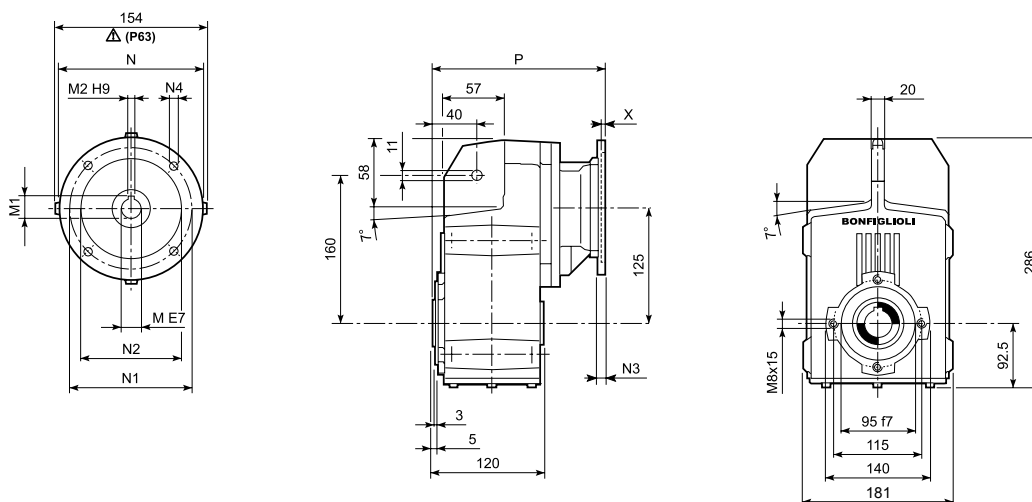
F 20...M/ME/MX/MXN



			Gearmotor - Without brake							Gearmotor - With brake								
			AC	H	L		AD		M...FD				M...FDD					
					plastic	metal			LF		R	AD	LF			R	AD	
F 20 2	S05	M05	121	278.2	—	323.5	95	15	389.5	17	96	122	—	—	—	—	—	
		ME05	121	278.2	—	323.5	95	15	389.5	17	96	119	—	—	—	—	—	
		MX05	121	278.2	—	323.5	95	15	389.5	17	96	119	—	—	—	—	—	
	SX05	MXN05	123	279.2	370	348	122.3	16.8	—	—	—	—	397	362.7	17.9	106	136	
	S1	M1	138	286.7	—	352.5	108	17	413.5	20	103	135	—	—	—	—	—	
		ME1	138	286.7	—	352.5	108	17	413.5	20	103	135	—	—	—	—	—	
		MX1	138	286.7	—	352.5	108	17	413.5	20	103	135	—	—	—	—	—	
	SX10	MXN10	138	286.7	381.5	362	123.3	19.4	—	—	—	—	417.5	382.6	21.8	106	138	
	S2	ME2S	156	295.7	—	381.5	119	21	451.5	22.8	129	143	—	—	—	—	—	
		MX2S	156	295.7	—	425.5	119	26	497.5	30	129	143	—	—	—	—	—	
	SX20	MXN20	158	296.7	479	462.7	132.8	28.2	—	—	—	—	520	481.8	30.4	115	148	
	S3	ME3S	195	315.2	—	424.5	142	26	520.5	32.1	160	155	—	—	—	—	—	
		MX3S	195	315.2	—	456.5	142	29	546.5	37.1	160	155	—	—	—	—	—	
		ME3L	195	315.2	—	456.5	142	33	547.5	38.6	160	155	—	—	—	—	—	
		MX3L	195	315.2	—	500.5	142	39	592.5	46.1	160	155	—	—	—	—	—	
F 20 3	S05	M05	121	278.2	—	379	95	17	445	18	96	122	—	—	—	—	—	
		ME05	121	278.2	—	379	95	17	445	18	96	119	—	—	—	—	—	
		MX05	121	278.2	—	379	95	17	445	18	96	119	—	—	—	—	—	
	SX05	MXN05	121	278.2	425	403	122.3	18.8	—	—	—	—	452	417.7	19.9	106	136	
	S1	M1	138	286.7	—	408	108	19	469	21	103	135	—	—	—	—	—	
		ME1	138	286.7	—	408	108	19	469	21	103	135	—	—	—	—	—	
		MX1	138	286.7	—	408	108	19	469	21	103	135	—	—	—	—	—	
	SX10	MXN10	138	286.7	437	417.5	123.3	21.4	—	—	—	—	473	438.1	23.8	106	138	
	S2	ME2S	156	295.7	—	437	119	22	507	24.8	129	143	—	—	—	—	—	
		MX2S	156	295.7	—	481	119	27	553	32	129	143	—	—	—	—	—	
	SX20	MXN20	156	295.7	534.5	518.2	132.8	29.2	—	—	—	—	575.5	537.3	31.4	115	148	
	S3	ME3S	195	315.2	—	480	142	27	576	34.1	160	155	—	—	—	—	—	
		MX3S	195	315.2	—	512	142	30	602	39.1	160	155	—	—	—	—	—	
		ME3L	195	315.2	—	512	142	34	603	40.6	160	155	—	—	—	—	—	
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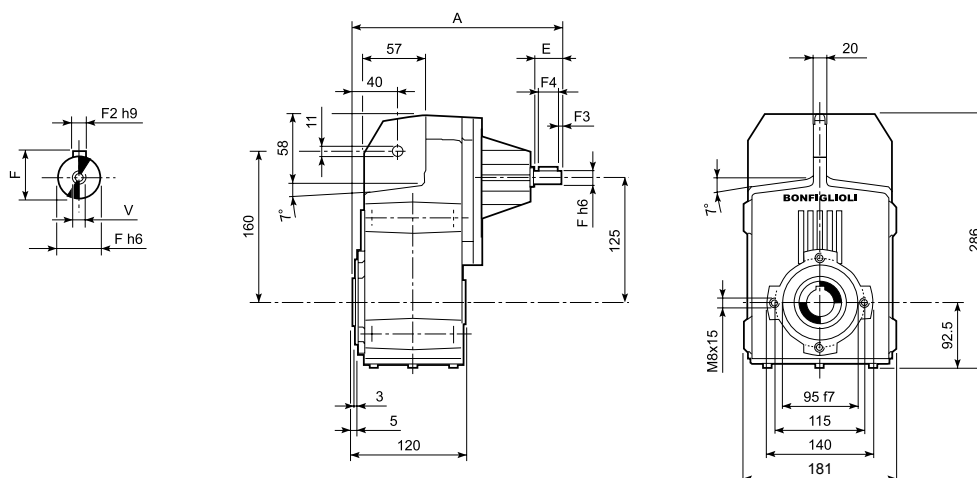


F 20...P(IEC)

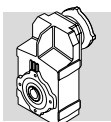


		M	M1	M2	N	N1	N2	N3	N4	X	P	
F 20 2	P63	11	12.8	4	140	115	95	—	M8x19	4	197.5	12
F 20 2	P71	14	16.3	5	160	130	110	—	M8x16	4.5	197.5	12
F 20 2	P80	19	21.8	6	200	165	130	—	M10x14.5	4	217	13
F 20 2	P90	24	27.3	8	200	165	130	—	M10x14.5	4	217	12
F 20 2	P100	28	31.3	8	250	215	180	—	M12x16	4.5	227	16
F 20 2	P112	28	31.3	8	250	215	180	—	M12x16	4.5	227	16
F 20 3	P63	11	12.8	4	140	115	95	—	M8x19	4	253	13
F 20 3	P71	14	16.3	5	160	130	110	—	M8x16	4.5	253	13
F 20 3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	272.5	14
F 20 3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	272.5	14
F 20 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	282.5	18
F 20 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	282.5	18

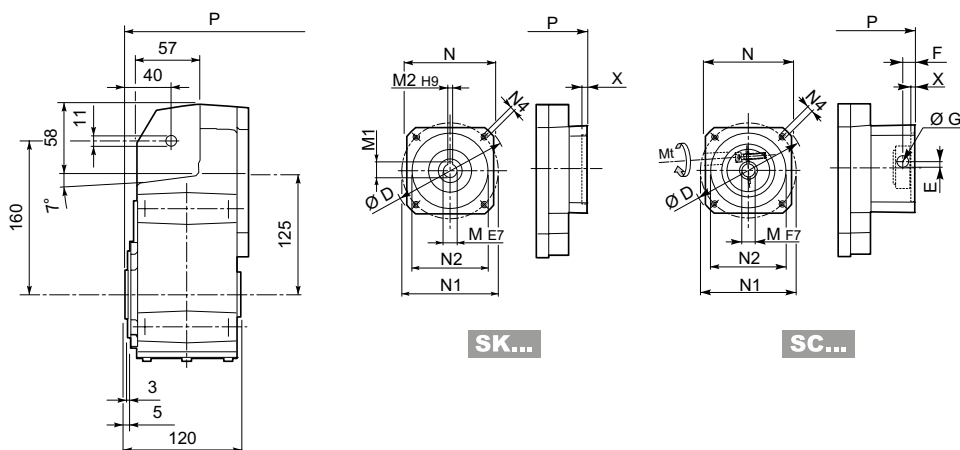
F 20...HS



		A	E	F	F1	F2	F3	F4	V	
F 20 2	HS	247.5	40	19	21.5	6	2.5	35	M6x16	11.5
F 20 3		260	40	16	18	5	2.5	35	M6x16	12.4

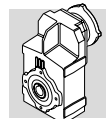


F 20...SK / SC



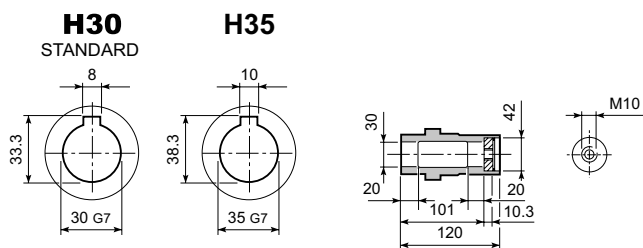
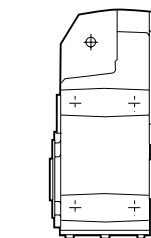
		D	M	M1	M2	N	N1	N2	N4	X	2x 		3x 	
											P	Kg	P	Kg
F 20 2/3	SK 60A	102	11	12.8	4	82	75	60	M5x10	3.5	169	11	224.5	12
F 20 2/3	SK 60B	102	14	16.3	5	82	75	60	M5x10	4	176	12	231.5	13
F 20 2/3	SK 80A	115	14	16.3	5	90	100	80	M6x12	4	217	12	231.5	13
F 20 2/3	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	217	13	272.5	14
F 20 2/3	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	217	13	272.5	14
F 20 2/3	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	217	13	272.5	14
F 20 2/3	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	217	13	272.5	14
F 20 2/3	SK 110A	150	19	21.8	6	120	130	110	M8x12	5	217	13	272.5	14
F 20 2/3	SK 110B	150	24	27.3	8	120	130	110	M8x12	5	217	13	272.5	14

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	2x 		3x 	
														P	Kg	P	Kg
F 20 2/3	SC 60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	196	12	251.5	13
F 20 2/3	SC 60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	196	13	251.5	14
F 20 2/3	SC 80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	196	13	251.5	14
F 20 2/3	SC 80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	240.5	14	296	15
F 20 2/3	SC 95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	240.5	14	296	15
F 20 2/3	SC 95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	240.5	14	296	15
F 20 2/3	SC 95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	240.5	14	296	15
F 20 2/3	SC 110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	240.5	15	296	16
F 20 2/3	SC 110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	240.5	15	296	16

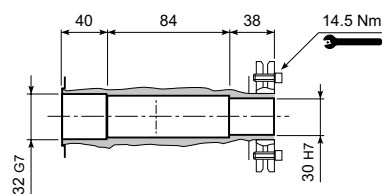
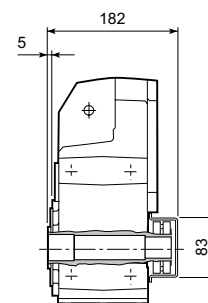


F 20

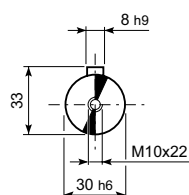
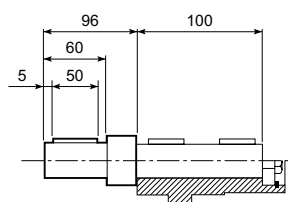
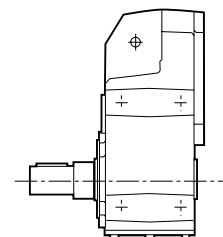
F 20...H



F 20...S

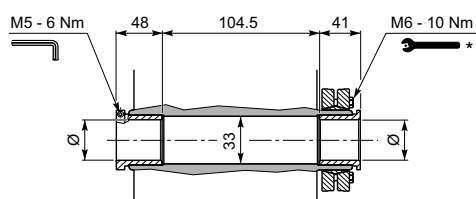
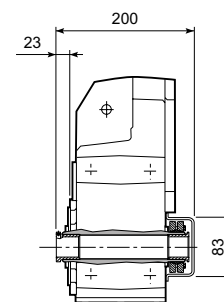


F 20...R

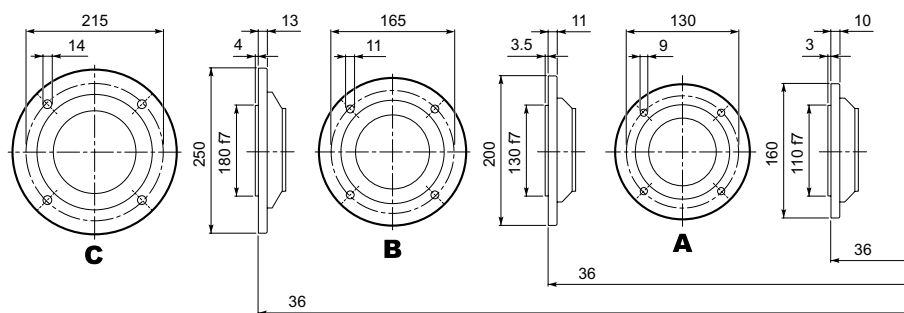
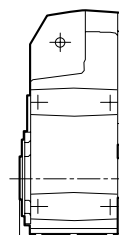


F 20...QF

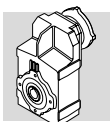
	Ø
QF25	25
QF30	30



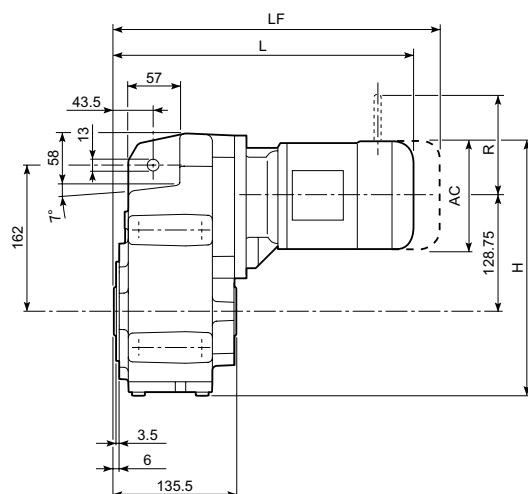
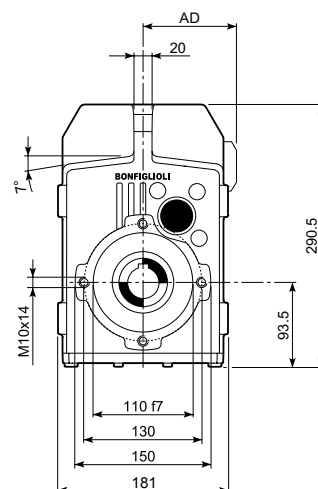
F 20...F...



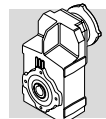
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



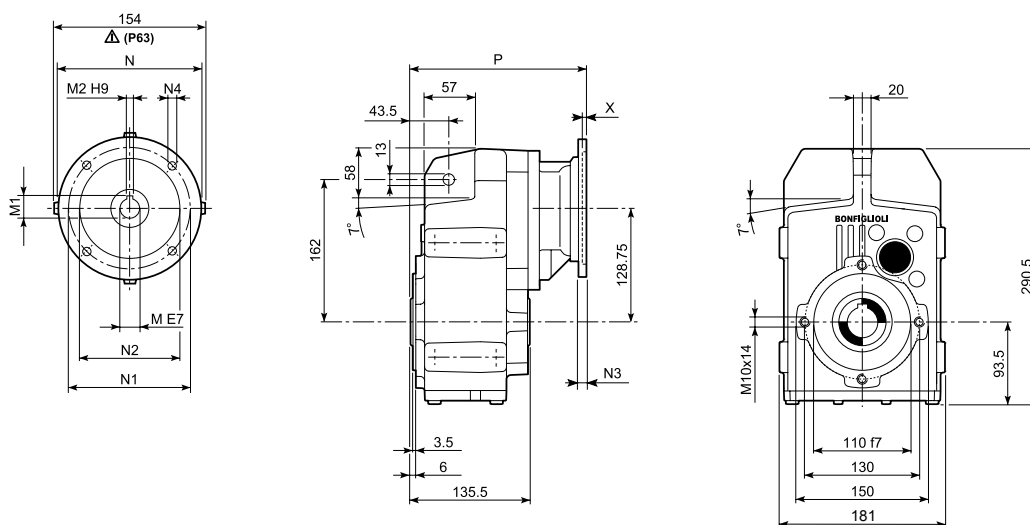
F 25...M/ME/MX/MXN



			Gearmotor - Without brake						Gearmotor - With brake									
			AC	H	L		AD		M...FD				M...FDD					
					plastic	metal			LF		R	AD	LF			R	AD	
F 25 2/3	S05	M05	121	283	—	339	95	15	405	17	96	122	—	—	—	—	—	
		ME05	121	283	—	339	95	15	405	17	96	119	—	—	—	—	—	
		MX05	121	283	—	339	95	15	405	17	96	119	—	—	—	—	—	
	SX05	MXN05	123	284	385.5	363.5	122.3	16.8	—	—	—	—	412.5	378.2	17.9	106	136	
	S1	M1	138	291.5	—	368	108	17	429	20	103	135	—	—	—	—	—	
		ME1	138	291.5	—	368	108	17	429	20	103	135	—	—	—	—	—	
		MX1	138	291.5	—	368	108	17	429	20	103	135	—	—	—	—	—	
	SX10	MXN10	138	291.5	397	377.5	123.3	19.4	—	—	—	—	433	398.1	21.8	106	138	
	S2	ME2S	156	300.5	—	397	119	21	467	22.8	129	143	—	—	—	—	—	
		MX2S	156	300.5	—	441	119	26	513	30	129	143	—	—	—	—	—	
	SX20	MXN20	158	301.5	494.5	478.2	132.8	28.2	—	—	—	—	535.5	497.3	30.4	115	148	
	S3	ME3S	195	320	—	440	142	26	536	32.1	160	155	—	—	—	—	—	
		MX3S	195	320	—	472	142	29	562	37.1	160	155	—	—	—	—	—	
		ME3L	195	320	—	472	142	33	563	38.6	160	155	—	—	—	—	—	
		MX3L	195	320	—	516	142	39	608	46.1	160	155	—	—	—	—	—	
F 25 4	S05	M05	121	283	—	394.5	95	17	460.5	18	96	122	—	—	—	—	—	
		ME05	121	283	—	394.5	95	17	460.5	18	96	119	—	—	—	—	—	
		MX05	121	283	—	394.5	95	17	460.5	18	96	119	—	—	—	—	—	
	SX05	MXN05	123	284	441	419	122.3	18.8	—	—	—	—	468	433.7	19.9	106	136	
	S1	M1	138	291.5	—	423.5	108	19	484.5	21	103	135	—	—	—	—	—	
		ME1	138	291.5	—	423.5	108	19	484.5	21	103	135	—	—	—	—	—	
		MX1	138	291.5	—	423.5	108	19	484.5	21	103	135	—	—	—	—	—	
	SX10	MXN10	138	291.5	452.5	433	123.3	21.4	—	—	—	—	488.5	453.6	23.8	106	138	
	S2	ME2S	156	300.5	—	452.5	119	22	495.5	24.8	129	143	—	—	—	—	—	
		MX2S	156	300.5	—	496.5	119	27	568.5	32	129	143	—	—	—	—	—	
	SX20	MXN20	158	301.5	550	533.7	132.8	29.2	—	—	—	—	591	552.8	31.4	115	148	
	S3	ME3S	195	320	—	495.5	142	27	591.5	34.1	160	155	—	—	—	—	—	
		MX3S	195	320	—	527.5	142	30	617.5	39.1	160	155	—	—	—	—	—	
		ME3L	195	320	—	527.5	142	34	618.5	40.6	160	155	—	—	—	—	—	
		MX3L	195	320	—	571.5	142	40	663.5	48.1	160	155	—	—	—	—	—	

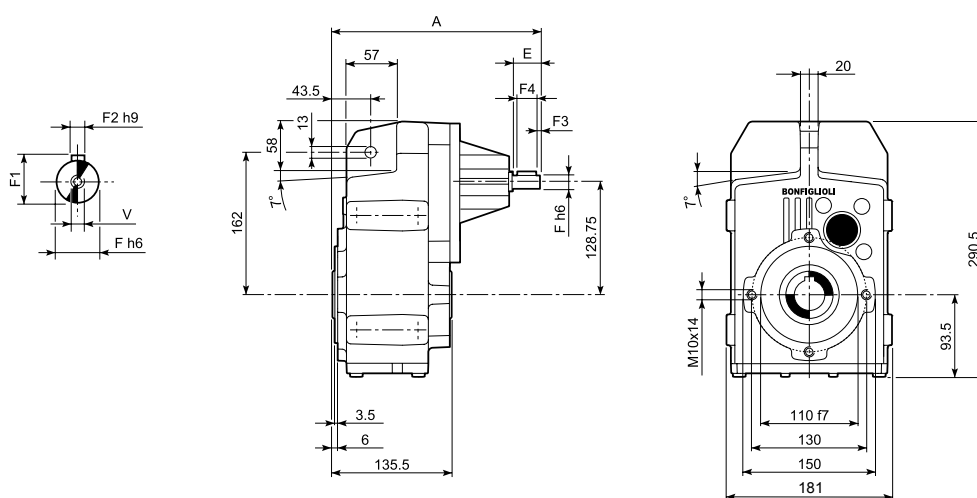


F 25...P(IEC)

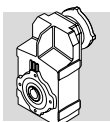


		M	M1	M2	N	N1	N2	N3	N4	X	P	
F 25 2/3	P63	11	12.8	4	140	115	95	—	M8x19	4	213	12
F 25 2/3	P71	14	16.3	5	160	130	110	—	M8x16	4.5	213	12
F 25 2/3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	232.5	13
F 25 2/3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	232.5	13
F 25 2/3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	242.5	16
F 25 2/3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	242.5	16
F 25 4	P63	11	12.8	4	140	115	95	—	M8x19	4	268.5	13
F 25 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	268.5	13
F 25 4	P80	19	21.8	6	200	165	130	—	M10x14.5	4	288	14
F 25 4	P90	24	27.3	8	200	165	130	—	M10x14.5	4	288	14
F 25 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	298	18
F 25 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	298	18

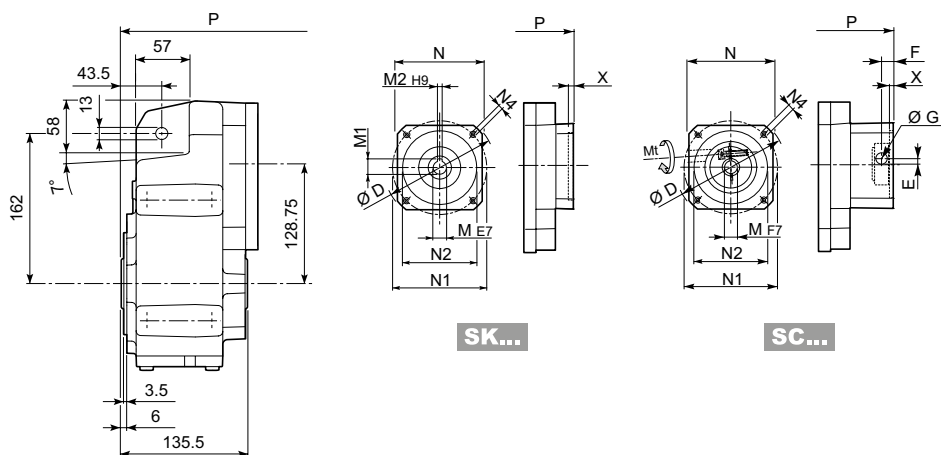
F 25...HS



		A	E	F	F1	F2	F3	F4	V	
F 25 2	HS	263	40	19	21.5	6	2.5	35	M6x16	11.5
F 25 3		263	40	19	21.5	6	2.5	35	M6x16	11.5
F 25 4		275.5	40	16	18	5	2.5	35	M6x16	12.5

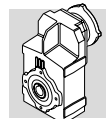


F 25...SK / SC



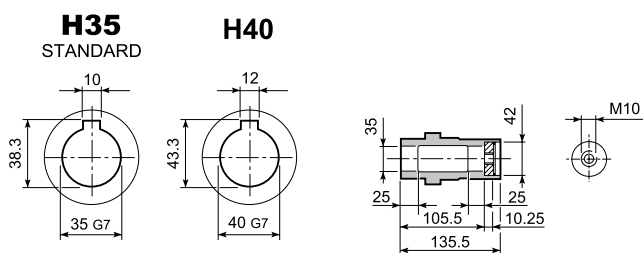
		D	M	M1	M2	N	N1	N2	N4	X	2/3x		4x	
											P		P	
F 25 2/3/4	SK 60A	102	11	12.8	4	82	75	60	M5x10	3.5	184.5	11	240	12
F 25 2/3/4	SK 60B	102	14	16.3	5	82	75	60	M5x10	4	191.5	12	247	13
F 25 2/3/4	SK 80A	115	14	16.3	5	90	100	80	M6x12	4	191.5	12	247	13
F 25 2/3/4	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	232.5	13	288	14
F 25 2/3/4	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	232.5	13	288	14
F 25 2/3/4	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	232.5	13	288	14
F 25 2/3/4	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	232.5	13	288	14
F 25 2/3/4	SK 110A	150	19	21.8	6	120	130	110	M8x12	5	232.5	13	288	14
F 25 2/3/4	SK 110B	150	24	27.3	8	120	130	110	M8x12	5	232.5	13	288	14

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	2/3x		4x	
														P		P	
F 25 2/3/4	SC 60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	211.5	12	267	13
F 25 2/3/4	SC 60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	211.5	13	267	14
F 25 2/3/4	SC 80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	211.5	13	267	14
F 25 2/3/4	SC 80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	256	14	311.5	15
F 25 2/3/4	SC 95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	256	14	311.5	15
F 25 2/3/4	SC 95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	256	14	311.5	15
F 25 2/3/4	SC 95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	256	14	311.5	15
F 25 2/3/4	SC 110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	256	15	311.5	16
F 25 2/3/4	SC 110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	256	15	311.5	16

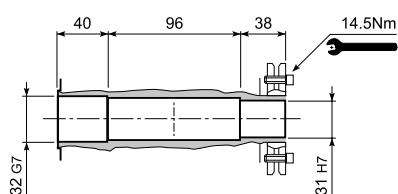
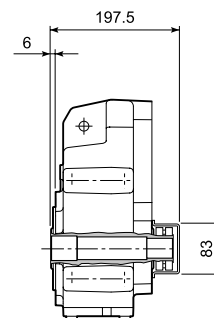


F 25

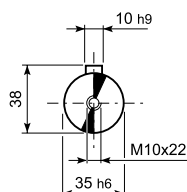
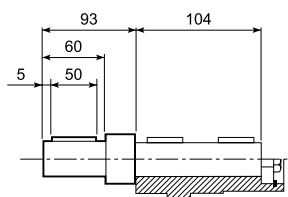
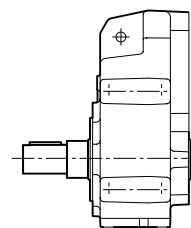
F 25...H



F 25...S



F 25...R

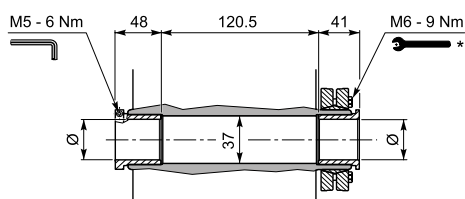
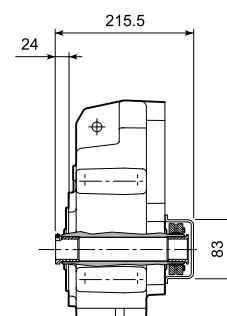


F 25...QF

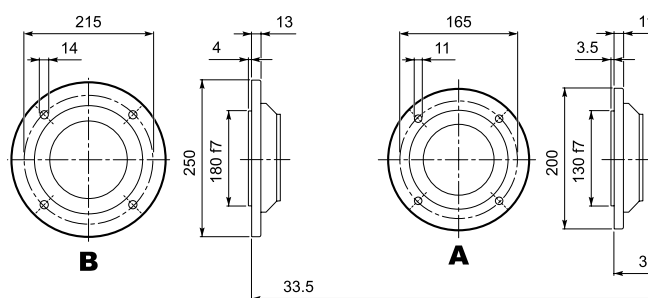
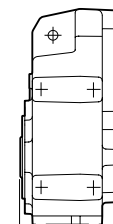
	Ø
QF30	30
QF32	32



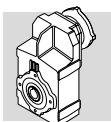
	M _{n2 max} [Nm]
F 25 QF30	350



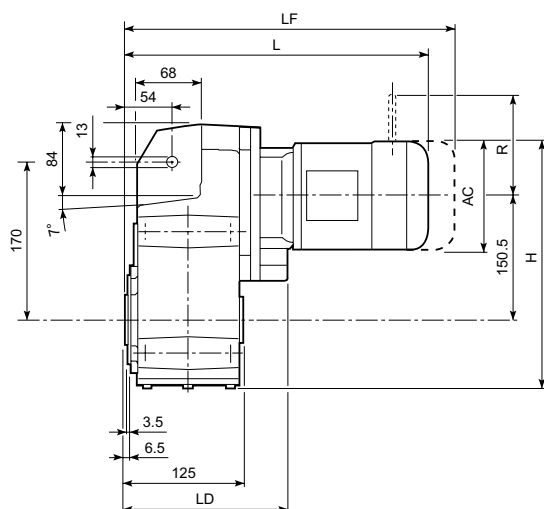
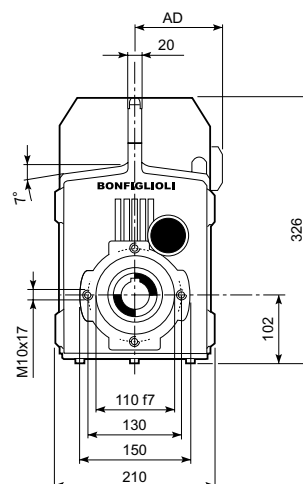
F 25...F...



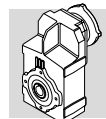
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



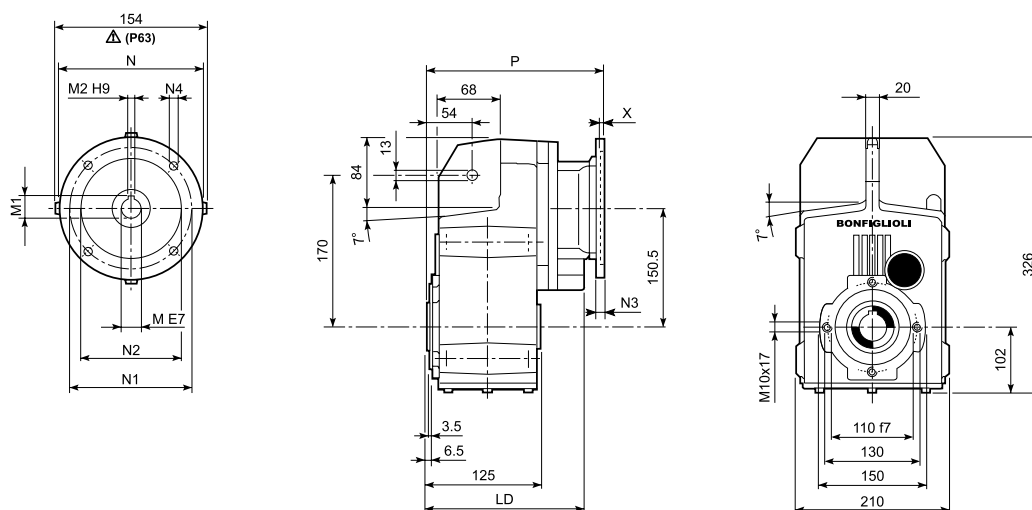
F 31...M/ME/MX/MXN



				Gearmotor - Without brake								Gearmotor - With brake							
				AC		H	L		LD	AD		M...FD				M...FDD			
							plastic	metal				LF		R	AD	plastic	metal		R
F 31 2/3	S1	M1		138	321.3	—	380.5	183.5	108	22	441.5	25	103	135	—	—	—	—	—
		ME1		138	321.3	—	380.5	183.5	108	22	441.5	25	103	135	—	—	—	—	—
		MX1		138	321.3	—	380.5	183.5	108	22	441.5	25	103	135	—	—	—	—	—
	SX10	MXN10		138	350.3	380.5	361	183.5	123.3	24.4	—	—	—	—	416.5	381.6	26.8	106	138
	S2	ME2S		156	330.3	—	409.5	195.5	119	26	479.5	27.8	129	143	—	—	—	—	—
		MX2S		156	330.3	—	453.5	195.5	119	31	525.5	35	129	143	—	—	—	—	—
	S3	ME3S		195	349.8	—	452.5	205.5	142	31	548.5	37.1	160	155	—	—	—	—	—
		MX3S		195	349.8	—	484.5	205.5	142	34	574.5	42.1	160	155	—	—	—	—	—
		ME3L		195	349.8	—	484.5	205.5	142	40	575.5	43.6	160	155	—	—	—	—	—
		MX3L		195	349.8	—	528.5	205.5	142	46	620.5	51.1	160	155	—	—	—	—	—
	S4	ME4	MX4	258	381.3	—	592.5	—	193	72	701.5	81.1	204	210	—	—	—	—	—
		ME4LA	MX4LA	258	381.3	—	592.5	—	193	78	690.5	95.1	226	210	—	—	—	—	—
F 31 4	S05	M05		121	312.8	—	409	—	95	20	475	22	96	122	—	—	—	—	—
		ME05		121	312.8	—	409	—	95	20	475	22	96	119	—	—	—	—	—
		MX05		121	312.8	—	409	—	95	20	475	22	96	119	—	—	—	—	—
	SX05	MXN05		123	360.3	409	387	—	122.3	21.8	—	—	—	—	436	401.7	22.9	106	136
	S1	M1		138	321.3	—	438	—	108	22	499	25	103	135	—	—	—	—	—
		ME1		138	321.3	—	438	—	108	22	499	25	103	135	—	—	—	—	—
		MX1		138	321.3	—	438	—	108	22	499	25	103	135	—	—	—	—	—
	SX10	MXN10		138	350.3	438	418.5	—	123.3	24.4	—	—	—	—	474	439.1	26.8	106	138
	S2	ME2S		156	330.3	—	467	—	119	26	537	27.8	129	143	—	—	—	—	—
		MX2S		156	330.3	—	511	—	119	31	583	35	129	143	—	—	—	—	—
	SX20	MXN20		158	368.8	511	494.7	—	132.8	33.3	—	—	—	—	552	513.8	35.5	115	148
	S3	ME3S		195	349.8	—	510	—	142	31	606	37.1	160	155	—	—	—	—	—
		MX3S		195	349.8	—	542	—	142	34	632	42.1	160	155	—	—	—	—	—
		ME3L		195	349.8	—	542	—	142	41	633	43.6	160	155	—	—	—	—	—
		MX3L		195	349.8	—	586	—	142	47	678	51.1	160	155	—	—	—	—	—

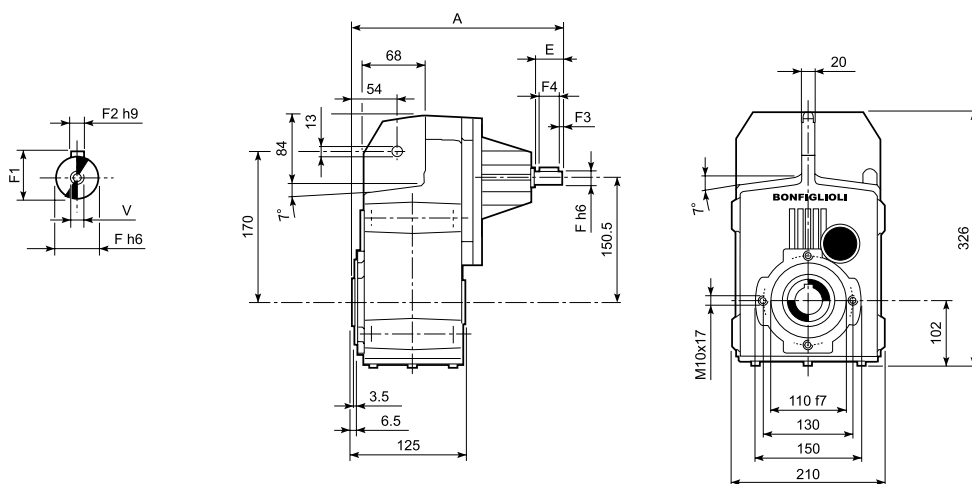


F 31...P(IEC)

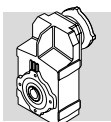


		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	
F 31 2/3	P63	195.5	11	12.8	4	140	115	95	—	M8x19	4	225.5	17
F 31 2/3	P71	195.5	14	16.3	5	160	130	110	—	M8x16	4.5	225.5	17
F 31 2/3	P80	205.5	19	21.8	6	200	165	130	—	M10x14.5	4	245	18
F 31 2/3	P90	205.5	24	27.3	8	200	165	130	—	M10x14.5	4	245	17
F 31 2/3	P100	205.5	28	31.3	8	250	215	180	—	M12x16	4.5	255	21
F 31 2/3	P112	205.5	28	31.3	8	250	215	180	—	M12x16	4.5	255	21
F 31 2/3	P132	—	38	41.3	10	300	265	230	—	14	5	291.5	24
F 31 4	P63	—	11	12.8	4	140	115	95	—	M8x19	4	283	17
F 31 4	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	283	17
F 31 4	P80	—	19	21.8	6	200	165	130	—	M10x14.5	4	302.5	18
F 31 4	P90	—	24	27.3	8	200	165	130	—	M10x14.5	4	302.5	18
F 31 4	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	312.5	22
F 31 4	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	312.5	22

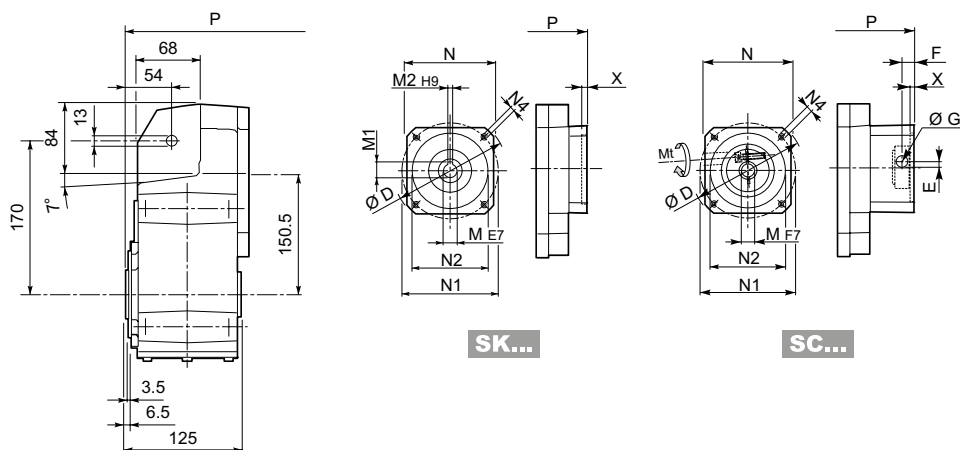
F 31...HS



		A	E	F	F1	F2	F3	F4	V	
F 31 2	HS	275.5	40	19	21.5	6	2.5	35	M6x16	16.7
F 31 3		275.5	40	19	21.5	6	2.5	35	M6x16	16.7
F 31 4		290	40	16	18	5	2.5	35	M6x16	16.5



F 31...SK / SC

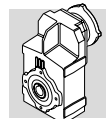


SK...

SC...

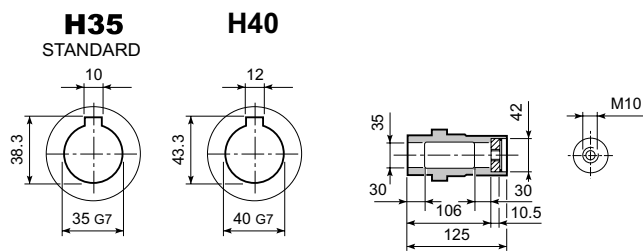
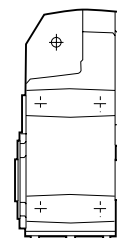
		D	M	M1	M2	N	N1	N2	N4	X	2/3x		4x	
											P		P	
F 31 2/3/4	SK 60A	102	11	12.8	4	82	75	60	M5x10	3.5	197	16	254.5	16
F 31 2/3/4	SK 60B	102	14	16.3	5	82	75	60	M5x10	4	204	17	261.5	17
F 31 2/3/4	SK 80A	115	14	16.3	5	90	100	80	M6x12	4	204	17	261.5	17
F 31 2/3/4	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	245	18	302.5	18
F 31 2/3/4	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	245	18	302.5	18
F 31 2/3/4	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	245	18	302.5	18
F 31 2/3/4	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	245	18	302.5	18
F 31 2/3/4	SK 110A	150	19	21.8	6	120	130	110	M8x12	5	245	18	302.5	18
F 31 2/3/4	SK 110B	150	24	27.3	8	120	130	110	M8x12	5	245	18	302.5	18
F 31 2/3	SK 130A	188	24	27.3	8	142	165	130	M10x20	5	245	18	—	—

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	2/3x		4x	
														P		P	
F 31 2/3/4	SC 60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	224	17	281.5	17
F 31 2/3/4	SC 60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	224	18	281.5	18
F 31 2/3/4	SC 80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	224	18	281.5	18
F 31 2/3/4	SC 80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	268.5	19	326	19
F 31 2/3/4	SC 95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	268.5	19	326	19
F 31 2/3/4	SC 95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	268.5	19	326	19
F 31 2/3/4	SC 95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	268.5	19	326	19
F 31 2/3/4	SC 110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	268.5	20	326	20
F 31 2/3/4	SC 110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	268.5	20	326	20
F 31 2/3	SC 130A	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	268.5	21	—	—

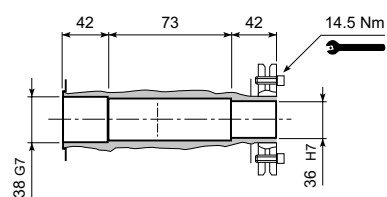
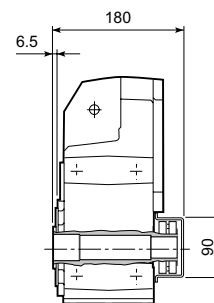


F 31

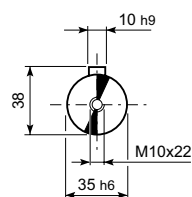
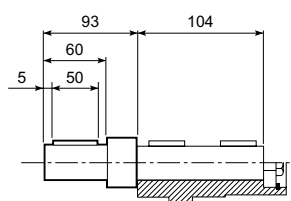
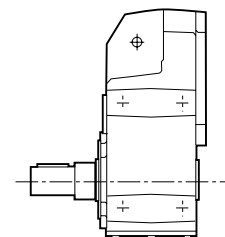
F 31...H



F 31...S

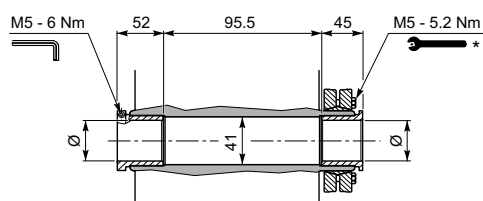
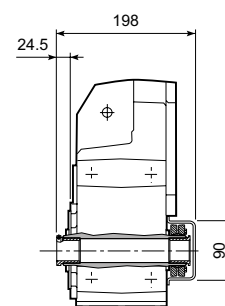


F 31...R

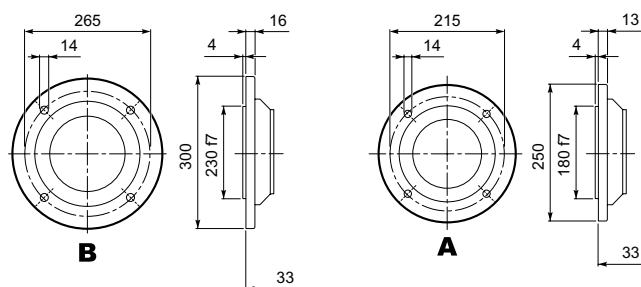
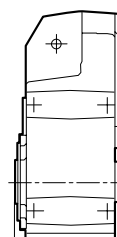


F 31...QF

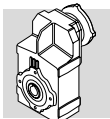
	Ø
QF35	35
QF40	40



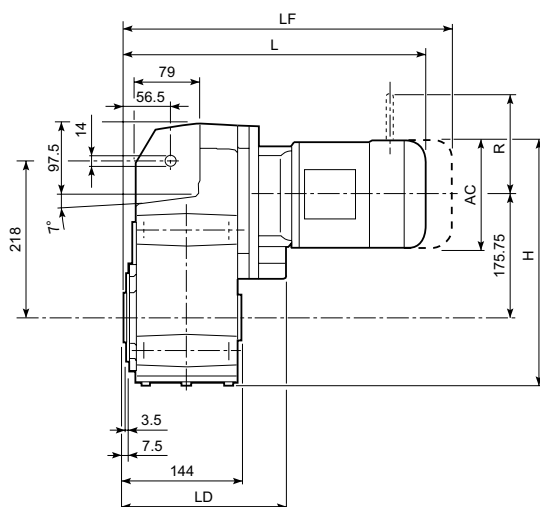
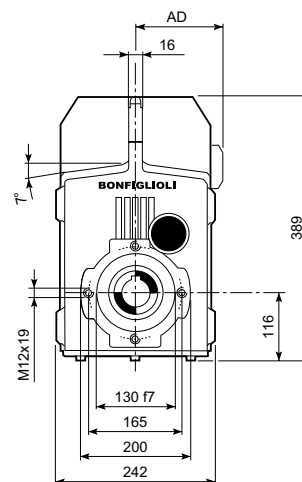
F 31...F...



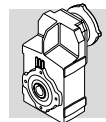
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



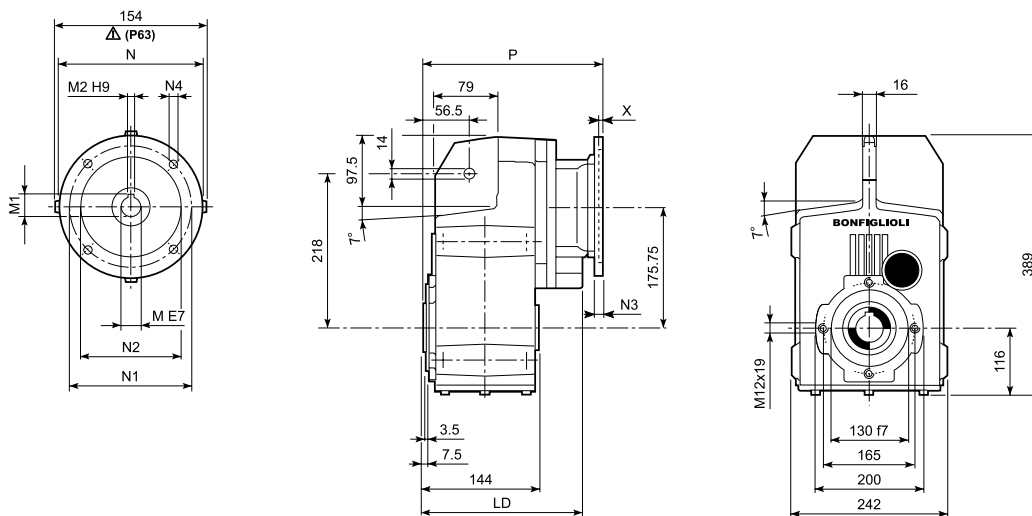
F 41...M/ME/MX/MXN



				Gearmotor - Without brake							Gearmotor - With brake									
				AC		H	L		LD	AD		M...FD				M...FDD				
							plastic	metal				LF		R	AD	LF			R	AD
F 41 2/3	S1	M1		138	360.8	—	401	199.5	108	46	462	48	103	135	—	—	—	—	—	
		ME1		138	360.8	—	401	199.5	108	46	462	48	103	135	—	—	—	—	—	
		MX1		138	360.8	—	401	199.5	108	46	462	48	103	135	—	—	—	—	—	
	S2	ME2S		156	369.8	—	430	215	119	49	500	51.8	129	143	—	—	—	—	—	
		MX2S		156	369.8	—	474	215	119	54	604	59	129	143	—	—	—	—	—	
	S3	ME3S		195	389.3	—	473	231	142	54	569	61.1	160	155	—	—	—	—	—	
		MX3S		195	389.3	—	505	231	142	57	595	66.1	160	155	—	—	—	—	—	
		ME3L		195	389.3	—	505	231	142	64	596	67.6	160	155	—	—	—	—	—	
	S4	MX3L		195	389.3	—	549	231	142	70	641	75.1	160	155	—	—	—	—	—	
		ME4	MX4	258	420.8	—	613	—	193	96	722	105.1	204	210	—	—	—	—	—	
		ME4LB	MX4LA	258	420.8	—	648	—	193	104	746	119.1	226	210	—	—	—	—	—	
F 41 4	S05	M05		121	352.3	—	433.5	—	95	45	499.5	46	96	122	—	—	—	—	—	
		ME05		121	352.3	—	433.5	—	95	45	499.5	46	96	119	—	—	—	—	—	
		MX05		121	352.3	—	433.5	—	95	45	499.5	46	96	119	—	—	—	—	—	
	SX05	MXN05	123	353.3	480	458	—	122.3	46.8	—	—	—	—	507	472.7	47.9	106	136		
	S1	M1		138	360.8	—	462.5	—	108	47	523.5	49	103	135	—	—	—	—	—	
		ME1		138	360.8	—	462.5	—	108	47	523.5	49	103	135	—	—	—	—	—	
		MX1		138	360.8	—	462.5	—	108	47	523.5	49	103	135	—	—	—	—	—	
	SX10	MXN10	138	360.8	491.5	472	—	123.3	49.4	—	—	—	—	527.5	492.6	51.8	106	138		
	S2	ME2S		156	369.8	—	491.5	—	119	50	561.5	52.8	129	143	—	—	—	—	—	
		MX2S		156	369.8	—	535.5	—	119	55	607.5	60	129	143	—	—	—	—	—	
	SX20	MXN20	158	370.8	589	572.7	—	132.8	57.2	—	—	—	—	630	591.8	59.4	115	148		
	S3	ME3S		195	389.3	—	534.5	—	142	55	630.5	62.1	160	155	—	—	—	—	—	
		MX3S		195	389.3	—	566.5	—	142	58	656.5	67.1	160	155	—	—	—	—	—	
		ME3L		195	389.3	—	566.5	—	142	65	657.5	68.6	160	155	—	—	—	—	—	
		MX3L		195	389.3	—	610.5	—	142	71	702.5	76.1	160	155	—	—	—	—	—	

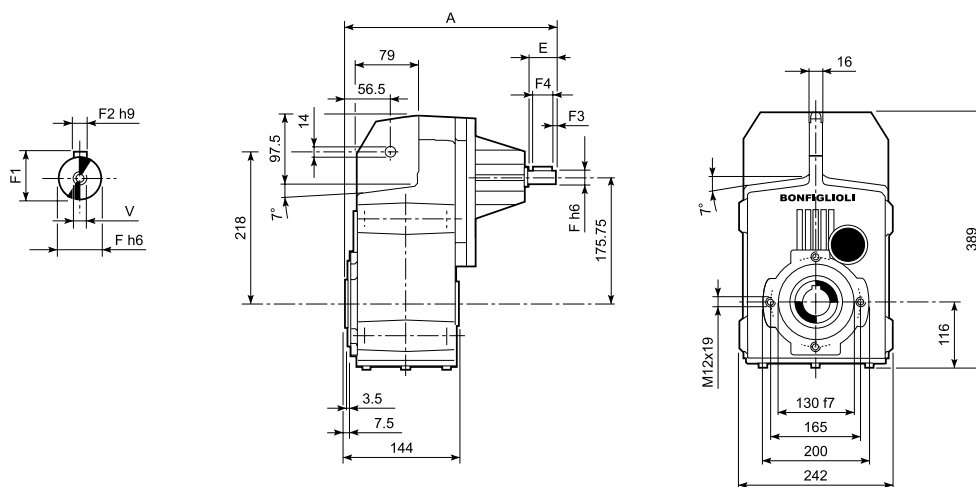


F 41...P(IEC)

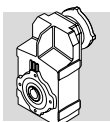


		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 41 2/3	P63	215	11	12.8	4	140	115	95	—	M8x19	4	246	42
F 41 2/3	P71	215	14	16.3	5	160	130	110	—	M8x16	4.5	246	42
F 41 2/3	P80	231	19	21.8	6	200	165	130	—	M10x14.5	4	265.5	43
F 41 2/3	P90	231	24	27.3	8	200	165	130	—	M10x14.5	4	265.5	43
F 41 2/3	P100	231	28	31.3	8	250	215	180	—	M12x16	4.5	275.5	47
F 41 2/3	P112	231	28	31.3	8	250	215	180	—	M12x16	4.5	275.5	47
F 41 2/3	P132	—	38	41.3	10	300	265	230	16	14	5	312	50
F 41 4	P63	—	11	12.8	4	140	115	95	—	M8x19	4	307.5	44
F 41 4	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	307.5	44
F 41 4	P80	—	19	21.8	6	200	165	130	—	M10x14.5	4	327	45
F 41 4	P90	—	24	27.3	8	200	165	130	—	M10x14.5	4	327	45
F 41 4	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	337	49
F 41 4	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	337	49

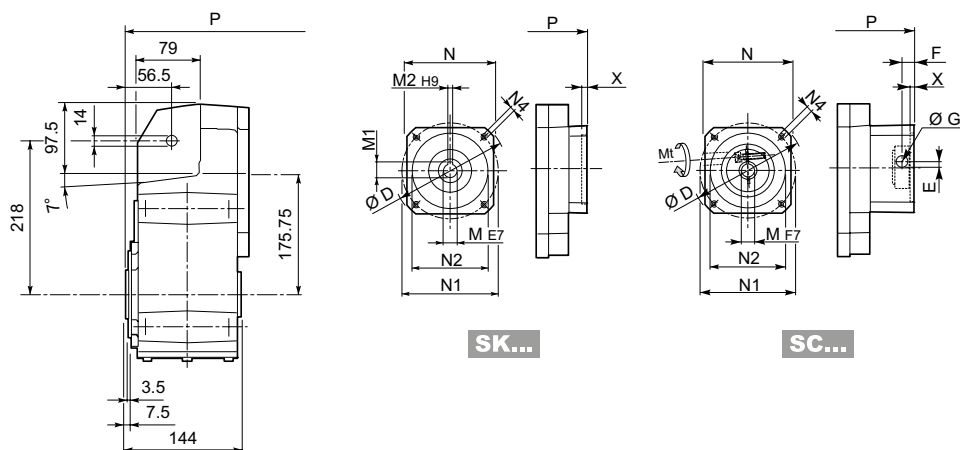
F 41...HS



		A	E	F	F1	F2	F3	F4	V	Kg
F 41 2	HS	335.5	50	24	27	8	2.5	45	M8x19	44.9
F 41 3		335.5	50	24	27	8	2.5	45	M8x19	46.4
F 41 4		357.5	40	19	21.5	6	2.5	35	M6x16	43.5

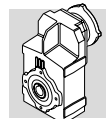


F 41...SK / SC



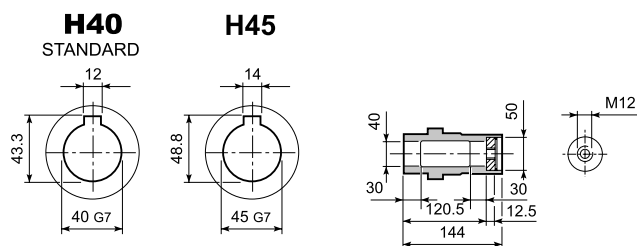
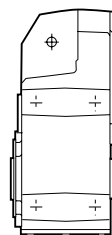
		D	M	M1	M2	N	N1	N2	N4	X	2/3x		4x	
											P		P	
F 41 4	SK 60A	102	11	12.8	4	82	75	60	M5x10	3.5	—	—	279	43
F 41 4	SK 60B	102	14	16.3	5	82	75	60	M5x10	4	—	—	286	44
F 41 4	SK 80A	115	14	16.3	5	90	100	80	M6x12	4	—	—	286	44
F 41 2/3	SK 80B	120	14	16.3	5	96	100	80	M6x12	4	265.5	43	—	—
F 41 2/3/4	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	265.5	43	327	45
F 41 2/3/4	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	265.5	43	327	45
F 41 2/3/4	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	265.5	43	327	45
F 41 2/3/4	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	265.5	43	327	45
F 41 2/3/4	SK 110A	150	19	21.8	6	120	130	110	M8x12	5	265.5	43	327	45
F 41 2/3/4	SK 110B	150	24	27.3	8	120	130	110	M8x12	5	265.5	43	327	45
F 41 2/3	SK 130A	188	24	27.3	8	142	165	130	M10x20	5	265.5	45	—	—
F 41 2/3	SK 130B	189	32	35.3	10	160	165	130	M10x20	5	312	47	—	—
F 41 2/3	SK 180A	240	32	35.3	10	192	215	180	M12x19	5	312	47	—	—
F 41 2/3	SK 180B	240	38	41.3	10	192	215	180	M12x19	5	312	47	—	—

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	2/3x		4x	
														P		P	
F 41 4	SC 60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	—	—	306	44
F 41 4	SC 60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	—	—	306	45
F 41 4	SC 80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	—	—	306	45
F 41 2/3	SC 80B	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	289	44	—	—
F 41 2/3/4	SC 80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	289	44	350.5	46
F 41 2/3/4	SC 95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	289	44	350.5	46
F 41 2/3/4	SC 95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	289	44	350.5	46
F 41 2/3/4	SC 95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	289	44	350.5	46
F 41 2/3/4	SC 110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	289	45	350.5	47
F 41 2/3/4	SC 110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	289	45	350.5	47
F 41 2/3	SC 130A	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	289	46	—	—
F 41 2/3	SC 130B	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	335	50	—	—
F 41 2/3	SC 180A	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	339	50	—	—
F 41 2/3	SC 180B	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	339	50	—	—

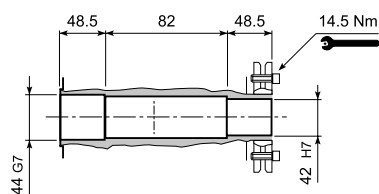
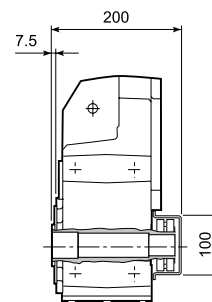


F 41

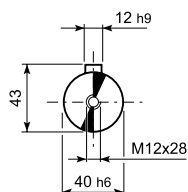
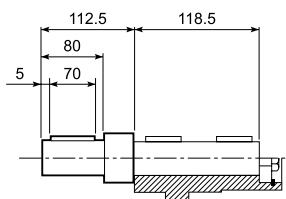
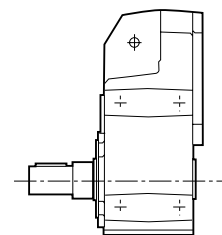
F 41...H



F 41...S



F 41...R

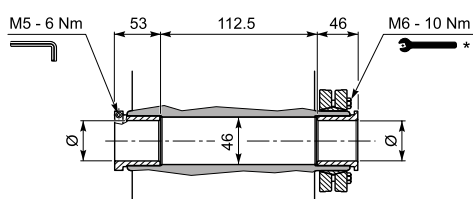
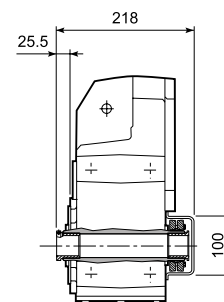


F 41...QF

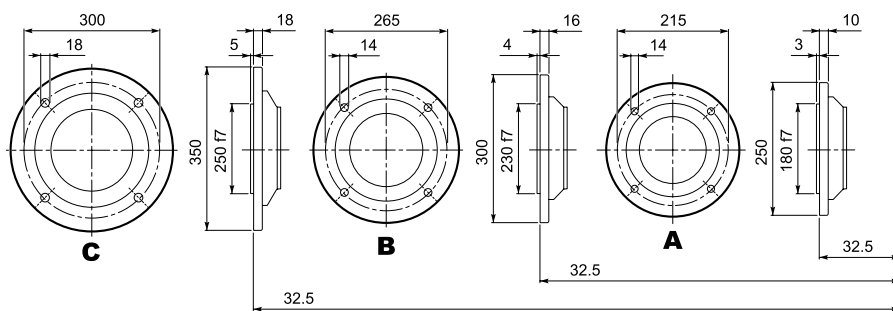
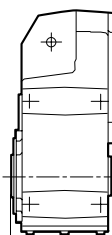
	Ø
QF42	42
QF45	45



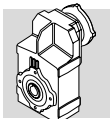
	M _{n2 max} [Nm]
F 41 QF42	850
F 41 QF45	1000



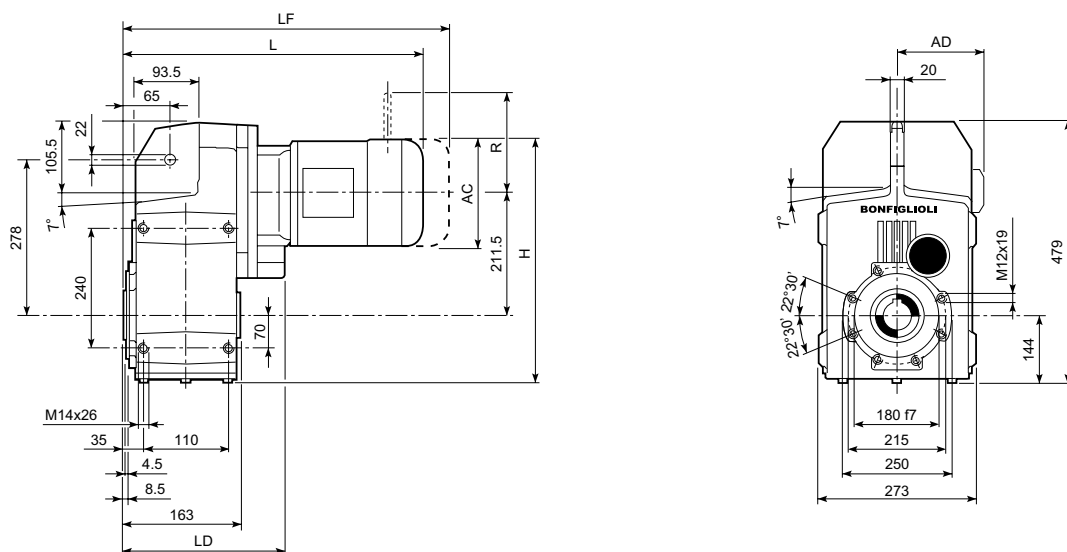
F 41...F...



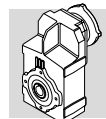
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



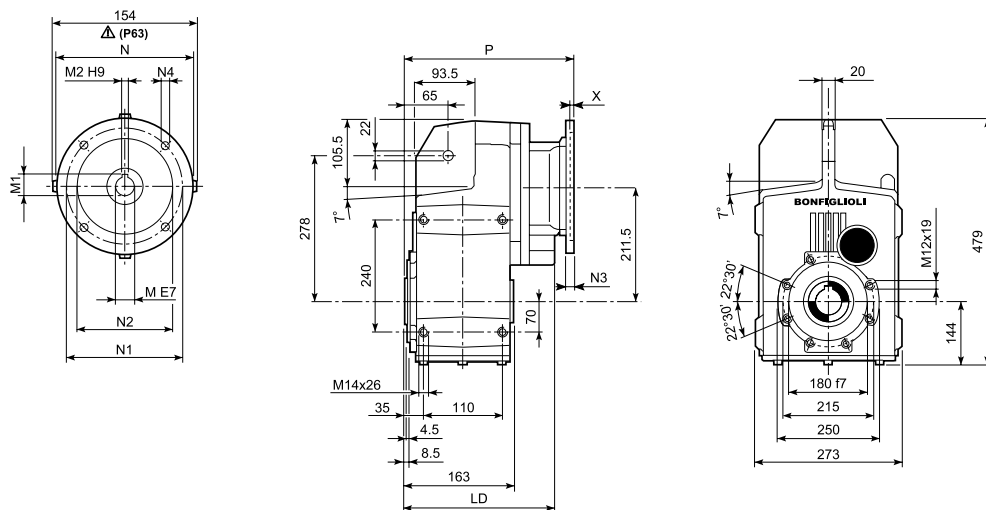
F 51...M/ME/MX/MXN



				Gearmotor - Without brake							Gearmotor - With brake								
				AC	H	L		LD	AD		M...FD				M...FDD				
						plastic	metal				LF		R	AD	LF			R	AD
															plastic	metal		R	AD
F 51 2/3	S1	M1		138	424	—	423	—	108	73	484	76	103	135	—	—	—	—	—
		ME1		138	424	—	423	—	108	73	484	75	103	135	—	—	—	—	—
		MX1		138	424	—	423	—	108	73	484	75	103	135	—	—	—	—	—
	S2	ME2S		156	433	—	452	238	119	73	522	78.8	129	143	—	—	—	—	—
		MX2S		156	433	—	496	238	119	78	568	86	129	143	—	—	—	—	—
	S3	ME3S		195	452.5	—	495	253	142	77	591	88.1	160	155	—	—	—	—	—
		MX3S		195	452.5	—	527	253	142	80	617	93.1	160	155	—	—	—	—	—
		ME3L		195	452.5	—	527	253	142	87	618	94.6	160	155	—	—	—	—	—
	S4	ME4	MX4	258	484	—	635	238	193	119	744	132.1	204	210	—	—	—	—	—
		ME4LB	MX4LA	258	484	—	670	238	193	127	768	146.1	226	210	—	—	—	—	—
	S5	ME5S	MX5S	310	510	—	721.5	—	245	153	861.5	206.1	266	245	—	—	—	—	—
		ME5L	MX5L	310	510	—	765.5	—	245	169	899.5	217.1	266	245	—	—	—	—	—
F 51 4	S1	M1		138	424	—	494.5	—	108	75	555.5	78	103	135	—	—	—	—	—
		ME1		138	424	—	494.5	—	108	75	555.5	77	103	135	—	—	—	—	—
		MX1		138	424	—	494.5	—	108	75	555.5	77	103	135	—	—	—	—	—
	SX10	MXN10		138	424	523.5	504	—	123.3	77.4	—	—	—	—	559.5	524.6	79.8	106	138
	S2	ME2S		156	433	—	523.5	—	119	79	593.5	80.8	129	143	—	—	—	—	—
		MX2S		156	433	—	567.5	—	119	79	639.5	88	129	143	—	—	—	—	—
	S3	ME3S		195	452.5	—	566.5	—	142	84	662.5	90.1	160	155	—	—	—	—	—
		MX3S		195	452.5	—	598.5	—	142	84	688.5	95.1	160	155	—	—	—	—	—
		ME3L		195	452.5	—	598.5	—	142	93	689.5	96.6	160	155	—	—	—	—	—
		MX3L		195	452.5	—	642.5	—	142	93	734.5	104.1	160	155	—	—	—	—	—

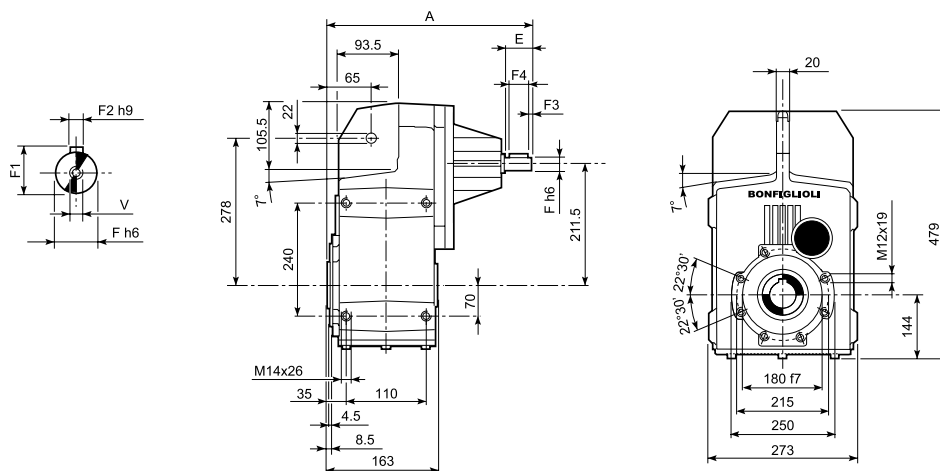


F 51...P(IEC)

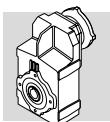


		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	
F 51 2/3	P63	238	11	12.8	4	140	115	95	—	M8x19	4	268	65
F 51 2/3	P71	238	14	16.3	5	160	130	110	—	M8x16	4.5	268	65
F 51 2/3	P80	253	19	21.8	6	200	165	130	—	M10x14.5	4	287.5	67
F 51 2/3	P90	253	24	27.3	8	200	165	130	—	M10x14.5	4	287.5	67
F 51 2/3	P100	238	28	31.3	8	250	215	180	—	M12x16	4.5	297.5	71
F 51 2/3	P112	238	28	31.3	8	250	215	180	—	M12x16	4.5	297.5	71
F 51 2/3	P132	238	38	41.3	10	300	265	230	16	14	5	334	74
F 51 2/3	P160	—	42	45.3	12	350	300	250	23	18	5.5	384.5	78
F 51 2/3	P180	—	48	51.8	14	350	300	250	23	18	5.5	384.5	78
F 51 4	P63	—	11	12.8	4	140	115	95	—	M8x19	4	339.5	70
F 51 4	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	339.5	70
F 51 4	P80	—	19	21.8	6	200	165	130	—	M10x14.5	4	359	71
F 51 4	P90	—	24	27.3	8	200	165	130	—	M10x14.5	4	359	71
F 51 4	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	369	75
F 51 4	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	369	75

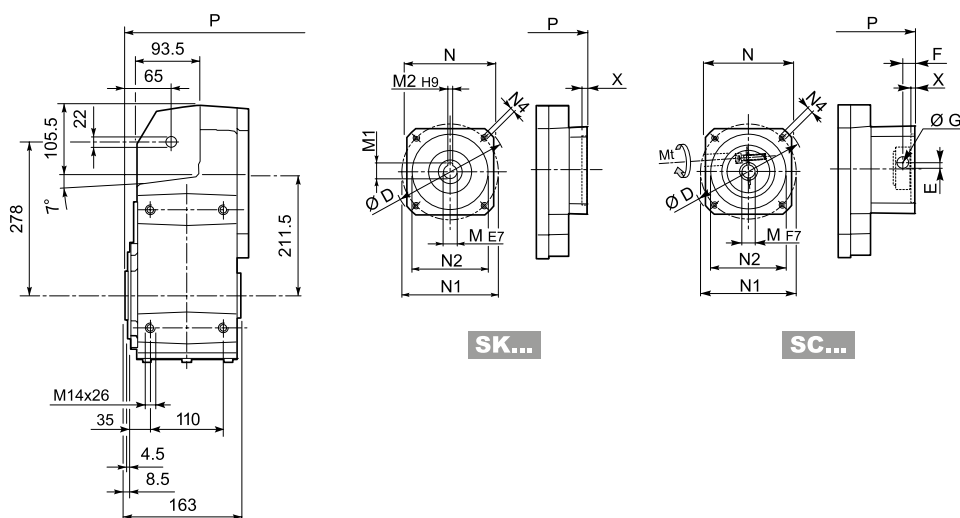
F 51...HS



		A	E	F	F1	F2	F3	F4	V	
F 51 2	HS	357.5	50	24	27	8	2.5	45	M8x19	65
F 51 3		357.5	50	24	27	8	2.5	45	M8x19	68
F 51 4		389.5	40	19	21.5	6	2.5	35	M6x16	70

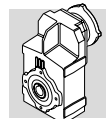


F 51...SK / SC



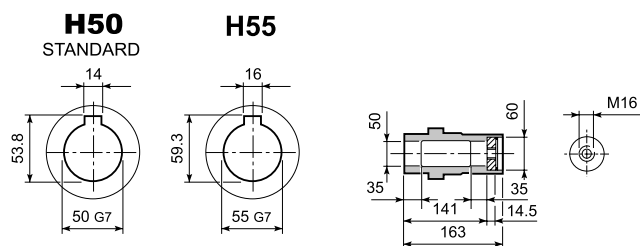
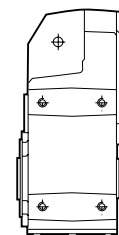
		D	M	M1	M2	N	N1	N2	N4	X	2/3x		4x	
											P		P	
F 51 2/3	SK 80B	120	14	16.3	5	96	100	80	M6x12	4	287.5	67	—	—
F 51 2/3/4	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	287.5	67	359	71
F 51 2/3/4	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	287.5	67	359	71
F 51 2/3/4	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	287.5	67	359	71
F 51 2/3/4	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	287.5	67	359	71
F 51 2/3/4	SK 110A	150	19	21.8	6	120	130	110	M8x12	5	287.5	67	359	71
F 51 2/3/4	SK 110B	150	24	27.3	8	120	130	110	M8x12	5	287.5	67	359	71
F 51 2/3/4	SK 130A	188	24	27.3	8	142	165	130	M10x20	5	287.5	69	359	73
F 51 2/3	SK 130B	189	32	35.3	10	160	165	130	M10x20	5	334	75	—	—
F 51 2/3	SK 180A	240	32	35.3	10	192	215	180	M12x19	5	334	75	—	—
F 51 2/3	SK 180B	240	38	41.3	10	192	215	180	M12x19	5	334	75	—	—

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	2/3x		4x	
														P		P	
F 51 2/3	SC 80B	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	311	70	—	—
F 51 2/3/4	SC 80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	311	70	382.5	74
F 51 2/3/4	SC 95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	311	70	382.5	74
F 51 2/3/4	SC 95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	311	70	382.5	74
F 51 2/3/4	SC 95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	311	70	382.5	74
F 51 2/3/4	SC 110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	311	71	382.5	75
F 51 2/3/4	SC 110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	311	71	382.5	75
F 51 2/3/4	SC 130A	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	311	72	382.5	76
F 51 2/3	SC 130B	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	357	75	—	—
F 51 2/3	SC 180A	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	361	75	—	—
F 51 2/3	SC 180B	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	361	75	—	—

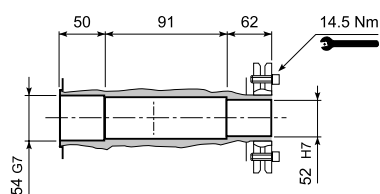
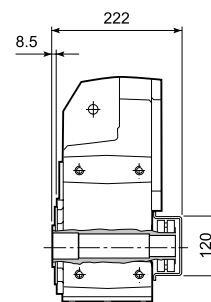


F 51

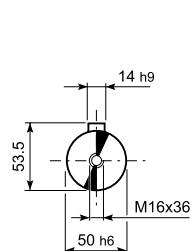
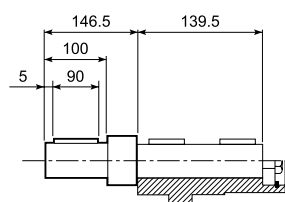
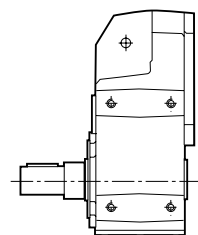
F 51...H



F 51...S



F 51...R

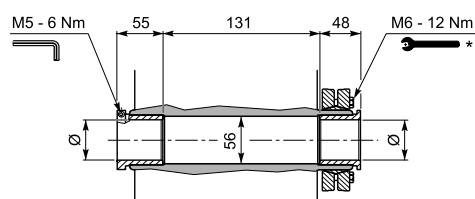
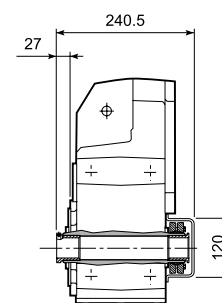


F 51...QF

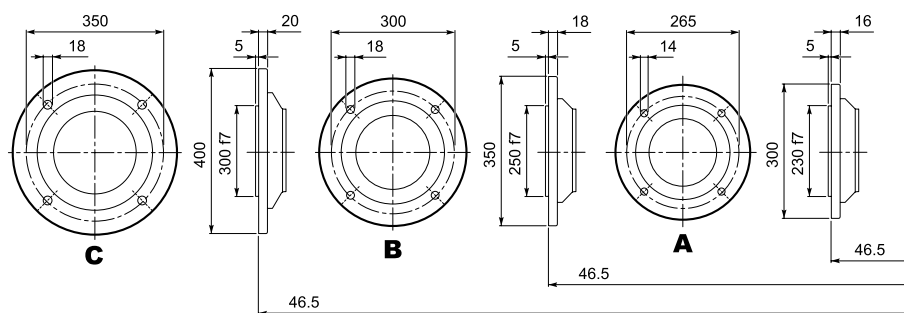
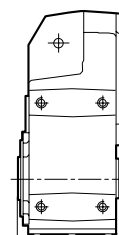
	Ø
QF50	50
QF55	55



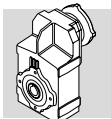
	M _{n2 max} [Nm]
F 51 QF50	1750



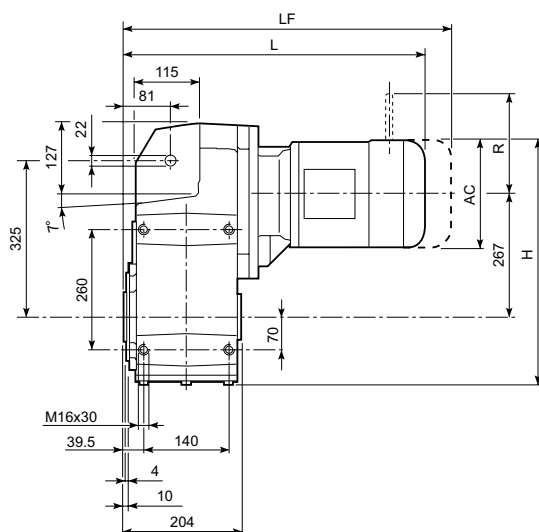
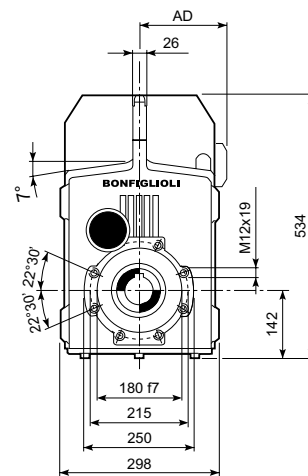
F 51...F...



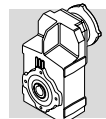
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



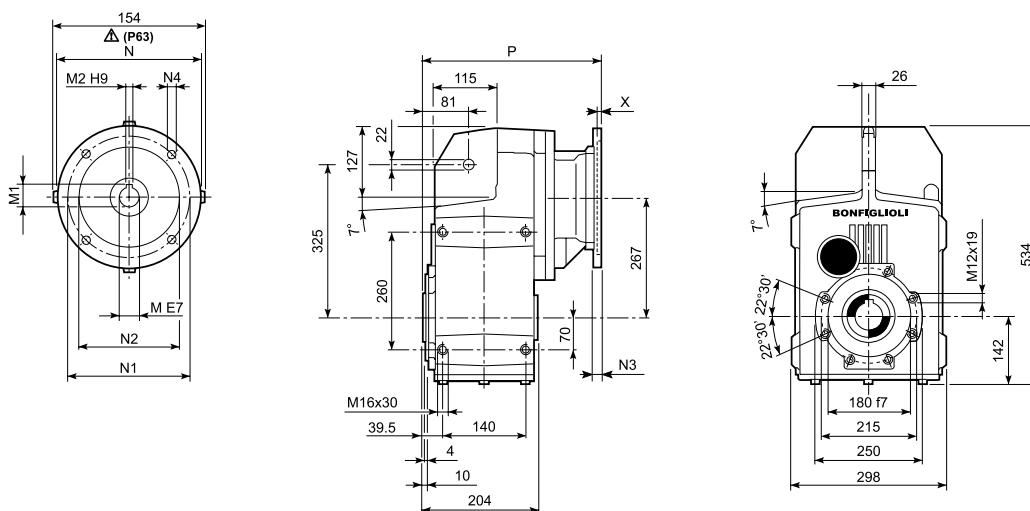
F 60...M/ME/MX



				Gearmotor - Without brake					Gearmotor - With brake			
									M...FD			
				AC	H	L	AD		LF		R	AD
F 60 3	S2	ME2S		156	487	486.5	119	114	556.5	116.1	129	143
		MX2S		156	487	530.5	119	119	602.5	123.3	129	143
	S3	ME3S		195	506.5	529.5	142	119	625.5	125.4	160	155
		MX3S		195	506.5	561.5	142	122	639.5	130.4	160	155
		ME3L		195	506.5	561.5	142	124	652.5	131.9	160	155
		MX3L		195	506.5	605.5	142	130	681.5	139.4	160	155
	S4	ME4	MX4	258	538	669.5	193	156	754.5	169.4	204	210
		ME4LB	MX4LA	258	538	704.5	193	164	779.5	183.4	226	210
	S5	ME5S	MX5S	310	564	756	245	184	842.5	243.4	266	245
		ME5L	MX5L	310	564	800	245	200	886.5	254.4	266	245
F 60 4	S1	M1		138	478	528	108	113	589	116	103	135
		ME1		138	478	528	108	113	589	116	103	135
		MX1		138	478	528	108	113	589	116	103	135
	S2	ME2S		156	487	557	119	117	627	118.8	129	143
		MX2S		156	487	601	119	122	659	126	129	143
	S3	ME3S		195	506.5	600	142	122	696	128.1	160	155
		MX3S		195	506.5	632	142	125	696	133.1	160	155
		ME3L		195	506.5	632	142	131	723	134.6	160	155
		MX3L		195	506.5	676	142	137	738	142.1	160	155
	S4	ME4	MX4	258	538	740	193	156	811	172.1	204	210
		ME4LB	MX4LA	258	538	775	193	164	836	186.1	226	210

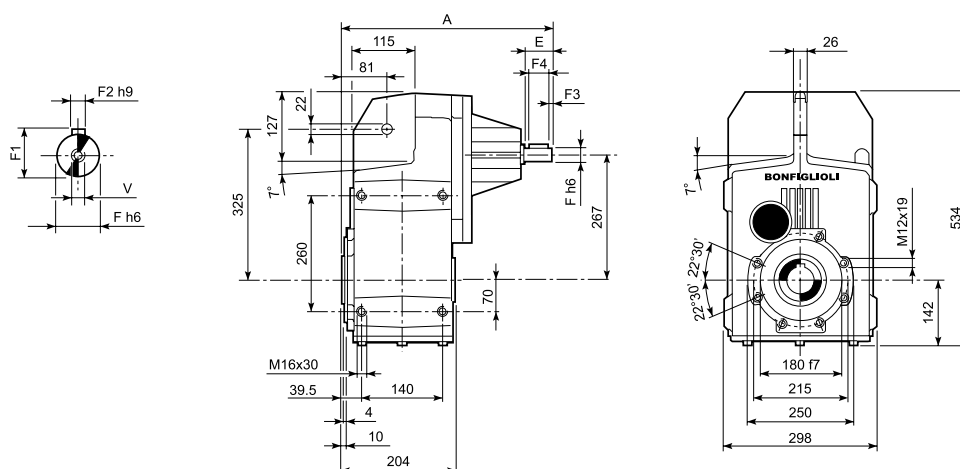


F 60...P(IEC)

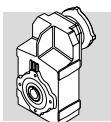


		M	M1	M2	N	N1	N2	N3	N4	X	P	
F 60 3	P63	11	12.8	4	140	115	95	—	M8x19	4	302.5	103
F 60 3	P71	14	16.3	5	160	130	110	—	M8x16	4.5	302.5	103
F 60 3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	322	104
F 60 3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	322	104
F 60 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	331	108
F 60 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	331	108
F 60 3	P132	38	41.3	10	300	265	230	16	14	5	367.5	111
F 60 3	P160	42	45.3	12	350	300	250	23	18	5.5	419	116
F 60 3	P180	48	51.8	14	350	300	250	23	18	5.5	419	116
F 60 4	P63	11	12.8	4	140	115	95	—	M8x19	4	373	108
F 60 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	373	108
F 60 4	P80	19	21.8	6	200	165	130	—	M10x14.5	4	392.5	110
F 60 4	P90	24	27.3	8	200	165	130	—	M10x14.5	4	392.5	110
F 60 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	402.5	114
F 60 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	402.5	114

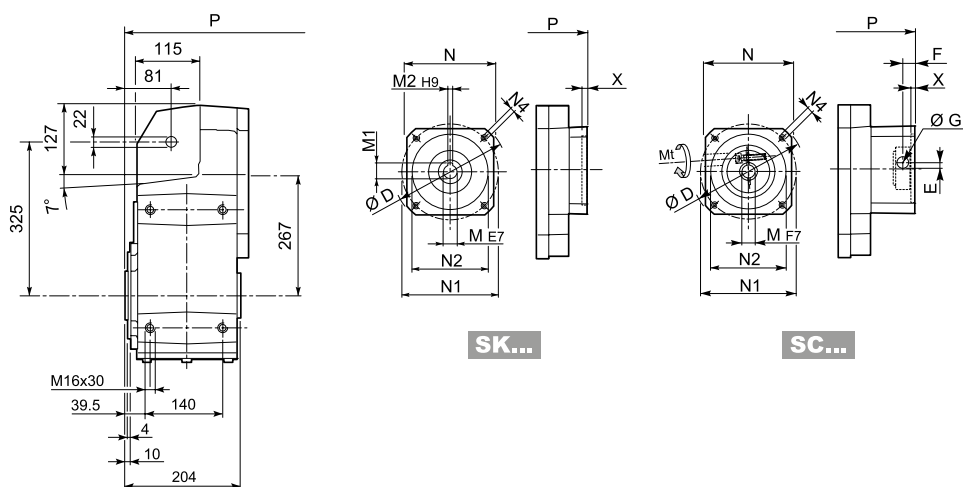
F 60...HS



		A	E	F	F1	F2	F3	F4	V	
F 60 3	HS	419	60	28	31	8	5.0	50	M10x22	108
F 60 4		462.5	50	24	27	8	2.5	45	M8x19	105

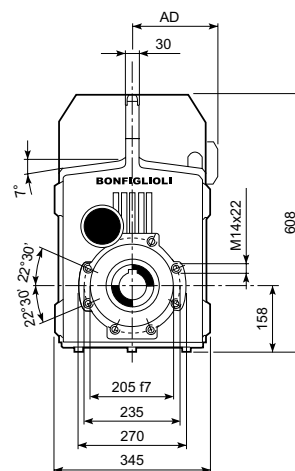


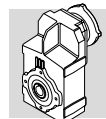
F 60...SK / SC



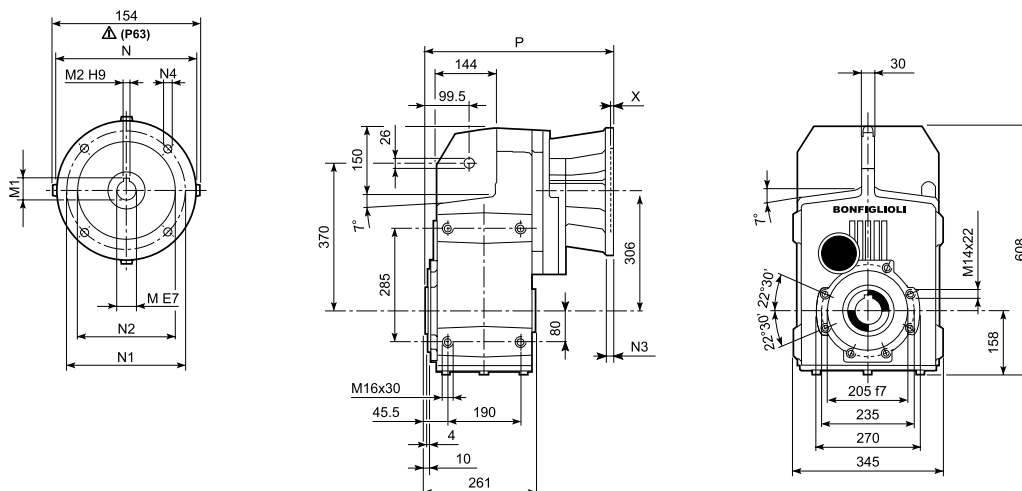
		D	M	M1	M2	N	N1	N2	N4	X	2/3x		4x	
											P		P	
F 60 4	SK 80B	120	14	16.3	5	96	100	80	M6x12	4	—	—	392.5	109
F 60 3/4	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	322	106	392.5	112
F 60 3/4	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	322	106	392.5	112
F 60 3/4	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	322	106	392.5	112
F 60 3/4	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	322	106	392.5	112
F 60 3/4	SK 110A	140	19	21.8	6	120	130	110	M8x12	5	322	106	392.5	112
F 60 3/4	SK 110B	140	24	27.3	8	120	130	110	M8x12	5	322	106	392.5	112
F 60 3/4	SK 130A	188	24	27.3	8	142	165	130	M10x20	5	322	108	392.5	112
F 60 3	SK 130B	189	32	35.3	10	160	165	130	M10x20	5	368.5	109	—	—
F 60 3	SK 180A	240	32	35.3	10	192	215	180	M12x19	5	368.5	109	—	—
F 60 3	SK 180B	240	38	41.3	10	192	215	180	M12x19	5	368.5	109	—	—

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	2/3x		4x	
														P		P	
F 60 4	SC 80B	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	—	—	416	113
F 60 3/4	SC 80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	345.5	107	416	113
F 60 3/4	SC 95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	345.5	107	416	113
F 60 3/4	SC 95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	345.5	107	416	113
F 60 3/4	SC 95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	345.5	107	416	113
F 60 3/4	SC 110A	M6	15	140	16.5	16	17.75	19	120	130	110	M8x16	5	345.5	108	416	113
F 60 3/4	SC 110B	M6	15	140	16.5	16	17.75	24	120	130	110	M8x16	5	345.5	108	416	113
F 60 3/4	SC 130A	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	345.5	109	416	115
F 60 3	SC 130B	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	390.5	112	—	—
F 60 3	SC 180A	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	394.5	112	—	—
F 60 3	SC 180B	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	394.5	112	—	—

514

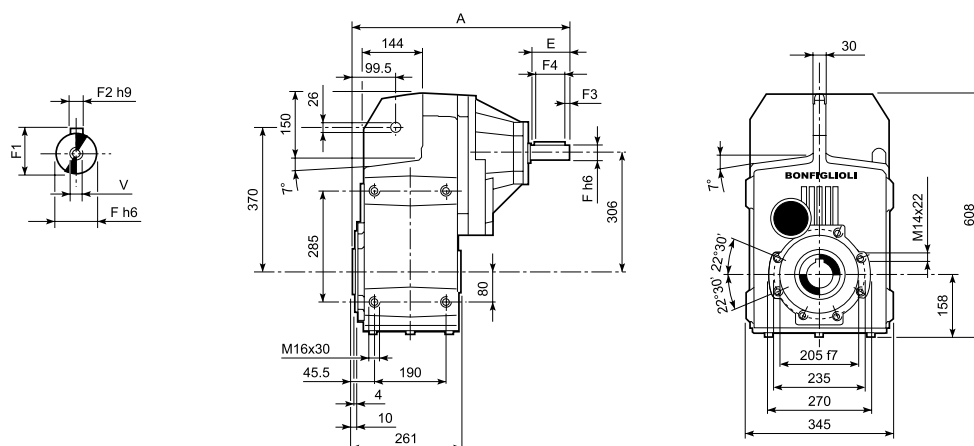


F 70...P(IEC)

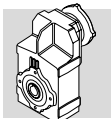


		M	M1	M2	N	N1	N2	N3	N4	X	P	
F 70 3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	387.5	167
F 70 3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	387.5	167
F 70 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	397.5	171
F 70 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	397.5	171
F 70 3	P132	38	41.3	10	300	265	230	16	14	5	434	173
F 70 3	P160	42	45.3	12	350	300	250	23	18	6	489.5	185
F 70 3	P180	48	51.8	14	350	300	250	23	18	6	489.5	185
F 70 3	P200	55	59.3	16	400	350	300	—	M16x25	7	514.5	206
F 70 4	P63	11	12.8	4	140	115	95	—	M8x19	4	419	168
F 70 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	419	168
F 70 4	P80	19	21.8	6	200	165	130	—	M10x14.5	4	438.5	170
F 70 4	P90	24	27.3	8	200	165	130	—	M10x14.5	4	438.5	170
F 70 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	446.5	174
F 70 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	446.5	174
F 70 4	P132	38	41.3	10	300	265	230	16	14	5	482	176

F 70...HS

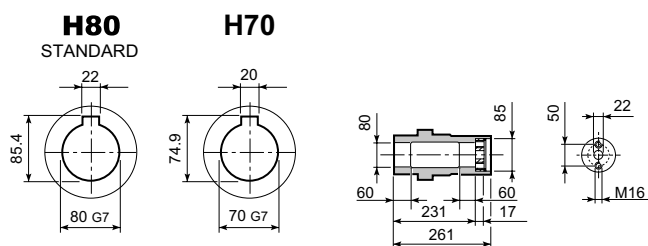


		A	E	F	F1	F2	F3	F4	V	
F 70 3	HS	572	110	42	45	12	10	90	M12x28	186
F 70 4		508.5	50	24	27	8	2.5	45	M8x19	174

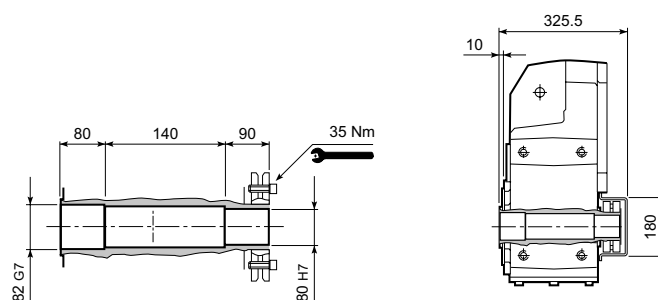


F 70

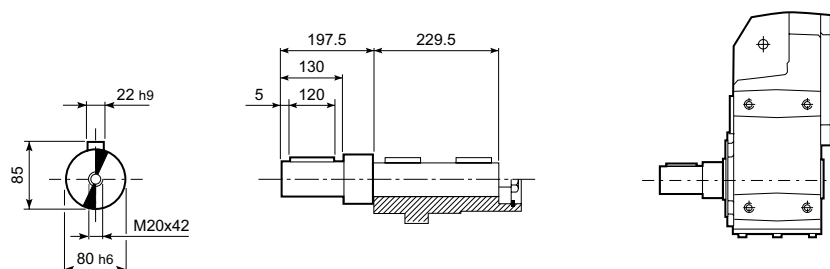
F 70...H



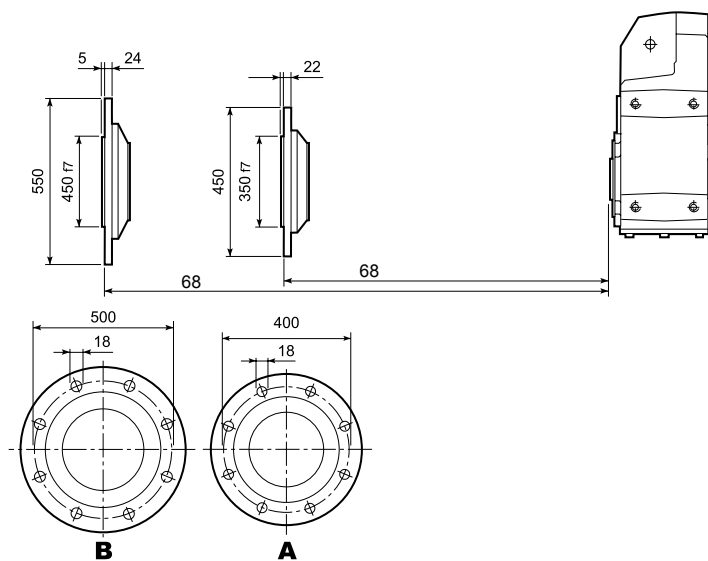
F 70...S

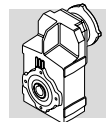


F 70...R

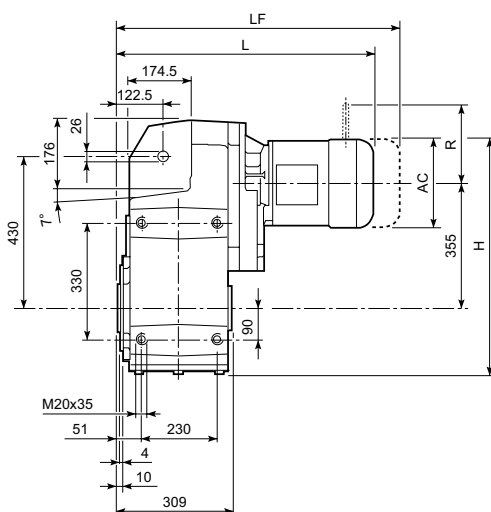
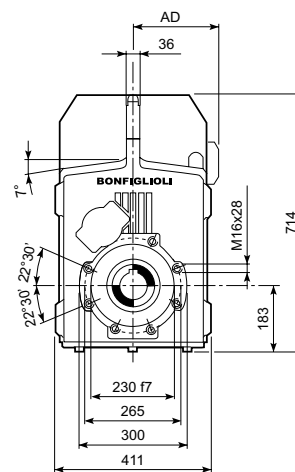


F 70...F...

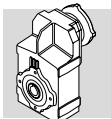




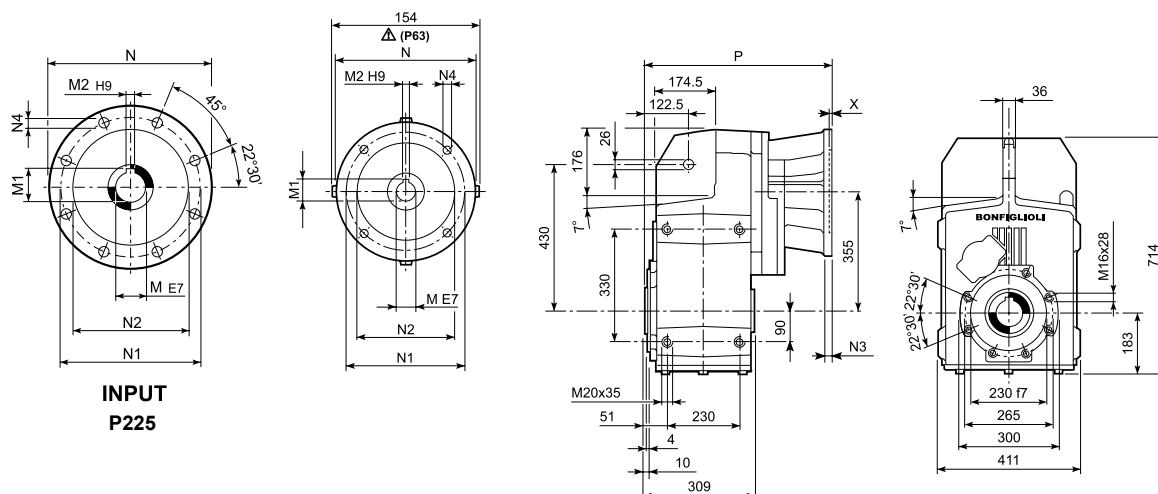
F 80...M/ME/MX



				Gearmotor - Without brake					Gearmotor - With brake			
									M...FD			
				AC	H	L	AD		LF		R	AD
F 80 3	S3	ME3S		195	635.5	653	142	266	749	272.5	160	155
		MX3S		195	635.5	685	142	269	775	277.5	160	155
		ME3L		195	635.5	685	142	275	776	279	160	155
		MX3L		195	635.5	729	142	281	821	286.5	160	155
	S4	ME4	MX4	258	667	793	193	307	902	316.5	204	210
		ME4LB	MX4LA	258	667	828	193	315	926	330.5	226	210
	S5	ME5S	MX5S	310	693	879.5	245	335	1019.5	390.5	266	245
		ME5L	MX5L	310	693	923.5	245	351	1057.5	401.5	266	245
F 80 4	S1	M1		138	607	644	108	262	705	265	103	135
		ME1		138	607	644	108	262	705	265	103	135
		MX1		138	607	644	108	262	705	265	103	135
	S2	ME2S		156	616	673	119	266	743	263.2	129	143
		MX2S		156	616	717	119	271	789	270.4	129	143
	S3	ME3S		195	635.5	716	142	271	812	272.5	160	155
		MX3S		195	635.5	748	142	274	838	277.5	160	155
		ME3L		195	635.5	748	142	280	839	279	160	155
		MX3L		195	635.5	792	142	286	884	286.5	160	155
	S4	ME4	MX4	258	667	856	193	312	965	316.5	204	210
		ME4LB	MX4LA	258	667	891	193	320	989	330.5	226	210

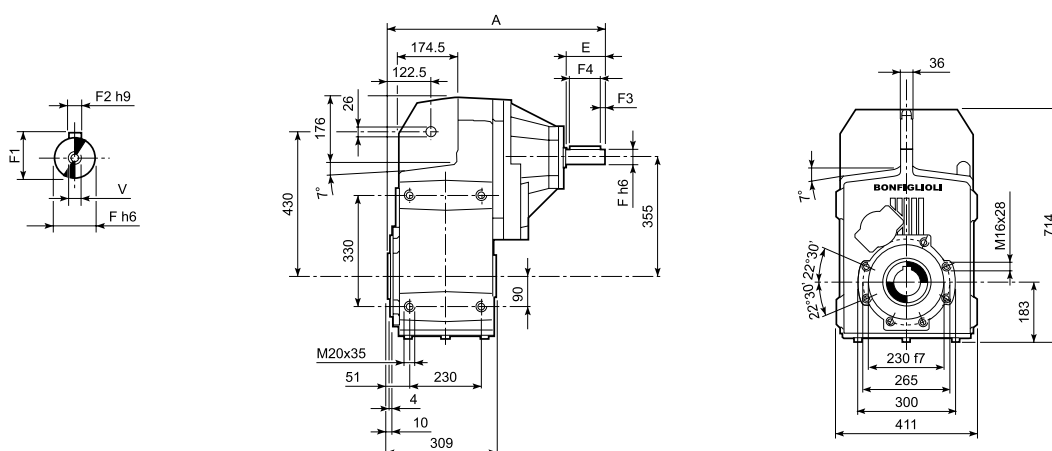


F 80...P(IEC)

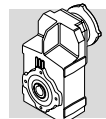


		M	M1	M2	N	N1	N2	N3	N4	X	P	
F 80 3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	445.5	255
F 80 3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	445.5	255
F 80 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	455.5	259
F 80 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	455.5	259
F 80 3	P132	38	41.3	10	300	265	230	16	14	5	492	261
F 80 3	P160	42	45.3	12	350	300	250	23	18	6	547.5	276
F 80 3	P180	48	51.8	14	350	300	250	23	18	6	547.5	276
F 80 3	P200	55	59.3	16	400	350	300	—	M16x25	7	572.5	298
F 80 3	P225	60	64.4	18	450	400	350	25	18	6	618	298
F 80 4	P63	11	12.8	4	140	115	95	—	M8x19	4	489	258
F 80 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	489	258
F 80 4	P80	19	21.8	6	200	165	130	—	M10x14.5	4	508.5	260
F 80 4	P90	24	27.3	8	200	165	130	—	M10x14.5	4	508.5	260
F 80 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	518.5	264
F 80 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	518.5	264
F 80 4	P132	38	41.3	10	300	265	230	16	14	5	552	266

F 80...HS

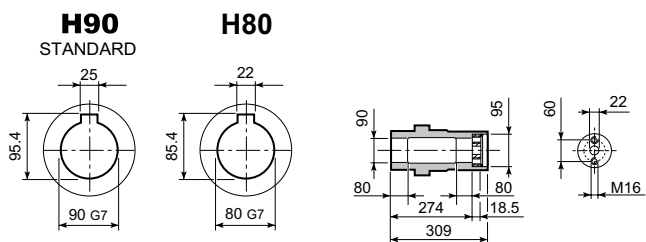


		A	E	F	F1	F2	F3	F4	V	
F 80 3	HS	630	110	42	45	12	10	90	M12x28	273
F 80 4		575.5	50	24	27	8	2.5	45	M8x19	263

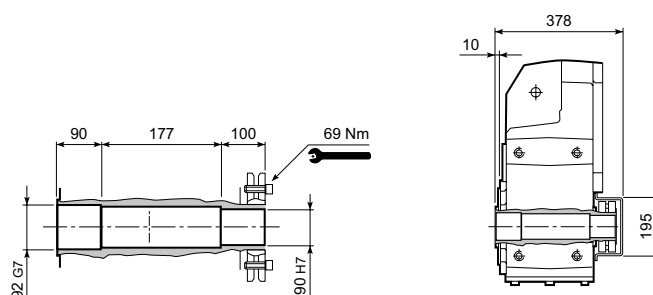


F 80

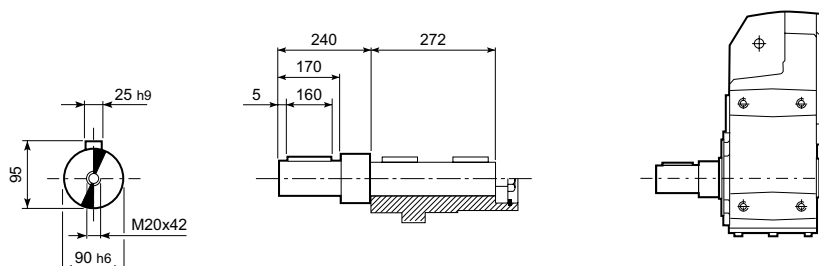
F 80...H



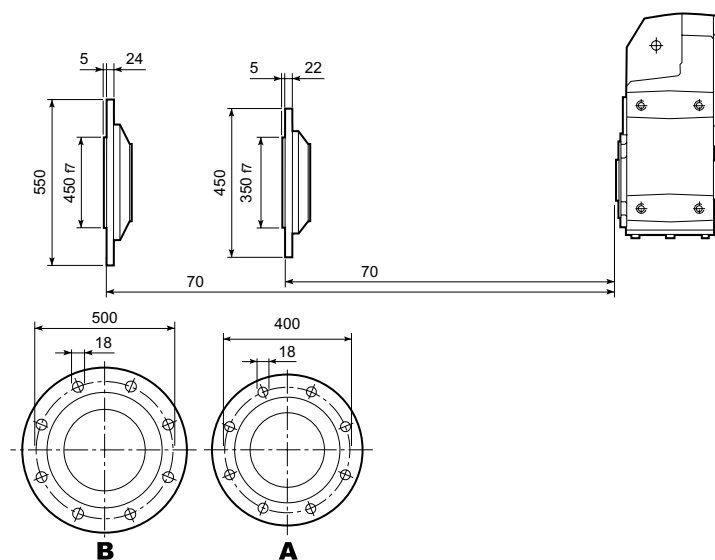
F 80...S

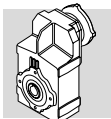


F 80...R

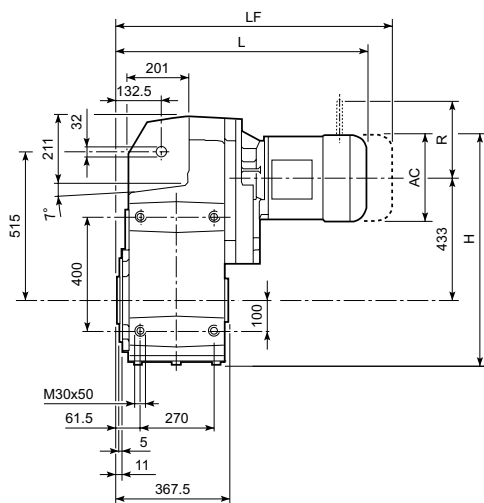
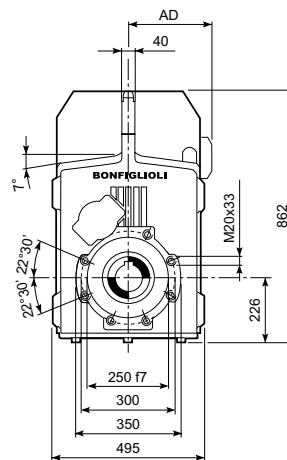


F 80...F...

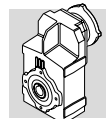




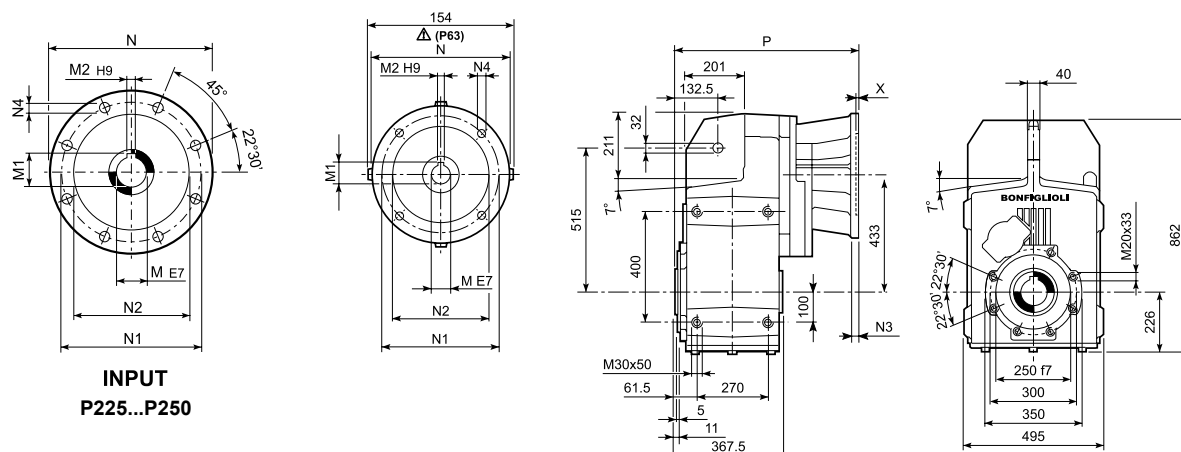
F 90...M/ME/MX



				Gearmotor - Without brake					Gearmotor - With brake			
									M...FD			
				AC	H	L	AD		LF		R	AD
F 90 3	S3	ME3S		195	756	728	142	453	824	459.5	160	155
		MX3S		195	756	760	142	456	850	464.5	160	155
		ME3L		195	756	760	142	462	851	466	160	155
		MX3L		195	756	804	142	468	896	473.5	160	155
	S4	ME4	MX4	258	787.5	868	193	494	977	503.5	204	210
		ME4LB	MX4LA	258	787.5	894	193	504	992	517.5	226	210
	S5	ME5S	MX5S	310	813.5	998.5	245	538	1138.5	577.5	266	245
		ME5L	MX5L	310	813.5	998.5	245	549	1132.5	588.5	266	245
F 90 4	S2	ME2S		156	736.5	768	119	456	838	457.2	129	143
		MX2S		156	736.5	812	119	461	884	464.4	129	143
	S3	ME3S		195	756	811	142	460	907	466.5	160	155
		MX3S		195	756	843	142	463	933	471.5	160	155
		ME3L		195	756	843	142	470	934	473	160	155
		MX3L		195	756	887	142	476	979	480.5	160	155
	S4	ME4	MX4	258	787.5	951	193	502	1060	510.5	204	210
		ME4LB	MX4LA	258	787.5	986	193	510	1084	524.5	226	210

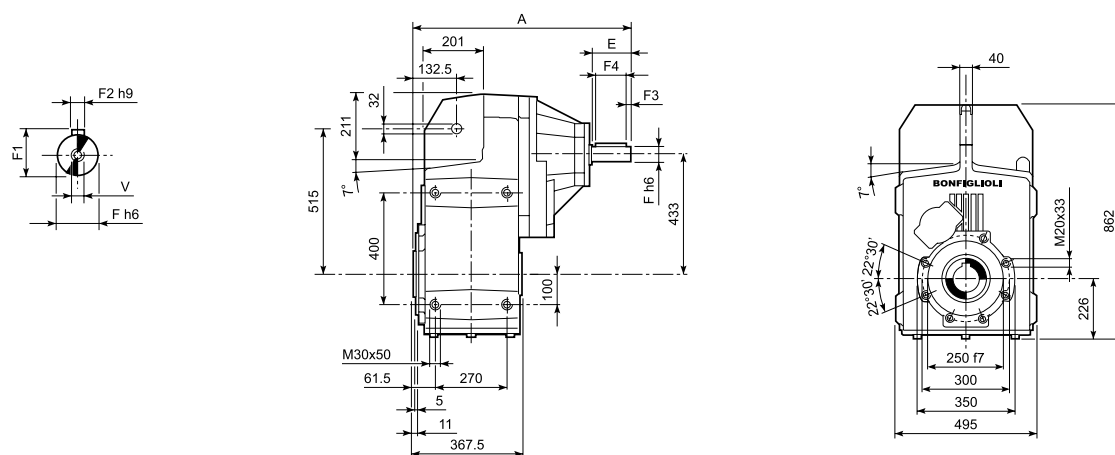


F 90...P(IEC)

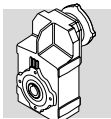


		M	M1	M2	N	N1	N2	N3	N4	X	P	
F 90 3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	520.5	442
F 90 3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	520.5	442
F 90 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	530.5	446
F 90 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	530.5	446
F 90 3	P132	38	41.3	10	300	265	230	16	14	5	567	449
F 90 3	P160	42	45.3	12	350	300	250	23	18	6	622.5	463
F 90 3	P180	48	51.8	14	350	300	250	23	18	6	622.5	463
F 90 3	P200	55	59.3	16	400	350	300	—	M16x25	7	647.5	485
F 90 3	P225	60	64.4	18	450	400	350	30	18	6	693	485
F 90 3	P250	65	69.4	18	550	500	450	30	18	6	723	507
F 90 4	P63	11	12.8	4	140	115	95	—	M8x19	4	584	448
F 90 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	584	448
F 90 4	P80	19	21.8	6	200	165	130	—	M10x14.5	4	603.5	450
F 90 4	P90	24	27.3	8	200	165	130	—	M10x14.5	4	603.5	450
F 90 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	613.5	454
F 90 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	613.5	454
F 90 4	P132	38	41.3	10	300	265	230	16	14	5	650	455
F 90 4	P160	42	45.3	12	350	300	250	23	18	5.5	700.5	461
F 90 4	P180	48	51.8	14	350	300	250	23	18	5.5	700.5	461

F 90...HS

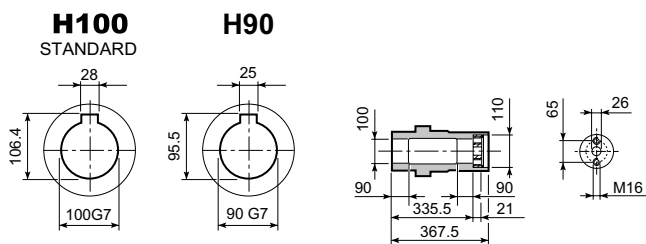


		A	E	F	F1	F2	F3	F4	V	
F 90 3	HS	806.5	140	60	64	18	10	120	M16x36	485
F 90 4		673.5	50	24	27	8	2.5	45	M8x19	452

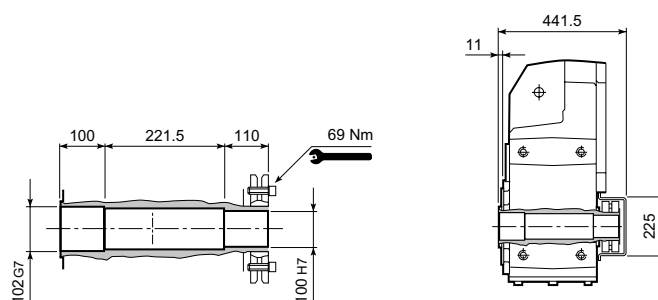


F 90

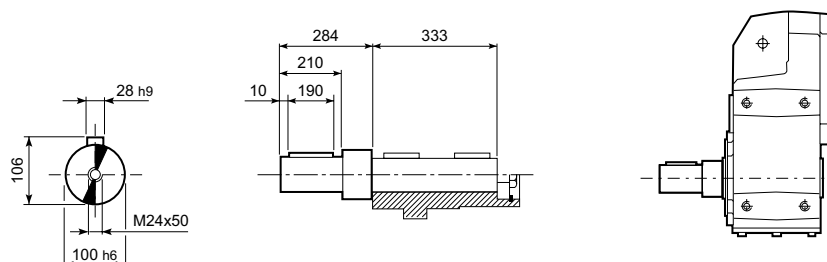
F 90...H



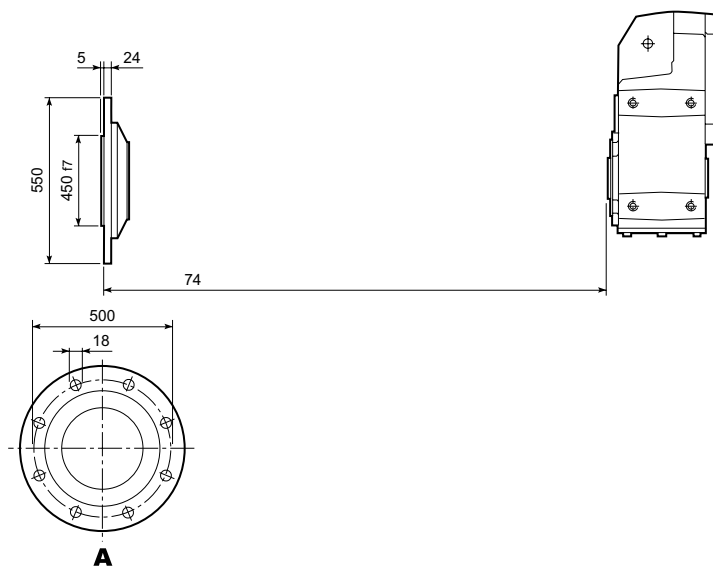
F 90...S



F 90...R

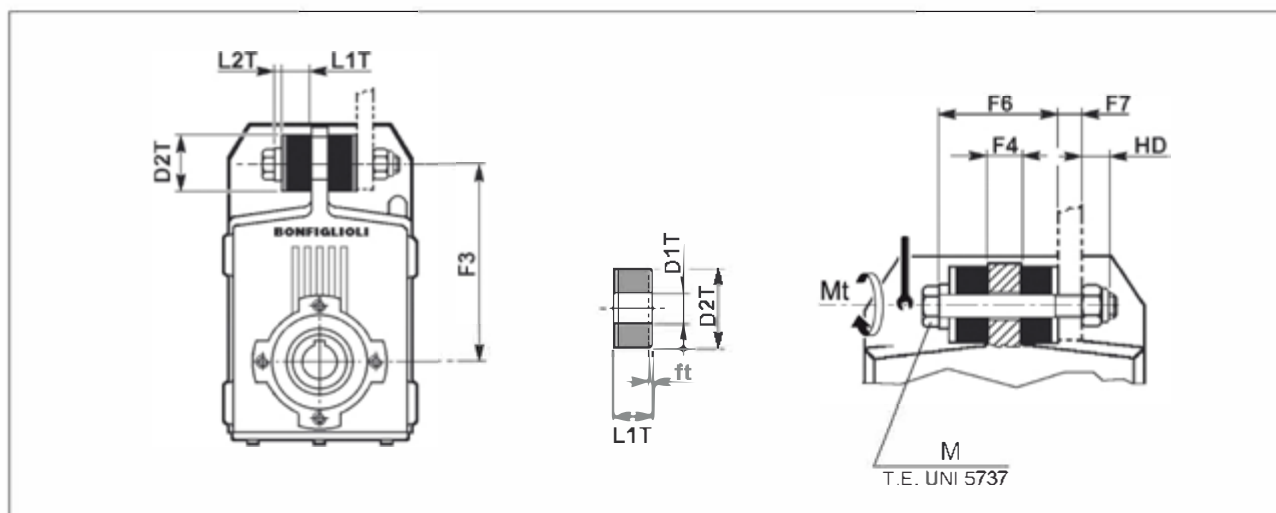


F 90...F...



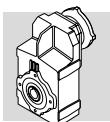
Kit de fixation pour bras de réaction avec butée en caoutchouc antivibrations

Les réducteurs de la série F peuvent être équipés, sur demande, d'un kit antivibration, incluant les composants nécessaires à la fixation pendulaire (bras de réaction exclu). Les dimensions sont indiquées dans le tableau suivant.



	F3	F4	F6	F7 (max.)	HD	L1T	L2T	D1T	D2T	M	Mt [Nm]	ft
F 10	140	20	55	10	12.3	15	5	11	30	M10x80	10	1.5
F 20	160	20	55	10	12.3	15	5	11	30	M10x80	10	1.5
F 25	162	20	65	20	14.8	20	5	12.5	40	M12x100	20	1.5
F 31	170	20	65	20	14.8	20	5	12.5	40	M12x100	20	1.5
F 41	218	16	61	24	14.8	20	5	12.5	40	M12x100	20	2.3
F 51	278	20	90	47	23	30	10	21	60	M20x160	50	3.0
F 60	325	26	96	41	23	30	10	21	60	M20x160	50	4.0
F 70	370	30	122	50	28	40	12	25	80	M24x200	100	4.0
F 80	430	36	128	44	28	40	12	25	80	M24x200	100	6.0
F 90	515	40	175	40	33.2	60	15	32	100	M30x260	200	9.0

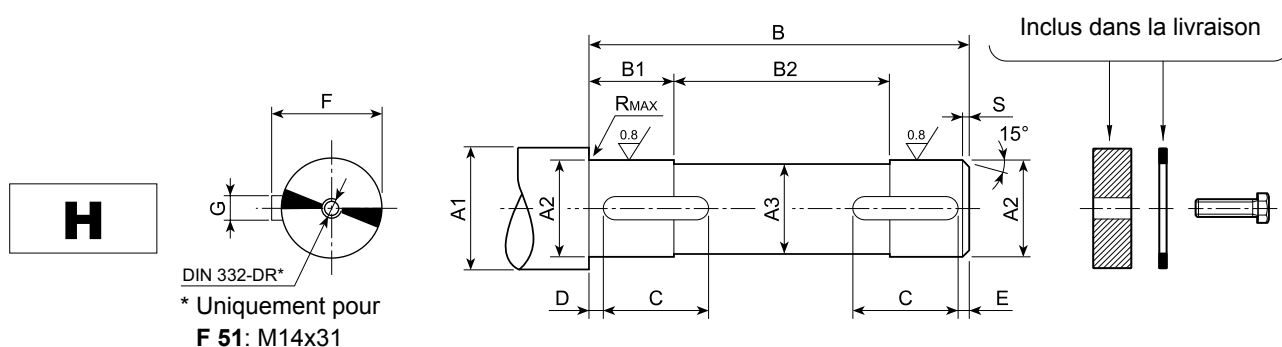
f_t = variation dimensionnelle du tampon de caoutchouc antivibration.



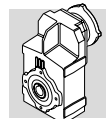
67 ARBRE MACHINE

Réaliser l'arbre accouplé avec le réducteur avec de l'acier de bonne qualité et respecter les dimensions indiquées sur le tableau.

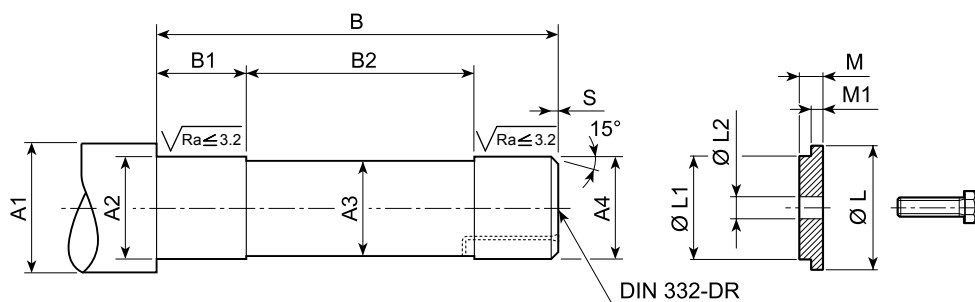
Il est recommandé de compléter le montage par un dispositif de blocage axial de l'arbre, à titre d'exemple voir comme illustré ci-dessous, en prenant soin de vérifier et de dimensionner les divers composants en fonction des différentes exigences de l'application.



	A1	A2	A3	B	B1	B2	C	D	E	F	G	R	S		
F 10	≥ 35	30 h7	29	87.5	15.5	56.5	20	2	2	33	8 h9	0.5	1.5	8x7x20 A	M8x25
	≥ 30	25 h7	24	87.5	15.5	56.5	20	2	2	28	8 h9	0.5	1.5	8x7x20 A	
F 20	≥ 42	35 h7	34	99	18	63	22	2	2	38	10 h9	0.5	1.5	10x8x22 A	M8x30
	≥ 35	30 h7	29	99	18	63	22	2	2	33	8 h9	0.5	1.5	8x7x22 A	
F 25	≥ 47	40 h7	39	104	23	58	30	2	2	43	12 h9	0.5	1.5	12x8x30 A	M8x30
	≥ 42	35 h7	34	104	23	58	30	2	2	38	10 h9	0.5	1.5	10x8x30 A	
F 31	≥ 47	40 h7	39	104	28	48	30	2	2	43	12 h9	0.5	1.5	12x8x30 A	M8x30
	≥ 42	35 h7	34	104	28	48	30	2	2	38	10 h9	0.5	1.5	10x8x30 A	
F 41	≥ 52	45 h7	44	118	27.5	63	45	2.5	2.5	48.5	14 h9	1	2.0	14x9x45 A	M10x30
	≥ 47	40 h7	39	118	27.5	63	45	2.5	2.5	43	12 h9	1	2.0	12x8x45 A	
F 51	≥ 63	55 h7	54	139	33	73	50	2.5	2.5	59	16 h9	1	2.0	16x10x50 A	M14x45
	≥ 57	50 h7	49	139	33	73	50	2.5	2.5	53.5	14 h9	1	2.0	14x9x50 A	
F 60	≥ 78	70 h7	69	180	38	104	70	2.5	2.5	74.5	20 h9	1	2.0	20x12x70 A	M16x45
	≥ 68	60 h7	59	180	38	104	70	2.5	2.5	64	18 h9	1	2.0	18x11x70 A	
F 70	≥ 89	80 h7	79	229	58	113	75	3	3	85	22 h9	2.5	2.5	22x14x75 A	M20x55
	≥ 78	70 h7	69	229	58	113	75	3	3	74.5	20 h9	2.5	2.5	20x12x75 A	
F 80	≥ 99	90 h7	89	272	78	116	100	3	3	95	25 h9	2.5	2.5	25x14x100 A	M20x55
	≥ 89	80 h7	79	272	78	116	100	3	3	85	22 h9	2.5	2.5	22x14x100 A	
F 90	≥ 111	100 h7	99	333	87.5	158	110	3	3	106	28 h9	2.5	2.5	28x16x110 A	M24x65
	≥ 99	90 h7	89	333	87.5	158	110	3	3	95	25 h9	2.5	2.5	25x14x110 A	

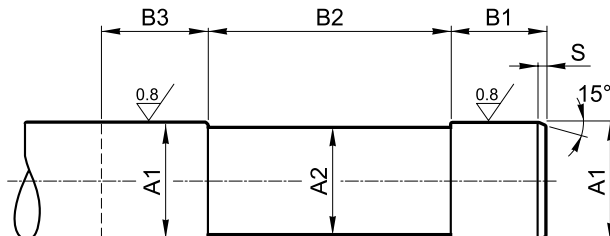


S

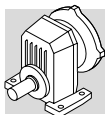


	A1	A2	A3	A4	B	B1	B2	R	S	L	L1	L2	M	M1	UNI 5739
F 10	≥ 36	27 h7	24	25 h6	138	34	70	0.5	1.5	29.5	25 d9	9	7	5.5	M8x25
F 20	≥ 42	32 h7	29	30 h6	160	38	84	0.5	1.5	35.5	30 d9	9	7	5.5	M8x25
F 25	≥ 42	32 h7	30	31 h6	172	38	96	0.5	1.5	35.5	31 d9	9	7	5.5	M8x25
F 31	≥ 50	38 h7	35	36 h6	155	40	73	1	2	43	36 d9	9	7	5.5	M8x25
F 41	≥ 58	44 h7	41	42 h6	177	46.5	82	1	2	49	42 d9	11	8.5	7	M10x30
F 51	≥ 68	54 h7	51	52 g6	201	48	91	1	2	61	52 d9	18	9	7.5	M16x45
F 60	≥ 84	67 h7	64	65 g6	248	53	133	1.5	2	80	65 d9	18	9	7.5	M16x45
F 70	≥ 104	82 h7	79	80 g6	308	78	140	2.5	2.5	95	80 d9	22	13.5	12	M20x55
F 80	≥ 114	92 h7	89	90 g6	365	88	177	2.5	2.5	105	90 d9	22	13.5	12	M20x55
F 90	≥ 126	102 h7	99	100 g6	429.5	98	221.5	2.5	2.5	120	100 d9	26	20	18.5	M24x70

QF



		A1	A2	B1	B2	B3	S
F 10	QF25	25 h6	24	41	83	≥ 50	1.5
	QF30	30 h6	29				
F 20	QF25	25 h6	24	41	104.5	≥ 50	1.5
	QF30	30 h6	29				
F 25	QF30	30 h6	29	41	120.5	≥ 50	1.5
	QF32	32 h6	31				
F 31	QF35	35 h6	34	45	95.5	≥ 54	1.5
	QF40	40 h6	39				
F 41	QF42	42 h6	41	46	112.5	≥ 55	2
	QF45	45 h6	44				
F 51	QF50	50 h6	49	48	131	≥ 57	2
	QF55	55 h6	54				
F 60	QF60	60 h6	59	57	158	≥ 66	2.5
	QF65	65 h6	64				
	QF70	70 h6	69				



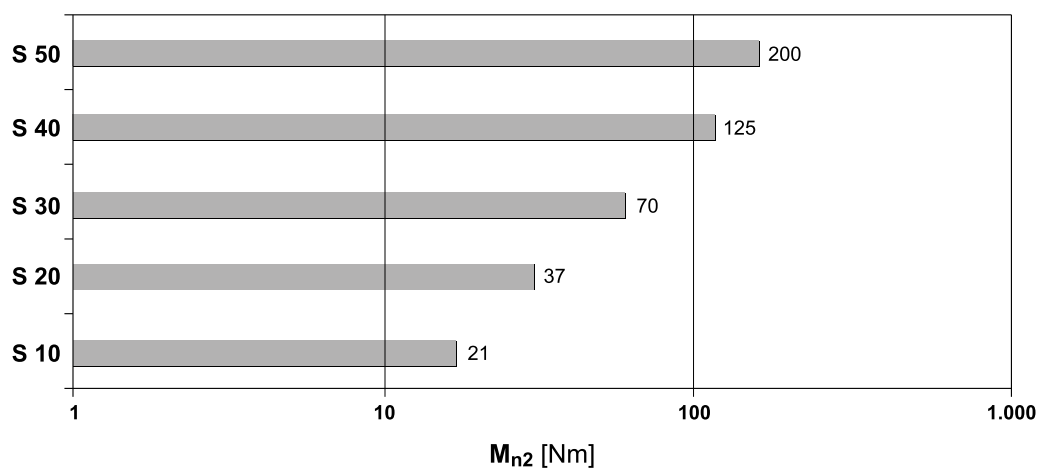
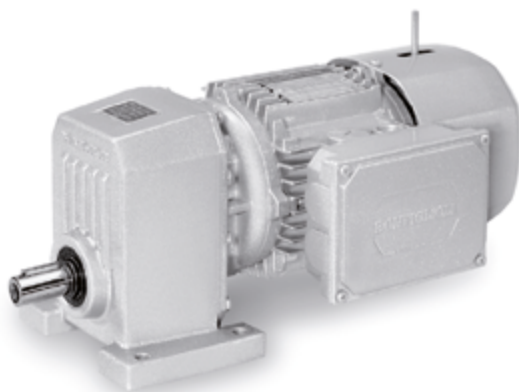
REDUCTEURS A UN ETAGE DE REDUCTION SERIE S

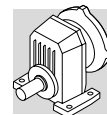
68 CARACTERISTIQUES DE CONSTRUCTION

Les principales caractéristiques de construction sont :

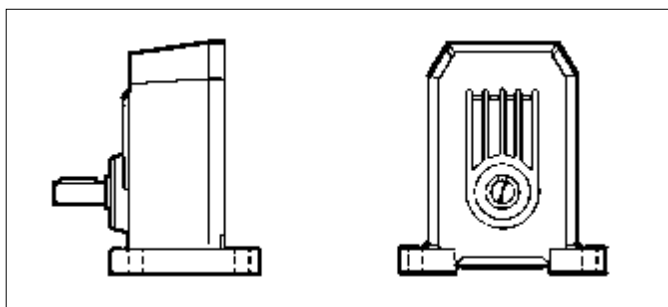
- modularité
- compacité
- rendements élevés
- faible niveau de bruit
- engrenages en acier allié cémentés et trempés
- carters en aluminium non peints dans les tailles 10, 20, 30, carters en fonte à haute résistance peints dans les autres tailles
- arbres d'entrée et de sortie en acier à haute résistance.

(E 60)





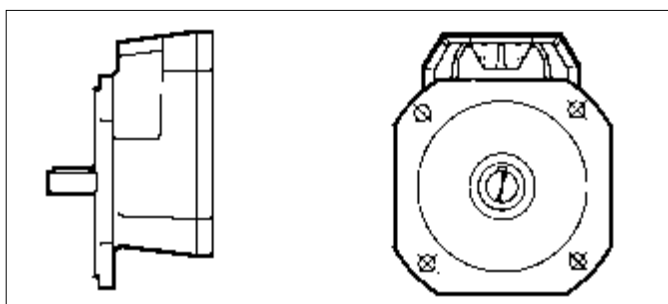
69 FORMES DE CONSTRUCTION



P

Carter à pattes monobloc

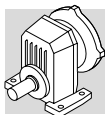
S 10 ... S 50



F

Carter à bride monobloc

S 10 ... S 50



70 DESIGNATION

REDUCTEUR

S **10** **1** **P** **1.4** **S1** **B3**
 OPTIONS

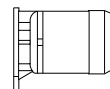
POSITION DE MONTAGE

S...P: **B3** (Standard), **B6, B7, B8, V5, V6**
 S...F: **B5** (Standard), **B51, B52, B53, V1, V3**

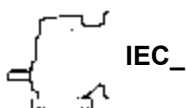
DESIGNATION ENTREE



S05	S3
S1	S4
S2	S5



M - ME -
MX - MXN



P63	P112
P71	P132
P80	P160
P90	P180
P100	



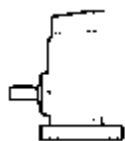
BN - BE
BX - BXN



HS

RAPPORT DE REDUCTION

FORME DE CONSTRUCTION



P



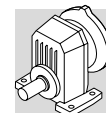
F

ETAGES DE REDUCTION

1

TAILLE REDUCTEUR
10, 20, 30, 40, 50

TYPE: **S** = à un étage de réduction



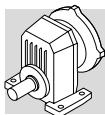
MOTEUR					FREIN				
M	1LA 4	230/400-50	IP54	CLF		W	FD	7.5	R SB 220 SA
									OPTIONS
									ALIMENTATION FREIN
									TYPE REDRESSEUR AC/DC NB, SB, NBR, SBR, NR, SR
									LEVIER DE DEBLOCAGE FREIN R, RM
									COUPLE FREIN
									TYPE DE FREIN FD (frein c.c.) FDD (high performance d.c. brake)
									POSITION BOITE A BORNES W (default), N, E, S
									FORME DE CONSTRUCTION — (moteur compact) B5 (moteur IEC)
									CLASSE ISOLATION CL F standard CL H option
									DEGRE DE PROTECTION IP54, IP55, IP56
									TENSION - FRÉQUENCE Par BXN/MXN voir la section " Tension et fréquence " dans le catalogue EVOX
									Nbre POLES 2, 4, 6
									TAILLE MOTEUR 0B ... 5LA (moteur compact) 63A ... 280SBK (moteur IEC)

TYPE MOTEUR

MX-MXN = 3phasé compact, classe IE3
BX-BXN = 3phasé IEC, classe IE3

ME = 3phasé compact, classe IE2
BE = 3phasé IEC, classe IE2

M = 3phasé compact
BN = 3phasé IEC



70,1 Options réducteurs

LUBRIFICATION

Les réducteurs S10, S20, S30 et S40 sont généralement remplis d'huile en usine dans la version standard.

Le réducteur S50 est généralement livré non lubrifié dans la version standard.

Cependant, pour toutes les tailles de réducteurs remplis d'huile en usine, il est possible de demander la fourniture avec plus de types d'huile, sélectionnables selon ce qui est défini dans le tableau suivant.

LUBRIFICATION	Type	Désignation	Producteur
LU	Polyalphaoléfine (PAO)	OMALA S4 GX 150	
LY	Polyalphaoléfine (PAO)	OMALA S4 GX 220	
LV	Polyalphaoléfine (PAO)	OMALA S4 GX 320	
LW	Polyalphaoléfine (PAO)	OMALA S4 GX 460	
LH	Polyglycol (PAG)	OMALA S4 WE 150	
LS	Polyglycol (PAG)	OMALA S4 WE 220	
LO*	Polyglycol (PAG)	OMALA S4 WE 320	
LK	Polyglycol (PAG)	OMALA S4 WE 460	
LN ^[1]	Base minérale EP	OMALA S2 G 150	
LZ ^[1]	Base minérale EP	OMALA S2 G 220	
LI ^[1]	Base minérale EP	OMALA S2 G 320	
LJ ^[1]	Base minérale EP	OMALA S2 G 460	
LA	Utilisation alimentaire	KLUBERSYNTH UH1 6-150	
LB	Utilisation alimentaire	KLUBERSYNTH UH1 6-220	
LC	Utilisation alimentaire	KLUBERSYNTH UH1 6-320	
LD	Utilisation alimentaire	KLUBERSYNTH UH1 6-460	

* Sauf indication contraire, les réducteurs S10, S20 et S30 et S40 livrés avec une charge de lubrifiant utilisent de l'huile OMALA S4 WE 320.

[1] L'utilisation d'huile minérale est autorisée dans les motoréducteurs avec facteur de service $f_s \geq 1,30$.

SO

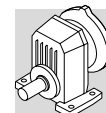
Les réducteurs S10, S20, S30, S40, habituellement fournis avec lubrifiant par la société BONFIGLIOLI RIDUTTORI, sont demandés sans lubrifiant.

DV

2 bagues d'étanchéité sur l'arbre rapide. (Disponible seulement sur motoréducteurs compacts).

VV

Bague d'étanchéité en élastomère fluoré sur l'arbre rapide.



PV

Toutes les bagues d'étanchéité en élastomère fluoré.

BP

Les réducteurs, généralement fournis avec un reniflard ouvert, sont fournis avec un reniflard à soupape. L'étalonnage de la soupape peut varier de 0,10 à 0,15 bar selon le type de reniflard. La soupape s'ouvre à intervalles réguliers et permet l'évacuation de la pression interne empêchant les corps étrangers de pénétrer.

Pour la disponibilité des options, voir le chapitre «Positions de montage et fiches de service» du manuel d'installation, d'utilisation et d'entretien (disponible sur: www.bonfiglioli.com).

Si nécessaire, contactez le service technique de Bonfiglioli.

STOCKAGE LONGUE DUREE

En présence de l'option Stockage longue durée, le produit configuré est fourni sans l'huile de lubrification standard mais avec un liquide de protection anticorrosion pour garantir l'intégrité et la pleine fonctionnalité du réducteur dans les cas où l'unité ne sera pas installée immédiatement mais doit être stockée pendant une longue période (installation au-delà de 6 mois à compter de la livraison).

Les conditions de garantie sont valables 12 mois à compter de la mise en service (avec mise en service dans les 24 mois à compter de la livraison) ou 24 mois à compter de la livraison sans mise en service.

Après 2 ans de stock, l'unité avec option Stockage longue durée doit être vérifiée par le centre d'assistance Bonfiglioli. En cas de produit mal conservé, une offre de Bonfiglioli sera émise pour une restauration complète.

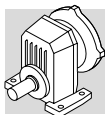
Une fois l'activité de récupération terminée avec succès, les conditions de garantie redémarrent à partir des 12 mois de mise en service (avec une mise en service dans les 24 mois à compter de la date de restauration) ou 24 mois à compter de la date de restauration.

Taille du réducteur	Applicabilité de l'option Stockage longue durée
S10 ... S40	Uniquement lorsque les options de lubrification ne sont pas actives (l'option SO est sélectionnée)
S50	Uniquement lorsque les options de lubrification ne sont pas actives (LO, LH, LS, LK, LA, LB, LC, LD)

Applicabilité de l'option Stockage longue durée :

L'option Stockage longue durée peut être demandée en 2 versions :

- **SLM Stockage longue durée_Huile minérale** : option avec huile de protection anti-corrosive compatible avec tous les lubrifiants à base d'huile minérale répertoriés dans le manuel Bonfiglioli "Installation, fonctionnement et entretien".
- **SLP Stockage longue durée_Huile Polyglycole** : option ayant une huile de protection anticorrosion compatible avec tous les lubrifiants à base d'huile polyglycol répertoriés dans le manuel Bonfiglioli "Installation, fonctionnement et maintenance".



Lors de la configuration d'un réducteur ou d'un motoréducteur avec l'option Stockage longue durée, il est nécessaire de connaître le type d'huile de lubrification qui sera utilisée par le client pendant la période de fonctionnement (huile minérale ou polyglycol). Avant de mettre en service un produit Bonfiglioli avec cette option, assurez-vous que l'activité de remplissage d'huile de lubrification s'effectue à travers le bouchon de remplissage spécifique déterminé par la position de montage indiquée sur la plaque. En ce qui concerne les réducteurs à lubrification à vie (voir tableau ci-dessous), la quantité d'huile de lubrification à rajouter n'est pas indiquée dans le manuel Bonfiglioli "installation, utilisation et entretien" correspondant. Dans ce cas, si l'option Stockage longue durée est active, il est donc nécessaire de contacter le centre d'assistance Bonfiglioli pour recevoir cette information.

Taille du réducteur	Quantité de lubrifiant
S10 ... S40	 BONFIGLIOLI TECHNICAL SERVICE
S50	

PROTECTION DE SURFACE

Lorsque qu'aucune classe de protection n'est requise, les surfaces (ferreuses) des réducteurs fournissent une protection minimale de classe C2 (UNI EN ISO 12944-2). Afin d'améliorer la résistance à la corrosion atmosphérique, les réducteurs peuvent être fournis avec une protection de surface **C3** et **C4**, obtenue par recouvrement complet.

PROTECTION DE SURFACE	Environnements typiques	Température maximum de surface	Classe de corrosivité en accord avec UNI EN ISO 12944-2
C3	Environnement urbains et industriels avec jusqu'à 100% d'humidité relative (pollution de l'air moyenne)	120°C	C3
C4	Zones industrielles, zones côtières, usines chimiques, avec jusqu'à 100% d'humidité relative (pollution de l'air élevée)	120°C	C4

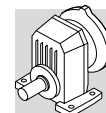
Les réducteurs avec une protection optionnelle en classes **C3** ou **C4** sont disponibles dans plusieurs teintes.

Si aucune teinte spécifique n'est requise (voir l'option "PEINTURE"), les réducteurs seront réalisés en RAL 7042.

Les réducteurs peuvent également être fournis avec une protection de surface pour une corrosivité en classe **C5** en accord avec UNI EN ISO 12944-2. Contacter notre Service Technique pour plus de détails.

PEINTURE

Les réducteurs avec une protection optionnelle en classe C3 ou C4 sont disponibles dans les teintes indiquées dans la table suivante.



(E 62)

PEINTURE	Couleur	RAL numéro
RAL7042*	Gris trafic A	7042
RAL5010	Bleu gentiane	5010
RAL9005	Noir foncé	9005
RAL9006	Aluminium blanc	9006
RAL9010	Blanc pur	9010
RAL7035	Gris clair	7035
RAL7001	Gris Argenté	7001
RAL5015	Bleu ciel	5015
RAL7037	Gris poussiéreux	7037
RAL5024	Bleu pastel	5024

* Les réducteurs sont fournis dans cette teinte standard si rien n'est spécifié.

NOTE – Les options “PEINTURE” peuvent seulement être spécifiées en accord avec les options “PROTECTION DE SURFACE”.

PREUVES DOCUMENTAIRES

AC - Certificat de conformité

Document dont la délivrance atteste de la conformité du produit à la commande et de la construction de celui-ci conformément aux procédures standard de traitement et de contrôle prévues par le système de Qualité Bonfiglioli Riduttori.

CC - Certificat de réception

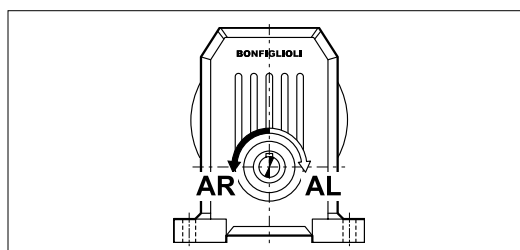
La spécification implique la réalisation de vérifications de conformité à la commande, des contrôles visuels généraux et des vérifications instrumentales des dimensions d'accouplement. En outre, des contrôles généraux de fonctionnement à vide et des vérifications de la fonctionnalité des joints d'étanchéité sont réalisés en modalité statique et en fonctionnement. La vérification s'applique à un échantillon statistique du lot d'expédition.

70,2 Options moteurs

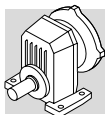
AL, AR

Pour les motoréducteurs équipés d'un moteur compact de série M, ME ou MX, l'option antidévireur située sur le moteur même et décrite dans la section moteurs électriques de ce catalogue est disponible. Le tableau suivant montre le sens de rotation libre du réducteur, sur la base duquel devra être effectué le choix de l'option.

(E 63)



Pour de plus amples informations sur les options, consulter la section moteurs électriques.



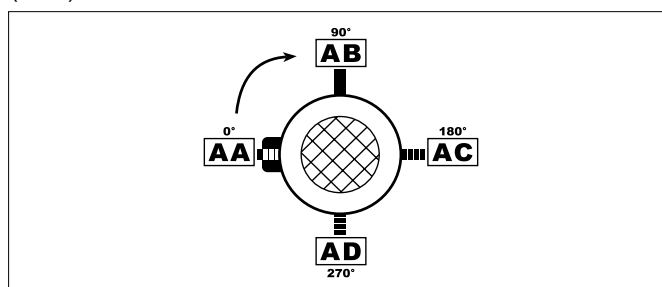
71 POSITIONS DE MONTAGE ET ORIENTATION BOITE A BORNES

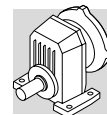
Les orientations des boîtes à bornes des moteurs sont définies en regardant le moteur du côté ventilateur. L'orientation standard est indiquée en noir (W).

Position angulaire levier déblocage frein.

Dans les moteurs freins, ce levier (si requis) aura l'orientation standard de 90° par rapport à la boîte à bornes (position AB); spécifier avec options relatives si l'orientation désirée est différente.

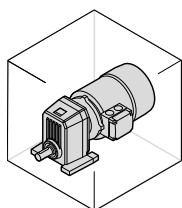
(E 64)



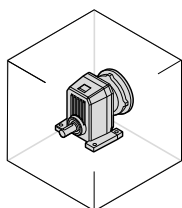


S ... P

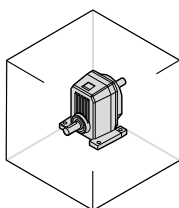
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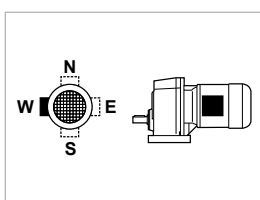
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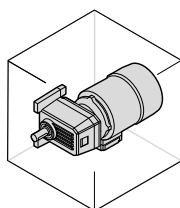
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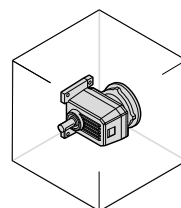
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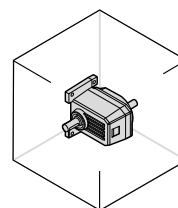
B6



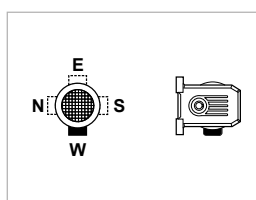
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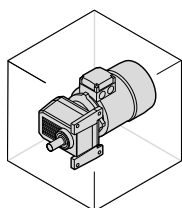
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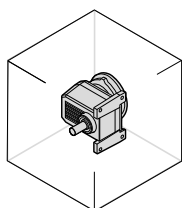
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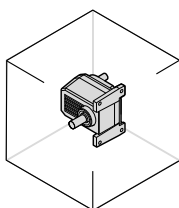
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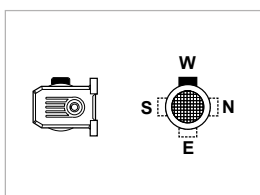
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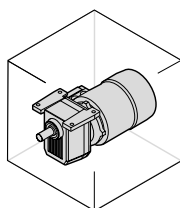
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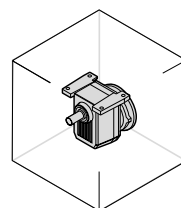
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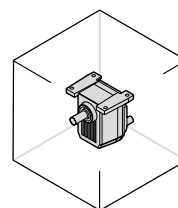
B8



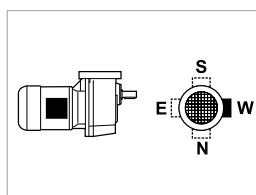
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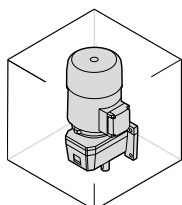
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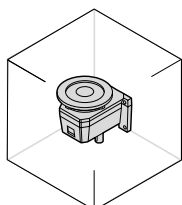
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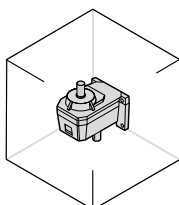
V5



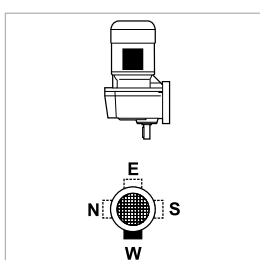
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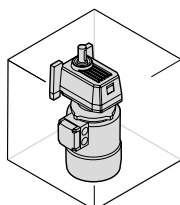
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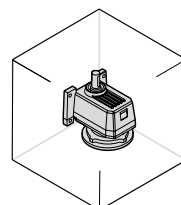
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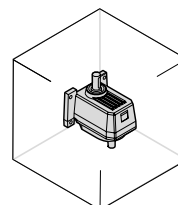
V6



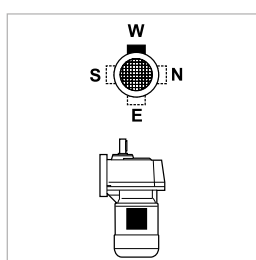
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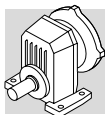
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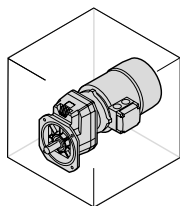


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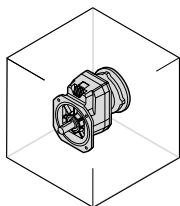


S ... F

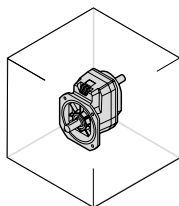
B5



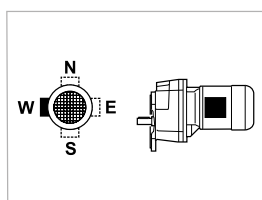
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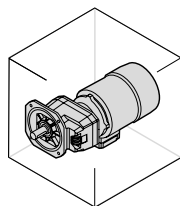
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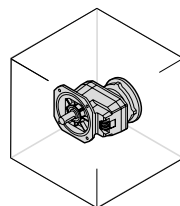
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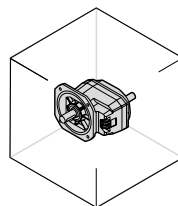
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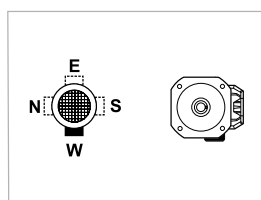
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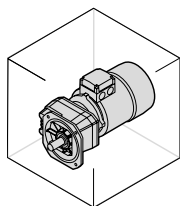
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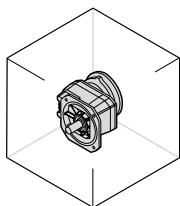
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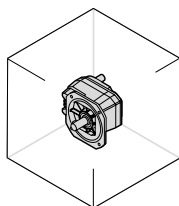
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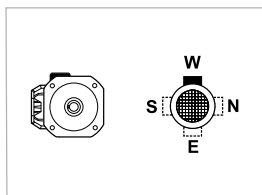
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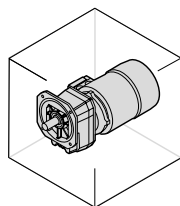
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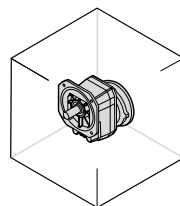
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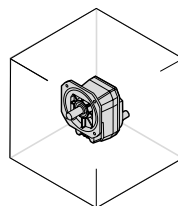
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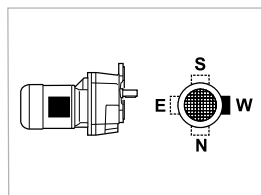
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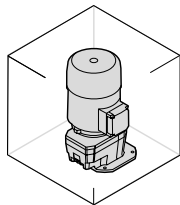
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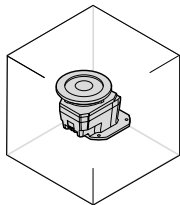
_HS



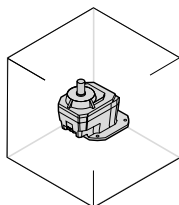
V1



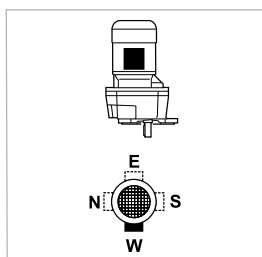
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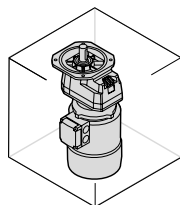
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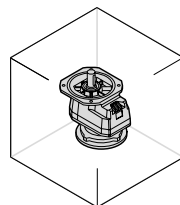
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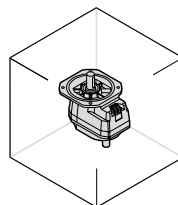
V3



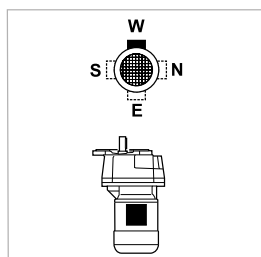
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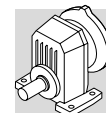
_P(IEC)



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72 CHARGES RADIALES

Les organes de transmission calés sur les arbres d'entrée et/ou de sortie du réducteur génèrent des forces dont la résultante agit sur l'arbre dans le sens radial.

L'entité de ces charges doit être compatible avec la capacité d'endurance du système arbre-roulements du réducteur. Plus particulièrement, la valeur absolue de la charge appliquée (R_{c1} pour l'arbre d'entrée, R_{c2} pour l'arbre de sortie) doit être inférieure à la valeur nominale (R_{n1} pour l'arbre d'entrée, R_{n2} pour l'arbre de sortie) indiquée dans les tableaux des données techniques.

Dans les formules qui suivent, l'indice (1) se réfère à des valeurs relatives à l'arbre rapide, l'indice (2) concerne l'arbre lent.

La charge générée par une transmission extérieure peut être calculée, avec une bonne approximation, au moyen de la formule suivante :

$$R_{c1} [N] = \frac{2000 \cdot M_1 [Nm] \cdot K_r}{d [mm]} \quad ; \quad R_{c2} [N] = \frac{2000 \cdot M_2 [Nm] \cdot K_r}{d [mm]} \quad (44)$$

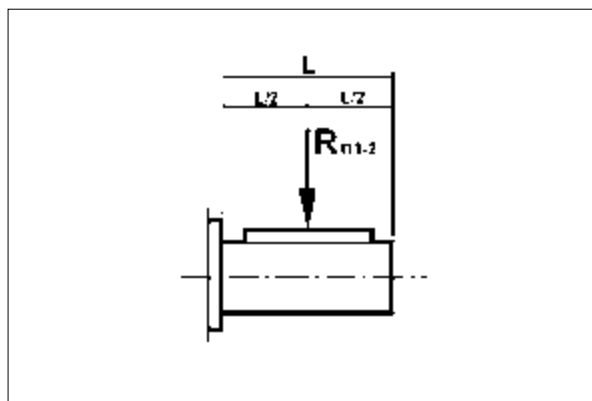
(E 65)

M₁ [Nm]	Couple appliqué à l'arbre rapide
M₂ [Nm]	Couple délivré par l'arbre lent
d [mm]	Diamètre primitif de l'organe monté sur l'arbre
K_r = 1	Transmission à chaîne

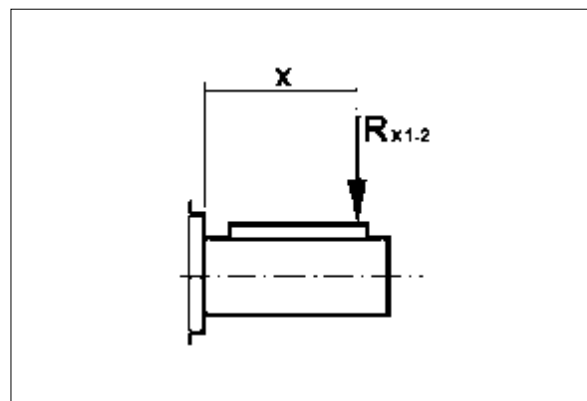
K_r = 1,25	Transmission à engrenage
K_r = 1,5	Transmission à courroie trapézoïdale
K_r = 2,0	Transmission à courroie plate

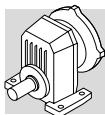
En fonction du point d'application de la charge sur l'arbre, la vérification de la compatibilité sera différente, plus particulièrement :

(E 66)



(E 67)





a) Application au milieu, tab. (E66)

La charge précédemment calculée doit être comparée avec la valeur nominale correspondante indiquée dans le catalogue, on doit vérifier :

$$R_{c1} \leq R_{n1} \quad [\text{arbre rapide}]$$

ou

$$R_{c2} \leq R_{n2} \quad [\text{arbre lent}]$$

b) Application déplacée du milieu, tab. (E67)

L'application de la charge à une distance "x" de la butée de l'arbre implique un nouveau calcul de la valeur admissible à cette distance.

La nouvelle valeur est indiquée par les symboles R_{x1} (entrée) et R_{x2} (sortie) ou peut être calculée d'après les valeurs de catalogue, respectivement R_{n1} et R_{n2} , en élaborant le facteur :

$$\frac{a}{b+x} \quad (45)$$

(E 68)

	Constantes du réducteur					
	Arbre lent			Arbre rapide		
	a	b	c	a	b	c
S 10 1	61	46	200	21	1	300
S 20 1	73.5	53.5	270	40	20	350
S 30 1	91.5	66.5	380	38.5	18.5	350
S 40 1	126.5	96.5	600	49.5	24.5	450
S 50 1	153.5	113.5	680	49.5	24.5	450

La procédure de vérification comporte les pas successifs indiqués ici.

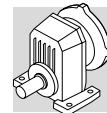
ARBRE RAPIDE

1. Calcul de :

$$R_{x1} = R_{n1} \cdot \frac{a}{b+x} \quad (46)$$

N.B. A condition que :

$$\frac{L}{2} \leq x \leq c \quad (47)$$



Ensuite, vérifier que :

$$R_{c1} \leq R_{x1} \quad (48)$$

ARBRE LENT

1. Calcul de :

$$R_{x2} = R_{n2} \cdot \frac{a}{b+x} \quad (49)$$

N.B. A condition que :

$$\frac{L}{2} \leq x \leq c \quad (50)$$

Ensuite, vérifier que :

$$R_{c2} \leq R_{x2} \quad (51)$$

73 CHARGES AXIALES, A_{n1} , A_{n2}

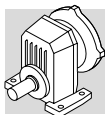
Les valeurs de charge axiale admissible sur les arbres rapides [A_{n1}] et lent [A_{n2}] peuvent être calculées, en se référant à la valeur de charge radiale correspondante [R_{n1}] et [R_{n2}] au moyen des formules suivantes.

$$\begin{aligned} A_{n1} &= R_{n1} \cdot 0.2 \\ A_{n2} &= R_{n2} \cdot 0.2 \end{aligned} \quad (52)$$

Les valeurs de charge axiale admissible ainsi calculées se réfèrent au cas de forces axiales agissant en même temps que les charges radiales nominales.

Dans le cas où la valeur de la charge radiale agissant sur l'arbre est nulle, l'on peut considérer la charge axiale admissible [A_n] égale à 50% de la valeur de la charge radiale admissible [R_n] sur le même arbre.

En présence de charges axiales excédant la valeur admissible, ou de forces axiales fortement supérieures aux charges radiales, il est conseillé de contacter le Service Technique Bonfiglioli Riduttori pour une vérification.



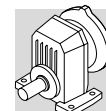
74 DONNEES TECHNIQUES MOTOREDUCTEURS

0.12 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2 IE3		IE2 IE3	
69.0	16.2	2.2	13.1	2400			S301_13.1 P63 BE63A4	S301_13.1 P63 BX63A4
113.0	10.0	1.7	12.4	1500	S201_12.4 S05 ME05A4	S201_12.4 S05 MX05A4	S201_12.4 P63 BE63A4	S201_12.4 P63 BX63A4
114.0	9.9	1.0	12.3	1000	S101_12.3 S05 ME05A4	S101_12.3 S05 MX05A4	S101_12.3 P63 BE63A4	S101_12.3 P63 BX63A4
130.0	8.6	2.0	10.8	1500	S201_10.8 S05 ME05A4	S201_10.8 S05 MX05A4	S201_10.8 P63 BE63A4	S201_10.8 P63 BX63A4
136.0	8.3	1.2	10.3	960	S101_10.3 S05 ME05A4	S101_10.3 S05 MX05A4	S101_10.3 P63 BE63A4	S101_10.3 P63 BX63A4
158.0	7.1	1.4	8.9	920	S101_8.9 S05 ME05A4	S101_8.9 S05 MX05A4	S101_8.9 P63 BE63A4	S101_8.9 P63 BX63A4
165.0	6.8	2.5	8.5	1500	S201_8.5 S05 ME05A4	S201_8.5 S05 MX05A4	S201_8.5 P63 BE63A4	S201_8.5 P63 BX63A4
203.0	5.5	2.7	6.9	860	S101_6.9 S05 ME05A4	S101_6.9 S05 MX05A4	S101_6.9 P63 BE63A4	S101_6.9 P63 BX63A4
229.0	4.9	3.1	6.1	830	S101_6.1 S05 ME05A4	S101_6.1 S05 MX05A4	S101_6.1 P63 BE63A4	S101_6.1 P63 BX63A4
296.0	3.8	3.2	4.7	770	S101_4.7 S05 ME05A4	S101_4.7 S05 MX05A4	S101_4.7 P63 BE63A4	S101_4.7 P63 BX63A4
364.0	3.1	3.9	3.8	720	S101_3.8 S05 ME05A4	S101_3.8 S05 MX05A4	S101_3.8 P63 BE63A4	S101_3.8 P63 BX63A4
438.0	2.6	4.7	3.2	680	S101_3.2 S05 ME05A4	S101_3.2 S05 MX05A4	S101_3.2 P63 BE63A4	S101_3.2 P63 BX63A4
560.0	2.0	5.0	2.5	630	S101_2.5 S05 ME05A4	S101_2.5 S05 MX05A4	S101_2.5 P63 BE63A4	S101_2.5 P63 BX63A4
747.0	1.5	6.6	1.9	580	S101_1.9 S05 ME05A4	S101_1.9 S05 MX05A4	S101_1.9 P63 BE63A4	S101_1.9 P63 BX63A4
985.0	1.1	8.8	1.4	530	S101_1.4 S05 ME05A4	S101_1.4 S05 MX05A4	S101_1.4 P63 BE63A4	S101_1.4 P63 BX63A4

0.12 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3		IE3	
69.0	16.2	2.2	13.1	2400			S301_13.1 P63 BXN63MA4	588
113.0	10.0	1.7	12.4	1500	S201_12.4 SX05 MXN05MA4	585	S201_12.4 P63 BXN63MA4	586
114.0	9.9	1.0	12.3	1000	S101_12.3 SX05 MXN05MA4	583	S101_12.3 P63 BXN63MA4	584
130.0	8.6	2.0	10.8	1500	S201_10.8 SX05 MXN05MA4	585	S201_10.8 P63 BXN63MA4	586
136.0	8.3	1.2	10.3	960	S101_10.3 SX05 MXN05MA4	583	S101_10.3 P63 BXN63MA4	584
158.0	7.1	1.4	8.9	920	S101_8.9 SX05 MXN05MA4	583	S101_8.9 P63 BXN63MA4	584
165.0	6.8	2.5	8.5	1500	S201_8.5 SX05 MXN05MA4	585	S201_8.5 P63 BXN63MA4	586
203.0	5.5	2.7	6.9	860	S101_6.9 SX05 MXN05MA4	583	S101_6.9 P63 BXN63MA4	584
229.0	4.9	3.1	6.1	830	S101_6.1 SX05 MXN05MA4	583	S101_6.1 P63 BXN63MA4	584
296.0	3.8	3.2	4.7	770	S101_4.7 SX05 MXN05MA4	583	S101_4.7 P63 BXN63MA4	584
364.0	3.1	3.9	3.8	720	S101_3.8 SX05 MXN05MA4	583	S101_3.8 P63 BXN63MA4	584
438.0	2.6	4.7	3.2	680	S101_3.2 SX05 MXN05MA4	583	S101_3.2 P63 BXN63MA4	584
560.0	2.0	5.0	2.5	630	S101_2.5 SX05 MXN05MA4	583	S101_2.5 P63 BXN63MA4	584
747.0	1.5	6.6	1.9	580	S101_1.9 SX05 MXN05MA4	583	S101_1.9 P63 BXN63MA4	584
985.0	1.1	8.8	1.4	530	S101_1.4 SX05 MXN05MA4	583	S101_1.4 P63 BXN63MA4	584

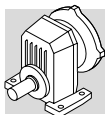


0.18 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			 IEC			
					IE2	IE3				
106.0	15.9	1.9	13.1	2400				S301_13.1 P63 BE63B4	S301_13.1 P63 BX63B4	588
112.0	15.1	1.1	12.4	1500	S201_12.4 S05 ME05B4	S201_12.4 S05 MX05B4	585	S201_12.4 P63 BE63B4	S201_12.4 P63 BX63B4	586
112.0	15.0	3.3	12.4	3800				S401_12.4 P63 BE63B4	S401_12.4 P63 BX63B4	590
129.0	13.0	1.3	10.8	1500	S201_10.8 S05 ME05B4	S201_10.8 S05 MX05B4	585	S201_10.8 P63 BE63B4	S201_10.8 P63 BX63B4	586
135.0	12.5	2.4	10.3	2330				S301_10.3 P63 BE63B4	S301_10.3 P63 BX63B4	588
156.0	10.8	2.8	8.9	2230				S301_8.9 P63 BE63B4	S301_8.9 P63 BX63B4	588
157.0	10.8	0.9	8.9	880	S101_8.9 S05 ME05B4	S101_8.9 S05 MX05B4	583	S101_8.9 P63 BE63B4	S101_8.9 P63 BX63B4	584
164.0	10.3	1.7	8.5	1500	S201_8.5 S05 ME05B4	S201_8.5 S05 MX05B4	585	S201_8.5 P63 BE63B4	S201_8.5 P63 BX63B4	586
192.0	8.8	3.0	7.2	1500	S201_7.2 S05 ME05B4	S201_7.2 S05 MX05B4	585	S201_7.2 P63 BE63B4	S201_7.2 P63 BX63B4	586
201.0	8.4	1.8	6.9	820	S101_6.9 S05 ME05B4	S101_6.9 S05 MX05B4	583	S101_6.9 P63 BE63B4	S101_6.9 P63 BX63B4	584
227.0	7.4	2.0	6.1	800	S101_6.1 S05 ME05B4	S101_6.1 S05 MX05B4	583	S101_6.1 P63 BE63B4	S101_6.1 P63 BX63B4	584
294.0	5.7	2.1	4.7	750	S101_4.7 S05 ME05B4	S101_4.7 S05 MX05B4	583	S101_4.7 P63 BE63B4	S101_4.7 P63 BX63B4	584
361.0	4.7	2.6	3.8	700	S101_3.8 S05 ME05B4	S101_3.8 S05 MX05B4	583	S101_3.8 P63 BE63B4	S101_3.8 P63 BX63B4	584
434.0	3.9	3.1	3.2	670	S101_3.2 S05 ME05B4	S101_3.2 S05 MX05B4	583	S101_3.2 P63 BE63B4	S101_3.2 P63 BX63B4	584
556.0	3.0	3.3	2.5	620	S101_2.5 S05 ME05B4	S101_2.5 S05 MX05B4	583	S101_2.5 P63 BE63B4	S101_2.5 P63 BX63B4	584
741.0	2.3	4.4	1.9	570	S101_1.9 S05 ME05B4	S101_1.9 S05 MX05B4	583	S101_1.9 P63 BE63B4	S101_1.9 P63 BX63B4	584
978.0	1.7	5.8	1.4	520	S101_1.4 S05 ME05B4	S101_1.4 S05 MX05B4	583	S101_1.4 P63 BE63B4	S101_1.4 P63 BX63B4	584

0.18 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IEC	 IE3	
106.0	15.9	1.9	13.1	2400	S201_12.4 SX05 MXN05MB4	S301_13.1 P63 BXN63MB4	588	
112.0	15.1	1.1	12.4	1500		S201_12.4 P63 BXN63MB4	586	
112.0	15.0	3.3	12.4	3800		S401_12.4 P63 BXN63MB4	590	
129.0	13.0	1.3	10.8	1500		S201_10.8 P63 BXN63MB4	586	
135.0	12.5	2.4	10.3	2330		S301_10.3 P63 BXN63MB4	588	
156.0	10.8	2.8	8.9	2230	S101_8.9 SX05 MXN05MB4	S301_8.9 P63 BXN63MB4	588	
157.0	10.8	0.9	8.9	880		S101_8.9 P63 BXN63MB4	584	
164.0	10.3	1.7	8.5	1500		S201_8.5 P63 BXN63MB4	586	
192.0	8.8	3.0	7.2	1500		S201_7.2 P63 BXN63MB4	586	
201.0	8.4	1.8	6.9	820		S101_6.9 P63 BXN63MB4	584	
227.0	7.4	2.0	6.1	800	S101_6.1 SX05 MXN05MB4	583	S101_6.1 P63 BXN63MB4	584
294.0	5.7	2.1	4.7	750	S101_4.7 SX05 MXN05MB4	583	S101_4.7 P63 BXN63MB4	584
361.0	4.7	2.6	3.8	700	S101_3.8 SX05 MXN05MB4	583	S101_3.8 P63 BXN63MB4	584
434.0	3.9	3.1	3.2	670	S101_3.2 SX05 MXN05MB4	583	S101_3.2 P63 BXN63MB4	584
556.0	3.0	3.3	2.5	620	S101_2.5 SX05 MXN05MB4	583	S101_2.5 P63 BXN63MB4	584
741.0	2.3	4.4	1.9	570	S101_1.9 SX05 MXN05MB4	583	S101_1.9 P63 BXN63MB4	584
978.0	1.7	5.8	1.4	520	S101_1.4 SX05 MXN05MB4	583	S101_1.4 P63 BXN63MB4	584

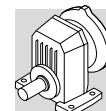


0.25 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC	IE2	IE3
105.0	22.3	1.3	13.1	2400	S301_13.1 S1 ME1SA4	S301_13.1 S1 MX1SA4	587	S301_13.1 P71 BE71A4	S301_13.1 P71 BX71A4
111.0	21.1	2.4	12.4	3800				S401_12.4 P71 BE71A4	S401_12.4 P71 BX71A4
128.0	18.3	0.9	10.8	1500	S201_10.8 S1 ME1SA4	S201_10.8 S1 MX1SA4	585	S201_10.8 P71 BE71A4	S201_10.8 P71 BX71A4
129.0	18.2	2.8	10.7	3800				S401_10.7 P71 BE71A4	S401_10.7 P71 BX71A4
133.0	17.5	1.7	10.3	2300	S301_10.3 S1 ME1SA4	S301_10.3 S1 MX1SA4	587	S301_10.3 P71 BE71A4	S301_10.3 P71 BX71A4
155.0	15.1	2.0	8.9	2200	S301_8.9 S1 ME1SA4	S301_8.9 S1 MX1SA4	587	S301_8.9 P71 BE71A4	S301_8.9 P71 BX71A4
162.0	14.5	1.2	8.5	1500	S201_8.5 S1 ME1SA4	S201_8.5 S1 MX1SA4	585	S201_8.5 P71 BE71A4	S201_8.5 P71 BX71A4
190.0	12.3	2.1	7.2	1500	S201_7.2 S1 ME1SA4	S201_7.2 S1 MX1SA4	585	S201_7.2 P71 BE71A4	S201_7.2 P71 BX71A4
199.0	11.7	1.3	6.9	780	S101_6.9 S1 ME1SA4	S101_6.9 S1 MX1SA4	583	S101_6.9 P71 BE71A4	S101_6.9 P71 BX71A4
225.0	10.4	1.4	6.1	770	S101_6.1 S1 ME1SA4	S101_6.1 S1 MX1SA4	583	S101_6.1 P71 BE71A4	S101_6.1 P71 BX71A4
236.0	9.9	2.6	5.8	1430	S201_5.8 S1 ME1SA4	S201_5.8 S1 MX1SA4	585	S201_5.8 P71 BE71A4	S201_5.8 P71 BX71A4
288.0	8.1	3.2	4.8	1350	S201_4.8 S1 ME1SA4	S201_4.8 S1 MX1SA4	585	S201_4.8 P71 BE71A4	S201_4.8 P71 BX71A4
291.0	8.0	1.5	4.7	720	S101_4.7 S1 ME1SA4	S101_4.7 S1 MX1SA4	583	S101_4.7 P71 BE71A4	S101_4.7 P71 BX71A4
358.0	6.5	1.8	3.8	680	S101_3.8 S1 ME1SA4	S101_3.8 S1 MX1SA4	583	S101_3.8 P71 BE71A4	S101_3.8 P71 BX71A4
430.0	5.4	2.2	3.2	650	S101_3.2 S1 ME1SA4	S101_3.2 S1 MX1SA4	583	S101_3.2 P71 BE71A4	S101_3.2 P71 BX71A4
550.0	4.3	2.4	2.5	610	S101_2.5 S1 ME1SA4	S101_2.5 S1 MX1SA4	583	S101_2.5 P71 BE71A4	S101_2.5 P71 BX71A4
733.0	3.2	3.1	1.9	560	S101_1.9 S1 ME1SA4	S101_1.9 S1 MX1SA4	583	S101_1.9 P71 BE71A4	S101_1.9 P71 BX71A4
968.0	2.4	4.1	1.4	510	S101_1.4 S1 ME1SA4	S101_1.4 S1 MX1SA4	583	S101_1.4 P71 BE71A4	S101_1.4 P71 BX71A4

0.25 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE3	IEC	IE3
105.0	22.3	1.3	13.1	2400	S301_13.1 SX10 MXN10MA4	587	S301_13.1 P71 BXN71MA4
111.0	21.1	2.4	12.4	3800			S401_12.4 P71 BXN71MA4
128.0	18.3	0.9	10.8	1500	S201_10.8 SX10 MXN10MA4	585	S201_10.8 P71 BXN71MA4
129.0	18.2	2.8	10.7	3800			S401_10.7 P71 BXN71MA4
133.0	17.5	1.7	10.3	2300	S301_10.3 SX10 MXN10MA4	587	S301_10.3 P71 BXN71MA4
155.0	15.1	2.0	8.9	2200	S301_8.9 SX10 MXN10MA4	587	S301_8.9 P71 BXN71MA4
162.0	14.5	1.2	8.5	1500	S201_8.5 SX10 MXN10MA4	585	S201_8.5 P71 BXN71MA4
190.0	12.3	2.1	7.2	1500	S201_7.2 SX10 MXN10MA4	585	S201_7.2 P71 BXN71MA4
199.0	11.7	1.3	6.9	780	S101_6.9 SX10 MXN10MA4	583	S101_6.9 P71 BXN71MA4
225.0	10.4	1.4	6.1	770	S101_6.1 SX10 MXN10MA4	583	S101_6.1 P71 BXN71MA4
236.0	9.9	2.6	5.8	1430	S201_5.8 SX10 MXN10MA4	585	S201_5.8 P71 BXN71MA4
288.0	8.1	3.2	4.8	1350	S201_4.8 SX10 MXN10MA4	585	S201_4.8 P71 BXN71MA4
291.0	8.0	1.5	4.7	720	S101_4.7 SX10 MXN10MA4	583	S101_4.7 P71 BXN71MA4
358.0	6.5	1.8	3.8	680	S101_3.8 SX10 MXN10MA4	583	S101_3.8 P71 BXN71MA4
430.0	5.4	2.2	3.2	650	S101_3.2 SX10 MXN10MA4	583	S101_3.2 P71 BXN71MA4
550.0	4.3	2.4	2.5	610	S101_2.5 SX10 MXN10MA4	583	S101_2.5 P71 BXN71MA4
733.0	3.2	3.1	1.9	560	S101_1.9 SX10 MXN10MA4	583	S101_1.9 P71 BXN71MA4
968.0	2.4	4.1	1.4	510	S101_1.4 SX10 MXN10MA4	583	S101_1.4 P71 BXN71MA4

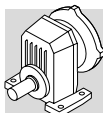


0.37 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC	IE2	IE3
104.0	33.2	0.9	13.1	2390	S301_13.1 S1 ME1SB4	S301_13.1 S1 MX1SB4	587	S301_13.1 P71 BE71B4	S301_13.1 P71 BX71B4
106.0	32.6	3.1	12.9	5650				S501_12.9 P71 BE71B4	S501_12.9 P71 BX71B4
110.0	31.3	1.6	12.4	3800				S401_12.4 P71 BE71B4	S401_12.4 P71 BX71B4
128.0	27.0	1.9	10.7	3800				S401_10.7 P71 BE71B4	S401_10.7 P71 BX71B4
133.0	26.0	1.2	10.3	2240	S301_10.3 S1 ME1SB4	S301_10.3 S1 MX1SB4	587	S301_10.3 P71 BE71B4	S301_10.3 P71 BX71B4
154.0	22.5	1.3	8.9	2150	S301_8.9 S1 ME1SB4	S301_8.9 S1 MX1SB4	587	S301_8.9 P71 BE71B4	S301_8.9 P71 BX71B4
159.0	21.8	2.7	8.6	3610				S401_8.6 P71 BE71B4	S401_8.6 P71 BX71B4
190.0	18.3	1.4	7.2	1460	S201_7.2 S1 ME1SB4	S201_7.2 S1 MX1SB4	585	S201_7.2 P71 BE71B4	S201_7.2 P71 BX71B4
193.0	17.9	2.8	7.1	2020	S301_7.1 S1 ME1SB4	S301_7.1 S1 MX1SB4	587	S301_7.1 P71 BE71B4	S301_7.1 P71 BX71B4
224.0	15.4	1.0	6.1	710	S101_6.1 S1 ME1SB4	S101_6.1 S1 MX1SB4	583	S101_6.1 P71 BE71B4	S101_6.1 P71 BX71B4
234.0	14.8	3.4	5.8	1900	S301_5.8 S1 ME1SB4	S301_5.8 S1 MX1SB4	587	S301_5.8 P71 BE71B4	S301_5.8 P71 BX71B4
235.0	14.7	1.8	5.8	1390	S201_5.8 S1 ME1SB4	S201_5.8 S1 MX1SB4	585	S201_5.8 P71 BE71B4	S201_5.8 P71 BX71B4
287.0	12.1	2.2	4.8	1310	S201_4.8 S1 ME1SB4	S201_4.8 S1 MX1SB4	585	S201_4.8 P71 BE71B4	S201_4.8 P71 BX71B4
290.0	11.9	1.0	4.7	670	S101_4.7 S1 ME1SB4	S101_4.7 S1 MX1SB4	583	S101_4.7 P71 BE71B4	S101_4.7 P71 BX71B4
348.0	9.9	2.6	3.9	1240	S201_3.9 S1 ME1SB4	S201_3.9 S1 MX1SB4	585	S201_3.9 P71 BE71B4	S201_3.9 P71 BX71B4
356.0	9.7	1.2	3.8	640	S101_3.8 S1 ME1SB4	S101_3.8 S1 MX1SB4	583	S101_3.8 P71 BE71B4	S101_3.8 P71 BX71B4
428.0	8.1	1.5	3.2	620	S101_3.2 S1 ME1SB4	S101_3.2 S1 MX1SB4	583	S101_3.2 P71 BE71B4	S101_3.2 P71 BX71B4
440.0	7.9	3.3	3.1	1160	S201_3.1 S1 ME1SB4	S201_3.1 S1 MX1SB4	585	S201_3.1 P71 BE71B4	S201_3.1 P71 BX71B4
548.0	6.3	1.6	2.5	580	S101_2.5 S1 ME1SB4	S101_2.5 S1 MX1SB4	583	S101_2.5 P71 BE71B4	S101_2.5 P71 BX71B4
731.0	4.7	2.1	1.9	540	S101_1.9 S1 ME1SB4	S101_1.9 S1 MX1SB4	583	S101_1.9 P71 BE71B4	S101_1.9 P71 BX71B4
964.0	3.6	2.8	1.4	500	S101_1.4 S1 ME1SB4	S101_1.4 S1 MX1SB4	583	S101_1.4 P71 BE71B4	S101_1.4 P71 BX71B4

0.37 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE3	IEC	IE3
104.0	33.2	0.9	13.1	2390	S301_13.1 SX10 MXN10MB4	587	S301_13.1 P71 BXN71MB4
106.0	32.6	3.1	12.9	5650			S501_12.9 P71 BXN71MB4
110.0	31.3	1.6	12.4	3800			S401_12.4 P71 BXN71MB4
128.0	27.0	1.9	10.7	3800			S401_10.7 P71 BXN71MB4
133.0	26.0	1.2	10.3	2240	S301_10.3 SX10 MXN10MB4	587	S301_10.3 P71 BXN71MB4
154.0	22.5	1.3	8.9	2150	S301_8.9 SX10 MXN10MB4	587	S301_8.9 P71 BXN71MB4
159.0	21.8	2.7	8.6	3610			S401_8.6 P71 BXN71MB4
190.0	18.3	1.4	7.2	1460	S201_7.2 SX10 MXN10MB4	585	S201_7.2 P71 BXN71MB4
193.0	17.9	2.8	7.1	2020	S301_7.1 SX10 MXN10MB4	587	S301_7.1 P71 BXN71MB4
224.0	15.4	1.0	6.1	710	S101_6.1 SX10 MXN10MB4	583	S101_6.1 P71 BXN71MB4
234.0	14.8	3.4	5.8	1900	S301_5.8 SX10 MXN10MB4	587	S301_5.8 P71 BXN71MB4
235.0	14.7	1.8	5.8	1390	S201_5.8 SX10 MXN10MB4	585	S201_5.8 P71 BXN71MB4
287.0	12.1	2.2	4.8	1310	S201_4.8 SX10 MXN10MB4	585	S201_4.8 P71 BXN71MB4
290.0	11.9	1.0	4.7	670	S101_4.7 SX10 MXN10MB4	583	S101_4.7 P71 BXN71MB4
348.0	9.9	2.6	3.9	1240	S201_3.9 SX10 MXN10MB4	585	S201_3.9 P71 BXN71MB4
356.0	9.7	1.2	3.8	640	S101_3.8 SX10 MXN10MB4	583	S101_3.8 P71 BXN71MB4
428.0	8.1	1.5	3.2	620	S101_3.2 SX10 MXN10MB4	583	S101_3.2 P71 BXN71MB4
440.0	7.9	3.3	3.1	1160	S201_3.1 SX10 MXN10MB4	585	S201_3.1 P71 BXN71MB4
548.0	6.3	1.6	2.5	580	S101_2.5 SX10 MXN10MB4	583	S101_2.5 P71 BXN71MB4
731.0	4.7	2.1	1.9	540	S101_1.9 SX10 MXN10MB4	583	S101_1.9 P71 BXN71MB4
964.0	3.6	2.8	1.4	500	S101_1.4 SX10 MXN10MB4	583	S101_1.4 P71 BXN71MB4

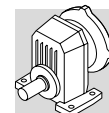


0.55 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				 IEC 60000			
					IE2	IE3		IE2	IE3		
107.0	48.1	2.1	12.9	5560	S501_12.9 S2 ME2SA4	S501_12.9 S2 MX2SA4	591	S501_12.9 P80 BE80A4	S501_12.9 P80 BX80A4	592	
111.0	46.3	1.1	12.4	3800	S401_12.4 S2 ME2SA4	S401_12.4 S2 MX2SA4	589	S401_12.4 P80 BE80A4	S401_12.4 P80 BX80A4	590	
129.0	39.8	1.3	10.7	3770	S401_10.7 S2 ME2SA4	S401_10.7 S2 MX2SA4	589	S401_10.7 P80 BE80A4	S401_10.7 P80 BX80A4	590	
132.0	39.0	2.8	10.5	5220	S501_10.5 S2 ME2SA4	S501_10.5 S2 MX2SA4	591	S501_10.5 P80 BE80A4	S501_10.5 P80 BX80A4	592	
155.0	33.2	0.9	8.9	2060	S301_8.9 S2 ME2SA4	S301_8.9 S2 MX2SA4	587	S301_8.9 P80 BE80A4	S301_8.9 P80 BX80A4	588	
157.0	32.7	3.4	8.8	4940	S501_8.8 S2 ME2SA4	S501_8.8 S2 MX2SA4	591	S501_8.8 P80 BE80A4	S501_8.8 P80 BX80A4	592	
160.0	32.2	1.9	8.6	3540	S401_8.6 S2 ME2SA4	S401_8.6 S2 MX2SA4	589	S401_8.6 P80 BE80A4	S401_8.6 P80 BX80A4	590	
191.0	26.9	1.0	7.2	1370	S201_7.2 S2 ME2SA4	S201_7.2 S2 MX2SA4	585	S201_7.2 P80 BE80A4	S201_7.2 P80 BX80A4	586	
193.0	26.7	3.0	7.2	3350	S401_7.2 S2 ME2SA4	S401_7.2 S2 MX2SA4	589	S401_7.2 P80 BE80A4	S401_7.2 P80 BX80A4	590	
195.0	26.4	1.9	7.1	1940	S301_7.1 S2 ME2SA4	S301_7.1 S2 MX2SA4	587	S301_7.1 P80 BE80A4	S301_7.1 P80 BX80A4	588	
236.0	21.8	2.3	5.8	1840	S301_5.8 S2 ME2SA4	S301_5.8 S2 MX2SA4	587	S301_5.8 P80 BE80A4	S301_5.8 P80 BX80A4	588	
237.0	21.7	1.2	5.8	1310	S201_5.8 S2 ME2SA4	S201_5.8 S2 MX2SA4	585	S201_5.8 P80 BE80A4	S201_5.8 P80 BX80A4	586	
280.0	18.4	2.7	4.9	1760	S301_4.9 S2 ME2SA4	S301_4.9 S2 MX2SA4	587	S301_4.9 P80 BE80A4	S301_4.9 P80 BX80A4	588	
289.0	17.8	1.5	4.8	1250	S201_4.8 S2 ME2SA4	S201_4.8 S2 MX2SA4	585	S201_4.8 P80 BE80A4	S201_4.8 P80 BX80A4	586	
350.0	14.7	3.4	3.9	1650	S301_3.9 S2 ME2SA4	S301_3.9 S2 MX2SA4	587	S301_3.9 P80 BE80A4	S301_3.9 P80 BX80A4	588	
351.0	14.7	1.8	3.9	1190	S201_3.9 S2 ME2SA4	S201_3.9 S2 MX2SA4	585	S201_3.9 P80 BE80A4	S201_3.9 P80 BX80A4	586	
431.0	11.9	1.0	3.2	560	S101_3.2 S2 ME2SA4	S101_3.2 S2 MX2SA4	583	S101_3.2 P80 BE80A4	S101_3.2 P80 BX80A4	584	
444.0	11.6	2.2	3.1	1120	S201_3.1 S2 ME2SA4	S201_3.1 S2 MX2SA4	585	S201_3.1 P80 BE80A4	S201_3.1 P80 BX80A4	586	
552.0	9.3	1.1	2.5	540	S101_2.5 S2 ME2SA4	S101_2.5 S2 MX2SA4	583	S101_2.5 P80 BE80A4	S101_2.5 P80 BX80A4	584	
566.0	9.1	2.9	2.4	1050	S201_2.4 S2 ME2SA4	S201_2.4 S2 MX2SA4	585	S201_2.4 P80 BE80A4	S201_2.4 P80 BX80A4	586	
728.0	7.1	2.4	1.9	970	S201_1.9 S2 ME2SA4	S201_1.9 S2 MX2SA4	585	S201_1.9 P80 BE80A4	S201_1.9 P80 BX80A4	586	
736.0	7.0	1.4	1.9	500	S101_1.9 S2 ME2SA4	S101_1.9 S2 MX2SA4	583	S101_1.9 P80 BE80A4	S101_1.9 P80 BX80A4	584	
971.0	5.3	1.9	1.4	470	S101_1.4 S2 ME2SA4	S101_1.4 S2 MX2SA4	583	S101_1.4 P80 BE80A4	S101_1.4 P80 BX80A4	584	

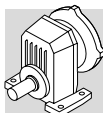
0.55 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	 IE3	 IEC IE3	 IE3	
107.0	48.1	2.1	12.9	5560		S501_12.9 P80 BXN80MA4	592	
111.0	46.3	1.1	12.4	3800		S401_12.4 P80 BXN80MA4	590	
129.0	39.8	1.3	10.7	3770		S401_10.7 P80 BXN80MA4	590	
132.0	39.0	2.8	10.5	5220		S501_10.5 P80 BXN80MA4	592	
155.0	33.2	0.9	8.9	2060		S301_8.9 P80 BXN80MA4	588	
157.0	32.7	3.4	8.8	4940	S201_7.2 SX20 MXN20MA4	S501_8.8 P80 BXN80MA4	592	
160.0	32.2	1.9	8.6	3540		S401_8.6 P80 BXN80MA4	590	
191.0	26.9	1.0	7.2	1370		S201_7.2 P80 BXN80MA4	586	
193.0	26.7	3.0	7.2	3350		S401_7.2 P80 BXN80MA4	590	
195.0	26.4	1.9	7.1	1940		S301_7.1 P80 BXN80MA4	588	
236.0	21.8	2.3	5.8	1840	S201_5.8 SX20 MXN20MA4	S301_5.8 P80 BXN80MA4	588	
237.0	21.7	1.2	5.8	1310		S201_5.8 P80 BXN80MA4	586	
280.0	18.4	2.7	4.9	1760	S201_4.8 SX20 MXN20MA4	S301_4.9 P80 BXN80MA4	588	
289.0	17.8	1.5	4.8	1250		S201_4.8 P80 BXN80MA4	586	
350.0	14.7	3.4	3.9	1650		S301_3.9 P80 BXN80MA4	588	
351.0	14.7	1.8	3.9	1190	S201_3.9 SX20 MXN20MA4	585	S201_3.9 P80 BXN80MA4	586
431.0	11.9	1.0	3.2	560	S101_3.2 SX20 MXN20MA4	583	S101_3.2 P80 BXN80MA4	584
444.0	11.6	2.2	3.1	1120	S201_3.1 SX20 MXN20MA4	585	S201_3.1 P80 BXN80MA4	586
552.0	9.3	1.1	2.5	540	S101_2.5 SX20 MXN20MA4	583	S101_2.5 P80 BXN80MA4	584
566.0	9.1	2.9	2.4	1050	S201_2.4 SX20 MXN20MA4	585	S201_2.4 P80 BXN80MA4	586
728.0	7.1	2.4	1.9	970	S201_1.9 SX20 MXN20MA4	585	S201_1.9 P80 BXN80MA4	586
736.0	7.0	1.4	1.9	500	S101_1.9 SX20 MXN20MA4	583	S101_1.9 P80 BXN80MA4	584
971.0	5.3	1.9	1.4	470	S101_1.4 SX20 MXN20MA4	583	S101_1.4 P80 BXN80MA4	584
992.0	5.2	3.3	1.4	890			S201_1.4 P80 BXN80MA4	586



0.75 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IE2	IE3
73	96	1.0	12.9	6170	S501_12.9 S3 ME3SA6		S501_12.9 P90 BE90S6	
90	78	1.5	10.5	5810	S501_10.5 S3 ME3SA6		S501_10.5 P90 BE90S6	
107	65	1.9	8.8	5520	S501_8.8 S3 ME3SA6		S501_8.8 P90 BE90S6	
111	63	1.6	12.9	5460	S501_12.9 S2 ME2SB4	S501_12.9 S2 MX2SB4	S501_12.9 P80 BE80B4	S501_12.9 P80 BX80B4
127	55	2.5	7.4	5240	S501_7.4 S3 ME3SA6		S501_7.4 P90 BE90S6	
131	53	1.7	7.2	3700	S401_7.2 S3 ME3SA6		S401_7.2 P90 BE90S6	
134	52	1.0	10.7	3670	S401_10.7 S2 ME2SB4	S401_10.7 S2 MX2SB4	S401_10.7 P80 BE80B4	S401_10.7 P80 BX80B4
137	51	2.1	10.5	5130	S501_10.5 S2 ME2SB4	S501_10.5 S2 MX2SB4	S501_10.5 P80 BE80B4	S501_10.5 P80 BX80B4
155	45	2.3	6.1	3530	S401_6.1 S3 ME3SA6		S401_6.1 P90 BE90S6	
161	44	1.3	5.8	1960	S301_5.8 S3 ME3SA6		S301_5.8 P90 BE90S6	
163	43	2.6	8.8	4870	S501_8.8 S2 ME2SB4	S501_8.8 S2 MX2SB4	S501_8.8 P80 BE80B4	S501_8.8 P80 BX80B4
166	42	1.4	8.6	3460	S401_8.6 S2 ME2SB4	S401_8.6 S2 MX2SB4	S401_8.6 P80 BE80B4	S401_8.6 P80 BX80B4
191	37	1.6	4.9	1880	S301_4.9 S3 ME3SA6		S301_4.9 P90 BE90S6	
194	36	2.9	4.8	3300	S401_4.8 S3 ME3SA6		S401_4.8 P90 BE90S6	
200	35	2.3	7.2	3280	S401_7.2 S2 ME2SB4	S401_7.2 S2 MX2SB4	S401_7.2 P80 BE80B4	S401_7.2 P80 BX80B4
202	35	1.4	7.1	1860	S301_7.1 S2 ME2SB4	S301_7.1 S2 MX2SB4	S301_7.1 P80 BE80B4	S301_7.1 P80 BX80B4
221	32	2.5	12.9	4420	S501_12.9 S2 ME2SA2		S501_12.9 P80 BE80A2	
230	31	1.3	12.4	3150	S401_12.4 S2 ME2SA2		S401_12.4 P80 BE80A2	
236	30	3.0	6.1	3120	S401_6.1 S2 ME2SB4	S401_6.1 S2 MX2SB4	S401_6.1 P80 BE80B4	S401_6.1 P80 BX80B4
238	29	2.0	3.9	1780	S301_3.9 S3 ME3SA6		S301_3.9 P90 BE90S6	
245	29	1.7	5.8	1780	S301_5.8 S2 ME2SB4	S301_5.8 S2 MX2SB4	S301_5.8 P80 BE80B4	S301_5.8 P80 BX80B4
246	29	0.9	5.8	1160	S201_5.8 S2 ME2SB4	S201_5.8 S2 MX2SB4	S201_5.8 P80 BE80B4	S201_5.8 P80 BX80B4
267	26	1.5	10.7	3000	S401_10.7 S2 ME2SA2		S401_10.7 P80 BE80A2	
273	26	3.3	10.5	4140	S501_10.5 S2 ME2SA2		S501_10.5 P80 BE80A2	
277	25	0.9	10.3	1730	S301_10.3 S2 ME2SA2		S301_10.3 P80 BE80A2	
290	24	2.1	4.9	1700	S301_4.9 S2 ME2SB4	S301_4.9 S2 MX2SB4	S301_4.9 P80 BE80B4	S301_4.9 P80 BX80B4
300	23	1.1	4.8	1180	S201_4.8 S2 ME2SB4	S201_4.8 S2 MX2SB4	S201_4.8 P80 BE80B4	S201_4.8 P80 BX80B4
302	23	1.3	3.1	1160	S201_3.1 S3 ME3SA6		S201_3.1 P90 BE90S6	
307	23	2.5	3.1	1670	S301_3.1 S3 ME3SA6		S301_3.1 P90 BE90S6	
321	22	1.1	8.9	1660	S301_8.9 S2 ME2SA2		S301_8.9 P80 BE80A2	
330	21	2.3	8.6	2820	S401_8.6 S2 ME2SA2		S401_8.6 P80 BE80A2	
363	19.3	2.6	3.9	1600	S301_3.9 S2 ME2SB4	S301_3.9 S2 MX2SB4	S301_3.9 P80 BE80B4	S301_3.9 P80 BX80B4
364	19.3	1.3	3.9	1130	S201_3.9 S2 ME2SB4	S201_3.9 S2 MX2SB4	S201_3.9 P80 BE80B4	S201_3.9 P80 BX80B4
386	18.2	1.6	2.4	1110	S201_2.4 S3 ME3SA6		S201_2.4 P90 BE90S6	
388	18.1	3.2	2.4	1560	S301_2.4 S3 ME3SA6		S301_2.4 P90 BE90S6	
395	17.8	1.2	7.2	1120	S201_7.2 S2 ME2SA2		S201_7.2 P80 BE80A2	
402	17.5	2.3	7.1	1560	S301_7.1 S2 ME2SA2		S301_7.1 P80 BE80A2	
460	15.2	1.7	3.1	1070	S201_3.1 S2 ME2SB4	S201_3.1 S2 MX2SB4	S201_3.1 P80 BE80B4	S201_3.1 P80 BX80B4
467	15.0	3.3	3.1	1490	S301_3.1 S2 ME2SB4	S301_3.1 S2 MX2SB4	S301_3.1 P80 BE80B4	S301_3.1 P80 BX80B4
488	14.4	2.8	5.8	1480	S301_5.8 S2 ME2SA2		S301_5.8 P80 BE80A2	
490	14.3	1.5	5.8	1060	S201_5.8 S2 ME2SA2		S201_5.8 P80 BE80A2	
496	14.1	1.4	1.9	1040	S201_1.9 S3 ME3SA6		S201_1.9 P90 BE90S6	
515	13.6	2.6	1.8	1440	S301_1.8 S3 ME3SA6		S301_1.8 P90 BE90S6	
578	12.1	3.3	4.9	1410	S301_4.9 S2 ME2SA2		S301_4.9 P80 BE80A2	
587	11.9	2.2	2.4	1010	S201_2.4 S2 ME2SB4	S201_2.4 S2 MX2SB4	S201_2.4 P80 BE80B4	S201_2.4 P80 BX80B4
591	11.9	4.2	2.4	1380	S301_2.4 S2 ME2SB4	S301_2.4 S2 MX2SB4	S301_2.4 P80 BE80B4	S301_2.4 P80 BX80B4
598	11.7	1.8	4.8	1010	S201_4.8 S2 ME2SA2		S201_4.8 P80 BE80A2	
661	10.6	1.1	1.4	460	S101_1.4 S3 ME3SA6		S101_1.4 P90 BE90S6	
668	10.5	3.3	1.4	1330	S301_1.4 S3 ME3SA6		S301_1.4 P90 BE90S6	
676	10.4	1.9	1.4	960	S201_1.4 S3 ME3SA6		S201_1.4 P90 BE90S6	

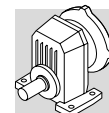


0.75 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC	IE2	IE3
725	9.7	2.2	3.9	960	S201_3.9 S2 ME2SA2		585	S201_3.9 P80 BE80A2	
741	9.5	1.1	3.8	480	S101_3.8 S2 ME2SA2		583	S101_3.8 P80 BE80A2	
755	9.3	1.8	1.9	940	S201_1.9 S2 ME2SB4	S201_1.9 S2 MX2SB4	585	S201_1.9 P80 BE80B4	S201_1.9 P80 BX80B4
763	9.2	1.1	1.9	460	S101_1.9 S2 ME2SB4	S101_1.9 S2 MX2SB4	583	S101_1.9 P80 BE80B4	S101_1.9 P80 BX80B4
783	8.9	3.4	1.8	1280	S301_1.8 S2 ME2SB4	S301_1.8 S2 MX2SB4	587	S301_1.8 P80 BE80B4	S301_1.8 P80 BX80B4
891	7.9	1.3	3.2	460	S101_3.2 S2 ME2SA2		583	S101_3.2 P80 BE80A2	
916	7.7	2.7	3.1	900	S201_3.1 S2 ME2SA2		585	S201_3.1 P80 BE80A2	
1006	7.0	1.4	1.4	440	S101_1.4 S2 ME2SB4	S101_1.4 S2 MX2SB4	583	S101_1.4 P80 BE80B4	S101_1.4 P80 BX80B4
1028	6.8	2.5	1.4	860	S201_1.4 S2 ME2SB4	S201_1.4 S2 MX2SB4	585	S201_1.4 P80 BE80B4	S201_1.4 P80 BX80B4
1140	6.2	1.3	2.5	440	S101_2.5 S2 ME2SA2		583	S101_2.5 P80 BE80A2	
1169	6.0	3.5	2.4	840	S201_2.4 S2 ME2SA2		585	S201_2.4 P80 BE80A2	
1504	4.7	2.8	1.9	780	S201_1.9 S2 ME2SA2		585	S201_1.9 P80 BE80A2	
1520	4.6	1.7	1.9	410	S101_1.9 S2 ME2SA2		583	S101_1.9 P80 BE80A2	
2006	3.5	2.3	1.4	380	S101_1.4 S2 ME2SA2		583	S101_1.4 P80 BE80A2	

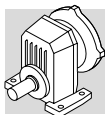
0.75 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC	IE3
111	63	1.6	12.9	5460			S501_12.9 P80 BXN80MB4
134	52	1.0	10.7	3670			S401_10.7 P80 BXN80MB4
137	51	2.1	10.5	5130			S501_10.5 P80 BXN80MB4
163	43	2.6	8.8	4870			S501_8.8 P80 BXN80MB4
166	42	1.4	8.6	3460			S401_8.6 P80 BXN80MB4
200	35	2.3	7.2	3280			S401_7.2 P80 BXN80MB4
202	35	1.4	7.1	1860			S301_7.1 P80 BXN80MB4
236	30	3.0	6.1	3120			S401_6.1 P80 BXN80MB4
245	29	1.7	5.8	1780			S301_5.8 P80 BXN80MB4
246	29	0.9	5.8	1160	SX201_5.8 SX20 MXN20B4	585	S201_5.8 P80 BXN80MB4
290	24	2.1	4.9	1700			S301_4.9 P80 BXN80MB4
300	23	1.1	4.8	1180	SX201_4.8 SX20 MXN20B4	585	S201_4.8 P80 BXN80MB4
363	19.3	2.6	3.9	1600			S301_3.9 P80 BXN80MB4
364	19.3	1.3	3.9	1130	SX201_3.9 SX20 MXN20B4	585	S201_3.9 P80 BXN80MB4
460	15.2	1.7	3.1	1070	SX201_3.1 SX20 MXN20B4	585	S201_3.1 P80 BXN80MB4
467	15.0	3.3	3.1	1490			S301_3.1 P80 BXN80MB4
587	11.9	2.2	2.4	1010	SX201_2.4 SX20 MXN20B4	585	S201_2.4 P80 BXN80MB4
591	11.9	4.2	2.4	1380			S301_2.4 P80 BXN80MB4
755	9.3	1.8	1.9	940	SX201_1.9 SX20 MXN20B4	585	S201_1.9 P80 BXN80MB4
763	9.2	1.1	1.9	460	S101_1.9 SX20 MXN20B4	583	S101_1.9 P80 BXN80MB4
783	8.9	3.4	1.8	1280			S301_1.8 P80 BXN80MB4
1006	7.0	1.4	1.4	440	S101_1.4 SX20 MXN20B4	583	S101_1.4 P80 BXN80MB4
1028	6.8	2.5	1.4	860	SX201_1.4 SX20 MXN20B4	585	S201_1.4 P80 BXN80MB4



1.1 kW

n2 min-1	M2 Nm	S	i	Rn2 N				IEC : ..						
					IE2	IE3		IE2	IE3					
90	114	1.0	10.5	5650	S501_10.5 S3 ME3LA6		591	S501_10.5 P100 BE100M6		592				
108	96	1.3	8.8	5380	S501_8.8 S3 ME3LA6		591	S501_8.8 P100 BE100M6		592				
111	93	1.1	12.9	5320	S501_12.9 S3 ME3SA4		591	S501_12.9 P90 BE90S4		S501_12.9 P90 BX90S4	592			
128	81	1.7	7.4	5120	S501_7.4 S3 ME3LA6		591	S501_7.4 P100 BE100M6			592			
132	78	1.2	7.2	3550	S401_7.2 S3 ME3LA6		589	S401_7.2 P100 BE100M6			590			
137	76	1.5	10.5	5020	S501_10.5 S3 ME3SA4	S501_10.5 S3 MX3SA4	591	S501_10.5 P90 BE90S4	S501_10.5 P90 BX90S4	592				
156	66	1.6	6.1	3400	S401_6.1 S3 ME3LA6		589	S401_6.1 P100 BE100M6		590				
156	66	2.3	6.1	4840	S501_6.1 S3 ME3LA6		591	S501_6.1 P100 BE100M6			592			
163	64	1.7	8.8	4770	S501_8.8 S3 ME3SA4		S501_8.8 S3 MX3SA4	591		S501_8.8 P90 BE90S4	S501_8.8 P90 BX90S4	592		
166	63	1.0	8.6	3350	S401_8.6 S3 ME3SA4		S401_8.6 S3 MX3SA4	589		S401_8.6 P90 BE90S4	S401_8.6 P90 BX90S4	590		
192	54	1.1	4.9	1740	S301_4.9 S3 ME3LA6			587		S301_4.9 P100 BE100M6		588		
193	54	2.4	7.4	4530	S501_7.4 S3 ME3SA4	S501_7.4 S3 MX3SA4		591	S501_7.4 P90 BE90S4	S501_7.4 P90 BX90S4		592		
196	53	2.0	4.8	3200	S401_4.8 S3 ME3LA6			589	S401_4.8 P100 BE100M6			590		
200	52	1.5	7.2	3180	S401_7.2 S3 ME3SA4			S401_7.2 S3 MX3SA4	589			S401_7.2 P90 BE90S4	S401_7.2 P90 BX90S4	590
202	51	1.0	7.1	1730	S301_7.1 S3 ME3SA4			S301_7.1 S3 MX3SA4	587			S301_7.1 P90 BE90S4	S301_7.1 P90 BX90S4	588
220	47	1.7	12.9	4350	S501_12.9 S2 ME2SB2		591	S501_12.9 P80 BE80B2		592				
236	44	2.0	6.1	3040	S401_6.1 S3 ME3SA4		S401_6.1 S3 MX3SA4	589		S401_6.1 P90 BE90S4	S401_6.1 P90 BX90S4	590		
236	44	3.0	6.1	4270	S501_6.1 S3 ME3SA4		S501_6.1 S3 MX3SA4	591		S501_6.1 P90 BE90S4	S501_6.1 P90 BX90S4	592		
240	43	1.3	3.9	1670	S301_3.9 S3 ME3LA6			587		S301_3.9 P100 BE100M6		588		
245	42	1.2	5.8	1670	S301_5.8 S3 ME3SA4			S301_5.8 S3 MX3SA4		587		S301_5.8 P90 BE90S4	S301_5.8 P90 BX90S4	588
248	42	2.5	3.8	2990	S401_3.8 S3 ME3LA6		589	S401_3.8 P100 BE100M6		590				
265	39	1.0	10.7	2930	S401_10.7 S2 ME2SB2		589	S401_10.7 P80 BE80B2			590			
271	38	2.2	10.5	4090	S501_10.5 S2 ME2SB2		591	S501_10.5 P80 BE80B2			592			
290	36	1.4	4.9	1610	S301_4.9 S3 ME3SA4		S301_4.9 S3 MX3SA4	587		S301_4.9 P90 BE90S4	S301_4.9 P90 BX90S4	588		
296	35	2.6	4.8	2850	S401_4.8 S3 ME3SA4		S401_4.8 S3 MX3SA4	589		S401_4.8 P90 BE90S4	S401_4.8 P90 BX90S4	590		
309	33	1.7	3.1	1580	S301_3.1 S3 ME3LA6		587	S301_3.1 P100 BE100M6		588				
310	33	3.2	3.1	2810	S401_3.1 S3 ME3LA6		589	S401_3.1 P100 BE100M6			590			
323	32	2.7	8.8	3870	S501_8.8 S2 ME2SB2		591	S501_8.8 P80 BE80B2			592			
328	31	1.5	8.6	2760	S401_8.6 S2 ME2SB2		589	S401_8.6 P80 BE80B2			590			
363	29	1.7	3.9	1530	S301_3.9 S3 ME3SA4		S301_3.9 S3 MX3SA4	587		S301_3.9 P90 BE90S4	S301_3.9 P90 BX90S4	588		
364	29	0.9	3.9	950	S201_3.9 S3 ME3SA4	S201_3.9 S3 MX3SA4	585	S201_3.9 P90 BE90S4	S201_3.9 P90 BX90S4	586				
375	28	3.3	3.8	2650	S401_3.8 S3 ME3SA4	S401_3.8 S3 MX3SA4	589	S401_3.8 P90 BE90S4	S401_3.8 P90 BX90S4	590				
390	26	2.2	2.4	1490	S301_2.4 S3 ME3LA6		587	S301_2.4 P100 BE100M6		588				
396	26	2.4	7.2	2610	S401_7.2 S2 ME2SB2		589	S401_7.2 P80 BE80B2			590			
399	26	1.6	7.1	1500	S301_7.1 S2 ME2SB2		587	S301_7.1 P80 BE80B2			588			
460	23	1.2	3.1	990	S201_3.1 S3 ME3SA4		S201_3.1 S3 MX3SA4	585		S201_3.1 P90 BE90S4	S201_3.1 P90 BX90S4	586		
467	22	2.3	3.1	1430	S301_3.1 S3 ME3SA4	S301_3.1 S3 MX3SA4	587	S301_3.1 P90 BE90S4	S301_3.1 P90 BX90S4	588				
484	21	1.9	5.8	1420	S301_5.8 S2 ME2SB2		587	S301_5.8 P80 BE80B2		588				
499	21	1.0	1.9	960	S201_1.9 S3 ME3LA6		585	S201_1.9 P100 BE100M6			586			
510	20	3.5	1.9	2420	S401_1.9 S3 ME3LA6		589	S401_1.9 P100 BE100M6			590			
518	19.9	1.8	1.8	1380	S301_1.8 S3 ME3LA6		587	S301_1.8 P100 BE100M6			588			
574	17.9	2.2	4.9	1360	S301_4.9 S2 ME2SB2		587	S301_4.9 P80 BE80B2		588				
587	17.7	1.5	2.4	940	S201_2.4 S3 ME3SA4		S201_2.4 S3 MX3SA4	585		S201_2.4 P90 BE90S4	S201_2.4 P90 BX90S4	586		
591	17.6	2.8	2.4	1340	S301_2.4 S3 ME3SA4		S301_2.4 S3 MX3SA4	587		S301_2.4 P90 BE90S4	S301_2.4 P90 BX90S4	588		
593	17.3	1.2	4.8	950	S201_4.8 S2 ME2SB2			585		S201_4.8 P80 BE80B2		586		

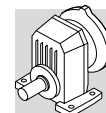


1.1 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC	IE2	IE3
671	15.3	2.3	1.4	1290	S301_1.4 S3 ME3LA6		587	S301_1.4 P100 BE100M6	
679	15.2	1.3	1.4	900	S201_1.4 S3 ME3LA6		585	S201_1.4 P100 BE100M6	
717	14.3	2.8	3.9	1280	S301_3.9 S2 ME2SB2		587	S301_3.9 P80 BE80B2	
719	14.3	1.5	3.9	910	S201_3.9 S2 ME2SB2		585	S201_3.9 P80 BE80B2	
755	13.7	1.2	1.9	890	S201_1.9 S3 ME3SA4	S201_1.9 S3 MX3SA4	585	S201_1.9 P90 BE90S4	S201_1.9 P90 BX90S4
783	13.2	2.3	1.8	1240	S301_1.8 S3 ME3SA4	S301_1.8 S3 MX3SA4	587	S301_1.8 P90 BE90S4	S301_1.8 P90 BX90S4
910	11.3	1.9	3.1	860	S201_3.1 S2 ME2SB2		585	S201_3.1 P80 BE80B2	
1006	10.3	1.0	1.4	390	S101_1.4 S3 ME3SA4	S101_1.4 S3 MX3SA4	583	S101_1.4 P90 BE90S4	S101_1.4 P90 BX90S4
1016	10.2	2.9	1.4	1150	S301_1.4 S3 ME3SA4	S301_1.4 S3 MX3SA4	587	S301_1.4 P90 BE90S4	S301_1.4 P90 BX90S4
1028	10.1	1.7	1.4	820	S201_1.4 S3 ME3SA4	S201_1.4 S3 MX3SA4	585	S201_1.4 P90 BE90S4	S201_1.4 P90 BX90S4
1161	8.9	2.4	2.4	810	S201_2.4 S2 ME2SB2		585	S201_2.4 P80 BE80B2	
1494	6.9	1.9	1.9	750	S201_1.9 S2 ME2SB2		585	S201_1.9 P80 BE80B2	
1509	6.8	1.2	1.9	380	S101_1.9 S2 ME2SB2		583	S101_1.9 P80 BE80B2	
1991	5.2	1.5	1.4	350	S101_1.4 S2 ME2SB2		583	S101_1.4 P80 BE80B2	
2034	5.1	2.6	1.4	690	S201_1.4 S2 ME2SB2		585	S201_1.4 P80 BE80B2	

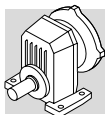
1.1 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC	IE3
111	93	1.1	12.9	5320		S501_12.9 P90 BXN90S4	592
137	76	1.5	10.5	5020		S501_10.5 P90 BXN90S4	592
163	64	1.7	8.8	4770		S501_8.8 P90 BXN90S4	592
166	63	1.0	8.6	3350		S401_8.6 P90 BXN90S4	590
193	54	2.4	7.4	4530		S501_7.4 P90 BXN90S4	592
200	52	1.5	7.2	3180		S401_7.2 P90 BXN90S4	590
202	51	1.0	7.1	1730		S301_7.1 P90 BXN90S4	588
236	44	2.0	6.1	3040		S401_6.1 P90 BXN90S4	590
236	44	3.0	6.1	4270		S501_6.1 P90 BXN90S4	592
245	42	1.2	5.8	1670		S301_5.8 P90 BXN90S4	588
290	36	1.4	4.9	1610		S301_4.9 P90 BXN90S4	588
296	35	2.6	4.8	2850		S401_4.8 P90 BXN90S4	590
363	29	1.7	3.9	1530		S301_3.9 P90 BXN90S4	588
364	29	0.9	3.9	950		S201_3.9 P90 BXN90S4	586
375	28	3.3	3.8	2650		S401_3.8 P90 BXN90S4	590
460	23	1.2	3.1	990		S201_3.1 P90 BXN90S4	586
467	22	2.3	3.1	1430		S301_3.1 P90 BXN90S4	588
587	17.7	1.5	2.4	940		S201_2.4 P90 BXN90S4	586
591	17.6	2.8	2.4	1340		S301_2.4 P90 BXN90S4	588
755	13.7	1.2	1.9	890		S201_1.9 P90 BXN90S4	586
783	13.2	2.3	1.8	1240		S301_1.8 P90 BXN90S4	588
1006	10.3	1.0	1.4	390		S101_1.4 P90 BXN90S4	584
1016	10.2	2.9	1.4	1150		S301_1.4 P90 BXN90S4	588
1028	10.1	1.7	1.4	820		S201_1.4 P90 BXN90S4	586



1.5 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N						
					IE2	IE3		IE2	IE3	
108	130	1.0	8.8	5190	S501_8.8 S3 ME3LB6	S501_10.5 S3 MX3SB4	591	S501_8.8 P100 BE100LA6	S501_10.5 P90 BX90LA4	592
128	110	1.3	7.4	4960	S501_7.4 S3 ME3LB6		591	S501_7.4 P100 BE100LA6		592
137	102	1.1	10.5	4880	S501_10.5 S3 ME3SB4		591	S501_10.5 P90 BE90LA4		592
156	90	1.7	6.1	4700	S501_6.1 S3 ME3LB6		591	S501_6.1 P100 BE100LA6		592
163	86	1.3	8.8	4660	S501_8.8 S3 ME3SB4		591	S501_8.8 P90 BE90LA4		592
193	73	1.8	7.4	4440	S501_7.4 S3 ME3SB4	S401_7.2 S3 MX3SB4	591	S501_7.4 P90 BE90LA4	S401_7.2 P90 BX90LA4	592
196	72	1.5	4.8	3070	S401_4.8 S3 ME3LB6		589	S401_4.8 P100 BE100LA6		590
199	71	2.5	4.8	4380	S501_4.8 S3 ME3LB6		591	S501_4.8 P100 BE100LA6		592
200	70	1.1	7.2	3070	S401_7.2 S3 ME3SB4		589	S401_7.2 P90 BE90LA4		590
222	63	1.3	12.9	4270	S501_12.9 S3 ME3SA2		591	S501_12.9 P90 BE90SA2		592
236	59	1.5	6.1	2940	S401_6.1 S3 ME3SB4	S501_6.1 S3 MX3SB4	589	S401_6.1 P90 BE90LA4	S401_6.1 P90 BX90LA4	590
236	59	2.2	6.1	4190	S501_6.1 S3 ME3SB4		591	S501_6.1 P90 BE90LA4		592
248	57	1.9	3.8	2880	S401_3.8 S3 ME3LB6		589	S401_3.8 P100 BE100LA6		590
273	51	1.7	10.5	4020	S501_10.5 S3 ME3SA2		591	S501_10.5 P90 BE90SA2		592
290	48	1.0	4.9	1500	S301_4.9 S3 ME3SB4		587	S301_4.9 P90 BE90LA4		588
296	47	1.9	4.8	2770	S401_4.8 S3 ME3SB4	S501_4.8 S3 MX3SB4	589	S401_4.8 P90 BE90LA4	S401_4.8 P90 BX90LA4	590
301	47	3.2	4.8	3890	S501_4.8 S3 ME3SB4		591	S501_4.8 P90 BE90LA4		592
309	45	1.3	3.1	1470	S301_3.1 S3 ME3LB6		587	S301_3.1 P100 BE100LA6		588
310	45	2.3	3.1	2720	S401_3.1 S3 ME3LB6		589	S401_3.1 P100 BE100LA6		590
326	43	2.0	8.8	3820	S501_8.8 S3 ME3SA2		591	S501_8.8 P90 BE90SA2		592
331	42	1.1	8.6	2700	S401_8.6 S3 ME3SA2	S301_3.9 S3 MX3SB4	589	S401_8.6 P90 BE90SA2	S301_3.9 P90 BX90LA4	590
363	39	1.3	3.9	1440	S301_3.9 S3 ME3SB4		587	S301_3.9 P90 BE90LA4		588
375	37	2.4	3.8	2590	S401_3.8 S3 ME3SB4		589	S401_3.8 P90 BE90LA4		590
386	36	2.7	7.4	3630	S501_7.4 S3 ME3SA2		591	S501_7.4 P90 BE90SA2		592
390	36	1.6	2.4	1400	S301_2.4 S3 ME3LB6		587	S301_2.4 P100 BE100LA6		588
395	36	3.0	2.4	2540	S401_2.4 S3 ME3LB6	S301_3.1 S3 MX3SB4	589	S401_2.4 P100 BE100LA6	S301_3.1 P90 BX90LA4	590
399	35	1.8	7.2	2560	S401_7.2 S3 ME3SA2		589	S401_7.2 P90 BE90SA2		590
403	35	1.1	7.1	1420	S301_7.1 S3 ME3SA2		587	S301_7.1 P90 BE90SA2		588
467	30	1.7	3.1	1360	S301_3.1 S3 ME3SB4		587	S301_3.1 P90 BE90LA4		588
468	30	3.0	3.1	2430	S401_3.1 S3 ME3SB4		589	S401_3.1 P90 BE90LA4		590
471	30	2.3	6.1	2440	S401_6.1 S3 ME3SA2		589	S401_6.1 P90 BE90SA2		590
488	29	1.4	5.8	1360	S301_5.8 S3 ME3SA2		587	S301_5.8 P90 BE90SA2		588
510	28	2.5	1.9	2350	S401_1.9 S3 ME3LB6		589	S401_1.9 P100 BE100LA6		590
518	27	1.3	1.8	1310	S301_1.8 S3 ME3LB6		587	S301_1.8 P100 BE100LA6		588
579	24	1.6	4.9	1310	S301_4.9 S3 ME3SA2		587	S301_4.9 P90 BE90SA2		588
587	24	1.1	2.4	870	S201_2.4 S3 ME3SB4	S401_2.4 S3 MX3SB4	585	S201_2.4 P90 BE90LA4	S401_2.4 P90 BX90LA4	586
591	24	2.1	2.4	1290	S301_2.4 S3 ME3SB4		587	S301_2.4 P90 BE90LA4		588
598	23	3.8	2.4	2200	S401_2.4 S3 ME3SB4		589	S401_2.4 P90 BE90LA4		590
671	21	1.7	1.4	1230	S301_1.4 S3 ME3LB6		587	S301_1.4 P100 BE100LA6		588
679	21	1.0	1.4	830	S201_1.4 S3 ME3LB6		585	S201_1.4 P100 BE100LA6		586
693	20	3.5	1.4	2150	S401_1.4 S3 ME3LB6	S201_1.9 S3 MX3SB4	589	S401_1.4 P100 BE100LA6	S201_1.9 P90 BX90LA4	590
724	19.4	2.1	3.9	1240	S301_3.9 S3 ME3SA2		587	S301_3.9 P90 BE90SA2		588
755	18.6	0.9	1.9	830	S201_1.9 S3 ME3SB4		585	S201_1.9 P90 BE90LA4		586
772	18.1	3.3	1.9	2090	S401_1.9 S3 ME3SB4		589	S401_1.9 P90 BE90LA4		590
783	17.9	1.7	1.8	1200	S301_1.8 S3 ME3SB4		587	S301_1.8 P90 BE90LA4		588
918	15.3	1.4	3.1	810	S201_3.1 S3 ME3SA2		585	S201_3.1 P90 BE90SA2		586

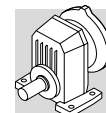


1.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC	IE2	IE3
932	15.1	2.7	3.1	1160	S301_3.1 S3 ME3SA2		587	S301_3.1 P90 BE90SA2	
1016	13.8	2.2	1.4	1110	S301_1.4 S3 ME3SB4	S301_1.4 S3 MX3SB4	587	S301_1.4 P90 BE90LA4	S301_1.4 P90 BX90LA4
1028	13.6	1.2	1.4	780	S201_1.4 S3 ME3SB4	S201_1.4 S3 MX3SB4	585	S201_1.4 P90 BE90LA4	S201_1.4 P90 BX90LA4
1171	12.0	1.8	2.4	770	S201_2.4 S3 ME3SA2		585	S201_2.4 P90 BE90SA2	
1507	9.3	1.4	1.9	720	S201_1.9 S3 ME3SA2		585	S201_1.9 P90 BE90SA2	
1563	9.0	2.7	1.8	1000	S301_1.8 S3 ME3SA2		587	S301_1.8 P90 BE90SA2	
2009	7.0	1.1	1.4	320	S101_1.4 S3 ME3SA2		583	S101_1.4 P90 BE90SA2	
2029	6.9	3.5	1.4	920	S301_1.4 S3 ME3SA2		587	S301_1.4 P90 BE90SA2	
2052	6.8	1.9	1.4	670	S201_1.4 S3 ME3SA2		585	S201_1.4 P90 BE90SA2	

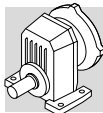
1.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC	IE3
163	86	1.3	8.8	4660		S501_8.8 P90 BXN90L4	592
193	73	1.8	7.4	4440		S501_7.4 P90 BXN90L4	592
200	70	1.1	7.2	3070		S401_7.2 P90 BXN90L4	590
236	59	1.5	6.1	2940		S401_6.1 P90 BXN90L4	590
236	59	2.2	6.1	4190		S501_6.1 P90 BXN90L4	592
290	48	1.0	4.9	1500		S301_4.9 P90 BXN90L4	588
296	47	1.9	4.8	2770		S401_4.8 P90 BXN90L4	590
301	47	3.2	4.8	3890		S501_4.8 P90 BXN90L4	592
363	39	1.3	3.9	1440		S301_3.9 P90 BXN90L4	588
375	37	2.4	3.8	2590		S401_3.8 P90 BXN90L4	590
467	30	1.7	3.1	1360		S301_3.1 P90 BXN90L4	588
468	30	3.0	3.1	2430		S401_3.1 P90 BXN90L4	590
587	24	1.1	2.4	870		S201_2.4 P90 BXN90L4	586
591	24	2.1	2.4	1290		S301_2.4 P90 BXN90L4	588
598	23	3.8	2.4	2200		S401_2.4 P90 BXN90L4	590
755	18.6	0.9	1.9	830		S201_1.9 P90 BXN90L4	586
772	18.1	3.3	1.9	2090		S401_1.9 P90 BXN90L4	590
783	17.9	1.7	1.8	1200		S301_1.8 P90 BXN90L4	588
1016	13.8	2.2	1.4	1110		S301_1.4 P90 BXN90L4	588
1028	13.6	1.2	1.4	780		S201_1.4 P90 BXN90L4	586



2.2 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N	IE2		IE3		IE2		IE3	
158	131	1.1	6.1	4520	S501_6.1 S4 ME4SA6	S501_7.4 S3 MX3LA4	591	S501_6.1 P112 BE112M6	S501_7.4 P100 BX100LA4	592		
193	107	1.2	7.4	4280	S501_7.4 S3 ME3LA4		591	S501_7.4 P100 BE100LA4		592		
201	102	1.7	4.8	4230	S501_4.8 S4 ME4SA6		591	S501_4.8 P112 BE112M6		592		
236	87	1.0	6.1	2790	S401_6.1 S3 ME3LA4		589	S401_6.1 P100 BE100LA4		590		
236	87	1.5	6.1	4060	S501_6.1 S3 ME3LA4		591	S501_6.1 P100 BE100LA4		592		
249	83	2.1	3.8	4000	S501_3.8 S4 ME4SA6	S401_4.8 S3 MX3LA4	591	S501_3.8 P112 BE112M6	S401_4.8 P100 BX100LA4	592		
250	82	1.3	3.8	2730	S401_3.8 S4 ME4SA6		589	S401_3.8 P112 BE112M6		590		
274	75	1.1	10.5	3910	S501_10.5 S3 ME3LA2		591	S501_10.5 P90 BE90L2		592		
296	70	1.3	4.8	2640	S401_4.8 S3 ME3LA4		589	S401_4.8 P100 BE100LA4		590		
301	68	2.2	4.8	3790	S501_4.8 S3 ME3LA4		591	S501_4.8 P100 BE100LA4		592		
313	66	1.6	3.1	2590	S401_3.1 S4 ME4SA6	S501_3.8 S3 MX3LA4	589	S401_3.1 P112 BE112M6	S501_3.8 P100 BX100LA4	590		
314	66	2.4	3.0	3750	S501_3.0 S4 ME4SA6		591	S501_3.0 P112 BE112M6		592		
327	63	1.3	8.8	3730	S501_8.8 S3 ME3LA2		591	S501_8.8 P90 BE90L2		592		
372	55	2.7	3.8	3570	S501_3.8 S3 ME3LA4		591	S501_3.8 P100 BE100LA4		592		
375	55	1.6	3.8	2490	S401_3.8 S3 ME3LA4		589	S401_3.8 P100 BE100LA4		590		
387	53	1.9	7.4	3540	S501_7.4 S3 ME3LA2	S301_3.1 S3 MX3LA4	591	S501_7.4 P90 BE90L2	S301_3.1 P100 BX100LA4	592		
394	52	1.1	2.4	1260	S301_2.4 S4 ME4SA6		587	S301_2.4 P112 BE112M6		588		
399	52	2.0	2.4	2450	S401_2.4 S4 ME4SA6		589	S401_2.4 P112 BE112M6		590		
400	51	1.2	7.2	2460	S401_7.2 S3 ME3LA2		589	S401_7.2 P90 BE90L2		590		
467	44	1.1	3.1	1240	S301_3.1 S3 ME3LA4		587	S301_3.1 P100 BE100LA4		588		
468	44	2.0	3.1	2340	S401_3.1 S3 ME3LA4	S501_3.0 S3 MX3LA4	589	S401_3.1 P100 BE100LA4	S401_3.1 P100 BX100LA4	590		
470	44	3.2	3.0	3340	S501_3.0 S3 ME3LA4		591	S501_3.0 P100 BE100LA4		592		
472	44	1.6	6.1	2360	S401_6.1 S3 ME3LA2		589	S401_6.1 P90 BE90L2		590		
473	44	2.3	6.1	3340	S501_6.1 S3 ME3LA2		591	S501_6.1 P90 BE90L2		592		
490	42	1.0	5.8	1250	S301_5.8 S3 ME3LA2		587	S301_5.8 P90 BE90L2		588		
516	40	1.8	1.9	2280	S401_1.9 S4 ME4SA6	S301_2.4 S3 MX3LA4	589	S401_1.9 P112 BE112M6	S301_2.4 P100 BX100LA4	590		
534	39	3.2	1.8	3210	S501_1.8 S4 ME4SA6		591	S501_1.8 P112 BE112M6		592		
581	35	1.1	4.9	1220	S301_4.9 S3 ME3LA2		587	S301_4.9 P90 BE90L2		588		
591	35	1.4	2.4	1190	S301_2.4 S3 ME3LA4		587	S301_2.4 P100 BE100LA4		588		
593	35	2.0	4.8	2210	S401_4.8 S3 ME3LA2		589	S401_4.8 P90 BE90L2		590		
598	34	2.6	2.4	2200	S401_2.4 S3 ME3LA4	S401_2.4 S3 MX3LA4	589	S401_2.4 P100 BE100LA4	S401_2.4 P100 BX100LA4	590		
679	30	1.2	1.4	1140	S301_1.4 S4 ME4SA6		587	S301_1.4 P112 BE112M6		588		
700	29	2.4	1.4	2090	S401_1.4 S4 ME4SA6		589	S401_1.4 P112 BE112M6		590		
726	28	1.4	3.9	1160	S301_3.9 S3 ME3LA2		587	S301_3.9 P90 BE90L2		588		
751	27	2.6	3.8	2070	S401_3.8 S3 ME3LA2		589	S401_3.8 P90 BE90L2		590		
772	27	2.2	1.9	2040	S401_1.9 S3 ME3LA4	S401_1.4 S3 MX3LA4	589	S401_1.9 P100 BE100LA4	S401_1.4 P100 BX100LA4	590		
783	26	1.1	1.8	1120	S301_1.8 S3 ME3LA4		587	S301_1.8 P100 BE100LA4		588		
921	22	0.9	3.1	730	S201_3.1 S3 ME3LA2		585	S201_3.1 P90 BE90L2		586		
936	22	1.8	3.1	1100	S301_3.1 S3 ME3LA2		587	S301_3.1 P90 BE90L2		588		
1016	20	1.5	1.4	1050	S301_1.4 S3 ME3LA4		587	S301_1.4 P100 BE100LA4		588		
1049	19.6	3.1	1.4	1860	S401_1.4 S3 ME3LA4	S401_1.4 S3 MX3LA4	589	S401_1.4 P100 BE100LA4	S401_1.4 P100 BX100LA4	590		
1175	17.5	1.2	2.4	710	S201_2.4 S3 ME3LA2		585	S201_2.4 P90 BE90L2		586		
1183	17.4	2.3	2.4	1030	S301_2.4 S3 ME3LA2		587	S301_2.4 P90 BE90L2		588		
1512	13.6	1.0	1.9	670	S201_1.9 S3 ME3LA2		585	S201_1.9 P90 BE90L2		586		
1569	13.1	1.8	1.8	960	S301_1.8 S3 ME3LA2		587	S301_1.8 P90 BE90L2		588		



2.2 kW

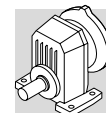
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC : ..	IE2	IE3
2036	10.1	2.4	1.4	890	S301_1.4 S3 ME3LA2		587	S301_1.4 P90 BE90L2	588
2059	10.0	1.3	1.4	630	S201_1.4 S3 ME3LA2		585	S201_1.4 P90 BE90L2	586

2.2 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC : ..	IE3
193	107	1.2	7.4	4280		S501_7.4 P100 BXN100LA4	592
236	87	1.0	6.1	2790		S401_6.1 P100 BXN100LA4	590
236	87	1.5	6.1	4060		S501_6.1 P100 BXN100LA4	592
296	70	1.3	4.8	2640		S401_4.8 P100 BXN100LA4	590
301	68	2.2	4.8	3790		S501_4.8 P100 BXN100LA4	592
372	55	2.7	3.8	3570		S501_3.8 P100 BXN100LA4	592
375	55	1.6	3.8	2490		S401_3.8 P100 BXN100LA4	590
467	44	1.1	3.1	1240		S301_3.1 P100 BXN100LA4	588
468	44	2.0	3.1	2340		S401_3.1 P100 BXN100LA4	590
470	44	3.2	3.0	3340		S501_3.0 P100 BXN100LA4	592
591	35	1.4	2.4	1190		S301_2.4 P100 BXN100LA4	588
598	34	2.6	2.4	2200		S401_2.4 P100 BXN100LA4	590
772	27	2.2	1.9	2040		S401_1.9 P100 BXN100LA4	590
783	26	1.1	1.8	1120		S301_1.8 P100 BXN100LA4	588
1016	20	1.5	1.4	1050		S301_1.4 P100 BXN100LA4	588
1049	19.6	3.1	1.4	1860		S401_1.4 P100 BXN100LA4	590

3 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC : ..	IE2	IE3
201	140	1.3	4.8	4040	S501_4.8 S4 ME4SB6		591	S501_4.8 P132 BE132S6	592
238	119	1.1	6.1	3910	S501_6.1 S3 ME3LB4	S501_6.1 S3 MX3LB4	591	S501_6.1 P100 BE100LB4	S501_6.1 P100 BX100LB4 592
249	113	1.5	3.8	3840	S501_3.8 S4 ME4SB6		591	S501_3.8 P132 BE132S6	592
298	95	1.0	4.8	2490	S401_4.8 S3 ME3LB4	S401_4.8 S3 MX3LB4	589	S401_4.8 P100 BE100LB4	S401_4.8 P100 BX100LB4 590
303	93	1.6	4.8	3670	S501_4.8 S3 ME3LB4	S501_4.8 S3 MX3LB4	591	S501_4.8 P100 BE100LB4	S501_4.8 P100 BX100LB4 592
313	90	1.2	3.1	2440	S401_3.1 S4 ME4SB6		589	S401_3.1 P132 BE132S6	590
314	89	1.8	3.0	3630	S501_3.0 S4 ME4SB6		591	S501_3.0 P132 BE132S6	592
328	85	1.0	8.8	3600	S501_8.8 S3 ME3LB2		591	S501_8.8 P100 BE100L2	592
375	75	2.0	3.8	3470	S501_3.8 S3 ME3LB4	S501_3.8 S3 MX3LB4	591	S501_3.8 P100 BE100LB4	S501_3.8 P100 BX100LB4 592
378	75	1.2	3.8	2370	S401_3.8 S3 ME3LB4	S401_3.8 S3 MX3LB4	589	S401_3.8 P100 BE100LB4	S401_3.8 P100 BX100LB4 590

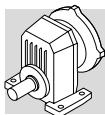


3 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE2	IE3	IEC	IE2	IE3
389	72	1.4	7.4	3440	S501_7.4 S3 ME3LB2		591	S501_7.4 P100 BE100L2	592
397	71	2.1	2.4	3390	S501_2.4 S4 ME4SB6		591	S501_2.4 P132 BE132S6	592
399	70	1.5	2.4	2320	S401_2.4 S4 ME4SB6		589	S401_2.4 P132 BE132S6	590
472	60	1.5	3.1	2250	S401_3.1 S3 ME3LB4	S401_3.1 S3 MX3LB4	589	S401_3.1 P100 BE100LB4	590
473	60	2.3	3.0	3260	S501_3.0 S3 ME3LB4	S501_3.0 S3 MX3LB4	591	S501_3.0 P100 BE100LB4	592
516	54	1.3	1.9	2170	S401_1.9 S4 ME4SB6		589	S401_1.9 P132 BE132S6	590
534	53	2.4	1.8	3120	S501_1.8 S4 ME4SB6		591	S501_1.8 P132 BE132S6	592
595	47	1.1	2.4	1080	S301_2.4 S3 ME3LB4	S301_2.4 S3 MX3LB4	587	S301_2.4 P100 BE100LB4	588
596	47	1.5	4.8	2130	S401_4.8 S3 ME3LB2		589	S401_4.8 P100 BE100L2	590
598	47	2.8	2.4	3040	S501_2.4 S3 ME3LB4	S501_2.4 S3 MX3LB4	591	S501_2.4 P100 BE100LB4	592
602	47	1.9	2.4	2120	S401_2.4 S3 ME3LB4	S401_2.4 S3 MX3LB4	589	S401_2.4 P100 BE100LB4	590
606	46	2.6	4.8	3030	S501_4.8 S3 ME3LB2		591	S501_4.8 P100 BE100L2	592
672	42	3.0	1.4	2920	S501_1.4 S4 ME4SB6		591	S501_1.4 P132 BE132S6	592
700	40	1.7	1.4	2010	S401_1.4 S4 ME4SB6		589	S401_1.4 P132 BE132S6	590
730	38	1.0	3.9	1070	S301_3.9 S3 ME3LB2		587	S301_3.9 P100 BE100L2	588
755	37	1.9	3.8	2000	S401_3.8 S3 ME3LB2		589	S401_3.8 P100 BE100L2	590
778	36	1.7	1.9	1970	S401_1.9 S3 ME3LB4	S401_1.9 S3 MX3LB4	589	S401_1.9 P100 BE100LB4	590
789	36	0.8	1.8	900	S301_1.8 S3 ME3LB4	S301_1.8 S3 MX3LB4	587	S301_1.8 P100 BE100LB4	588
805	35	3.1	1.8	2780	S501_1.8 S3 ME3LB4	S501_1.8 S3 MX3LB4	591	S501_1.8 P100 BE100LB4	592
940	30	1.3	3.1	1020	S301_3.1 S3 ME3LB2		587	S301_3.1 P100 BE100L2	588
943	30	2.4	3.1	1880	S401_3.1 S3 ME3LB2		589	S401_3.1 P100 BE100L2	590
1023	28	1.1	1.4	980	S301_1.4 S3 ME3LB4	S301_1.4 S3 MX3LB4	587	S301_1.4 P100 BE100LB4	588
1056	27	2.2	1.4	1820	S401_1.4 S3 ME3LB4	S401_1.4 S3 MX3LB4	589	S401_1.4 P100 BE100LB4	590
1190	24	1.7	2.4	980	S301_2.4 S3 ME3LB2		587	S301_2.4 P100 BE100L2	588
1204	23	3.0	2.4	1760	S401_2.4 S3 ME3LB2		589	S401_2.4 P100 BE100L2	590
1555	18.1	2.7	1.9	1630	S401_1.9 S3 ME3LB2		589	S401_1.9 P100 BE100L2	590
1577	17.8	1.3	1.8	910	S301_1.8 S3 ME3LB2		587	S301_1.8 P100 BE100L2	588
2046	13.7	1.7	1.4	850	S301_1.4 S3 ME3LB2		587	S301_1.4 P100 BE100L2	588
2070	13.6	1.0	1.4	580	S201_1.4 S3 ME3LB2		585	S201_1.4 P100 BE100L2	586

3 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IEC	IE3
238	119	1.1	6.1	3910		S501_6.1 P100 BXN100LB4	592
298	95	1.0	4.8	2490		S401_4.8 P100 BXN100LB4	590
303	93	1.6	4.8	3670		S501_4.8 P100 BXN100LB4	592
375	75	2.0	3.8	3470		S501_3.8 P100 BXN100LB4	592
378	75	1.2	3.8	2370		S401_3.8 P100 BXN100LB4	590
472	60	1.5	3.1	2250		S401_3.1 P100 BXN100LB4	590
473	60	2.3	3.0	3260		S501_3.0 P100 BXN100LB4	592

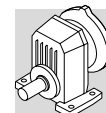


3 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IE3	IE3	IE3
595	47	1.1	2.4	1080		S301_2.4 P100 BXN100LB4	588
598	47	2.8	2.4	3040		S501_2.4 P100 BXN100LB4	592
602	47	1.9	2.4	2120		S401_2.4 P100 BXN100LB4	590
778	36	1.7	1.9	1970		S401_1.9 P100 BXN100LB4	590
789	36	0.8	1.8	900		S301_1.8 P100 BXN100LB4	588
805	35	3.1	1.8	2780		S501_1.8 P100 BXN100LB4	592
1023	28	1.1	1.4	980		S301_1.4 P100 BXN100LB4	588
1056	27	2.2	1.4	1820		S401_1.4 P100 BXN100LB4	590

4 kW

n2 min-1	M2 Nm	S	i	Rn2 N				IEC : 1000		
					IE2	IE3		IE2	IE3	
203	184	0.9	4.8	3810	S501_4.8 S4 ME4LA6	S501_4.8 S4 MX4SA4	591	S501_4.8 P132 BE132MA6	S501_4.8 P112 BX112M4	592
251	149	1.2	3.8	3650	S501_3.8 S4 ME4LA6		591	S501_3.8 P132 BE132MA6		592
303	126	1.2	4.8	3530	S501_4.8 S4 ME4SA4		591	S501_4.8 P112 BE112M4		592
317	118	1.4	3.0	3470	S501_3.0 S4 ME4LA6		591	S501_3.0 P132 BE132MA6		592
375	102	1.5	3.8	3360	S501_3.8 S4 ME4SA4		591	S501_3.8 P112 BE112M4		592
392	96	1.0	7.4	3320	S501_7.4 S4 ME4SA2	S401_3.1 S4 MX4SA4 S501_3.0 S4 MX4SA4	591	S501_7.4 P112 BE112M2	S401_3.1 P112 BX112M4 S501_3.0 P112 BX112M4	592
401	93	1.6	2.4	3270	S501_2.4 S4 ME4LA6		591	S501_2.4 P132 BE132MA6		592
472	81	1.1	3.1	2130	S401_3.1 S4 ME4SA4		589	S401_3.1 P112 BE112M4		590
473	81	1.7	3.0	3170	S501_3.0 S4 ME4SA4		591	S501_3.0 P112 BE112M4		592
479	78	1.3	6.1	3160	S501_6.1 S4 ME4SA2		591	S501_6.1 P112 BE112M2		592
521	72	1.0	1.9	2050	S401_1.9 S4 ME4LA6	S501_2.4 S4 MX4SA4 S401_2.4 S4 MX4SA4	589	S401_1.9 P132 BE132MA6	S501_2.4 P112 BX112M4 S401_2.4 P112 BX112M4	590
540	69	1.8	1.8	3020	S501_1.8 S4 ME4LA6		591	S501_1.8 P132 BE132MA6		592
598	64	2.0	2.4	2970	S501_2.4 S4 ME4SA4		591	S501_2.4 P112 BE112M4		592
602	63	1.4	2.4	2030	S401_2.4 S4 ME4SA4		589	S401_2.4 P112 BE112M4		590
611	61	2.0	4.8	2960	S501_4.8 S4 ME4SA2		591	S501_4.8 P112 BE112M2		592
679	55	2.3	1.4	2830	S501_1.4 S4 ME4LA6	S401_1.9 S4 MX4SA4	591	S501_1.4 P132 BE132MA6	S401_1.9 P112 BX112M4	592
708	53	1.3	1.4	1920	S401_1.4 S4 ME4LA6		589	S401_1.4 P132 BE132MA6		590
755	50	2.4	3.8	2790	S501_3.8 S4 ME4SA2		591	S501_3.8 P112 BE112M2		592
761	49	1.4	3.8	1930	S401_3.8 S4 ME4SA2		589	S401_3.8 P112 BE112M2		590
778	49	1.2	1.9	1900	S401_1.9 S4 ME4SA4		589	S401_1.9 P112 BE112M4		590
805	47	2.3	1.8	2730	S501_1.8 S4 ME4SA4	S501_1.8 S4 MX4SA4	591	S501_1.8 P112 BE112M4	S501_1.8 P112 BX112M4	592
953	39	2.8	3.0	2610	S501_3.0 S4 ME4SA2		591	S501_3.0 P112 BE112M2		592
950	39	1.8	3.1	1820	S401_3.1 S4 ME4SA2		589	S401_3.1 P112 BE112M2		590
1013	38	2.9	1.4	2560	S501_1.4 S4 ME4SA4	S501_1.4 S4 MX4SA4	591	S501_1.4 P112 BE112M4	S501_1.4 P112 BX112M4	592
1056	36	1.7	1.4	1760	S401_1.4 S4 ME4SA4	S401_1.4 S4 MX4SA4	589	S401_1.4 P112 BE112M4	S401_1.4 P112 BX112M4	590
1198	31	1.3	2.4	910	S301_2.4 S4 ME4SA2		587	S301_2.4 P112 BE112M2		588

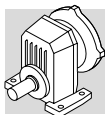


4 kW

n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N	IE2	IE3	IEC	IE2	IE3
1213	31	2.3	2.4	1710	S401_2.4 S4 ME4SA2		589	S401_2.4 P112 BE112M2	590
1566	24	2.0	1.9	1590	S401_1.9 S4 ME4SA2		589	S401_1.9 P112 BE112M2	590
1588	24	1.0	1.8	860	S301_1.8 S4 ME4SA2		587	S301_1.8 P112 BE112M2	588
2061	18.2	1.3	1.4	810	S301_1.4 S4 ME4SA2		587	S301_1.4 P112 BE112M2	588
2127	17.6	2.7	1.4	1460	S401_1.4 S4 ME4SA2		589	S401_1.4 P112 BE112M2	590

4 kW

n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N	IE3	IEC	IE3
303	126	1.2	4.8	3530		S501_4.8 P112 BXN112M4	592
375	102	1.5	3.8	3360		S501_3.8 P112 BXN112M4	592
472	81	1.1	3.1	2130		S401_3.1 P112 BXN112M4	590
473	81	1.7	3.0	3170		S501_3.0 P112 BXN112M4	592
598	64	2.0	2.4	2970		S501_2.4 P112 BXN112M4	592
602	63	1.4	2.4	2030		S401_2.4 P112 BXN112M4	590
778	49	1.2	1.9	1900		S401_1.9 P112 BXN112M4	590
805	47	2.3	1.8	2730		S501_1.8 P112 BXN112M4	592
1013	38	2.9	1.4	2560		S501_1.4 P112 BXN112M4	592
1056	36	1.7	1.4	1760		S401_1.4 P112 BXN112M4	590

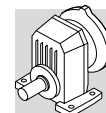


5.5 kW

n2 min-1	M2 Nm	S	i	Rn2 N				 IEC : 		
					IE2	IE3		IE2	IE3	
317	162	1.0	3.0	3260	S501_3.0 S5 ME5SA6	S501_3.8 S4 MX4SB4	591	S501_3.0 P160 BE160MA6	S501_3.8 P132 BX132SB4	592
380	136	1.1	3.8	3150	S501_3.8 S4 ME4SB4		591	S501_3.8 P132 BE132S4		592
401	128	1.2	2.4	3090	S501_2.4 S5 ME5SA6		591	S501_2.4 P160 BE160MA6		592
480	107	1.3	3.0	3000	S501_3.0 S4 ME4SB4		591	S501_3.0 P132 BE132S4		592
540	95	1.3	1.8	2880	S501_1.8 S5 ME5SA6		591	S501_1.8 P160 BE160MA6		592
606	85	1.5	2.4	2830	S501_2.4 S4 ME4SB4	S501_2.4 S4 MX4SB4	591	S501_2.4 P132 BE132S4	S501_2.4 P132 BX132SB4	592
611	84	1.1	2.4	1870	S401_2.4 S4 ME4SB4	S401_2.4 S4 MX4SB4	589	S401_2.4 P132 BE132S4	S401_2.4 P132 BX132SB4	590
616	84	1.4	4.8	2840	S501_4.8 S4 ME4SB2	S501_1.8 S4 MX4SB4	591	S501_4.8 P132 BE132SA2	S501_1.8 P132 BX132SB4	592
679	76	1.6	1.4	2720	S501_1.4 S5 ME5SA6		591	S501_1.4 P160 BE160MA6		592
708	73	1.0	1.4	1780				S401_1.4 P160 BE160MA6		590
761	68	1.8	3.8	2690	S501_3.8 S4 ME4SB2		591	S501_3.8 P132 BE132SA2		592
767	67	1.0	3.8	1810	S401_3.8 S4 ME4SB2		589	S401_3.8 P132 BE132SA2		590
788	65	0.9	1.9	1770	S401_1.9 S4 ME4SB4	S401_1.9 S4 MX4SB4	589	S401_1.9 P132 BE132S4	S401_1.9 P132 BX132SB4	590
817	63	1.7	1.8	2610	S501_1.8 S4 ME4SB4	S501_1.8 S4 MX4SB4	591	S501_1.8 P132 BE132S4	S501_1.8 P132 BX132SB4	592
958	54	1.3	3.1	1730	S401_3.1 S4 ME4SB2		589	S401_3.1 P132 BE132SA2		590
961	54	2.1	3.0	2530	S501_3.0 S4 ME4SB2	S501_1.4 S4 MX4SB4	591	S501_3.0 P132 BE132SA2	S501_1.4 P132 BX132SB4	592
1027	50	2.2	1.4	2450	S501_1.4 S4 ME4SB4		591	S501_1.4 P132 BE132S4		592
1071	48	1.2	1.4	1660	S401_1.4 S4 ME4SB4		589	S401_1.4 P132 BE132S4		590
1215	42	2.4	2.4	2370	S501_2.4 S4 ME4SB2		591	S501_2.4 P132 BE132SA2		592
1223	42	1.7	2.4	1640	S401_2.4 S4 ME4SB2		589	S401_2.4 P132 BE132SA2		590
1580	33	1.5	1.9	1530	S401_1.9 S4 ME4SB2	S501_1.4 S4 MX4SB4	589	S401_1.9 P132 BE132SA2	S501_1.4 P132 BX132SB4	590
1636	31	2.7	1.8	2170	S501_1.8 S4 ME4SB2		591	S501_1.8 P132 BE132SA2		592
2058	25	3.4	1.4	2030	S501_1.4 S4 ME4SB2		591	S501_1.4 P132 BE132SA2		592
2145	24	2.0	1.4	1410	S401_1.4 S4 ME4SB2		589	S401_1.4 P132 BE132SA2		590

5.5 kW

n ₂ min-1	M ₂ Nm	S	i	Rn2 N	 IE3	 IE3	
380	136	1.1	3.8	3150		S501_3.8 P132 BXN132S4	592
480	107	1.3	3.0	3000		S501_3.0 P132 BXN132S4	592
606	85	1.5	2.4	2830		S501_2.4 P132 BXN132S4	592
611	84	1.1	2.4	1870		S401_2.4 P132 BXN132S4	590
788	65	0.9	1.9	1770		S401_1.9 P132 BXN132S4	590
817	63	1.7	1.8	2610		S501_1.8 P132 BXN132S4	592
1027	50	2.2	1.4	2450		S501_1.4 P132 BXN132S4	592
1071	48	1.2	1.4	1660		S401_1.4 P132 BXN132S4	590

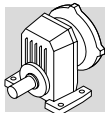


7.5 kW

n2 min-1	M2 Nm	S	i	Rn2 N				 IEC : 		
					IE2	IE3		IE2	IE3	
478	146	1.0	3.0	2810	S501_3.0 S4 ME4LA4	S501_3.0 S4 MX4LA4	591	S501_3.0 P132 BE132MA4	S501_3.0 P132 BX132MA4	592
540	130	1.0	1.8	2690	S501_1.8 S5 ME5SB6		591	S501_1.8 P160 BE160MB6		592
604	116	1.1	2.4	2670	S501_2.4 S4 ME4LA4		591	S501_2.4 P132 BE132MA4	S501_2.4 P132 BX132MA4	592
679	103	1.2	1.4	2560	S501_1.4 S5 ME5SB6		591	S501_1.4 P160 BE160MB6		592
761	92	1.3	3.8	2570	S501_3.8 S4 ME4LA2		591	S501_3.8 P132 BE132SB2		592
814	86	1.3	1.8	2490	S501_1.8 S4 ME4LA4	S501_1.8 S4 MX4LA4	591	S501_1.8 P132 BE132MA4	S501_1.8 P132 BX132MA4	592
958	73	1.0	3.1	1610	S401_3.1 S4 ME4LA2		589	S401_3.1 P132 BE132SB2		590
961	73	1.5	3.0	2440	S501_3.0 S4 ME4LA2		591	S501_3.0 P132 BE132SB2		592
1024	68	1.6	1.4	2350	S501_1.4 S4 ME4LA4	S501_1.4 S4 MX4LA4	591	S501_1.4 P132 BE132MA4	S501_1.4 P132 BX132MA4	592
1067	65	0.9	1.4	1540	S401_1.4 S4 ME4LA4	S401_1.4 S4 MX4LA4	589	S401_1.4 P132 BE132MA4	S401_1.4 P132 BX132MA4	590
1215	58	1.7	2.4	2290	S501_2.4 S4 ME4LA2		591	S501_2.4 P132 BE132SB2		592
1223	57	1.2	2.4	1540	S401_2.4 S4 ME4LA2		589	S401_2.4 P132 BE132SB2		590
1580	44	1.1	1.9	1450	S401_1.9 S4 ME4LA2		589	S401_1.9 P132 BE132SB2		590
1636	43	2.0	1.8	2110	S501_1.8 S4 ME4LA2		591	S501_1.8 P132 BE132SB2		592
2058	34	2.5	1.4	1980	S501_1.4 S4 ME4LA2		591	S501_1.4 P132 BE132SB2		592
2145	33	1.5	1.4	1350	S401_1.4 S4 ME4LA2		589	S401_1.4 P132 BE132SB2		590

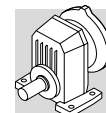
7.5 kW

n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N	IE3	IEC	IE3
478	146	1.0	3.0	2810		S501_3.0 P132 BXN132M4	592
604	116	1.1	2.4	2670		S501_2.4 P132 BXN132M4	592
814	86	1.3	1.8	2490		S501_1.8 P132 BXN132M4	592
1024	68	1.6	1.4	2350		S501_1.4 P132 BXN132M4	592
1067	65	0.9	1.4	1540		S401_1.4 P132 BXN132M4	590



9.2 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N	IEC : 1		IEC : 2		
					IE2	IE3	IE2	IE3	
602	144	0.9	2.4	2530	S501_2.4 S4 ME4LB4	S501_2.4 S5 MX5SA4	591 S501_2.4 P132 BE132MB4	S501_2.4 P160 BX160MA4	592
760	113	1.1	3.8	2470	S501_3.8 S4 ME4LB2		591 S501_3.8 P132 BE132MB2		592
811	107	1.0	1.8	2390	S501_1.8 S4 ME4LB4	S501_1.8 S5 MX5SA4	591 S501_1.8 P132 BE132MB4	S501_1.8 P160 BX160MA4	592
959	90	1.2	3.0	2360	S501_3.0 S4 ME4LB2		591 S501_3.0 P132 BE132MB2		592
1020	85	1.3	1.4	2270	S501_1.4 S4 ME4LB4	S501_1.4 S5 MX5SA4	591 S501_1.4 P132 BE132MB4	S501_1.4 P160 BX160MA4	592
1213	71	1.4	2.4	2220	S501_2.4 S4 ME4LB2		591 S501_2.4 P132 BE132MB2		592
1221	71	1.0	2.4	1460	S401_2.4 S4 ME4LB2		589 S401_2.4 P132 BE132MB2		590
1633	53	1.6	1.8	2060	S501_1.8 S4 ME4LB2		591 S501_1.8 P132 BE132MB2		592
2055	42	2.0	1.4	1930	S501_1.4 S4 ME4LB2		591 S501_1.4 P132 BE132MB2		592
2141	40	1.2	1.4	1300	S401_1.4 S4 ME4LB2		589 S401_1.4 P132 BE132MB2		590



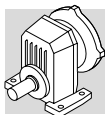
75 DONNEES TECHNIQUES REDUCTEURS

S 10

21 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
S 10 1_1.4	1.4	1972	8.0	1.7	800	310	986	10.0	1.1	800	390	551
S 10 1_1.9	1.9	1489	8.0	1.3	800	360	745	10.0	0.80	800	460	
S 10 1_2.5	2.5	1120	8.0	0.96	800	420	560	10.0	0.60	800	520	
S 10 1_3.2	3.2	875	10.0	0.93	800	440	438	12.0	0.56	800	560	
S 10 1_3.8	3.8	727	10.0	0.78	800	480	364	12.0	0.47	800	610	
S 10 1_4.7	4.7	592	10.0	0.63	800	520	296	12.0	0.38	800	660	
S 10 1_6.1	6.1	458	12.0	0.59	800	560	229	15.0	0.37	800	710	
S 10 1_6.9	6.9	406	12.0	0.52	800	580	203	15.0	0.33	800	740	
S 10 1_8.9	8.9	315	8.0	0.27	800	700	158	10.0	0.17	800	880	
S 10 1_10.3	10.3	272	8.0	0.23	800	740	136	10.0	0.15	800	930	
S 10 1_12.3	12.3	227	8.0	0.19	800	800	114	10.0	0.12	800	1000	

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
S 10 1_1.4	1.4	634	12.0	0.81	800	450	352	14.0	0.53	800	560	551
S 10 1_1.9	1.9	479	12.0	0.61	800	520	266	14.0	0.40	800	640	
S 10 1_2.5	2.5	360	12.0	0.46	800	600	200	14.0	0.30	800	740	
S 10 1_3.2	3.2	281	14.0	0.42	800	650	156	17.0	0.28	800	790	
S 10 1_3.8	3.8	234	14.0	0.35	800	700	130	17.0	0.24	800	850	
S 10 1_4.7	4.7	190	14.0	0.28	800	770	106	17.0	0.19	800	930	
S 10 1_6.1	6.1	147	17.0	0.27	800	820	82	21	0.18	800	1000	
S 10 1_6.9	6.9	130	17.0	0.24	800	860	72	21	0.16	800	1040	
S 10 1_8.9	8.9	101	12.0	0.13	800	1020	56	14.0	0.08	800	1200	
S 10 1_10.3	10.3	87	12.0	0.11	800	1080	49	14.0	0.07	800	1200	
S 10 1_12.3	12.3	73	12.0	0.09	800	1160	41	14.0	0.06	800	1200	

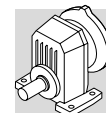


S 20

37 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
S 20 1_1.4	1.4	2014	13.0	2.8	1000	590	1007	17.0	1.8	1000	740	553
S 20 1_1.9	1.9	1481	13.0	2.1	1000	680	741	17.0	1.3	1000	860	
S 20 1_2.4	2.4	1148	21	2.6	640	680	574	26	1.6	850	860	
S 20 1_3.1	3.1	900	21	2.0	730	750	450	26	1.3	960	950	
S 20 1_3.9	3.9	712	21	1.6	820	840	356	26	0.99	1000	1060	
S 20 1_4.8	4.8	587	21	1.3	910	920	294	26	0.82	1000	1160	
S 20 1_5.8	5.8	481	21	1.1	960	1000	241	26	0.67	1000	1260	
S 20 1_7.2	7.2	388	21	0.87	980	1090	194	26	0.54	1000	1370	
S 20 1_8.5	8.5	329	13.0	0.46	1000	1240	165	17.0	0.30	1000	1500	
S 20 1_10.8	10.8	260	13.0	0.36	1000	1350	130	17.0	0.24	1000	1500	
S 20 1_12.4	12.4	225	13.0	0.31	1000	1430	113	17.0	0.20	1000	1500	

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
S 20 1_1.4	1.4	647	20	1.4	1000	850	360	24	0.92	1000	1040	553
S 20 1_1.9	1.9	476	20	1.0	1000	990	265	24	0.68	1000	1210	
S 20 1_2.4	2.4	369	30	1.2	990	990	205	37	0.81	1000	1200	
S 20 1_3.1	3.1	289	30	0.93	1000	1110	161	37	0.64	1000	1340	
S 20 1_3.9	3.9	229	30	0.73	1000	1230	127	37	0.50	1000	1490	
S 20 1_4.8	4.8	189	30	0.60	1000	1350	105	37	0.41	1000	1500	
S 20 1_5.8	5.8	155	30	0.50	1000	1460	86	37	0.34	1000	1500	
S 20 1_7.2	7.2	125	30	0.40	1000	1500	69	37	0.27	1000	1500	
S 20 1_8.5	8.5	106	20	0.23	1000	1500	59	24	0.15	1000	1500	
S 20 1_10.8	10.8	84	20	0.18	1000	1500	47	24	0.12	1000	1500	
S 20 1_12.4	12.4	72	20	0.15	1000	1500	40	24	0.10	1000	1500	

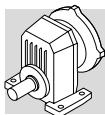


S 30

70 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
S 30 1_1.4	1.4	1986	24	5.1	1500	770	993	30	3.2	1500	970	555
S 30 1_1.8	1.8	1530	24	3.9	1500	870	765	30	2.5	1500	1090	
S 30 1_2.4	2.4	1157	40	4.9	1270	850	579	50	3.1	1500	1070	
S 30 1_3.1	3.1	915	40	3.9	1470	950	458	50	2.4	1500	1200	
S 30 1_3.9	3.9	711	40	3.0	1500	1070	355	50	1.9	1500	1360	
S 30 1_4.9	4.9	568	40	2.4	1500	1190	284	50	1.5	1500	1500	
S 30 1_5.8	5.8	479	40	2.0	1500	1280	239	50	1.3	1500	1610	
S 30 1_7.1	7.1	395	40	1.7	1500	1390	197	50	1.1	1500	1750	
S 30 1_8.9	8.9	315	24	0.81	1500	1650	157	30	0.50	1500	2080	
S 30 1_10.3	10.3	272	24	0.70	1500	1740	136	30	0.44	1500	2190	
S 30 1_13.1	13.1	213	24	0.55	1500	1900	107	30	0.34	1500	2400	

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
S 30 1_1.4	1.4	638	35	2.4	1500	1120	355	42	1.6	1500	1360	555
S 30 1_1.8	1.8	492	35	1.8	1500	1260	273	42	1.2	1500	1540	
S 30 1_2.4	2.4	372	58	2.3	1500	1240	207	70	1.5	1500	1510	
S 30 1_3.1	3.1	294	58	1.8	1500	1390	163	70	1.2	1500	1700	
S 30 1_3.9	3.9	228	58	1.4	1500	1570	127	70	0.95	1500	1920	
S 30 1_4.9	4.9	183	58	1.1	1500	1740	101	70	0.76	1500	2120	
S 30 1_5.8	5.8	154	58	0.95	1500	1870	85	70	0.64	1500	2280	
S 30 1_7.1	7.1	127	58	0.79	1500	2030	71	62	0.47	1500	2400	
S 30 1_8.9	8.9	101	35	0.38	1500	2400	56	42	0.25	1500	2400	
S 30 1_10.3	10.3	87	35	0.33	1500	2400	49	42	0.22	1500	2400	
S 30 1_13.1	13.1	69	35	0.26	1500	2400	38	37	0.15	1500	2400	

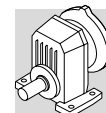


S 40

125 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
S 40 1_1.4	1.4	2059	48	10.6	2000	1270	1029	60	6.6	2000	1600	557
S 40 1_1.9	1.9	1514	48	7.8	2000	1450	757	60	4.9	2000	1830	
S 40 1_2.4	2.4	1172	70	8.8	1860	1490	586	90	5.6	2000	1870	
S 40 1_3.1	3.1	918	70	6.9	2000	1660	459	90	4.4	2000	2080	
S 40 1_3.8	3.8	735	70	5.5	2000	1830	367	90	3.5	2000	2290	
S 40 1_4.8	4.8	580	70	4.3	2000	2020	290	90	2.8	2000	2530	
S 40 1_6.1	6.1	461	70	3.5	2000	2220	231	90	2.2	2000	2790	
S 40 1_7.2	7.2	392	63	2.6	2000	2410	196	80	1.7	2000	3030	
S 40 1_8.6	8.6	324	48	1.7	2000	2670	162	60	1.0	2000	3370	
S 40 1_10.7	10.7	262	40	1.1	2000	2930	131	50	0.70	2000	3690	
S 40 1_12.4	12.4	226	40	1.0	2000	3100	113	50	0.60	2000	3800	

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
S 40 1_1.4	1.4	662	70	4.9	2000	1850	368	85	3.3	2000	2250	557
S 40 1_1.9	1.9	486	70	3.6	2000	2120	270	85	2.5	2000	2580	
S 40 1_2.4	2.4	377	105	4.2	2000	2160	209	125	2.8	2000	2650	
S 40 1_3.1	3.1	295	105	3.3	2000	2400	164	125	2.2	2000	2940	
S 40 1_3.8	3.8	236	105	2.7	2000	2650	131	125	1.8	2000	3240	
S 40 1_4.8	4.8	186	105	2.1	2000	2930	104	125	1.4	2000	3580	
S 40 1_6.1	6.1	148	105	1.7	2000	3220	82	110	1.0	2000	3800	
S 40 1_7.2	7.2	126	90	1.2	2000	3530	70	90	0.67	2000	3800	
S 40 1_8.6	8.6	104	70	0.78	2000	3800	58	85	0.53	2000	3800	
S 40 1_10.7	10.7	84	58	0.52	2000	3800	47	70	0.35	2000	3800	
S 40 1_12.4	12.4	73	58	0.45	2000	3800	40	70	0.30	2000	3800	

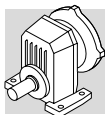


S 50

200 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
S 50 1_1.4	1.4	1972	85	17.9	730	1720	986	110	11.6	730	2150	559
S 50 1_1.8	1.8	1564	85	14.2	1220	1920	782	110	9.2	1370	2400	
S 50 1_2.4	2.4	1162	100	12.4	930	2110	581	130	8.1	970	2640	
S 50 1_3.0	3.0	921	110	10.8	860	2300	461	140	6.9	1020	2880	
S 50 1_3.8	3.8	729	120	9.3	640	2480	365	150	5.8	860	3130	
S 50 1_4.8	4.8	589	120	7.6	880	2710	295	150	4.7	1160	3420	
S 50 1_6.1	6.1	462	100	4.9	1980	3100	231	130	3.2	2330	3880	
S 50 1_7.4	7.4	378	100	4.0	2060	3340	189	130	2.6	2400	4190	
S 50 1_8.8	8.8	319	85	2.9	2400	3640	160	110	1.9	2400	4570	
S 50 1_10.5	10.5	268	85	2.4	2400	3880	134	110	1.6	2400	4870	
S 50 1_12.9	12.9	217	80	1.9	2400	4200	109	100	1.2	2400	5300	

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
S 50 1_1.4	1.4	634	125	8.5	1010	2510	352	155	5.8	1040	3040	559
S 50 1_1.8	1.8	503	125	6.7	1730	2790	279	155	4.6	1940	3380	
S 50 1_2.4	2.4	373	150	6.0	1160	3060	207	180	4.0	1530	3730	
S 50 1_3.0	3.0	296	160	5.1	1290	3350	164	200	3.5	1310	4050	
S 50 1_3.8	3.8	234	175	4.4	940	3620	130	200	2.8	1740	4460	
S 50 1_4.8	4.8	189	175	3.5	1290	3960	105	180	2.0	2400	4970	
S 50 1_6.1	6.1	149	150	2.4	2400	4500	83	150	1.3	2400	5620	
S 50 1_7.4	7.4	122	140	1.8	2400	4900	68	140	1.0	2400	6100	
S 50 1_8.8	8.8	103	125	1.4	2400	5310	57	125	0.80	2400	6580	
S 50 1_10.5	10.5	86	115	1.1	2400	5700	48	115	0.60	2400	7050	
S 50 1_12.9	12.9	70	100	0.70	2400	6210	39	100	0.40	2400	7200	



76 PREDISPOSITIONS MOTEUR

Dans les tableaux suivants sont indiqués les accouplements possibles en termes de dimensions.

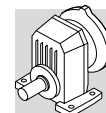
Le choix le plus approprié du motoréducteur à utiliser doit être effectué selon les indications du paragraphe 12, ainsi qu'en fonction des tableaux de sélection, respectant en particulier la condition $S \geq f_s$.

(E 69)

		IEC_     (IM B5)															
		BN	BE	BX	BXN	BN	BE	BX	BXN	BN	BE	BX	BXN	BN	BE	BX	BXN
$P_{n1}^{(*)}$ [kW]	2p	0.37	—	—	—	0.75	—	—	—	1.5	1.1	—	—	2.2	2.2	—	—
	4p	0.25	0.18	0.25	0.18	0.55	0.37	0.37	0.37	1.1	0.75	0.75	0.75	1.85	1.5	1.5	1.5
	6p	0.12	—	—	—	0.37	—	—	—	0.75	—	—	—	1.1	0.75	—	—
		P63				P71				P80				P90			
S 10 1	i =	1.4_12.3				1.4_12.3				1.4_8.9				1.4_8.9			
S 20 1		1.9_12.4				1.9_12.4				1.4_10.8				1.4_10.8			
S 30 1		2.4_13.1				2.4_13.1				1.4_13.1				1.4_13.1			
S 40 1		3.1_12.4				3.1_12.4				1.4_12.4				1.4_12.4			
S 50 1		3.8_12.9				3.8_12.9				1.4_12.9				1.4_12.9			

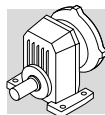
		IEC_    (IM B5)																	
		BN	BE	BX	BXN	BN	BE	BX	BXN	BN	BE	BX	BXN	BN	BE	BX	BN	BE	BX
P _{n1} (#) [kW]	2p	4	3	—	—	4	4	—	—	9.2	9.2	—	—	18.5	18.5	—	22	—	—
	4p	3	3	3	3	4	4	4	4	9.2	9.2	7.5	7.5	15	15	15	22	22	22
	6p	1.85	1.5	—	—	2.2	2.2	—	—	5.5	4	—	—	11	7.5	—	15	—	—
		P100				P112				P132				P160				P180	
S 10 1	i =	1.4_8.9				1.4_8.9													
S 20 1		1.4_10.8				1.4_10.8													
S 30 1		1.4_13.1				1.4_13.1				1.4_4.9									
S 40 1		1.4_12.4				1.4_12.4				1.4_6.1									
S 50 1		1.4_12.9				1.4_12.9				1.4_7.4				1.4_7.4				1.4_7.4	

(#) P_{n1} = puissance maximum installable en entrée P_{-}



(E 70)

		   					
		M05 - ME05 - MXN05	M1 - ME1 - MXN10	ME2-MX2- MXN20	ME3 - MX3	ME4 - MX4	ME5 - MX5
S 10 1	i =	1.4_12.3	1.4_6.9	1.4_8.9	1.4_8.9		
S 20 1		1.9_12.4	1.9_8.5	1.4_10.8	1.4_10.8		
S 30 1			2.4_10.3	1.4_13.1	1.4_13.1	1.4_4.9	
S 40 1			3.1_12.4	1.4_12.4	1.4_12.4	1.4_6.1	
S 50 1			3.8_12.9	1.4_12.9	1.4_12.9	1.4_7.4	1.4_7.4

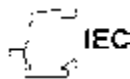


77 MOMENT D'INERTIE

Les tableaux suivants indiquent les valeurs du moment d'inertie J_r [kgm²] au niveau de l'arbre rapide du réducteur ; pour une plus grande facilité de lecture, nous vous prions de noter les définitions des symboles employés.



Les valeurs liées à ces symboles sont à assigner au réducteur compact sans moteur. Dans ce cas, afin d'avoir le moment d'inertie total du motoréducteur, on devra additionner la valeur correspondant au réducteur compact, à celle du moteur à assembler (donnée que l'on peut repérer dans les tableaux des caractéristiques techniques des moteurs électriques).



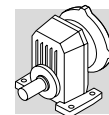
Les valeurs liées à ces symboles sont à assigner au réducteur prédisposé pour accouplement moteur seulement (taille IEC...).



Les valeurs liées au réducteur sont assignées à ce symbole.

S 10

	i	J (•10 ⁻⁴) [kgm ²]							
			63	71	80	90	100	112	
S 10 1_1.4	1.4	0.33	1.8	1.8	3.2	3.1	4.4	4.4	1.2
S 10 1_1.9	1.9	0.22	1.7	1.7	3.1	3.0	4.3	4.3	1.1
S 10 1_2.5	2.5	0.16	1.6	1.6	3.0	2.9	4.2	4.2	1.0
S 10 1_3.2	3.2	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.97
S 10 1_3.8	3.8	0.08	1.5	1.5	2.9	2.9	4.2	4.2	0.95
S 10 1_4.7	4.7	0.06	1.5	1.5	2.9	2.8	4.1	4.1	0.93
S 10 1_6.1	6.1	0.04	1.5	1.5	2.9	2.8	4.1	4.1	0.92
S 10 1_6.9	6.9	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.91
S 10 1_8.9	8.9	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.90
S 10 1_10.3	10.3	0.02	1.5	1.5	—	—	—	—	0.89
S 10 1_12.3	12.3	0.01	1.5	1.5	—	—	—	—	0.89

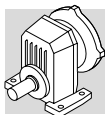


S 20

	i	J (•10-4) [kgm2]							
			IEC						
			63	71	80	90	100	112	
S 20 1_1.4	1.4	0.73	—	—	3.6	3.5	4.8	4.8	2.7
S 20 1_1.9	1.9	0.48	1.9	1.9	3.3	3.3	4.6	4.6	2.4
S 20 1_2.4	2.4	0.34	1.8	1.8	3.2	3.1	4.4	4.4	2.3
S 20 1_3.1	3.1	0.20	1.7	1.7	3.0	3.0	4.3	4.3	2.1
S 20 1_3.9	3.9	0.14	1.6	1.6	3.0	2.9	4.2	4.2	2.1
S 20 1_4.8	4.8	0.12	1.6	1.6	3.0	2.9	4.2	4.2	2.0
S 20 1_5.8	5.8	0.08	1.6	1.5	2.9	2.9	4.2	4.2	2.0
S 20 1_7.2	7.2	0.06	1.5	1.5	2.9	2.8	4.1	4.1	2.0
S 20 1_8.5	8.5	0.05	1.5	1.5	2.9	2.8	4.1	4.1	2.0
S 20 1_10.8	10.8	0.03	1.5	1.5	2.9	2.8	4.1	4.1	1.9
S 20 1_12.4	12.4	0.02	1.5	1.5	—	—	—	—	1.9

S 30

	i	J (•10-4) [kgm2]								
			IEC							
			63	71	80	90	100	112	132	
S 30 1_1.4	1.4	1.5	—	—	4.3	4.3	5.6	5.6	18	3.8
S 30 1_1.8	1.8	1.1	—	—	3.9	3.8	5.1	5.1	18	3.4
S 30 1_2.4	2.4	0.59	2.1	2.0	3.4	3.4	4.7	4.7	17	2.9
S 30 1_3.1	3.1	0.45	1.9	1.9	3.3	3.2	4.5	4.5	17	2.8
S 30 1_3.9	3.9	0.33	1.8	1.8	3.2	3.1	4.4	4.4	17	2.7
S 30 1_4.9	4.9	0.24	1.7	1.7	3.1	3.0	4.3	4.3	17	2.6
S 30 1_5.8	5.8	0.19	1.7	1.7	3.0	3.0	4.3	4.3	—	2.6
S 30 1_7.1	7.1	0.14	1.6	1.6	3.0	2.9	4.2	4.2	—	2.5
S 30 1_8.9	8.9	0.10	1.6	1.6	2.9	2.9	4.2	4.2	—	2.5
S 30 1_10.3	10.3	0.08	1.5	1.5	2.9	2.9	4.2	4.2	—	2.4
S 30 1_13.1	13.1	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	2.4

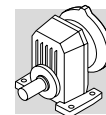


S 40

	i	J (•10-4) [kgm2]								
			IEC							
			63	71	80	90	100	112	132	
S 40 1_1.4	1.4	3.7	—	—	6.5	6.5	7.8	7.8	23	14
S 40 1_1.9	1.9	2.4	—	—	5.2	5.2	6.5	6.5	21	13
S 40 1_2.4	2.4	1.6	—	—	4.4	4.4	5.7	5.7	21	12
S 40 1_3.1	3.1	1.1	2.6	2.6	4.0	3.9	5.2	5.2	20	12
S 40 1_3.8	3.8	0.82	2.3	2.3	3.7	3.6	4.9	4.9	18	11
S 40 1_4.8	4.8	0.50	2.0	2.0	3.3	3.3	4.6	4.6	18	11
S 40 1_6.1	6.1	0.39	1.8	1.8	3.2	3.2	4.5	4.5	18	11
S 40 1_7.2	7.2	0.30	1.8	1.8	3.1	3.1	4.4	4.4	—	11
S 40 1_8.6	8.6	0.22	1.7	1.7	3.1	3.0	4.3	4.3	—	11
S 40 1_10.7	10.7	0.15	1.6	1.6	3.0	2.9	4.2	4.2	—	11
S 40 1_12.4	12.4	0.12	1.6	1.6	3.0	2.8	4.2	4.2	—	11

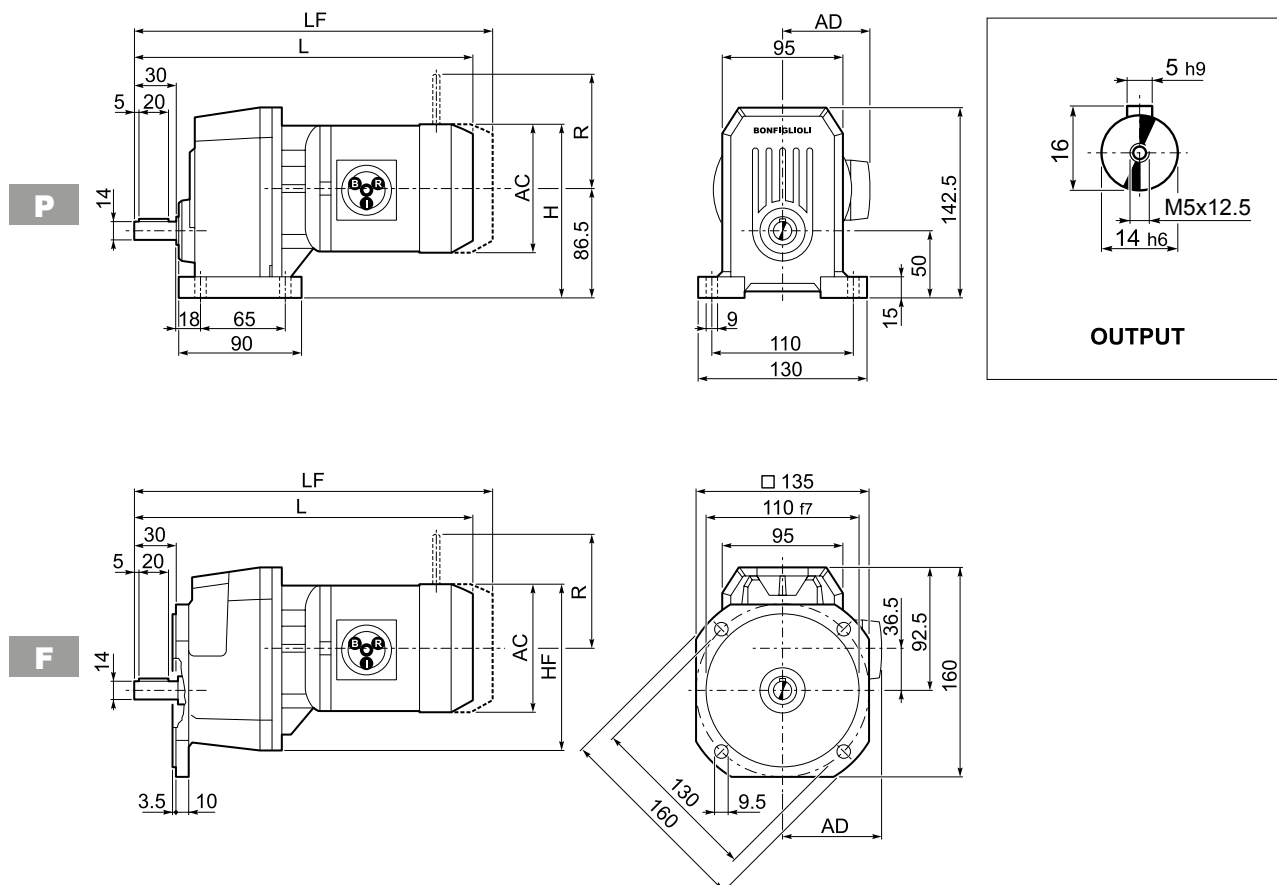
S 50

	i	J (•10-4) [kgm2]											
			IEC										
			63	71	80	90	100	112	132	160	180		
S 50 1_1.4	1.4	8.2	—	—	11	11	12	12	27	86	84	19	
S 50 1_1.8	1.8	5.9	—	—	8.8	8.7	10	10	25	84	82	16	
S 50 1_2.4	2.4	3.9	—	—	6.8	6.7	8.0	8.0	23	82	80	14	
S 50 1_3.0	3.0	2.7	—	—	5.5	5.5	6.8	6.8	22	81	79	13	
S 50 1_3.8	3.8	1.9	3.3	3.3	4.7	4.6	5.9	5.9	21	80	78	12	
S 50 1_4.8	4.8	1.4	2.8	2.8	4.2	4.1	5.4	5.4	21	79	77	12	
S 50 1_6.1	6.1	0.89	2.4	2.4	3.7	3.7	5.0	5.0	21	79	77	11	
S 50 1_7.4	7.4	0.63	2.1	2.1	3.5	3.4	4.7	4.7	20	79	77	11	
S 50 1_8.8	8.8	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11	
S 50 1_10.5	10.5	0.36	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	11	
S 50 1_12.9	12.9	0.25	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	11	

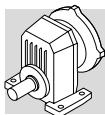


78 DIMENSIONS

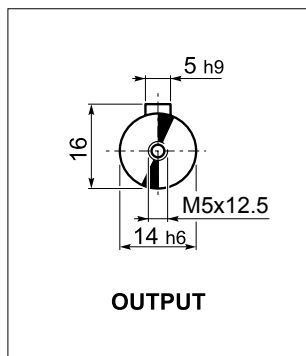
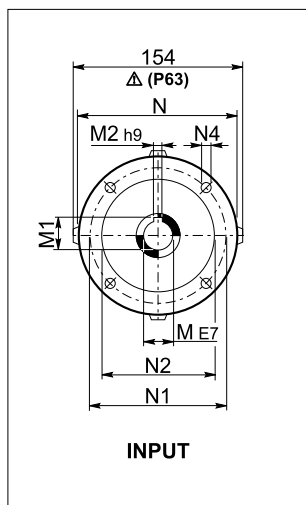
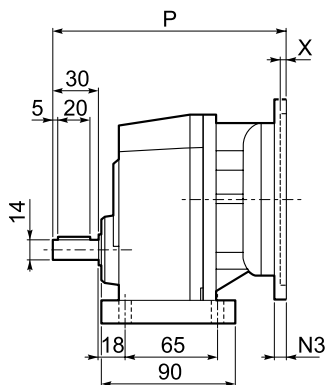
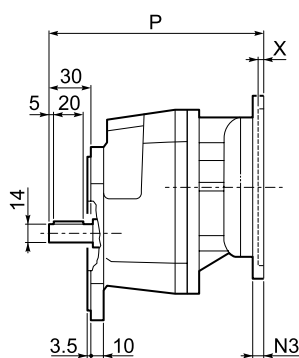
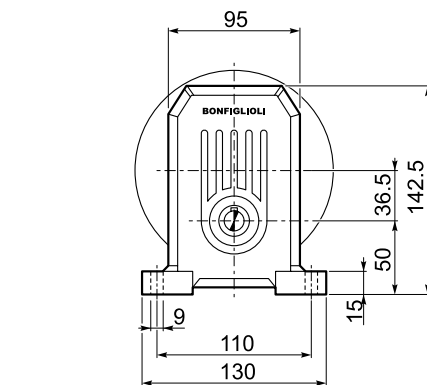
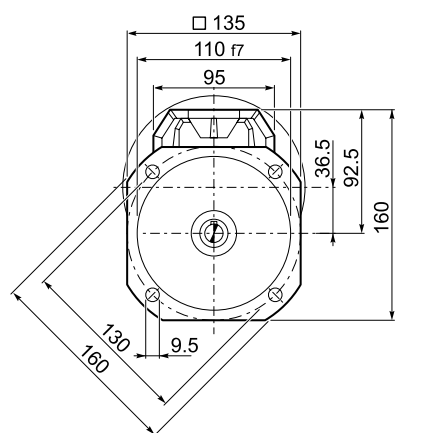
S 10...M/ME/MX/MXN



			Gearmotor - Without brake							Gearmotor - With brake									
			AC	H	HF	L		AD		M...FD				M...FDD					
						plastic	metal			LF		R	AD	LF			R	AD	
S 10 1	S05	M05	121	147	143	—	315	95	8	381	11	96	122	—	—	—	—	—	
		ME05	121	147	143	—	315	95	8	381	11	96	119	—	—	—	—	—	
		MX05	121	147	143	—	315	95	8	381	11	96	119	—	—	—	—	—	
	SX05	MXN05	123	148	143	361.5	339.5	122.2	9.8	—	—	—	—	388.5	354.2	10.9	106	136	
	S1	M1	137	155	151	—	344	102	10	405	13	103	135	—	—	—	—	—	
		ME1	137	155	151	—	344	102	10	405	13	103	135	—	—	—	—	—	
		MX1	137	155	151	—	344	102	10	405	13	103	135	—	—	—	—	—	
	SX10	MXN10	138	155.5	151	373	353.5	123.3	12.4	—	—	—	—	409	374.1	14.8	106	138	
	S2	M2S	156	164	160	—	367	111	13	443	17	129	146	—	—	—	—	—	
		ME2S	156	164	160	—	367	111	13	443	19.1	129	143	—	—	—	—	—	
		MX2S	156	164	160	—	411	111	18.1	501	26.3	129	143	—	—	—	—	—	
	SX20	MXN20	158	165	160	434.5	418.2	132.8	20.3	—	—	—	—	475.5	437.3	22.5	115	148	
	S3	ME3S	195	184	180	—	416	135	20.5	512	28.4	160	155	—	—	—	—	—	
		MX3S	195	184	180	—	448	135	23.5	540	33.4	160	155	—	—	—	—	—	
		ME3L	195	184	180	—	448	135	21	539	34.9	160	155	—	—	—	—	—	
		MX3L	195	184	180	—	492	135	27	584	42.4	160	155	—	—	—	—	—	

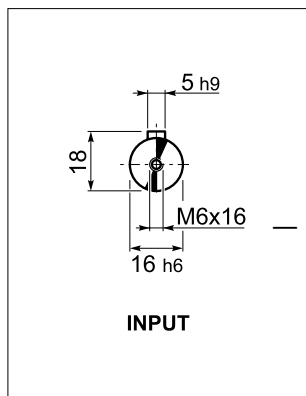
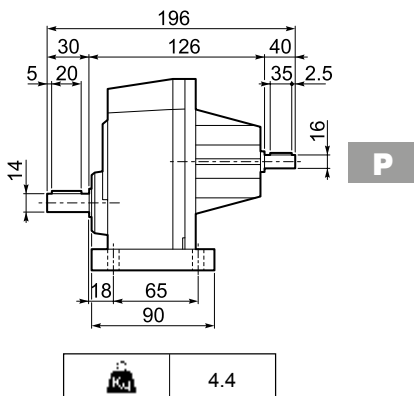
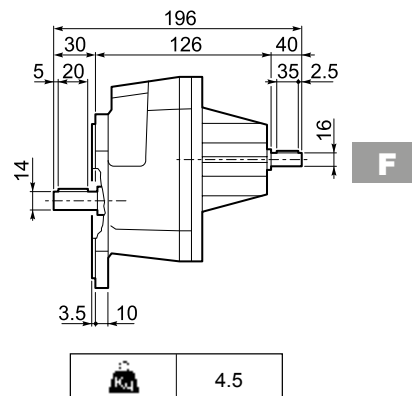


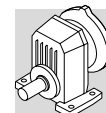
S 10...P (IEC)



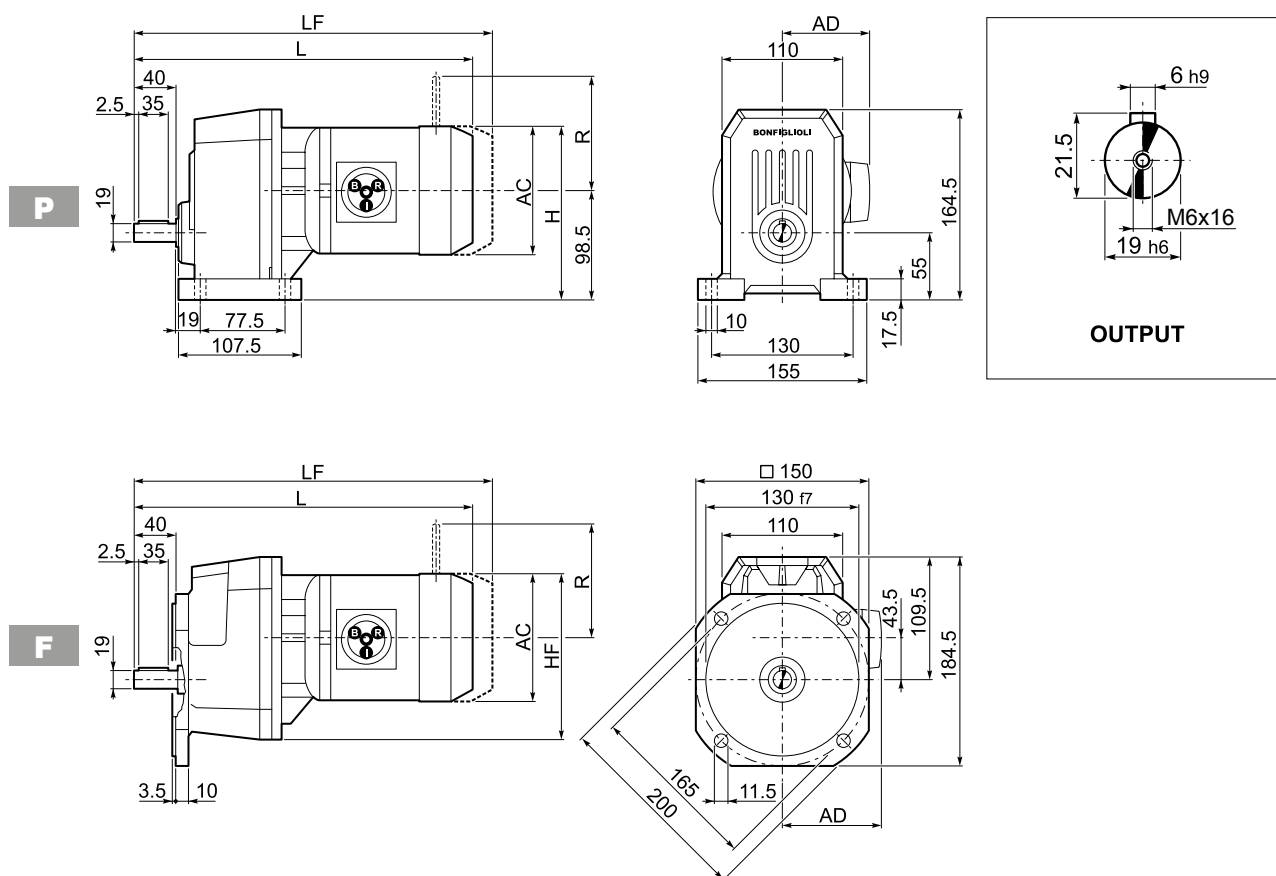
		M	M1	M2	N	N1	N2	N3	N4	P	X	
S 10 1	P63	11	12.8	4	140	115	95	—	M8x10	189	4	5
S 10 1	P71	14	16.3	5	160	130	110	—	M8x10	189	4.5	5
S 10 1	P80	19	21.8	6	200	165	130	—	M10x14.5	208	4	6
S 10 1	P90	24	27.3	8	200	165	130	—	M10x14.5	208	4	6
S 10 1	P100	28	31.3	8	250	215	180	—	M12x16	218	4.5	10
S 10 1	P112	28	31.3	8	250	215	180	—	M12x16	218	4.5	10

S 10...HS

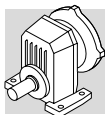




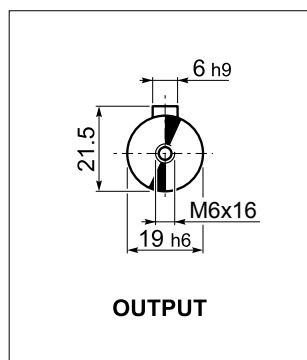
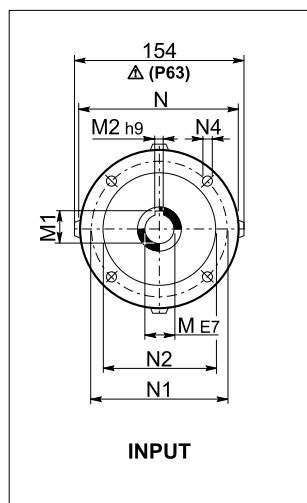
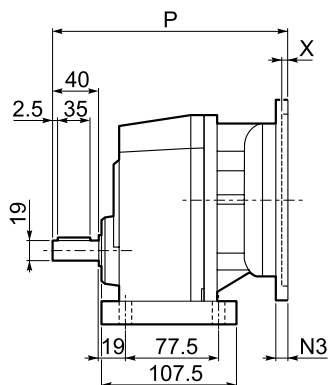
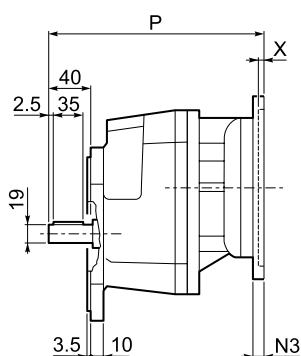
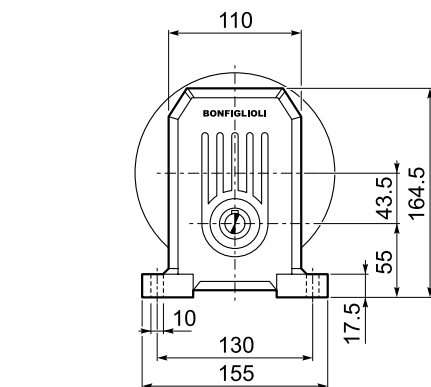
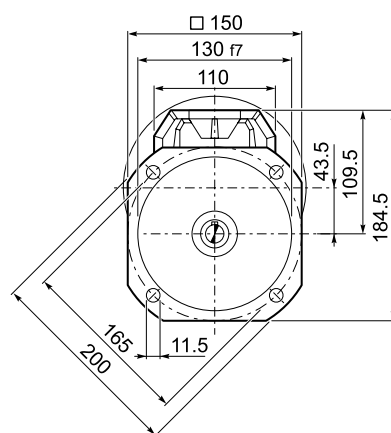
S 20...M/ME/MX/MXN



			Gearmotor - Without brake							Gearmotor - With brake									
			AC	H	HF	L		AD		M...FD				M...FDD					
						plastic	metal			LF		R	AD	LF			R	AD	
S 20 1	S05	M05	121	159	153	—	333.5	95	10	399.5	12	96	122	—	—	—	—	—	
		ME05	121	159	153	—	333.5	95	10	399.5	12	96	119	—	—	—	—	—	
		MX05	121	159	153	—	333.5	95	10	399.5	12	96	119	—	—	—	—	—	
	SX05	MXN05	123	160	153	380	358	122.3	11.8	—	—	—	—	407	372.7	12.9	106	136	
	S1	M1	137	167	161	—	362.5	102	12	423.5	14	103	135	—	—	—	—	—	
		ME1	137	167	161	—	362.5	102	12	423.5	14	103	135	—	—	—	—	—	
		MX1	137	167	161	—	362.5	102	12	423.5	14	103	135	—	—	—	—	—	
	SX10	MXN10	138	167.5	161	391.5	372	123.3	14.4	—	—	—	—	427.5	392.6	16.8	106	138	
	S2	M2S	156	176	170	—	385.5	111	16	461.5	19	129	146	—	—	—	—	—	
		ME2S	156	176	170	—	385.5	111	16	461.5	21.1	129	143	—	—	—	—	—	
		MX2S	156	176	170	—	429.5	111	21.1	501.5	28.3	129	143	—	—	—	—	—	
	SX20	MXN20	158	177	170	483	466.7	132.8	23.3	—	—	—	—	524	485.8	25.5	115	148	
	S3	ME3S	195	196	190	—	434.5	135	21.5	530.5	30.4	160	155	—	—	—	—	—	
		MX3S	195	196	190	—	466.5	135	24.5	556.5	35.4	160	155	—	—	—	—	—	
		ME3L	195	196	190	—	466.5	135	26	557.5	36.9	160	155	—	—	—	—	—	
		MX3L	195	196	190	—	510.5	135	32	602.5	44.4	160	155	—	—	—	—	—	

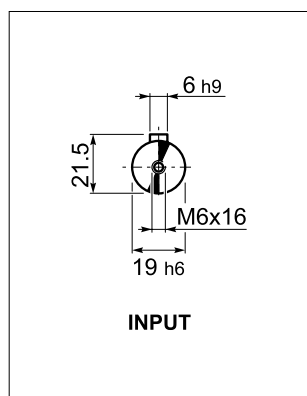
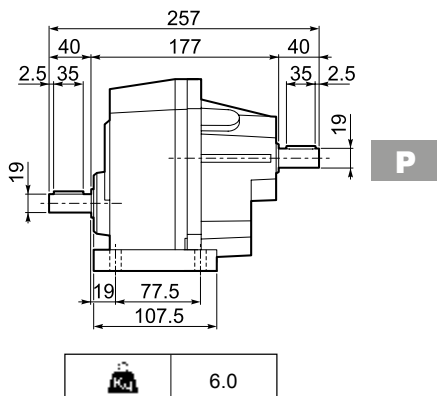
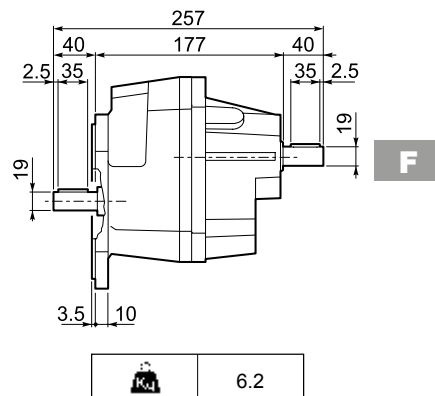
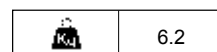


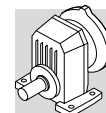
S 20...P(IEC)



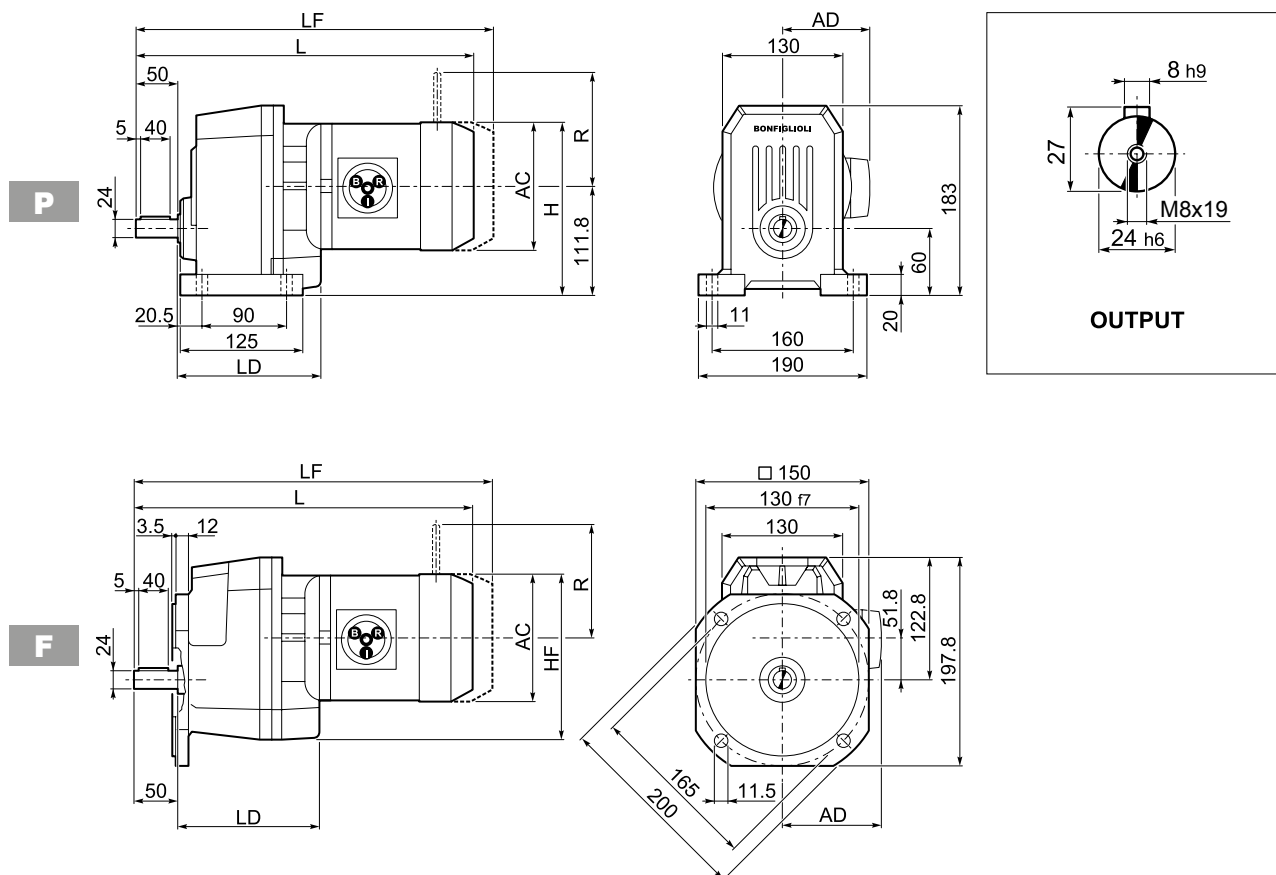
		M	M1	M2	N	N1	N2	N3	N4	P	X	Kg
S 20 1	P63	11	12.8	4	140	115	95	—	M8x10	207	4	6
S 20 1	P71	14	16.3	5	160	130	110	—	M8x10	207	4.5	6
S 20 1	P80	19	21.8	6	200	165	130	—	M10x14.5	227	4	7
S 20 1	P90	24	27.3	8	200	165	130	—	M10x14.5	227	4	7
S 20 1	P100	28	31.3	8	250	215	180	—	M12x16	237	4.5	11
S 20 1	P112	28	31.3	8	250	215	180	—	M12x16	237	4.5	11

S 20...HS

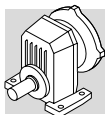




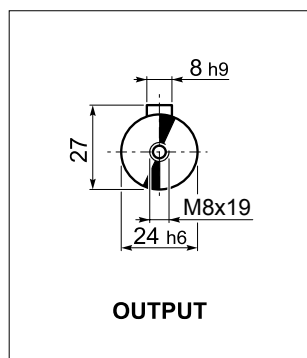
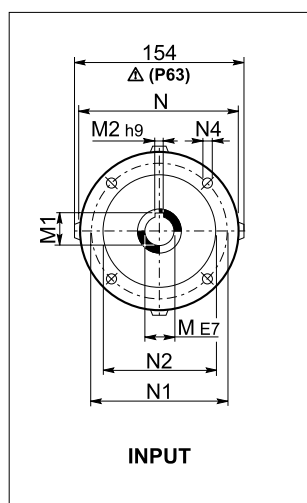
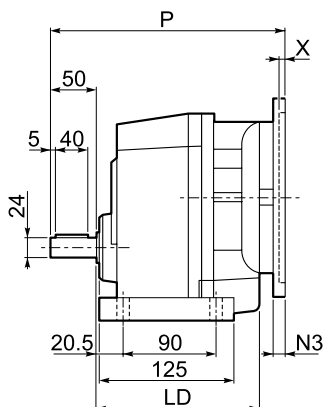
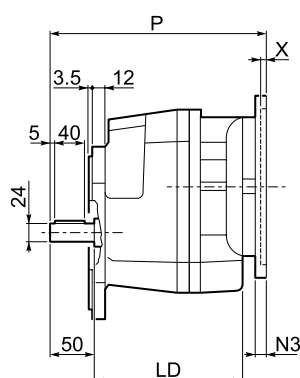
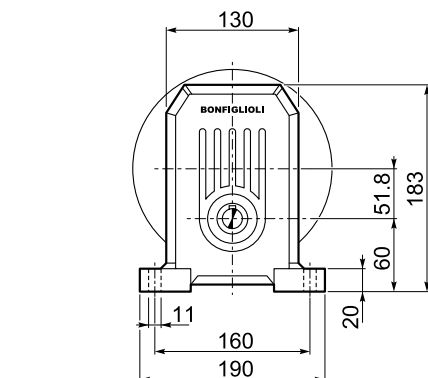
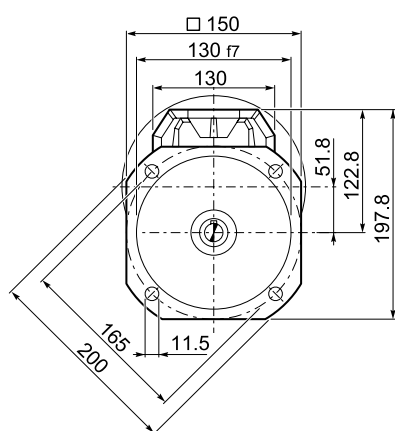
S 30...M/ME/MX/MXN



				Gearmotor - Without brake									Gearmotor - With brake								
				AC	H	HF	L		LD	AD		M...FD				M...FDD					
							plastic	metal				LF		R	AD	LF			R	AD	
																plastic	metal				plastic
S 30 1	S1	M1		137	180	177	—	387.5	140.5	102	14	448.5	16	103	135	—	—	—	—	—	
		ME1		137	180	177	—	387.5	140.5	102	14	448.5	16	103	135	—	—	—	—	—	
		MX1		137	180	177	—	387.5	140.5	102	14	448.5	16	103	135	—	—	—	—	—	
	SX10	MXN10		138	180	177.5	416.5	397	140.5	123.3	16.4	—	—	—	—	452.5	417.6	18.8	106	138	
	S2	M2S		156	190	186	—	410.5	152.5	111	18	486.5	21	129	146	—	—	—	—	—	
		ME2S		156	190	186	—	410.5	152.5	111	18	486.5	23.1	129	143	—	—	—	—	—	
		MX2S		156	190	186	—	454.5	152.5	111	23.1	526.5	30.3	129	143	—	—	—	—	—	
	S3	ME3S		195	209	206	—	459.5	162.5	135	24.5	555.5	32.4	160	155	—	—	—	—	—	
		MX3S		195	209	206	—	491.5	162.5	135	27.5	569.5	37.4	160	155	—	—	—	—	—	
		ME3L		195	209	206	—	491.5	162.5	135	32	582.5	38.9	160	155	—	—	—	—	—	
		MX3L		195	209	206	—	535.5	162.5	135	38	611.5	46.4	160	155	—	—	—	—	—	
	S4	ME4	MX4	258	240.8	237	—	599.5	—	193	71	684.5	58.4	204	210	—	—	—	—	—	
		ME4LB	MX4LA	258	240.8	237	—	634.5	—	193	79	709.5	76.4	226	210	—	—	—	—	—	



S 30...P(IEC)

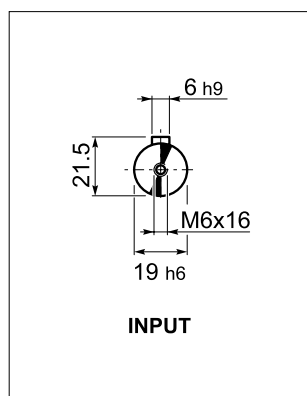
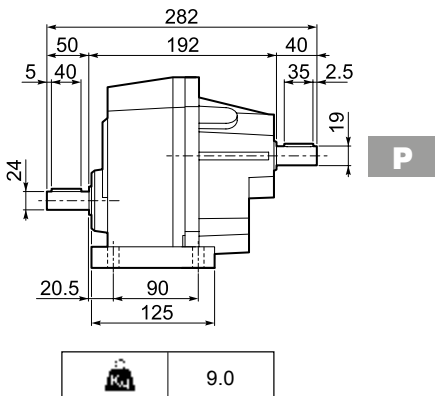
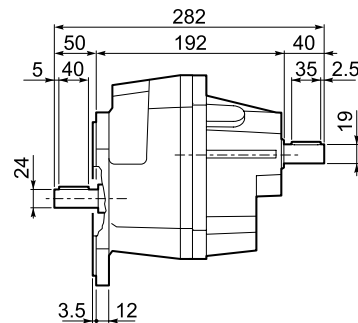
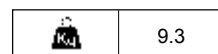


P

F

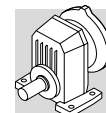
		LD	M	M1	M2	N	N1	N2	N3	N4	P	X	K _d
S 30 1	P63	152.5	11	12.8	4	140	115	95	—	M8x10	232	4	8
S 30 1	P71	152.5	14	16.3	5	160	130	110	—	M8x10	232	4.5	8
S 30 1	P80	162.5	19	21.8	6	200	165	130	—	M10x14.5	252	4	9
S 30 1	P90	162.5	24	27.3	8	200	165	130	—	M10x14.5	252	4	9
S 30 1	P100	162.5	28	31.3	8	250	215	180	—	M12x16	262	4.5	13
S 30 1	P112	162.5	28	31.3	8	250	215	180	—	M12x16	262	4.5	13
S 30 1	P132	—	38	41.3	10	300	265	230	16	14	298.5	5	21

S 30...HS

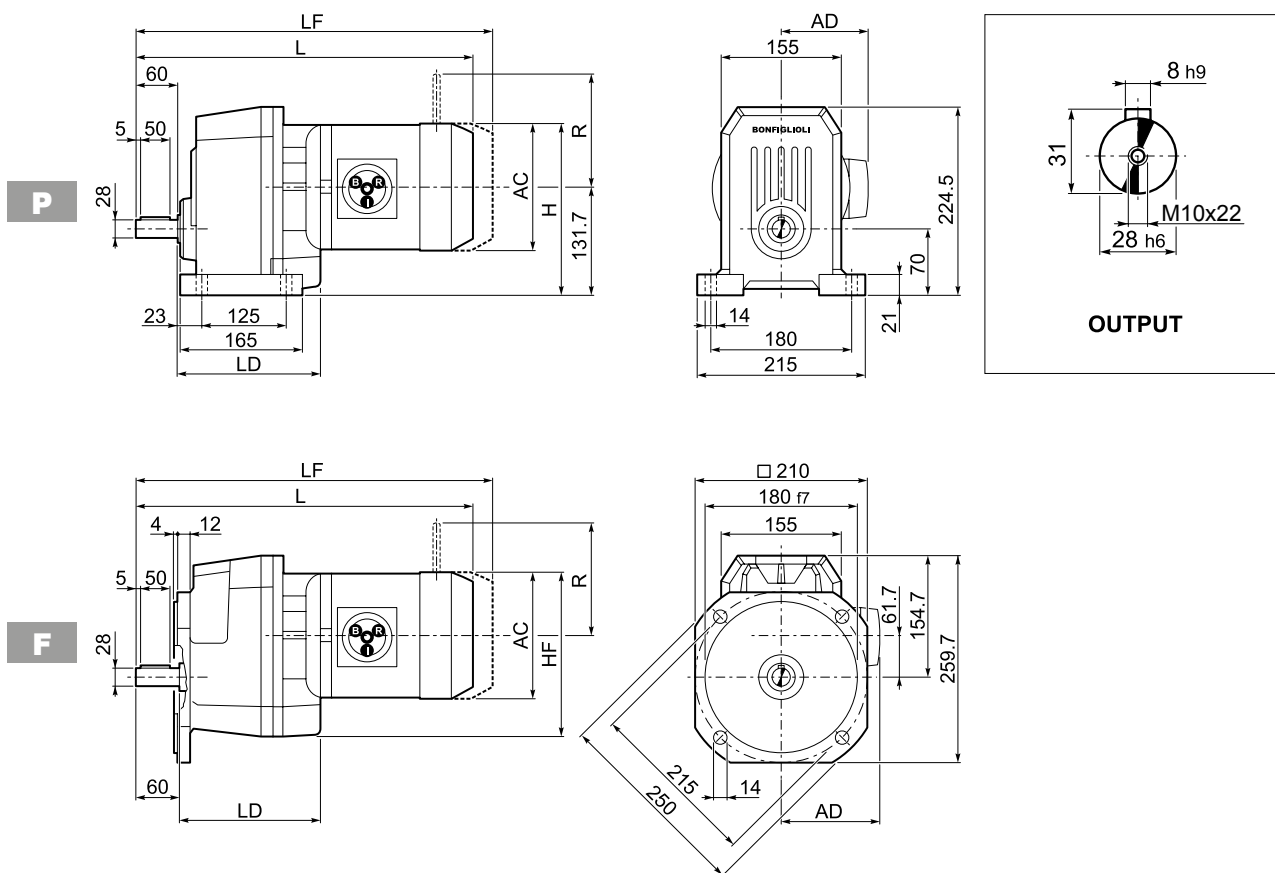


P

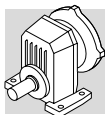
F



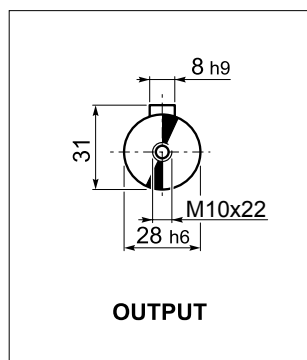
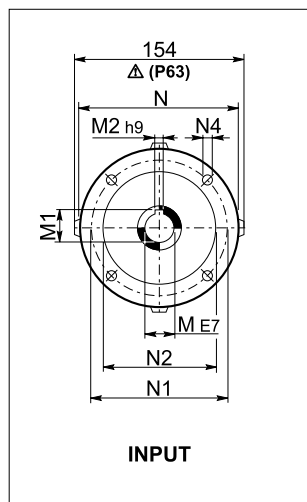
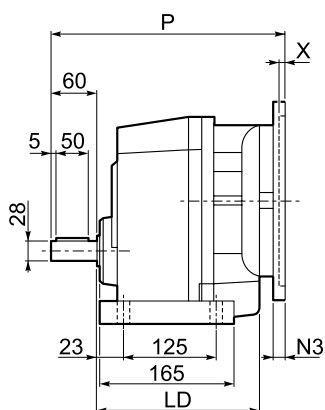
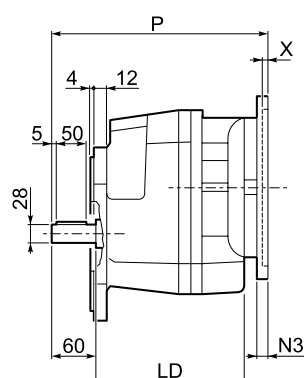
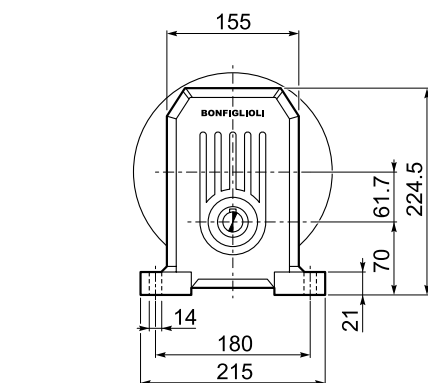
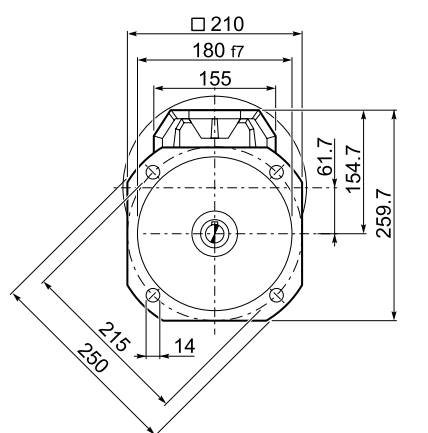
S 40...M/ME/MX



				Gearmotor - Without brake							Gearmotor - With brake			
											M...FD			
				AC	H	HF	L	LD	AD		LF		R	AD
S 40 1	S1	M1		137	200	197	429.5	168	102	28	490.5	31	103	135
		ME1		137	200	197	429.5	168	102	28	490.5	31	103	135
		MX1		137	200	197	429.5	168	102	28	490.5	31	103	135
	S2	M2S		156	210	206	452.5	183.5	111	34	528.5	37	129	146
		ME2S		156	210	206	452.5	183.5	111	34	528.5	39.1	129	143
		MX2S		156	210	206	496.5	183.5	111	39.1	568.5	46.3	129	143
	S3	ME3S		195	229	226	501.5	199.5	135	40.5	597.5	48.5	160	155
		MX3S		195	229	226	533.5	199.5	135	43.5	623.5	53.4	160	155
		ME3L		195	229	226	533.5	199.5	135	48	624.5	54.9	160	155
		MX3L		195	229	226	577.5	199.5	135	54	669.5	62.4	160	155
	S4	ME4	MX4	258	261	257	641.5	—	193	82	726.5	74.4	204	210
		ME4LB	MX4LA	258	261	257	676.5	—	193	90	751.5	96.4	226	210

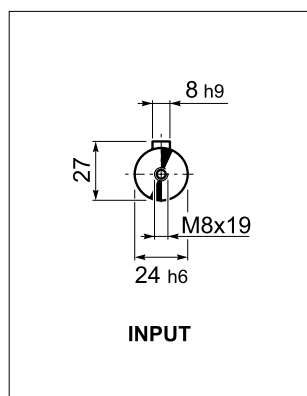
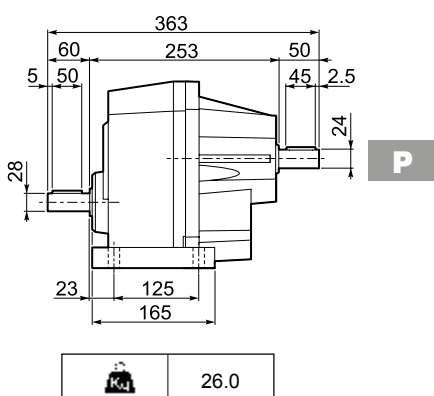
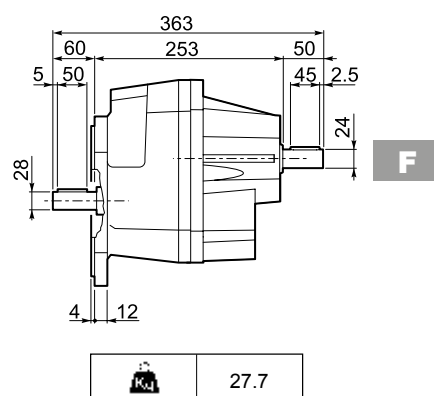


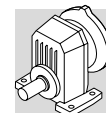
S 40...P(IEC)



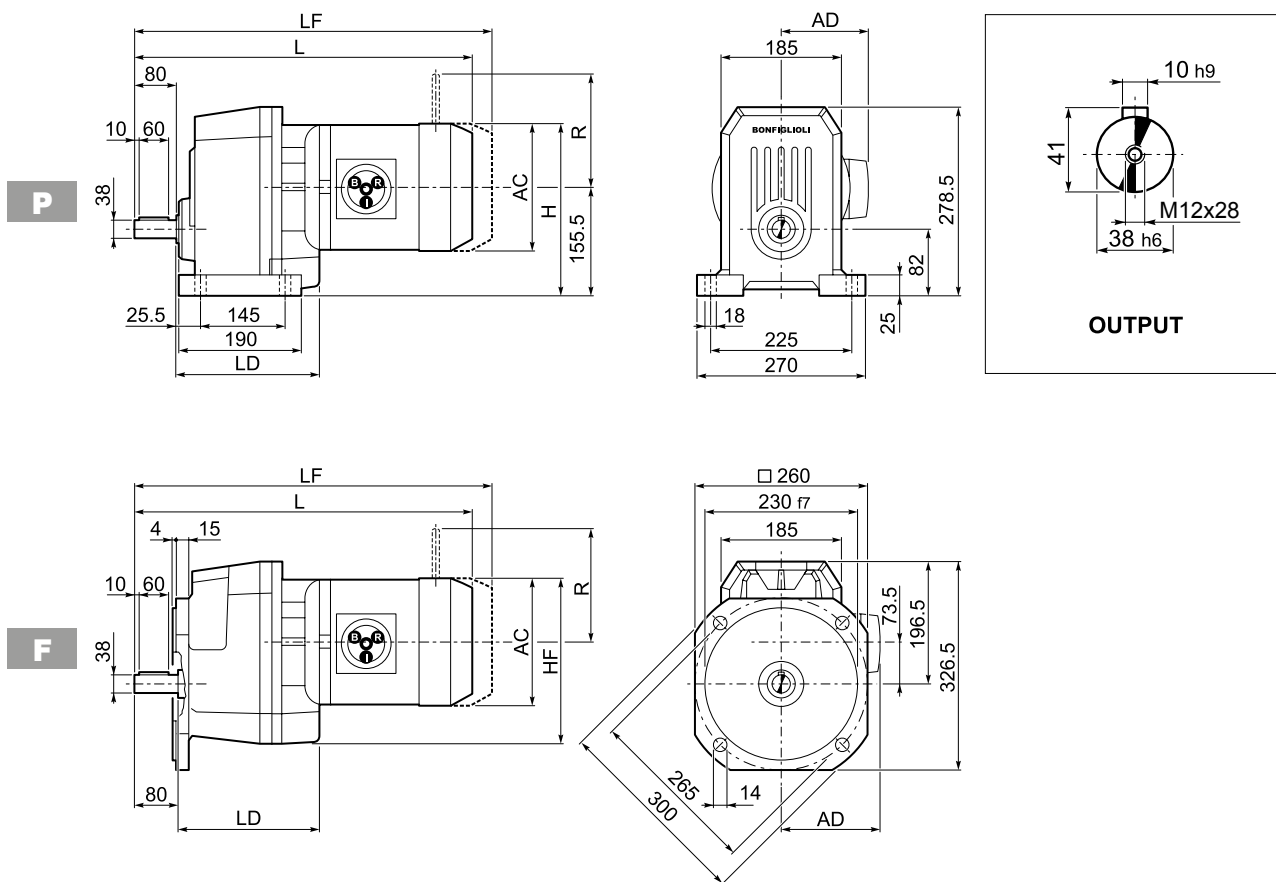
		LD	M	M1	M2	N	N1	N2	N3	N4	P	X	Kg
S 40 1	P63	183.5	11	12.8	4	140	115	95	—	M8x10	274	4	25
S 40 1	P71	183.5	14	16.3	5	160	130	110	—	M8x10	274	4.5	26
S 40 1	P80	199.5	19	21.8	6	200	165	130	—	M10x14.5	294	4	26
S 40 1	P90	199.5	24	27.3	8	200	165	130	—	M10x14.5	294	4	30
S 40 1	P100	—	28	31.3	8	250	215	180	—	M12x16	304	4.5	30
S 40 1	P112	—	28	31.3	8	250	215	180	—	M12x16	304	4.5	30
S 40 1	P132	—	38	41.3	10	300	265	230	16	14	340	5	32

S 40...HS

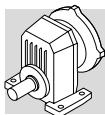




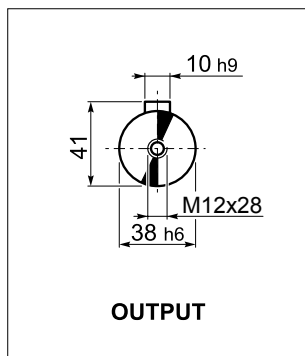
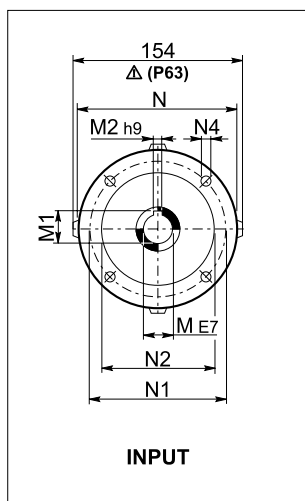
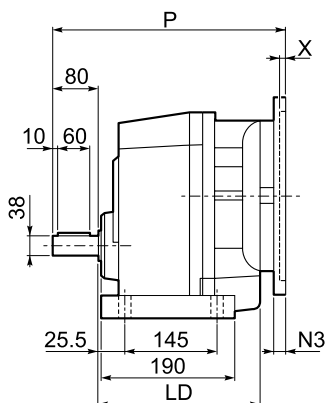
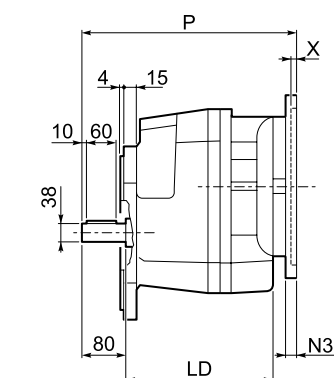
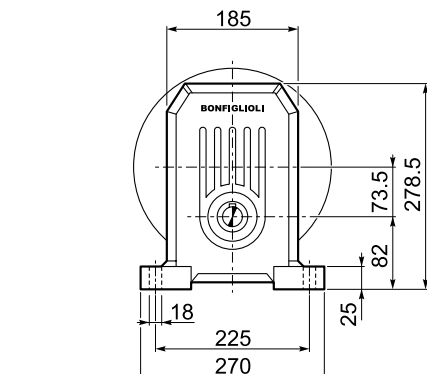
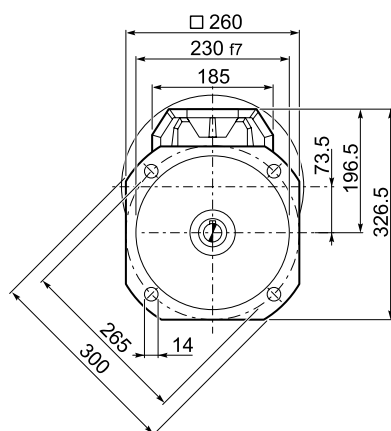
S 50...M/ME/MX



				Gearmotor - Without brake							Gearmotor - With brake			
											M...FD			
				AC	H	HF	L	LD	AD		LF		R	AD
S 50 1	S1	M1		137	225	222	469	—	102	40	530	42	103	135
		ME1		137	225	222	469	—	102	40	530	42	103	135
		MX1		137	225	222	469	—	102	40	530	42	103	135
	S2	M2S		156	233	230	492.5	204.5	111	44	568.5	47	129	146
		ME2S		156	233	230	492.5	204.5	111	44	568.5	49.1	129	143
		MX2S		156	233	230	536.5	204.5	111	49.1	608.5	56.3	129	143
	S3	ME3S		195	253	250	541.5	219.5	135	52.5	637.5	58.4	160	155
		MX3S		195	253	250	573.5	219.5	135	55.5	663.5	63.4	160	155
		ME3L		195	253	250	573.5	219.5	135	60	664.5	64.9	160	155
		MX3L		195	253	250	617.5	219.5	135	66	709.5	72.4	160	155
	S4	ME4	MX4	258	284	281	681.5	204.5	193	86	784.5	106.4	204	210
		ME4LB	MX4LA	258	284	281	716.5	204.5	193	94	809.5	116.4	226	210
	S5	ME5S	MX5S	310	310.5	307	768	—	245	114	872.5	176.4	266	245
		ME5L	MX5L	310	310.5	307	812	—	245	130	916.5	187.4	266	245

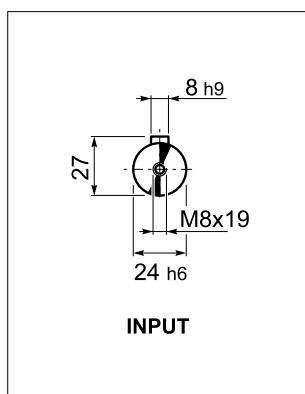
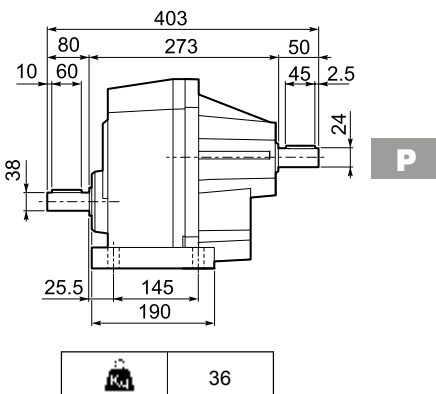
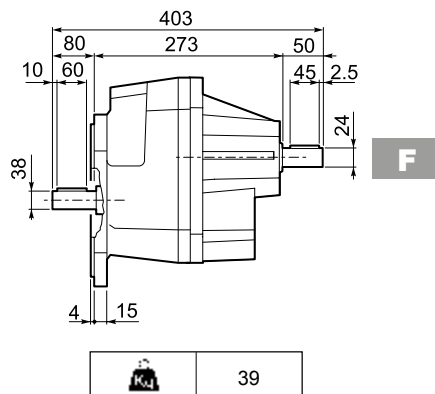


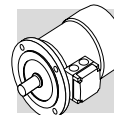
S 50...P(IEC)



		LD	M	M1	M2	N	N1	N2	N3	N4	P	X	
S 50 1	P63	204.5	11	12.8	4	140	115	95	—	M8x10	314	4	35
S 50 1	P71	204.5	14	12.8	4	160	130	110	—	M8x10	314	4.5	35
S 50 1	P80	219.5	19	16.3	5	200	165	130	—	M10x14.5	314	4	37
S 50 1	P90	219.5	24	21.8	6	200	165	130	—	M10x14.5	334	4	37
S 50 1	P100	204.5	28	27.3	8	250	215	180	—	M12x16	344	4.5	41
S 50 1	P112	204.5	28	31.3	8	250	215	180	—	M12x16	344	4.5	41
S 50 1	P132	204.5	38	41.3	10	300	265	230	16	14	380	5	44
S 50 1	P160	—	42	45.3	12	350	300	250	23	18	431	5.5	48
S 50 1	P180	—	48	51.8	14	350	300	250	23	18	431	5.5	48

S 50...HS

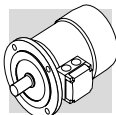




MOTEURS ÉLECTRIQUES

M1 SYMBOLES ET UNITÉS DE MESURE

Symboles	Unités de mesure	Description	Symboles	Unités de mesure	Description
$\cos\varphi$	–	Facteur de puissance	n	[tr/min]	Vitesse nominale
η	–	Rendement	P_B	[W]	Puissance absorbée par le frein à 20 °C
f_m	–	Facteur de correction de puissance	P_n	[kW]	Puissance nominale du moteur
I	–	Rapport d'intermittence	P_r	[kW]	Puissance requise
I_N	[A]	Courant nominal	t_1	[ms]	Temps de réponse du frein avec un redresseur unidirectionnel
I_s	[A]	Courant à rotor bloqué	t_{1s}	[ms]	Temps de réponse du frein avec un redresseur à commande électronique
J_c	[Kgm ²]	Moment d'inertie de charge	t_2	[ms]	Temps de réaction du frein avec sectionneur CA
J_M	[Kgm ²]	Moment d'inertie	t_{2c}	[ms]	Temps de réaction du frein avec sectionneur CA et CC
K_c	–	Facteur de couple	t_a	[°C]	Température ambiante
K_d	–	Facteur de charge	t_f	[min]	Durée de fonctionnement à charge constante
K_J	–	Facteur d'inertie	t_r	[min]	Temps de repos
M_A	[Nm]	Couple moyen de démarrage	W	[J]	Travail de freinage entre deux intervalles d'entretien
M_B	[Nm]	Couple de frein	W_{max}	[J]	Travail de freinage maximal pour chaque freinage
M_N	[Nm]	Couple nominal	Z	[1/h]	Fréquence de démarrage admissible, avec charge
M_L	[Nm]	Couple de réaction pendant l'accélération	Z_0	[1/h]	Fréquence de démarrage maximale admissible à vide ($I = 50\%$)
M_s	[Nm]	Couple de démarrage			



M2 INTRODUCTION

Afin d'harmoniser les classifications de rendement des moteurs fabriqués et commercialisés sur le marché mondial, la Commission électrotechnique internationale (CEI, ou IEC en anglais) a publié la norme IEC 60034-30:2008, qui a été mise à jour en 2014 et porte désormais la référence IEC 60034-30-1:2014, « Machines électriques tournantes – Partie 30-1 : Classes de rendement pour les moteurs à courant alternatif alimentés par le réseau ». Outre la définition des classes de rendement des moteurs électriques, la CEI a également élaboré une norme qui précise comment déterminer le rendement et les pertes des moteurs à l'aide de méthodes d'essai établies.

Cette norme, IEC 60034-2-1:2024, garantit une base commune internationale pour la conception et la classification des moteurs électriques, ainsi que pour les activités législatives nationales, et sert de référence pour la définition des classes de rendement de la norme IEC 60034-30-1.

Ces deux normes ont été élaborées en collaboration avec l'Association nationale des fabricants d'équipements électriques (NEMA), l'Association japonaise des fabricants d'équipements électriques (JEMA) et le Comité européen des fabricants de machines électriques et d'électronique de puissance (CEMEP).

En 2017, la CEI a publié une nouvelle norme portant sur l'efficacité énergétique des entraînements CA et des systèmes moteur-variateur :

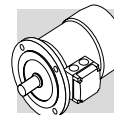
Norme IEC 61800-9 « Écoconception des systèmes d'entraînement, des démarreurs de moteurs, de l'électronique de puissance et de leurs applications entraînées ». La norme IEC 61800-9 est harmonisée en Europe sous la référence EN 61800-9 et remplace la norme antérieure EN 50598 (-1 et -2).

Le règlement européen n° 2019/1781, pleinement applicable depuis juillet 2023, définit pour la première fois des normes d'efficacité énergétique juridiquement contraignantes pour les variateurs de fréquence.

Le tableau suivant présente les correspondances entre les principales classes.

Classes d'efficacité énergétique mondiales

IEC 60034-30-1	IE1	IE2	IE3	IE4	IE5
NEMA MG-1	STANDARD	ÉLEVÉ	PREMIUM	SUPER PREMIUM	
GB 18613		DEGRÉ 4	DEGRÉ 3	DEGRÉ 2	DEGRÉ 1
NBR 17094-1		IR2	IR3		
AS/NZS 1359,5	IE1	IE2	IE3		
IS 12615	IE1	IE2	IE3	IE4	
SASO 2893	IE1	IE2	IE3	IE4	
KS C IEC 60034	IE1	IE2	IE3	IE4	
JIS C 4034-30	IE1	IE2	IE3	IE4	



Historique des normes d'efficacité énergétique

IEC 60034-2-1: 2007 : harmonise les procédures de mesure des rendements.

IEC 60034-30: 2008 : définit les classes d'efficacité énergétique et sert de base aux différentes exigences nationales en matière d'efficacité énergétique.

IEC 60034-2-1: 2014 : a pour objectif de définir des méthodes permettant de déterminer les rendements à partir d'essais et de préciser les méthodes permettant d'obtenir les pertes spécifiques.

IEC 60034-30-1: 2014 : va encore plus loin dans l'élargissement du champ d'application des classes de rendement énergétique applicables aux moteurs et introduit la classe IE4. Les moteurs à variateur de vitesse (VSD) ne relèvent pas du champ d'application de la présente norme et feront l'objet d'une norme distincte.

IEC TS 60034-30-2: 2016 : Machines électriques tournantes - Partie 30-2 : Classes de rendement des moteurs à courant alternatif à vitesse variable (code IE)

IEC 60034-2-3: 2020 : Machines électriques tournantes - Partie 2-3 : Méthodes d'essai spécifiques pour déterminer les pertes et le rendement des moteurs à courant alternatif alimentés par convertisseur.

IEC 60034-2-1: 2024 : Mise à jour des méthodes standard de détermination des pertes et du rendement à partir d'essais, avec l'introduction de procédures affinées visant à garantir une plus grande précision des mesures.

Les classes IE sont reportées dans le tableau ci-dessous :

Type de classe	Numéro de classe
Rendement standard	IE1
Haut rendement	IE2
Rendement « Premium »	IE3
Rendement « Super Premium »	IE4

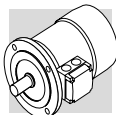
La norme IEC 61800-9:2017 a introduit l'approche par produit étendu, qui permet de déterminer le rendement de l'ensemble entraînement + moteur + équipement entraîné (par exemple, une pompe) selon un profil charge-temps défini.

Le règlement définit les classes d'efficacité énergétique applicables aux entraînements CA et aux systèmes d'entraînement par moteur (dénommés « Power Drive Systems » dans la norme).

Pour les entraînements CA, la norme définit trois classes : IE0, IE1 et IE2.

Pour les systèmes d'entraînement par moteur, on distingue à nouveau trois catégories : IES0, IES1 et IES2. Le « S » qui suit « IE » signifie « système ».

Règlement européen n° 2019/1781 : Nouvelles réglementations applicables au marché européen des moteurs à induction et des systèmes de commande électroniques pour moteurs, tels que les variateurs de fréquence.



M3 CARACTÉRISTIQUES GÉNÉRALES

M3.1 Gamme de produits

Les moteurs électriques asynchrones triphasés de BONFIGLIOLI sont prévus dans la forme de construction de base LMB5 et ses dérivés.

Les moteurs sont du type fermé avec ventilation externe et rotor à cage pour un usage industriel.

Les moteurs BX-BE/MX-ME sont prévus dans l'exécution standard, pour une tension nominale de 230/400V Δ/Y (400/690V Δ/Y pour les tailles BX-BE 160 et BX-BE 180) 50 Hz avec une tolérance de $\pm 10\%$. Les moteurs BN/M sont prévus dans l'exécution standard, pour une tension nominale de 230/400V Δ/Y (400/690V Δ/Y pour les tailles BN 160 ... BN 200) 50 Hz avec une tolérance de $\pm 10\%$.

Les moteurs BXN/MXN sont équipés d'un bornier comprenant une connexion à 9 broches et un bobinage de 12 fils, ce qui permet d'obtenir facilement, en série, la tension adaptée à la plupart des pays. La version standard, désignée par le sigle WD1, permet d'obtenir les tensions et fréquences suivantes (115/200/230/400 V-50 Hz et 132/230/265/460 V-60 Hz). Pour les moteurs BXN/MXN, la tolérance de tension est ramenée à $\pm 5\%$.

M3.2 Réglementations

Les moteurs décrits dans ce catalogue sont construits en accord avec les Normes et standardisations applicables mises en évidence dans le tableau ci-dessous.

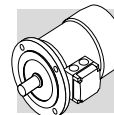
(F01)

Titre	CEI	IEC
Exigences générales relatives aux machines électriques tournantes	CEI EN 60034-1	IEC 60034-1
Marquages des bornes et sens de rotation des machines tournantes	CEI 2-8	IEC 60034-8
Méthodes de refroidissement des machines électriques	CEI EN 60034-6	IEC 60034-6
Dimensions et séries de puissances des machines électriques tournantes	EN 50347	IEC 60072
Degrés de protection procurés par la conception intégrale des machines électriques tournantes	CEI EN 60034-5	IEC 60034-5
Limites de bruit	CEI EN 60034-9	IEC 60034-9
Classification des types de construction et des dispositions de montage	CEI EN 60034-7	IEC 60034-7
Tension nominale pour l'alimentation secteur basse tension	CEI 8-6	IEC 60038
Niveau de vibrations des machines électriques	CEI EN 60034-14	IEC 60034-14
Classes de rendement pour les moteurs à induction triphasés à cage, mono vitesse (code IE)	CEI EN 60034-30-1	IEC 60034-30-1
Méthode normalisée de détermination des pertes et du rendement à partir d'essais	CEI EN 60034-2-1	IEC 60034-2-1

En outre, les moteurs correspondent aux Normes étrangères adaptées aux IEC 60034-1 indiquées dans le tableau ci-dessous.

(F02)

DIN VDE 0530	Allemagne
BS5000 / BS4999	Grande-Bretagne
AS 1359	Australie
NBNC 51 - 101	Belgique
NEK - IEC 34	Norvège
NF C 51	France
OEVE M 10	Autriche
SEV 3009	Suisse
NEN 3173	Pays-Bas
SS 426 01 01	Suède



M3.3 Directives 2006/95/CE (LVD) et 2004/108/CE (CEM)

Les moteurs Bonfiglioli sont conformes aux exigences des directives 2014/35/UE (LVD - Directive « Basse tension »), 2014/30/UE (CEM - Directive « Compatibilité électromagnétique »), 2009/125/CE (ERP – Directive relative aux produits liés à l'énergie) et 2011/65/UE (RoHS – Restriction de l'utilisation de substances dangereuses) et leurs plaques signalétiques portent le marquage CE.

En ce qui concerne la Directive EMC de compatibilité électromagnétique, la fabrication répond aux Normes CEI EN 60034-1 (Machines électriques tournantes – Partie 1 : Caractéristiques et performances), CEI EN 61000-6-2 (Normes génériques - Immunité pour les environnements industriels), CEI EN 61000-6-4 (Normes génériques - Norme d'émission pour les environnements industriels).

Les moteurs avec frein FD, s'ils sont équipés du filtre capacitif approprié en entrée du redresseur (option CF), entrent dans les limites d'émission prévues par les Normes CEI EN 61000-6-3 et CEI EN 60204-1.

La responsabilité de la sécurité du produit final et de la conformité aux directives applicables incombe au fabricant ou à l'assembleur qui intègre les moteurs en tant que composants.

Marquage UKCA en standard

Au Royaume-Uni, le marquage CE sera remplacé par le marquage UKCA (United Kingdom Conformity Assessed) à compter du 1er janvier 2022, en raison du Brexit. Tous les moteurs Bonfiglioli sont déjà conformes aux exigences UKCA.

M3.4 Directives EU 2012/19/EU - Informations disponibles



Ce produit ne peut pas être éliminé avec les déchets urbains. Lorsque la mise au rebut est à la charge de l'utilisateur, assurez-vous qu'elle est effectuée conformément à la directive européenne 2012/19/EU, et en accord avec les règlements nationaux.

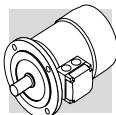
Réalisez l'élimination conformément à toute autre législation en la matière, en vigueur sur le territoire national.

M3.5 Tolérances

Selon les Normes CEI EN 60034-1, pour les tailles indiquées sont admises les tolérances données ci-dessous : (F03)

-0,15 (1 - η) P ≤ 150 kW -0,10 (1 - η) P > 150 kW	Rendement
$-(1 - \cos\phi)/6$ min 0,02 max 0,07	Facteur de puissance
±20 % *	Glissement
+20 %	Courant à rotor bloqué
-15 % +25 %	Couple à rotor bloqué
-10 %	Couple maxi

(*) ± 30 % pour les moteurs dont la puissance P_n est inférieure à 1 kW



M4 MOTEURS DESIGNATION

MOTEUR

BXN 80MB 4 WD1 60 IP55 CLF B5 W IC0 MFC

MATÉRIAU DU CAPOT DU VENTILATEUR
MFC Capot de ventilateur métallique

POSITION D'ENTRÉE DU CÂBLE
Taille de boîte à bornes S
IC0 (Standard), **IC1**
Taille de boîte à bornes L
IC0 (Standard), **IC1**, **IC2**

POSITION DU BORNIER ⁽¹⁾
W (Standard), **N**, **E**, **S**

FORME DE CONSTRUCTION
- moteur intégré
IM B5 - moteur IEC

CLASSE ISOLATION
CL F standard
CL H option

DEGRE DE PROTECTION
IP55 standard
IP56 option

TENSION - FREQUENCE
(Voir paragraphe M7.1)

N.bre DE POLES
4

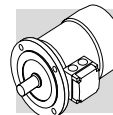
TAILLE MOTEUR
63MA ... 132M (moteur IEC)
05MA...20MB (moteur intégré)

TYPE MOTEUR

BXN = triphasé IEC, classe IE3

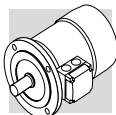
MXN = triphasé intégré, classe IE3

(1) Uniquement moteur compact



FREIN

.....	FDD	15	NR	SA	400	R	AA	MRM	
									DISPOSITIF DE SURVEILLANCE DU FREIN - (Standard), MRM , MWM
									ORIENTATION DU LEVIER DE DEBLOCAGE
									LEVIER DE DEBLOCAGE FREIN - (Standard), R
									ALIMENTATION FREIN
									ALIMENTATION FREIN SÉPARÉE SD , SA
									TYPE DE REDRESSEUR CA/CC NR , SR
									COUPLE DE FREINAGE
									TYPE DE FREIN - (Standard), FDD



MOTEUR

BY 280MAK 4 400/690-50 IP55 CLF B5

OPTIONS

MONTAGE DU MOTEUR
IM B5 - Moteur IEC

CLASSE D'ISOLATION
CL F standard
CL H option

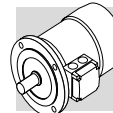
DEGRÉ DE PROTECTION
IP55, IP56 standard

TENSION - FRÉQUENCE
400/690-50

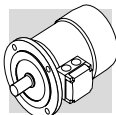
NOMBRE DE PÔLES
4

TAILLE DU MOTEUR
280SCK ... 355SAK (moteur IEC)

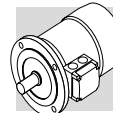
TYPE DE MOTEUR
PAR = IEC triphasé, classe IE4



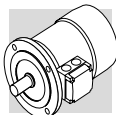
MOTEUR					FREIN						
BX 132SB 4	230/400-50	IP55	CLF	B5	W FD 7.5 R AA SB 220 SA						
											OPTIONS
											ALIMENTATION FREIN
											TYPE DE REDRESSEUR CA/CC NB, SB, NBR, SBR
											ORIENTATION DU LEVIER DE DÉBLOCAGE AA, AB (standard), AC, AD
											DÉBLOCAGE MANUEL DES FREINS R, RM
											COUPLE DE FREINAGE
											TYPE DE FREIN FD (frein à courant continu)
											EMPLACEMENT BORNIER (uniquement moteur compact) W (par défaut), N, E, S
											MONTAGE DU MOTEUR – moteur compact B3, B5, B14, B5R, B14R, B34, B35 - Moteur IEC
											CLASSE D'ISOLATION CL F standard CL H option
											DEGRÉ DE PROTECTION IP55 standard (IP56 - en option) IP54, IP55 moteur frein
											TENSION - FRÉQUENCE (Voir le paragraphe M7.1)
											NOMBRE DE PÔLES 4
											TAILLE DU MOTEUR 63A ... 355 (moteur IEC) 05A ... 5LA (moteur compact)
TYPE DE MOTEUR											
BX = IEC triphasé, classe IE3				MX = triphasé compact, classe IE3							



MOTEUR						FREIN					
BE	90LA	4	230/400-50	IP55	CLF	B5	W	FD	7.5	R	AA SB 220 SA OPTIONS
											ALIMENTATION FREIN
											TYPE DE REDRESSEUR CA/CC NB, SB, NBR, SBR
											ORIENTATION DU LEVIER DE DÉBLOCAGE AA, AB (standard), AC, AD
											DÉBLOCAGE MANUEL DES FREINS R, RM
											COUPLE DE FREINAGE
											TYPE DE FREIN FD (frein à courant continu)
											EMPLACEMENT BORNIER (uniquement moteur compact) W (par défaut), N, E, S
											MONTAGE DU MOTEUR – moteur compact B3, B5, B14, B5R, B14R, B34, B35 - Moteur IEC
											CLASSE D'ISOLATION CL F standard CL H option
											DEGRÉ DE PROTECTION IP55 standard (IP56 - en option) IP54, IP55 moteur frein
											TENSION - FRÉQUENCE (Voir le paragraphe M7.1)
											NOMBRE DE PÔLES 2, 4, 6
											TAILLE DU MOTEUR 63A ... 180 L (moteur IEC) 05A ... 5L (moteur compact)
TYPE DE MOTEUR BE = IEC triphasé, classe IE2 ME = triphasé compact, classe IE2											



MOTEUR					FREIN				
BN 90LA 4					230/400-50 IP55 CLF B5 W FD 7.5 R AA SB 220 SA				
					OPTIONS				
					ALIMENTATION FREIN				
					TYPE DE REDRESSEUR CA/CC NB, SB, NBR, SBR				
					ORIENTATION DU LEVIER DE DÉBLOCAGE AA, AB (standard), AC, AD				
					DÉBLOCAGE MANUEL DES FREINS R, RM				
					COUPLE DE FREINAGE				
					TYPE DE FREIN FD (frein à courant continu)				
					EMPLACEMENT BORNIER (uniquement moteur compact) W (par défaut), N, E, S				
					MONTAGE DU MOTEUR – moteur compact B3, B5, B14, B5R, B14R, B34, B35 - Moteur IEC				
					CLASSE D'ISOLATION CL F standard CL H option				
					DEGRÉ DE PROTECTION IP55 standard (IP56 - en option) IP54, IP55 moteur frein				
					TENSION - FRÉQUENCE (Voir le paragraphe M7.1)				
					NOMBRE DE PÔLES 2, 4, 6				
					TAILLE DU MOTEUR 56A ... 200LA (moteur IEC) 0B ... 5SB (moteur compact)				
					TYPE DE MOTEUR BN = IEC triphasé M = IEC triphasé compact				



M5 VARIANTES ET OPTIONS

M5.1 Variantes

(F04)

Catégorie	Description	Par défaut	Option
Tension	(N - BE - BX) ≤ 132	230/400/50	...
	(BN - BE - BX) ≥ 160 / (BY) ≥ 280	400/690/50	
Classe d'isolation	Toutes les séries moteurs	CLF	CLH
Forme de construction	BX - BE - BN	B14, B5R, B14R, B3, B34, B35	B5R

Valeurs par défaut.

* Voir le catalogue dédié à EVOX

M5.2 Options

(F05)

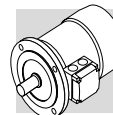
Description	Références de catalogue								Disponibilité
Dispositifs de protection thermique	D3	K1	E3		PT100*				BY-BX-BE-BN-MX-ME-M
Puissance normalisée à 50 Hz	PN								BN - M
Codeurs	EN1	EN2	EN3	EN4	EN5	EN6	EN7*	EN8*	BY-BX-BE-BN-MX-ME - M
Réchauffeurs anticondensation	H1	NH1							BY-BX-BE-BN-MX-ME - M
Bobinages adaptés aux climats tropicaux	TP								BY-BX-BE-BN-MX-ME - M
Arbre à double extrémité	PS								BY-BX-BE-BN-MX-ME - M
Équilibrage du rotor, classe B	RV								BY - BX - BE - BN - MX - ME - M
Protections mécaniques externes	RC	TC****							BY-BX-BE-BN-MX-ME - M
Ventilation forcée	U1	U2**							BY - BX - BE - BN - MX - ME - M
Roulements isolés	IB*								BY - BX
Certification UL	CUS°								BX - BE - BN - MX - ME - M
Bureau of Indian Standard Certification	BIS								BX - BE - MX - ME
China Compulsory Certification	CCC								BN - M
China Energy Label	CEL								BX - MX
Moteur standard	CN								BXN - MXN
Certification NBR	NBR								BX - MX
Certification EECA	EECA								BX
Moteur avec connecteur	CON****								BX - BE - BN MX - ME - M
Protection de surface	C_								BY-BX-BE-BN-MX-ME - M
Peinture	RAL								BY-BX-BE-BN-MX-ME - M
Preuves documentaires	ACM****								BX - BE - BN - MX - ME - M
Certificat d'inspection	CC								BY-BX-BE-BN-MX-ME - M
Montage Vertical	VM*								BY - BX
Dispositif de butée	AL	AR							MX - ME - M
Type de service	S2	S3							BN - M

* BX ≥ 200 et BY ≥ 280

*** Ne convient pas aux moteurs BX - MX

** Uniquement pour les moteurs BN

**** Uniquement pour BN-BE et BX ≤ 180



M5.3 Options concernant le frein

(F06)

Description	Références de catalogue				Disponibilité
Couple de frein	Se référer au type de frein concerné				
Levier de déverrouillage manuel	R	RM			BX - BE - BN MX - ME - M
Orientation du levier de déblocage	AB	AA	AC	AD	BX - BE - BN MX - ME - M
Redresseur de frein CC	NB	NBR	SB	SBR	BX - BE - BN MX - ME - M
Volant de démarrage progressif	F1				BE - BN ME - M
Filtre capacitif	CF				BX - BE - BN MX - ME - M
Alimentation électrique séparée pour les freins (*)	...SA	...SD			BX - BE - BN MX - ME - M
Contrôle du bon fonctionnement des freins	MSW				BX - BE - BN MX - ME - M
Entrée de câble supplémentaire pour moteurs freins	IC				BN M

(*) Préciser la tension. (°) Ne s'applique pas à BXN/MXN

Valeurs par défaut.

M5.4 Exemple de plaque signalétique pour les moteurs anciens (BX - BE - BN)

Bonfiglioli
UK CA
IEC EN 60034

① 3~Mot BX 90S 4 FD

② xxxxxxxx - xxxxxxxx

③ 50 230/400 Δ/Y

60 265/460 Δ/Y

50Hz IE3 - 84.1(100%) - 84.1(75%) - 82.0(50%)

60Hz IE3 - 86.5(100%) - 85.9(75%) - 83.0(50%)

D3

H1 1~230V ± 10% 25W

VB~230V ± 10% MB=26Nm NB

Cod. xxxxxxxxxx

S 1 IM B5 16 kg

CL F IP 55 Amb 40 °C

A min⁻¹ cos φ

4.2/2.44 1425 0.77

3.7/2.15 1740 0.74

④

⑤

⑥

① Type de moteur BONFIGLIOLI

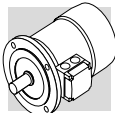
② Numéro de série

③ Tension nominale

④ Code moteur

⑤ Type de service : S1 Fonctionnement continu

⑥ Classe IE, rendement à : 4/4 - 3/4 - 2/4 de charge



M5.4.1 Exemple de plaque signalétique pour les moteurs EVOX (BXN)

①

②

③

④

⑤

⑥

⑦

⑧

3~Mot BXN 90S 4 FD		TEFC	IMB5	IP55	21,6 kg
Cod. xxxxxxxxxx		No xxxxxxxx - xxxxxxxx			
kW 1.1	HP 1.5	Amb 40 °C	CL F	S1	
Hz	V	A	min ⁻¹	cos φ	
50	115/200 ΔΔ/YY	8.3 / 4.8	1448	0.78	
50	230/400 Δ/Y	4.1 / 2.38	1448	0.78	
60	132/230 ΔΔ/YY	7.3 / 4.2	1754	○ 0.75	
60	265/460 Δ/Y	3.6 / 2.10	1754	0.75	
50Hz IE3 -84.1(100%)-85.9(75%)-83.5(50%) kVA Code J					
60Hz IE3 -86.5(100%)-86.6(75%)-83.5(50%) kVA Code L					
D3 H1 1~ 230V ± 10% 25W					
VB=230V MB=13Nm NB SA					
Bonfiglioli Riduttori S.p.A.		IEC EN 60034 Made in			

⑨

⑩

① Désignation du moteur et informations générales

② Numéros de série

③ Conformité aux exigences environnementales et d'application

④ Performances nominales en fonction des tensions/fréquences

⑤ Performances du moteur à 50 Hz

⑥ Performances du moteur à 60 Hz

⑦ Informations sur la protection thermique et la ventilation assistée

⑧ Informations sur le frein

⑨ Certifications

⑩ Informations sur le constructeur

M6 CARACTÉRISTIQUES MÉCANIQUES

M6.1 Formes de construction

Les moteurs BXN, BX, BE et BN normalisés CE sont disponibles dans les versions de construction indiquées dans le tableau ci-dessous, conformément aux normes EN 60034-7 (BX/BE), CEI EN 60034-14 (BN).

Les versions de montage sont les suivantes :

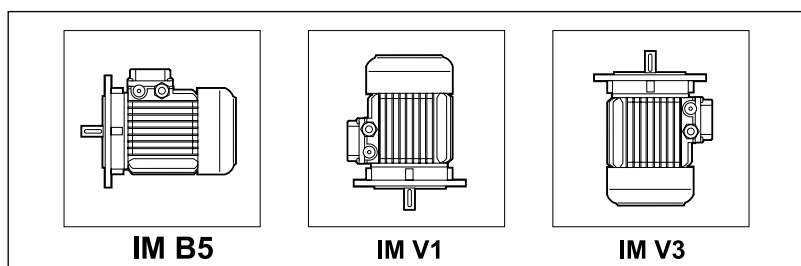
IM B5 (de base)

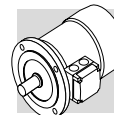
IM V1, IM V3 (dérivées)

Les moteurs de construction IM B5 peuvent être installés dans les positions IM V1 et IM V3 ; dans ce cas, la construction de base IM B5 est indiquée sur la plaque signalétique du moteur.

Pour les versions de construction avec moteur positionné verticalement et arbre orienté vers le bas, il est recommandé de demander le capot de protection contre les gouttes (toujours nécessaire pour les moteurs frein). Cet équipement, inclus dans la liste des options, doit être spécifié lors de la commande, car il n'est pas fourni de série.

(F07)





Pour les **moteurs BX≥200K et BY≥280K** installés verticalement, l'option VM doit être sélectionnée.

Dans les formes constructives où le moteur adopte une position verticale avec l'arbre en bas, il est conseillé de demander la version avec protection contre la pluie (RC). Cette exécution, présente dans les options, doit être expressément demandée lors de la phase de commande car elle n'est pas prévue dans la version de base.

Les moteurs avec forme à bride peuvent être fournis avec des tailles d'accouplement réduites, comme indiqué dans le tableau - exécutions **B5R**. Leur utilisation en combinaison avec des réducteurs doit toutefois être compatible avec la puissance maximale installable sur ces derniers (voir les chapitres « Disponibilité des moteurs »). Si cette condition n'est pas remplie, il convient de contacter le service technique afin de vérifier la compatibilité de la combinaison.

(F08)

						
	BX/BE/BN 71	BX/BE/BN 80	BX/BE/BN 90	BX/BE/BN 100	BX/BE/BN 112	BX/BE/BN 132
	DxE - Ø					
B5R⁽¹⁾	11x23 - 140	14x30 - 160	19x40 - 200	24x50 - 200	24x50 - 200	28x60 - 250

(1) bride avec trous traversants

M6.2 Degré de protection

IP..

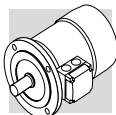
Le tableau ci-dessous résume la disponibilité des différents degrés de protection.

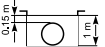
Indépendamment du degré de protection spécifié, en cas d'installation en plein air, les moteurs doivent être protégés des rayons directs du soleil et, en cas d'installation avec l'arbre dirigé vers le bas, il est nécessaire de spécifier ultérieurement le capot de protection contre la pénétration de l'eau et des corps solides (option RC).

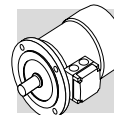
(F09)

		IP 54	IP 55	IP 56
BY...K - BX...K - BX - BE - BN	MX - ME - M	⊖	standard	option
BXN	MXN	⊖	standard	option
BXN_FDD	MXN_FDD	⊖	standard	option
BX_FD - BE_FD - BN_FD	MX_FD - ME_FD - M_FD	standard	option	⊖
200 ≤ BX...K_FD < 280	-	⊖	standard	⊖
BX...K_FD ≥ 280	-	⊖	standard	option

(*) BX ≤ 180_FD



IP		5	5		
0		Non protégé	0		Non protégé
1		Protégé contre la pénétration de corps solides étrangers d'un diamètre ≥ 50 mm	1		Protégé contre les gouttes d'eau tombant à la verticale
2		Protégé contre la pénétration de corps solides étrangers d'un diamètre ≥ 12,5 mm	2		Protégé contre les gouttes d'eau tombant à la verticale selon une inclinaison allant jusqu'à 15°
3		Protégé contre la pénétration de corps solides étrangers d'un diamètre ≥ 2,5 mm	3		Protégé contre la pluie
4		Protégé contre la pénétration de corps solides étrangers d'un diamètre ≥ 1,0 mm	4		Protégé contre les éclaboussures d'eau
5		Protégé contre la poussière	5		Protégé contre les jets d'eau
6		Aucune infiltration de poussière	6		Protégé contre les jets d'eau puissants
			7		Protégé contre les effets d'une immersion temporaire
			8		Protégé contre les effets d'une immersion prolongée



M6.7 Bornier moteur

Le bornier des moteurs de l'ancienne génération (BN/M - BE/ME - BX/MX) comporte 6 goujons destinés au raccordement par cosse à œillet, tandis que les moteurs EVOX BXN et MXN ont toujours été équipés de 9 goujons en série.

Lorsqu'un moteur ancien dispose de l'option UL activée, le bornier comporte 9 vis de raccordement (pour la tension américaine « double tension »). Dans le boîtier se trouve une borne pour le conducteur de terre. Les dimensions des axes de fixation sont reportées dans le tableau ci-dessous. Pour l'alimentation du frein, voir par. M9 (frein FD). Dans le cas de moteurs freins, le redresseur pour l'alimentation du frein est fixé à l'intérieur du boîtier et est doté de bornes de raccordement. Effectuer les connexions selon les schémas indiqués à l'intérieur du bornier, ou dans les manuels d'utilisation.

(F10)

		Nombre de bornes	Filetages des bornes
BXN 63 ... BXN 132	MXN05 ... MXN40	9	M4
BX 63 ... BX 90 BE 63 ... BE 90 BN 56 ... BN 90	MX05 ... MX2 ME05 ... ME2 M05 ... M2	6	M4
BX 100 ... BX 132 BE 100 ... BE 132 BN 100 ... BN 160MR	MX3, MX4 ME3, ME4 M3 ... M4	6	M5
BX 160 - BE 160 ... BE 180M BN 160M ... BN 180M	ME5 MX5 - M5	6	M6
BX 180 - BE 180L BN 180L ... BN 200L	-	6	M8
BX 200K ... BX 250K	-	6	M10
BY 280K ... BY 355K BX 280K ... BX 355K	-	6	M12
BX 80 ... BX 132 BE 63 ... BE 132 BN 63 ... BN 160MR	MX2 ... MX4 ME05 ... ME4 M05 ... M4	9	M4
BX 160 ... BX 180 BE 160 ... BE 180 BN 160M ... BN 200L	MX5 ME5 M5	9	M6

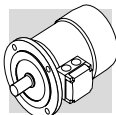
M6.8 Entrée de câbles

Dans le respect de la Norme EN 50262, les orifices d'entrée de câbles dans les borniers présentent des filetages métriques de la taille indiquée dans le tableau ci-dessous.

(F11)

		Boîte à bornes - Petite « S »		Boîte à bornes - Standard « L »		Diamètre maximal autorisé du câble [mm]
		Presse-étoupe et dimensions	Position	Presse-étoupe et dimensions	Position	
BXN 63 ... BXN 112	MXN 05 ... MXN 35 MNN 05 ... MNN 10	2 x M25 x 1.5	1+1 trou de chaque côté	2 x M25 x 1.5	1+1 trou de chaque côté	17
		2 x M16 x 1.5		2 x M16 x 1.5		10
		-		1 x M16 x 1.5	1 trou dans le dos	10
BXN 132	MXN 40	-	-	2 x M32 x 1.5	1+1 trou de chaque côté	21
		-		2 x M16 x 1.5		10
		-		1 x M16 x 1.5	1 trou dans le dos	10

		Presse-étoupe et dimensions	Position	Diamètre maximal autorisé du câble [mm]
BX 63 - BE 63 - BN 63	MX05 - ME05 - M05	2 x M20 x 1.5	1 trou de chaque côté	13
BN71 ... BN90, BE71 ... BE90, BX71 ... BX90	M1 - M2, ME1 - ME2, MX1 - MX2	2 x M25 x 1.5		17
BN100 - BN112, BE100 - BE112, BX100 - BX112	MX3, MX4 - ME3 M3	2 x M32 x 1.5	2 trous de chaque côté	21
		2 x M25 x 1.5		17
BN132 ... BN160MR, BE132, BX132	M4, ME4, MX4	4 x M32 x 1.5	1+1 trou de chaque côté	21
BXN 132	MXN 40	2 x M32 x 1.5		21
		2 x M16 x 1.5		10
		1 x M16 x 1.5	1 trou dans le dos	10
BN160M ... BN200L, BE160 - BE180, BX160 - BX180	M5, ME5, MX5	2 x M40 x 1.5	Pivotant, 4 x 90°	28
		2 x M20 x 1.5		13
BY 280K ... BY 355K BX 200K ... BX 355K	-	2 x M63 x 1.5	Pivotant, 4 x 90°	45



IC0

Position d'entrée du câble

Cette option permet de sélectionner la direction d'entrée des câbles dans la boîte à bornes.

Dans certaines configurations, elle permet d'utiliser la boîte à bornes optimisée (taille S) pour les tailles de châssis CEI 63, 71, 80, 90, 100 et 112, ainsi que pour les tailles compactes 05, 10, 20, 25, 30 et 35.

Si cette option n'est pas définie dans le configurateur, la conception standard de la boîte à bornes (taille L) reste inchangée.

Type de boîte à bornes

Le tableau suivant indique la correspondance entre l'option « Position de l'entrée des câbles », la présence d'un frein et la taille du moteur.

Position d'entrée du câble		[IC0] , [IC1] , [IC2]	
Taille du moteur CEI	Taille du moteur compact	Sans frein	Avec frein
63-71-80	05-10-20	S	L
90-100-112	6004 2Z C3	S	L
132	6007 2Z C3	L	L

Pour illustrer la logique des nouvelles variantes de produits, les exemples suivants montrent comment la désignation du produit évolue en fonction de la taille de la boîte à bornes et des options d'entrée des câbles disponibles.

Taille S

Option d'entrée des câbles = [IC0], [IC1]



Taille L

Option d'entrée des câbles = [IC0], [IC1], [IC2]



Matériau du capot du ventilateur

Précise le matériau du capot du ventilateur du moteur. Il est essentiel de garantir durabilité et conformité dans différents secteurs.

MFC

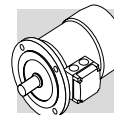
Capot de ventilateur métallique

Précise le matériau du capot du ventilateur en tôle métallique du moteur, offrant une alternative métallique robuste à la forme de construction en plastique standard pour répondre à des exigences industrielles spécifiques.

Il est essentiel de garantir durabilité et conformité dans des secteurs exigeants tels que la métallurgie (résistance aux impacts et aux étincelles), l'industrie alimentaire (détection de particules métalliques sur les convoyeurs), environnements froids, etc.

À partir du moteur avec frein taille 90, le capot de ventilateur métallique est fourni de série, tandis que pour les tailles plus petites, il est obligatoire lorsque des options spécifiques comme les codeurs, la peinture RAL et l'arbre double sont sélectionnées.

Matériau du capot du ventilateur					
Taille du moteur CEI	Taille du moteur compact	Sans frein		Avec frein	
		standard	option	standard	option
63	05	Plastique	Métal	Plastique	Métal
71	10	Plastique	Métal	Plastique	Métal
80	20	Plastique	Métal	Plastique	Métal
90	25	Plastique	Métal	Métal	-
100	30	Métal	-	Métal	-
112	35	Métal	-	Métal	-
132	40	Métal	-	Métal	-



M6.9 Roulements

Les roulements prévus sont du type radial à billes avec lubrification permanente. Les types utilisés sont indiqués dans les tableaux ci-dessous.

La durée de vie calculée L10h, selon la norme ISO 281, en condition non chargée, dépasse 40 000 h.

DE = sortie arbre

NDE = côté ventilateur

(F12)

IEC (IE1-IE2)	DE	NDE	
		Sans frein	Avec frein
BN 56	6201 2Z C3	6201 2Z C3	–
BE 63 BN 63	6201 2Z C3	6201 2Z C3	6201 2RS C3
BE 71 BN 71	6202 2Z C3	6202 2Z C3	6202 2RS C3
BE 80 - BN 80	6204 2Z C3	6204 2Z C3	6204 2RS C3
BE 90 - BN 90	6205 2Z C3	6205 2Z C3	6305 2RS C3
BE 100 - BN 100	6206 2Z C3	6206 2Z C3	6206 2RS C3
BE 112 - BN 112	6306 2Z C3	6306 2Z C3	6306 2RS C3
BE 132 - BN 132	6308 2Z C3	6308 2Z C3	6308 2RS C3
BN 160MR	6309 2Z C3	6308 2Z C3	6308 2RS C3
BE 160M/L - BN 160M/L	6309 2Z C3	6309 2Z C3	6309 2RS C3
BN 180M	6310 2Z C3	6309 2Z C3	6309 2RS C3
BE 180M/L - BN 180L	6310 2Z C3	6310 2Z C3	6310 2RS C3
BN 200L	6312 2Z C3	6310 2Z C3	6310 2RS C3

IEC (IE3)	DE	NDE	
		Sans frein	Avec frein
BXN 63 - BX 63	6201 2Z C3	6201 2Z C3	6201 2Z C3
BXN 71 - BX 71	6202 2Z C3	6202 2Z C3	6202 2Z C3
BXN 80 - BX 80	6204 2Z C3	6204 2Z C3	6204 2Z C3
BXN 90 - BX 90	6205 2Z C3	6205 2Z C3	6205 2Z C3
BXN 100 - BX 100	6206 2Z C3	6206 2Z C3	6206 2Z C3
BXN 112 - BX 112	6306 2Z C3	6306 2Z C3	6306 2Z C3
BXN 132 - BX 132	6308 2Z C3	6308 2Z C3	6308 2Z C3
BX 160M/L	6309 2Z C3	6309 2Z C3	6309 2Z C3
BX 180M/L	6310 2Z C3	6310 2Z C3	6310 2Z C3
BX 200K	6312/C3	6210/C3*	6310/C3
BX 225K	6313/C3*	6212/C3*	-
BX 250K	6315/C3*	6213/C3*	-
BY 280K - BX 280K	6316/C3*	6316/C3*	-
BY 315K - BX 315K	6319/C3**	6316/C3**	-
BY 355K - BX 355K	6322/C3**	6316/C3**	-

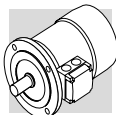
Compact (IE1-IE2) ACSF - W	DE*	NDE	
		Sans frein	Avec frein
ME 05 - M 05	6004 2Z C3	6201 2Z C3	6201 2RS C3
ME 1 - M 1	6004 2Z C3	6202 2Z C3	6202 2RS C3
ME 2 - M 2	6007 2Z C3	6204 2Z C3	6204 2RS C3
ME 3 - M 3	6207 2Z C3	6206 2Z C3	6206 2RS C3
ME 4 - M 4	6309 2Z C3	6308 2Z C3	6308 2RS C3
ME 5 - M 5	6309 2Z C3	6309 2Z C3	6309 2RS C3

Compact (IE3) ACSF - W	DE	NDE	
		Sans frein	Avec frein
MXN 05 - MX 05	6004 2Z C3	6201 2Z C3	6201 2Z C3
MXN 10 - MX 1	6004 2Z C3	6202 2Z C3	6202 2Z C3
MXN 20 - MX 2	6007 2Z C3	6204 2Z C3	6204 2Z C3
MX 3	6207 2Z C3	6206 2Z C3	6206 2Z C3
MX 4	6309 2Z C3	6308 2Z C3	6308 2Z C3
MX 5	6309 2Z C3	6309 2Z C3	6309 2Z C3

*Roulements regraissables avec dispositif de graissage M6x1

**Roulements regraissables avec dispositif de graissage M10x1

Note : Les moteurs compacts destinés aux réducteurs W ne sont pas équipés d'un roulement DE.



M7 CARACTÉRISTIQUES ÉLECTRIQUES

M7.1 Tension

Les moteurs mono vitesse sont prévus en standard pour une tension nominale 230/400V Δ/Y, 50 Hz, ou 400/690V Δ/Y, 50 Hz, avec une tolérance sur la tension de $\pm 10\%$.

Note : La tension/fréquence nominale du moteur dépend également du choix des options liées aux certifications énergétiques pour des marchés spécifiques. Le tableau ci-dessous ne doit donc être considéré qu'à titre indicatif. Pour plus de détails sur les tensions disponibles en fonction de la certification sélectionnée, reportez-vous aux paragraphes M7.5 - M7.10.

Pour tous les moteurs dont la configuration tension / fréquence n'est pas celle indiquée ci-dessus, la tolérance sur la tension est réduite à $\pm 5\%$.

Pour un fonctionnement à la limite de la tolérance, la température peut dépasser de 10 K la limite fixée par la classe d'isolation adoptée.

Les moteurs sont conçus pour fonctionner sur le réseau de distribution européen avec une tension conforme à la publication IEC 60038.

(F13)

Tensions d'alimentation des moteurs BN - M (IE1)

Moteurs mono vitesse à 50 Hz

Tension d'alimen- tation du moteur	— (CE)		CCC	CUS
	STD	FD		
220/380 - 50	✗	✓	✗	✓
230/400 - 50	✓	✓	✓	✓
240/415 - 50	✗	✓	✗	✓
290/500 - 50	✓	✓	✗	✓
380/660 - 50	✗	✓	✗	✓
400/690 - 50	✓	✓	✗	✓
415/720 - 50	✗	✓	✗	✓
500/865 - 50	✓	✓	✗	✓

Moteurs à deux vitesses à 50 Hz

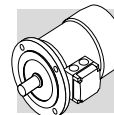
Tension d'alimen- tation du moteur	— (CE)	CCC	CUS
380 - 50	✓	✗	✓
400 - 50	✓	✓	✓
415 - 50	✓	✗	✓
500 - 50	✓	✗	✓

Moteurs mono vitesse à 60 Hz

Tension d'alimen- tation du moteur	— (CE)		CCC	CUS
	STD	FD		
208/360 - 60	✓	✓	✗	✓
220/380 - 60	✓	✓	✗	✓
230/400 - 60	✓	✓	✗	✓
255/440 - 60	✗	✓	✗	✓
265/460 - 60	✗	✓	✓	✓
280/480 - 60	✗	✓	✗	✓
330/575 - 60	✓	✓	✗	✓
380/660 - 60	✓	✓	✗	✓
400/690 - 60	✓	✓	✗	✓
440/760 - 60	✗	✓	✗	✓
460/800 - 60	✗	✓	✗	✓
480/830 - 60	✗	✓	✗	✓
575/995 - 60	✓	✓	✗	✓
220/440 - 60	✓	✓	✗	✓
230/460 - 60	✓	✓	✗	✓
240/480 - 60	✓	✓	✗	✓

Moteurs à deux vitesses à 60 Hz

Tension d'alimen- tation du moteur	— (CE)	CUS
208 - 60	✓	✓
220 - 60	✓	✓
230 - 60	✓	✓
240 - 60	✓	✓
380 - 60	✓	✓
400 - 60	✓	✓
440 - 60	✓	✓
460 - 60	✓	✓
480 - 60	✓	✓
575 - 60	✓	✓



(F14)

Tensions d'alimentation des moteurs BE - ME (IE2)			
Moteurs mono vitesse à 50 Hz			
Tension d'alimentation du moteur	— (CE)	BIS	CUS
220/380 - 50	✓	✓	✓
230/400 - 50	✓	✓	✓
240/415 - 50	✓	✓	✓
290/500 - 50	✓	✓	✓
380/660 - 50	✓	✓	✓
400/690 - 50	✓	✓	✓
415/720 - 50	✓	✓	✓
500/865 - 50	✓	✓	✓

Moteurs mono vitesse à 60 Hz			
Tension d'alimentation du moteur	— (CE)		CUS
	STD	FD	
208/360 - 60	✓	✓	✓
220/380 - 60	✓	✓	✓
230/400 - 60	✓	✓	✓
255/440 - 60	✓	✓	✓
265/460 - 60	✗	✓	✓
280/480 - 60	✓	✓	✓
330/575 - 60	✗	✓	✓
380/660 - 60	✓	✓	✓
400/690 - 60	✓	✓	✓
440/760 - 60	✓	✓	✓
460/800 - 60	✗	✓	✓
480/830 - 60	✓	✓	✓
575/995 - 60	✓	✓	✓
220/440 - 60	✓	✓	✓
230/460 - 60	✓	✓	✓
240/480 - 60	✓	✓	✓

Tensions d'alimentation des moteurs BX - MX (IE3)						
Moteurs mono vitesse à 50 Hz						
Tension d'alimentation du moteur	— (CE)	CCC	CEL	NBR	BIS	CUS
230/400-50	✓ ⁽¹⁾	✗	✓ ⁽⁶⁾ ⁽¹⁾	✗	✓ ⁽¹⁾	✗
290/500-50	✓	✗	✗	✗	✗	✗
380/660-50	✗	✗	✓ ⁽⁴⁾	✗	✗	✗
400/690-50	✓ ⁽²⁾	✗	✓ ⁽²⁾ ⁽³⁾	✗	✗	✗

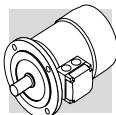
Moteurs mono vitesse à 60 Hz				
Tension d'alimentation du moteur	— (CE)		NBR ^(*)	CUS
	STD	FD		
220/380-60	✗	✗	✓ ⁽³⁾	✗
265/460-60	✗	✓ ⁽¹⁾	✗	✓ ⁽¹⁾
330/575-60	✗	✓ ⁽³⁾	✗	✓ ⁽³⁾
380/660-60	✗	✗	✓ ⁽⁵⁾	✗
440/760-60	✗	✗	✓ ⁽⁴⁾	✗
460/800-60	✗	✓ ⁽²⁾ ⁽³⁾	✗	✓ ⁽²⁾ ⁽³⁾
220/440-60	✗	✗	✓ ⁽³⁾	✗
230/460-60	✗	✗	✗	✓ ⁽³⁾

⁽¹⁾ uniquement pour les moteurs de taille ≤ 132
⁽²⁾ uniquement pour les moteurs de taille ≥ 160

⁽³⁾ uniquement pour les moteurs de taille ≤ 180
⁽⁴⁾ uniquement pour les moteurs de taille ≥ 200

⁽⁵⁾ uniquement pour les moteurs de taille 180
⁽⁶⁾ uniquement pour les moteurs de taille ≥ 100

Note : Les moteurs à 50 Hz sans frein comportent également des indications relatives à la fréquence de 60 Hz sur leur plaque signalétique



Dans le tableau ci-dessous sont indiqués les différents types de connexion prévus pour les moteurs.

(F15)

Nombre de pôles			Connexion du bobinage
2	BE 80 ... BE 160, BN 63 ... BN 200	ME2 ... ME5, M05 ... M5	$\Delta / Y^{(2)}$
4	BXN 63 ... BXN 132, BX 63 ... BX 180 BX 200LAK ... BX 355MCK BY 280K ... BY 355K BE 63 ... BE 180, BN 56 ... BN 200	MXN05 ... MXN40, MX05 ... MX5 — ME05 ... ME5, M05 ... M5	
6	BE 90 ... BE 160, BN 63 ... BN 200	ME3 ... ME5, M05 ... M5	

⁽²⁾ Les moteurs à rapport de tension 2 (par ex. les modèles 230/460 - 60) seront équipés d'un bornier moteur à 9 broches permettant une connexion de l'enroulement en $\Delta/\Delta/\Delta$ ou en YY/Y (à l'exception du modèle BN 63 à 6 pôles en Δ/Y)

NOTE : Pour les moteurs BXN et MXN, consulter le catalogue spécifique EVOX

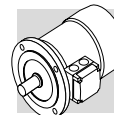
M7.2 Fréquence

La puissance sur la plaque des moteurs BN / M à 60 Hz correspond à celle indiquée dans le tableau suivant :

(F16)

		2P		4P		6P	
		P _n [kW]	P _n [HP]	P _n [kW]	P _n [HP]	P _n [kW]	P _n [HP]
BN 27A	-	-	-	0.05	0.07	-	-
BN 27B	-	-	-	0.07	0.09	-	-
BN 27C	-	-	-	0.10	0.13	-	-
BN 44B	-	-	-	0.07	0.09	-	-
BN 44C	-	-	-	0.10	0.13	-	-
BN 56A	-	-	-	0.07	0.09	-	-
BN 56B	M 0B	-	-	0.10	0.13	-	-
BN 63A	M 05A	0.21	0.28	0.14	0.19	0.10	0.13
BN 63B	M 05B	0.30	0.40	0.21	0.28	0.14	0.19
BN 63C	M 05C	0.45	0.60	0.30	0.40	-	-
BN 71A	-	0.45	0.60	0.30	0.40	0.21	0.28
-	M 1SC	-	-	-	-	0.21	0.28
BN 71B	M 1SD	0.65	0.87	0.45	0.60	0.30	0.40
BN 71C	M 1LA	0.90	1.20	0.65	0.87	0.45	0.60
BN 80A	-	0.90	1.20	0.65	0.87	0.45	0.60
BN 80B	M 2SA	1.30	1.75	0.90	1.20	0.65	0.87
BN 80C	M 2SB	1.80	2.40	1.30	1.75	0.90	1.20
BN 90S	-	-	-	1.30	1.75	0.90	1.20
BN 90SA	-	1.80	2.40	-	-	-	-
BN 90SB	-	2.20	3.00	-	-	-	-
BN 90L	-	2.50	3.40	-	-	1.30	1.75
BN 90LA	-	-	-	1.80	2.40	-	-
BN 90LB	-	-	-	2.20	3.00	-	-

		2P		4P		6P	
		P _n [kW]	P _n [HP]	P _n [kW]	P _n [HP]	P _n [kW]	P _n [HP]
-	M 3SA	2.50	3.40	1.80	2.40	1.30	1.75
BN 100L	M 3LA	3.50	4.70	2.50	3.40	-	-
BN 100LA		-	-	-	-	1.80	2.40
BN 100LB	M 3LB	4.70	6.30	3.50	4.70	2.20	3.00
BN 100LC	M 3LC	-	-	4.70	6.30	-	-
-		-	-	-	-	2.50	3.40
BN 112M	-	4.70	6.30	4.70	6.30	2.50	3.40
BN 132S	M 4SA	-	-	6.50	8.70	3.50	4.70
BN 132SA		6.50	8.70	-	-	-	-
BN 132SB	M 4SB	8.70	11.70	-	-	-	-
BN 132M	M 4LA	11.00	15.00	-	-	-	-
BN 132MA		-	-	8.70	11.70	4.60	6.20
BN 132MB	M 4LB	-	-	11.00	15.00	6.50	8.70
BN 160MR	M 4LC	12.50	16.80	12.50	16.80	-	-
BN 160M	M 5SA	-	-	12.50	16.80	-	-
BN 160MB		17.50	23.40	-	-	8.60	11.50
BN 160L	M 5SB	-	-	17.50	23.40	12.60	16.90
BN 180M	M 5SC	21.50	28.80	-	-	-	-
BN 180L	M 5LA	24.50	32.80	21.50	28.80	-	-
BN 200L	-	-	-	25.30	33.90	17.50	23.40
BN 200LA	-	34.00	45.50	-	-	22.00	30.00



Les moteurs BXN / BX / BE / MXN / MX / ME à 60 Hz sont disponibles en version 4 pôles et ont la même puissance que ceux correspondants à 50 Hz. Les moteurs BN / M à deux vitesses, alimentés à 60 Hz, auront une augmentation de la puissance nominale, par rapport à 50 Hz, égale à 15 %, alors que les moteurs BXN / BX / BE / MXN / MX / ME à deux vitesses ne sont pas prévus. Si sur l'étiquette d'un moteur conçu pour être alimenté en 60 Hz, il est demandé une valeur de puissance nominale égale à celle normalisé en 50 Hz, spécifier l'option PN. Les moteurs normalement bobinés pour une fréquence de 50 Hz, peuvent être utilisés sur les réseaux en 60 Hz, mais les données devront être corrigées en fonction du tableau suivant. Les moteurs désignés pour 50 Hz montre sur la plaque signalétique également les valeurs pour 60 Hz (sauf moteurs en exécution CUS et moteurs avec frein). Voir le tableau suivant.

(F17)

	50 Hz	60 Hz			
	V - 50 Hz	V - 60 Hz	P _n - 60 Hz	M _n , M _a /M _n - 60 Hz	n [min ⁻¹] - 60 Hz
BXN / MXN BX / MX BE / ME	230/400 Δ/Y	265 - 460 Δ Y	1	0.83	1.2
	400/690 Δ/Y	460 Δ			
BN / M	230/400 Δ/Y	220 - 240 Δ			
		380 - 415 Y			
	400/690 Δ/Y	380 - 415 Δ			
BN / M	230/400 Δ/Y	265 - 280 Δ	1.15	1	1.2
		440 - 480 Y			
	400/690 Δ/Y	440 - 480 Δ			

NOTE : Pour les moteurs BXN et MXN, consulter le catalogue spécifique EVOX.

M7.3 Température ambiante

Les tableaux fonctionnels du catalogue présentent les caractéristiques techniques à 50 Hz dans des conditions ambiantes standard selon les normes CEI EN 60034-1 (température 40 °C et altitude ≤ 1000 m).

Les moteurs peuvent être employés à des températures comprises entre 40 °C et 60 °C en appliquant les déclassements de puissance indiqués au tableau suivant.

(F18)

Température ambiante (°C)	40	45	50	55	60
Puissance admissible en % de la puissance nominale	1.00	0.97	0.94	0.90	0.86

Si un déclassement du moteur supérieur à 15% est requis, on devra contacter notre Service Technique.

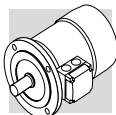
M7.4 Puissance normalisée à 50 HZ

PN

Cette option garantit que la plaque signalétique du moteur indique les données de puissance normalisées à 50 Hz, même lorsque le moteur est prévu pour fonctionner à 60 Hz. L'option PN est appliquée par défaut dans les cas suivants :

- Tensions standard à 60 Hz : Pour les alimentations 230/460 V-60 Hz et 330/575 V-60 Hz, quelles que soient les options de certification.
- Avec l'option « CUS » : Lorsque l'option CUS est sélectionnée en association avec les tensions suivantes :
 - 220/440V-60Hz
 - 230/460V-60Hz
 - 240/480V-60Hz
 - 330/575V-60Hz

Remarque concernant le type de service : Ces règles s'appliquent quel que soit le type de service. Par exemple, un moteur configuré en 240/480 V-60 Hz avec « CUS » et un cycle de service S3 conservera par défaut la même puissance nominale S3 que son équivalent à 50 Hz.



M7.5 Moteurs pour États-Unis et Canada

CUS

L'option CUS est disponible en exécution NEMA Design C pour les moteurs BN, BE, M, ME, et en exécution NEMA Design B pour les moteurs BX (pour les caractéristiques électriques). Les moteurs BXN et MXN sont certifiés cURus de série. Les moteurs sont certifiés conformes aux normes CSA (Canadian Standard) C22.2 N°100 et UL (Underwriters Laboratory) UL 1004-1, comme indiqué sur le fichier UL E308649.

Tous les moteurs BN-BE-M-ME et BXN-MXN d'une puissance comprise entre 0,12 et 0,55 kW, y compris ceux dont la puissance est comprise dans cette fourchette, portent les marquages suivants sur leur plaque signalétique :



La plaque signalétique de moteurs BXN/MXN $\geq 0,75\text{kW}$ et BX/MX $\geq 0,75\text{kW}$ en cycle continu S1 montre les marques ci-dessous, qui sont certifiées selon les normes d'efficacité énergétique en vigueur aux États-Unis et au Canada, respectivement fournies par DOE (10 CFR Part 431) et NRCAN (Règlement sur l'efficacité énergétique), testées selon la norme CSA C390.



Les moteurs BX 100 sont disponibles uniquement pour les États-Unis et non pas pour le Canada, et les marques correspondantes signalées sur la plaque signalétique sont les suivantes :



Les moteurs BX $\geq 200\text{K}$ portent le logo indiqué ci-dessous sur la plaque et sont certifiés conformes aux réglementations sur l'efficacité énergétique en vigueur aux États-Unis et au Canada, respectivement fournies par le DOE (10 CFR, partie 431) et le NRCAN (réglementations sur l'efficacité énergétique), testées dans conformité aux dispositions de la norme CSA C390.



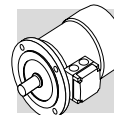
REMARQUES :

À partir du **1er juin 2016**, les moteurs CUS avec une efficacité inférieure à IE3 (c'est-à-dire «Efficacité Premium») ne peuvent plus être vendus aux États-Unis et au Canada, sauf si une ou plusieurs des conditions suivantes s'appliquent :

- Moteurs à deux vitesses ;
- Moteurs marqués pour un service non continu (<80 %) ;
- Moteurs destinés à être actionnés uniquement par un variateur de vitesse (correctement équipé de l'étiquette « Inverter Duty Only », ou similaire).

L'option CUS est applicable aux moteurs équipés de U1 seulement pour BX $\geq 200\text{K}$.

Comme la norme ANSI C84.1 le précise, les tensions des réseaux de distribution américains ainsi que les tensions nominales à spécifier pour le moteur sont indiquées dans le tableau suivant :



(F19)

Fréquence	Tension secteur	V_{mot}
60 Hz	208 V	200 V
	240 V	230 V
	480 V	460 V
	600 V	575 V

Les moteurs BX avec option CUS sont disponibles avec les valeurs de tension/fréquence suivantes :

(F20)

	V_{mot}
BX ≤ 132	265/460 - 60 Hz
BX ≤ 180	230/460 - 60 Hz 330/575 - 60 Hz
BX ≥ 160 BX ≥ 200K BY ≥ 280K	460/800 - 60 Hz

L'option CUS est également applicable aux moteurs en 50 Hz (Exclus moteurs BX, MX).

M7.6 Moteurs certifiés pour l'Inde

BIS

Les moteurs à basse tension d'une puissance $\geq 0,12$ kW fabriqués ou importés en Inde doivent être conformes aux exigences du Bureau of Indian Standards (BIS), et leur plaque signalétique doit porter la marque ISI. Les moteurs BE, BX, BXN avec des puissances jusqu'à 7,5 kW (comprise), sont disponibles avec la certification susmentionnée. Lorsque l'option BIS est sélectionnée, elle est fournie avec la plaque portant le logo suivant :



M7.7 China Compulsory Certification

CCC

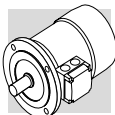
Les moteurs électriques destinés à être commercialisés dans la République Populaire de Chine doivent entrer dans le cadre du système de certification CCC (China Compulsory Certification). Les moteurs suivants sont disponibles avec la certification CCC :

- Moteurs BN/M d'une puissance nominale inférieure à 0,12 kW, prévus pour un fonctionnement continu en mode S1.
- Moteurs BN/M d'un couple maximal de 7 Nm, conçus uniquement pour un cycle de fonctionnement non continu S3.

Ces moteurs porteront le marquage CCC suivant :



L'option CCC n'est pas applicable aux moteurs équipés d'une servoventilation.



M7.8 Moteur certifiés pour la Chine (China Energy Label)

CEL

En plus de la certification CCC obligatoire mentionnée ci-dessus, tous les moteurs basse tension $\geq 0,75$ kW produits ou importés en Chine doivent être certifiés et enregistrés par le bureau des marques et être dotés d'un label énergétique attestant de la conformité du moteur aux niveaux d'efficacité minimale définis dans le document GB18613-2012.

Les moteurs BX de puissances comprises entre 2,2 et 355 kW sont disponibles avec certification CEL. Les moteurs susmentionnés sont livrés avec l'étiquette ci-dessous directement appliquée au moteur :



Note : Le marquage CEL (China Energy Label) n'est pas requis pour les moteurs à cycle de fonctionnement discontinu ni pour les moteurs avec servoventilation.

Les moteurs BX avec option CEL sont disponibles avec les valeurs de tension / fréquence suivantes :

(F21)

	V_{mot}
BX ≥ 200	380/660 - 50 Hz
$100 \leq BX \leq 132$	230/400 - 50 Hz
$160 \leq BX \leq 180$	400/690 - 50 Hz

M7.9 Moteur certifié pour le marché mondial

CN

Avec l'option CN, les moteurs BXN et MXN peuvent être commercialisés sur les principaux marchés mondiaux tels que l'Europe, le Royaume-Uni, les États-Unis, le Canada, la Chine, la Russie, l'Australie et la Nouvelle-Zélande.

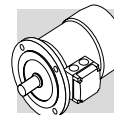
Plus précisément, le moteur porte les marquages CE, UKCA, UL, CCC et, lorsque cela est requis, CEL sur la plaque signalétique. Les moteurs sont également conformes aux exigences EAC et IECEA.

Cette option est disponible pour les combinaisons bobinage/puissance suivantes :

(F22)

	Taille	Puissance	Service Duty	Bobinage	<div><div></div><div>3~Mot B3N 90S 4 FD TEFC 1MB5 IP55 21,6 kg</div><div>CoD, xxxxxxxxxx No xxxxxxxx - xxxxxxxx</div><div><table><tr><td>kW 1.1</td><td>HP 1.5</td><td>Amb</td><td>40 °C</td><td>CL F</td><td>S1</td></tr><tr><td>Hz</td><td>V</td><td>A</td><td>r/min</td><td colspan="2">cos φ</td></tr><tr><td>50</td><td>115/200 ΔΔ/YY</td><td>8.3 / 4.8</td><td>1448</td><td colspan="2">0.78</td></tr><tr><td>50</td><td>230/400 Δ/Y</td><td>4.1 / 2.38</td><td>1448</td><td colspan="2">0.78</td></tr><tr><td>60</td><td>132/230 ΔΔ/YY</td><td>7.3 / 4.2</td><td>1754</td><td colspan="2">0.75</td></tr><tr><td>60</td><td>265/460 Δ/Y</td><td>3.5 / 2.10</td><td>1754</td><td colspan="2">0.75</td></tr><tr><td colspan="6">50Hz IE3 - 84,1 (100%) - 85,9 (75%) - 83,5 (50%) kVA Code J</td></tr><tr><td colspan="6">40Hz IE3 - 86,5 (100%) - 86,6 (75%) - 83,5 (50%) kVA Code L</td></tr><tr><td colspan="6">D3 H1 1~230V ± 10% 25W</td></tr><tr><td colspan="6">VB=230V MB=13Nm NB SA</td></tr><tr><td colspan="6">三極异步电动机 超能电机</td></tr><tr><td colspan="6"><div></div></td></tr><tr><td colspan="6">Bonfiglioli Riduttori S.p.A. IEC EN 60034 Made in Vietnam</td></tr></table></div></div>	kW 1.1	HP 1.5	Amb	40 °C	CL F	S1	Hz	V	A	r/min	cos φ		50	115/200 ΔΔ/YY	8.3 / 4.8	1448	0.78		50	230/400 Δ/Y	4.1 / 2.38	1448	0.78		60	132/230 ΔΔ/YY	7.3 / 4.2	1754	0.75		60	265/460 Δ/Y	3.5 / 2.10	1754	0.75		50Hz IE3 - 84,1 (100%) - 85,9 (75%) - 83,5 (50%) kVA Code J						40Hz IE3 - 86,5 (100%) - 86,6 (75%) - 83,5 (50%) kVA Code L						D3 H1 1~230V ± 10% 25W						VB=230V MB=13Nm NB SA						三極异步电动机 超能电机						<div></div>						Bonfiglioli Riduttori S.p.A. IEC EN 60034 Made in Vietnam					
kW 1.1	HP 1.5	Amb	40 °C	CL F		S1																																																																													
Hz	V	A	r/min	cos φ																																																																															
50	115/200 ΔΔ/YY	8.3 / 4.8	1448	0.78																																																																															
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Bonfiglioli Riduttori S.p.A. IEC EN 60034 Made in Vietnam																																																																																			
BXN	De 63MA à 80MA	De 0,12 à 0,55 kW	S1	WD1 - WD3*																																																																															
MXN	De 05MA à 20MA																																																																																		
BXN	De 80MB à 112M	De 0,75 à 4 kW	S1	WD1																																																																															
MXN	De 20MB à 35M																																																																																		
BXN	De 132S à 132M	De 5,5 à 7,5 kW	S1	WD2																																																																															
MXN	De 40S à 40M																																																																																		

* La certification brésilienne est standard uniquement pour le bobinage WD3 et un marquage INMETRO supplémentaire est fourni.



M7.9 Moteurs certifiés pour le Brésil

NBR

La législation brésilienne régit la production et l'importation de moteurs électriques dans le pays. En fait, les moteurs doivent être approuvés par la NBR via la déclaration des niveaux de rendement atteints par ceux-ci à INMETRO. Les moteurs conformes à NBR doivent indiquer la valeur d'efficacité déclarée et être fournis avec une plaque NBR dédiée et le marquage supplémentaire indiqué dans la figure ci-dessous :



L'option NBR est disponible pour les moteurs :

- BX avec puissances de 0.75 à 22 kW inclus
- BX... K avec puissances de 30 à 355 kW inclus

Les moteurs BX avec option NBR sont disponibles avec les valeurs de tension / fréquence suivantes :

(F23)

	V_{mot}
BX90SR ... BX160	220/380 - 60 Hz 220/440 - 60 Hz
BX 180	220/380 - 60 Hz 220/440 - 60 Hz 380/660 - 60 Hz
BX $\geq$ 200K	440/760 - 60 HZ

M7.10 Moteurs certifiés pour l'Australie

EECA

Les moteurs électriques appartenant aux catégories visées par la législation et destinés à être vendus en Australie et en Nouvelle-Zélande doivent être enregistrés dans la base de données nationale Energyrating. Les moteurs avec option EECA sont enregistrés dans la base de données susmentionnée et peuvent donc être commercialisés en Australie et en Nouvelle-Zélande.

L'option EECA est disponible pour les moteurs BX ... K avec des puissances de 30 à 355 kW.

Les moteurs BX avec option EECA sont disponibles avec les valeurs de tension / fréquence suivantes :

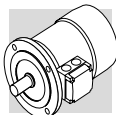
(F24)

	V_{mot}
BX $\geq$ 200K	400/690 - 50 Hz

M7.11 Classe d'isolation

CL F

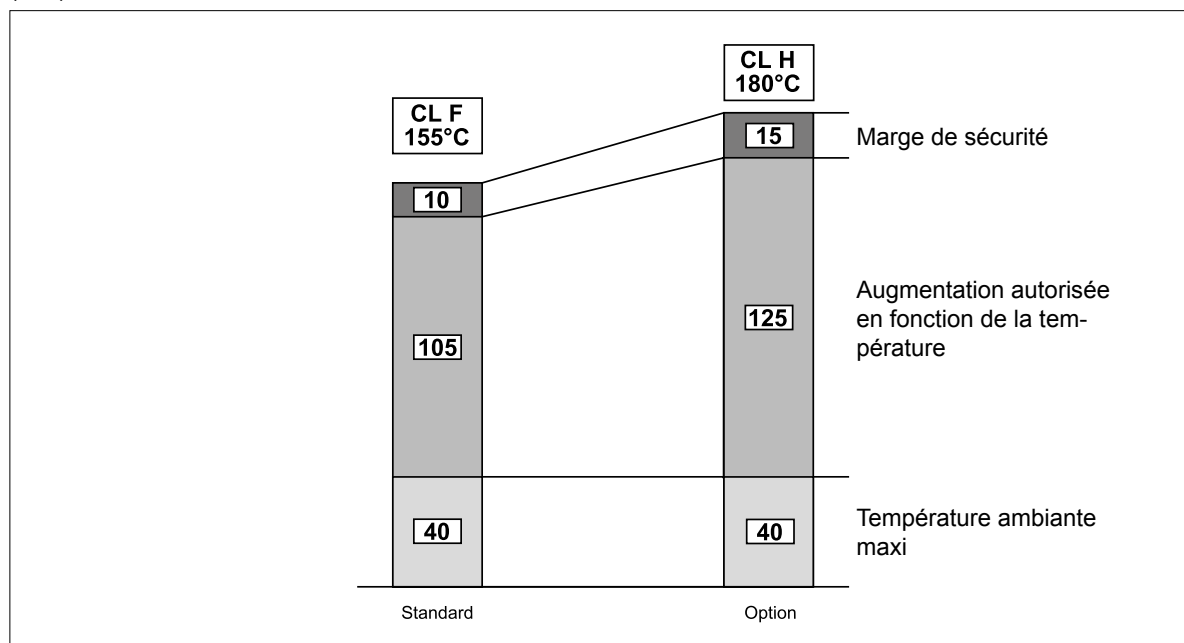
De série, les moteurs fabriqués par Bonfiglioli utilisent des matériaux isolants (fil émaillé, isolants, résines d'imprégnation) en classe F. En général, pour les moteurs en exécution standard, l'échauffement des bobinages du stator se situe dans la limite de 80 K, correspondant à un échauffement de classe B. Le choix soigné des composants du système d'isolation permet d'utiliser également les moteurs dans des climats tropicaux et en présence de vibrations normales. Pour des applications en présence de substances chimiques agressives, ou d'humidité élevée, il est conseillé de contacter le Service Technique Bonfiglioli pour sélectionner le produit le plus adapté.



CL H

Sur demande, la classe d'isolation **H** peut être spécifiée.

(F25)



M7.12 Type de service

Sauf indication contraire, la puissance des moteurs indiquée dans le catalogue se réfère au service continu type S1. Pour les moteurs utilisés dans des conditions différentes de S1, il est nécessaire d'identifier le type de service en se référant aux normes CEI EN 60034-1. Plus particulièrement, pour les types de service S2 et S3 il est possible d'obtenir une majoration de la puissance, en appliquant les coefficients indiqués dans le tableau suivant. Veuillez noter que le tableau ci-dessous concerne les moteurs mono vitesse. En alternative au service continu S1, en phase de configuration du produit (uniquement pour les moteurs mono vitesse), il est possible de sélectionner une des valeurs suivantes : S2, S3. la plaque du moteur sera renseignée avec une puissance supérieure, conformément au type de service, aux données électriques dédiées et au type de service, respectivement S2-30 min, S3-70 %.

Les moteurs BN et M peuvent être configurés de série pour fonctionner selon les cycles de service S2 (30 min) et S3 (70 %). Toute autre demande présentant des valeurs différentes en termes de pourcentage ou de durée est considérée comme une demande spécifique.

Les moteurs BXN et MXN peuvent être configurés en standard selon les modes S2=10 min, S2=30 min, S2=60 min ou S3=25 %, S3=40 %, S3=70 %.

(F26)

	Type de service					
	S2			S3 *		
	Durée (min)			Intermittence (I)		
	10	30 (*)	60	25%	40%	70% (*)
f_m	1.35	1.15	1.05	1.25	1.15	1.1

* La durée du cycle doit, dans tous les cas, être inférieure ou égale à 10 minutes ; si cette durée est dépassée, veuillez contacter notre service technique.

** Pour tout cycle de service différent de S1, S2-30 min et S3-70 %, veuillez contacter le service technique de Bonfiglioli.

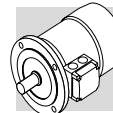
(*) Valeurs par défaut issues des options (tabl. F05).

M7.12.1 Rapport d'intermittence :

$$I = \frac{t_f}{t_f + t_r} \cdot 100 \quad (01)$$

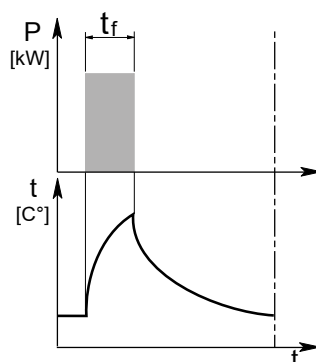
t_f = temps de fonctionnement à charge constante

t_r = temps de repos



M7.12.2 Service de durée limitée S2

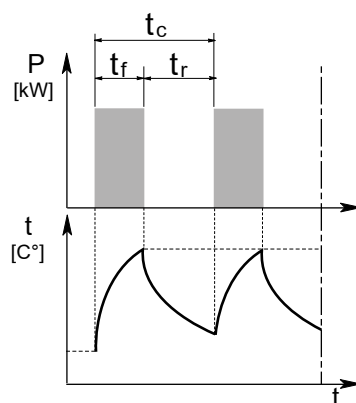
Caractérisé par un fonctionnement à charge constante pour une période de temps limitée, inférieure à celle nécessaire pour atteindre l'équilibre thermique, suivie par une période de repos de durée suffisante pour rétablir, dans le moteur, la température ambiante.



M7.12.3 Service intermittent périodique S3

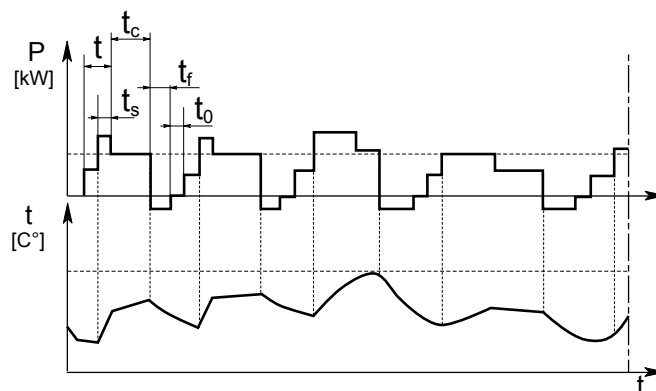
Caractérisé par une séquence de cycles de fonctionnement identiques, comprenant chacun une période de fonctionnement à charge constante et une période de repos.

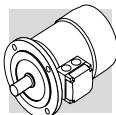
Dans ce service, le courant de démarrage n'influence pas l'excès de température de façon significative.



M7.12.4 Service avec variations non périodiques de la charge et de la vitesse S9 :

Ce type de fonctionnement se caractérise par des variations de charge et de vitesse, le moteur fonctionnant généralement de manière non périodique dans la plage de fonctionnement admissible. Ce régime de fonctionnement implique des surcharges fréquentes pouvant largement dépasser les charges maximales.



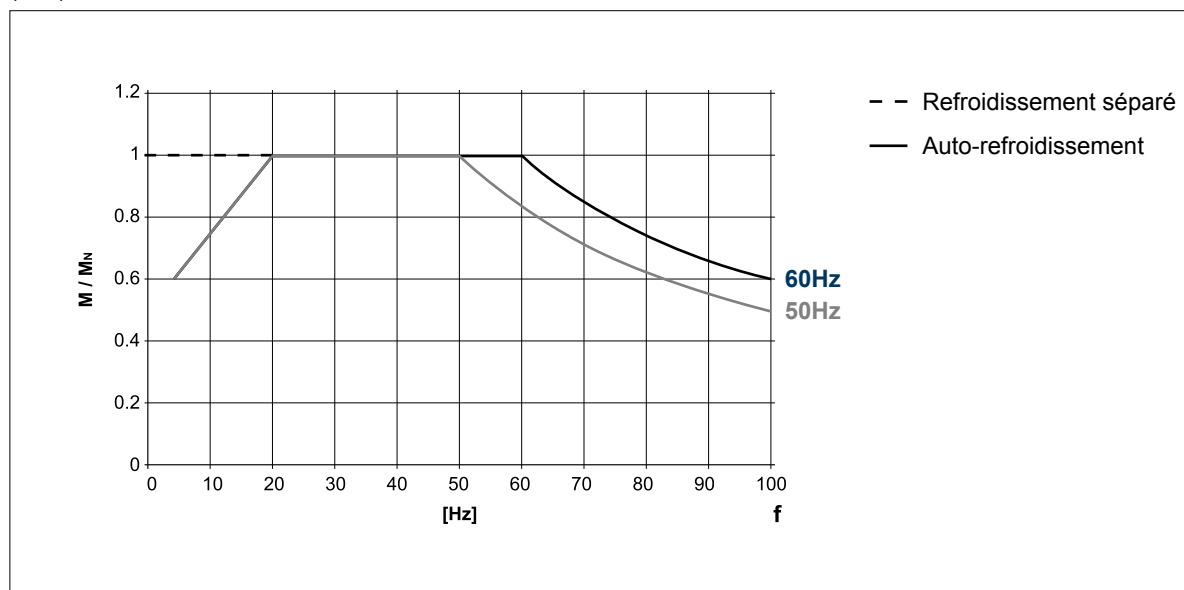


M7.13 Fonctionnement avec alimentation par variateur de fréquence

Les moteurs électriques Bonfiglioli peuvent être utilisés en combinaison avec des variateurs de fréquence PWM avec une tension nominale à l'entrée du transformateur jusqu'à 500 V. Le système adopté sur les moteurs de série prévoit l'isolation de phase avec des séparateurs, l'utilisation de fil émaillé niveau 2 et résines d'imprégnation de classe H (capacité de tension d'impulsion crête-à-crête de 1600 V et front de montée $t_s > 0.1\mu s$ aux bornes du moteur). Les caractéristiques typiques couple/vitesse en service S1 pour moteur avec fréquence de base $f_b = 50$ Hz sont indiquées dans le tableau suivant. Pour des fréquences de fonctionnement inférieures à environ 30 Hz, à cause de la diminution de la ventilation, les moteurs standards autoventilés (IC411) doivent être opportunément déclassés au niveau du couple ou, en alternative, doivent être équipés d'un servoventilateur indépendant.

Pour des fréquences supérieures à la fréquence de base, une fois la valeur maximale de tension de sortie du variateur de fréquence atteinte, le moteur fonctionne dans une plage de fonctionnement à puissance constante, avec un couple à l'arbre qui diminue suivant un rapport (f/f_b) . Dans la mesure où le couple maximal du moteur diminue avec $(f/f_b)^2$, la marge de surcharge admise doit être progressivement réduite.

(F27)

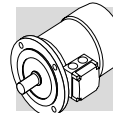


En cas de fonctionnement au-delà de la fréquence nominale, la vitesse limite mécanique des moteurs est indiquée dans le tableau suivant :

(F28)

		n [min ⁻¹]		
		2p	4p	6p
≤ BE 112 - BN 112	ME2, ME3 M05 ... M3	5200	4000	3000
≥ BE 132 - BN 132	ME4, ME5 M4, M5	4500	4000	3000
BXN 63 ... BXN 132	MXN 05 ... MXN 35		4000	
BX 63 ... BX 180	MX05 ... MX5		4000	
BX 200K			4500	
BX 225K ... BX 250K			3600	
BX 280K, BY 280K			2000	
BX 315K, BX 355K			2200	

Au-delà de la vitesse nominale, les moteurs génèrent davantage de vibrations mécaniques et de bruit de ventilateur. L'équilibrage du rotor de classe B est vivement recommandé dans ces applications. Il peut également être recommandé d'installer un ventilateur de refroidissement indépendant. Le servoventilateur et, si présent, le frein électromagnétique doivent toujours être alimentés directement par le réseau.



M7.14 Fréquence maximum de démarrage Z

Dans les tableaux des caractéristiques techniques des moteurs se trouve la fréquence maximum d'insertion à vide Z0 avec intermittence I = 50% référée à la version frein.

Cette valeur définit un nombre maximum de démarrages horaire à vide que le moteur peut supporter sans dépasser la température maximum admise par la classe d'isolation F.

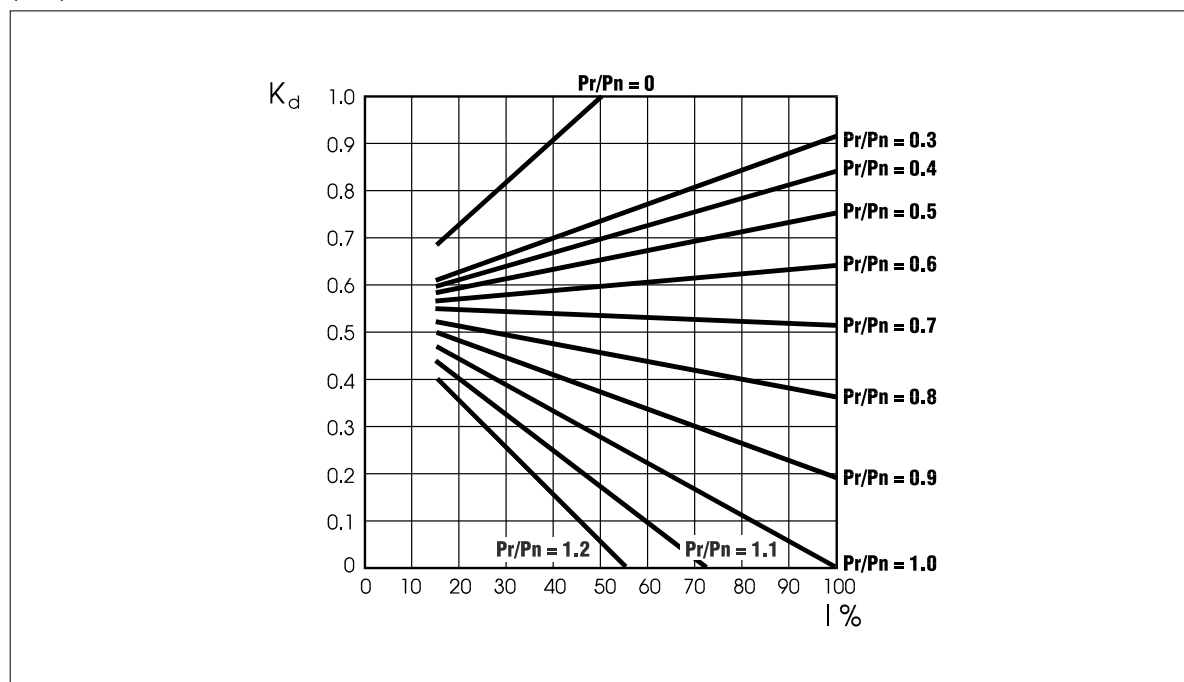
Dans le cas pratique d'un moteur accouplé à une charge extérieure avec puissance absorbée Pr, masse inertielle Jc et couple résistant moyen pendant le démarrage ML, le nombre de démarrages admissible peut se calculer de façon approximative avec la formule suivante :

$$Z = \frac{Z_0 \cdot K_c \cdot K_d}{K_J} \quad (02)$$

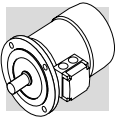
où :

$K_J = \frac{J_m + J_c}{J_m}$	facteur d'inertie
$K_c = \frac{M_a - M_L}{M_a}$	facteur de couple
$K_d =$	facteur de charge, voir le tableau ci-dessous

(F29)



Avec le nombre de démarrages ainsi obtenu (Z), il faudra ensuite vérifier que le travail maximum de freinage soit compatible avec la capacité thermique du frein Wmax indiquée dans les tableaux (F38), (F41) et dépend du nombre de démarrages (c/h).

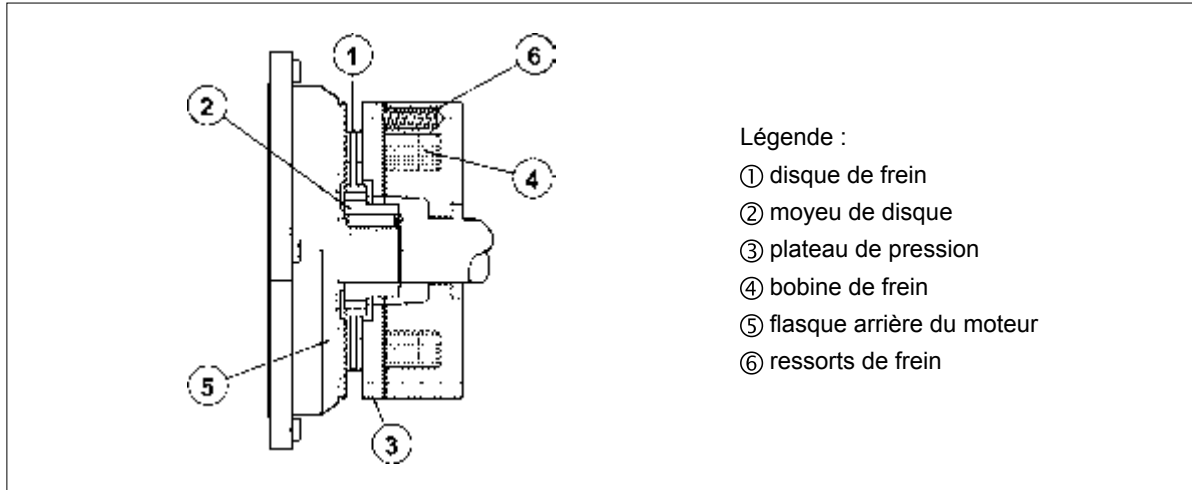


M8 MOTEURS FREINS - FREIN À COURANT CONTINU POUR BX-BE-BX | MX-ME-M

M8.1 Fonctionnement

Les versions avec frein incorporé utilisent des freins à courant continu à manque de courant (option FD). Tous les freins fonctionnent selon le principe de sécurité, c'est-à-dire qu'ils interviennent suite à la pression exercée par les ressorts, en cas de coupure d'alimentation.

(F30)



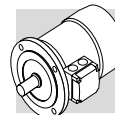
En cas de coupure de courant, l'armature mobile, poussée par les ressorts, bloque le disque de frein entre la surface de l'armature et le bouclier moteur en empêchant la rotation de l'arbre.

Lorsque la bobine est excitée, l'attraction magnétique exercée sur l'armature mobile annule la réaction élastique des ressorts et libère le disque de frein, et par conséquent l'arbre moteur, qui est solidaire.

M8.2 Caractéristiques principales

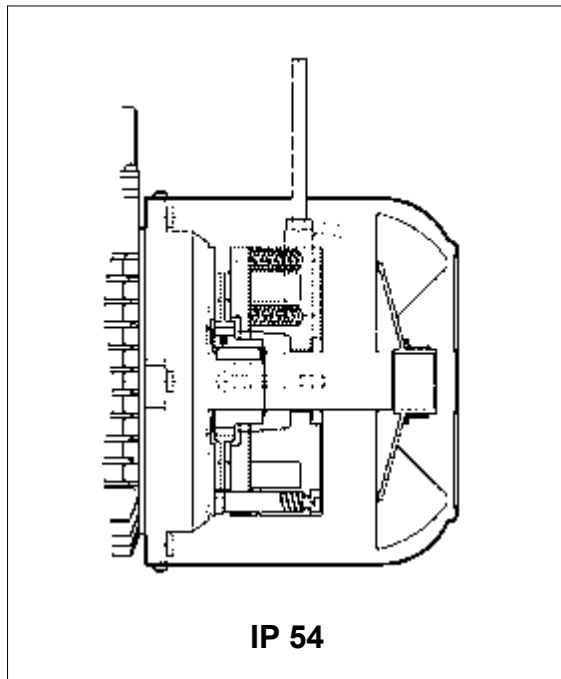
- Couples de freinage élevés (généralement $M_b \approx 2 M_n$) et réglables.
- Disque de frein avec structure en acier à double garniture de frottement (matière à faible usure, sans amiante).
- Empreinte hexagonale sur l'arbre moteur, côté ventilateur (N.D.E.), pour la rotation manuelle (non prévue en cas de présence des options PS, RC*, TC*, U1, U2, EN1, EN2, EN3, EN4, EN5, EN6).
- Déblocage mécanique manuel (options R et RM pour FD).
- Traitement anticorrosion sur toute la surface du frein.
- Isolation en classe F.

(*) Inaccessible sans retirer le cache du ventilateur

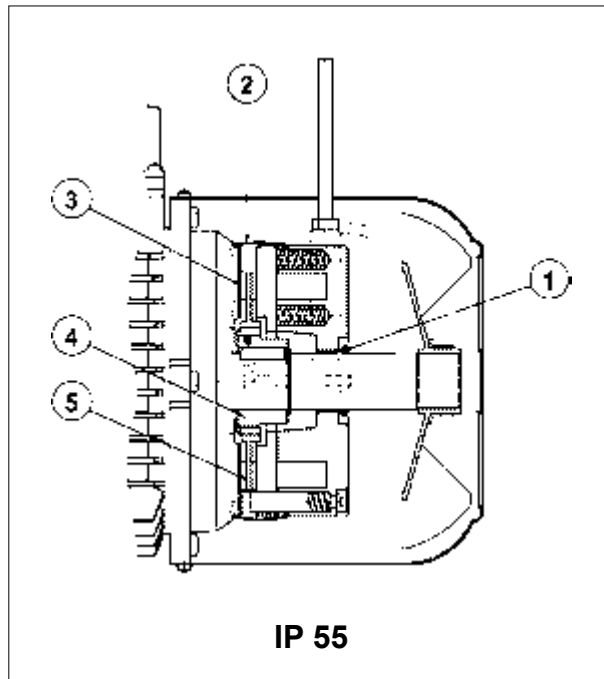


Tailles de châssis : BX 63 ... BX 180, BX200LAK ... BX 355MCK - BE 63 ... BE 180L - BN 63 ... BN 200L / MX05 ... MX5 - ME05 ... ME5 - M05 ... M5

(F31)



(F32)



Frein électromagnétique à **courant continu**, à bobine torique, boulonné sur le flasque du moteur. Les ressorts de précontrainte assurent le positionnement axial du corps de l'aimant.

Le disque frein coulisse de façon axiale sur le moyeu d'entraînement en acier, calé sur l'arbre, et doté d'un dispositif antivibration.

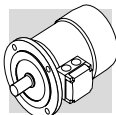
Le couple de freinage est préréglé en usine aux valeurs qui sont indiquées dans les tableaux des caractéristiques techniques des moteurs correspondants. Le couple de freinage peut être modifié en changeant le type et/ou le nombre de ressorts.

Sur demande, les moteurs peuvent être équipés de levier pour le déblocage manuel avec retour automatique (**R**) ou avec maintien de la position de déblocage frein (**RM**).

Voir description de la variante correspondante au paragraphe « SYSTÈMES DE DÉBLOCAGE FREIN ».

Le frein FD garantit des performances dynamiques élevées et un faible niveau de bruit. Les caractéristiques d'intervention du frein en courant continu peuvent être optimisées en fonction de l'application en utilisant les différents types de dispositifs d'alimentation/redresseurs et câblage disponibles.

Pour des applications qui prévoient des levages et/ou des valeurs de travail horaire élevées, contacter le Service technique et commercial de Bonfiglioli.



M8.3 Degré de protection

L'exécution standard prévoit le degré de protection IP54 pour tous les BN - M, BE - ME, BX≤180 et MX, tandis que pour BX...K200 la protection standard est IP55.

Les moteurs freins BN - M, BE - ME et BX≤180 - MX, dotés d'un indice de protection standard IP54, peuvent être commandés avec un indice de protection IP55. Si **IP55** est sélectionné, les variantes de construction suivantes seront appliquées :

- ① Bague en V à l'extrémité NDE de l'arbre moteur
- ② gaine en caoutchouc étanche à la poussière et à l'eau
- ③ bague en acier inoxydable placée entre le flasque du moteur et le disque de frein
- ④ moyeu en acier inoxydable
- ⑤ disque de frein en acier inoxydable

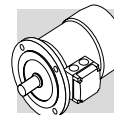
M8.4 Alimentation frein FD

Un redresseur installé dans le bornier alimente la bobine de frein CC. Le câblage de connexion entre le redresseur et la bobine de frein est réalisé à l'usine.

Indépendamment de la fréquence du réseau, la tension d'alimentation du frein V_B correspond à la valeur indiquée dans le tableau ci-dessous :

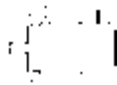
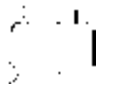
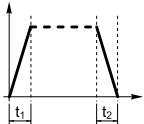
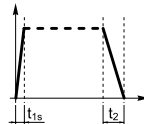
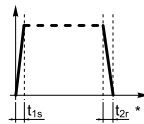
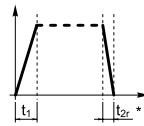
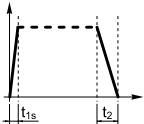
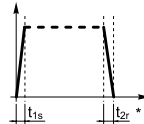
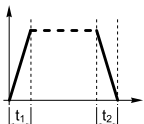
(F33)

Tensions d'alimentation frein FD				
Tensions d'alimentation frein V	Frein FD			
	Alimentation électrique provenant du moteur avec redresseur NB SB	Alimentation électrique provenant du moteur avec redresseur NBR SBR	Alimentation électrique séparée avec redresseur	Alimentation électrique sans redresseur
24	×	×	×	✓
100	×	×	×	✓
110	×	×	✓	×
115	×	×	✓	×
120	×	×	✓	×
127	×	×	✓	×
180	×	×	×	✓
208	✓	×	✓	×
220	✓	×	✓	×
230	✓	✓	✓	✓
240	✓	×	✓	×
255	✓	×	×	×
265	✓	×	×	×
280	✓	×	×	×
290	✓	×	×	×
330	✓	×	×	×
380	✓	×	✓	×
400	✓	✓	✓	×
415	✓	×	✓	×
440	✓	×	✓	×
460	✓	×	✓	×
480	✓	×	✓	×
500	✓	×	✓	×



Le redresseur est du type à diodes à demi-onde ($V_{c.c} \approx 0,45 \times V_{c.a.}$) et il est disponible dans les versions **NB**, **SB**, **NBR** et **SBR**, comme indiqué de façon détaillée dans le tableau suivant :

(F34)

		frein		
			standard	sur demande
BX 63 - BE 63 - BN 63	MX05 - ME05 - M05	FD 02		
BX 71 - BE 71 - BN 71	MX1 - ME1 - M1	FD 03 FD 53		SB
BX 80 - BE 80 - BN 80	MX2 - ME2 - M2	FD 04		
BX 90S - BE 90S - BN 90S	—	FD 14		SBR
BX 90L - BE 90L - BN 90L	—	FD 05		
BX 100 - BE 100 - BN 100	MX3 - ME3 - M3	FD 15		NBR
—		FD 55		
BX 112 - BE 112 - BN 112	—	FD 06S		
BX 132 - BE 132 - BN 132 - BN 160MR	MX4 - ME4 - M4	FD 56 FD 06 FD 07		
BX 160 - BE 160L - BN 160L - BN 180M	MX5 - ME5 - M5	FD 08		
BX 180 - BE 180L - BN 180L - BN 200M	—	FD 09		
BX 200LAK	—	FD 8		
BX 225SAK - BX 225SBK	—	FD 9		
BX 250MAK	—	FD 10		
BX 280SAK - BX 315SAK	—	FD 1000		
BX 315SBK - BX 315SCK	—	FD 1600		
BX 355SAK - BX 355MCK	—	FD 2500		
				

Le redresseur **SB** à contrôle électronique de l'excitation réduit les temps de déblocage du frein en surexcitant l'électro-aimant durant les premiers instants d'enclenchement pour passer ensuite au fonctionnement normal à demi-onde une fois le frein désactivé.

L'utilisation du redresseur type **SB** doit toujours être prévue dans les cas suivants :

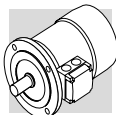
- nombre d'interventions horaires élevé
- temps de déblocage frein réduits
- sollicitations thermiques du frein élevées

Pour les applications nécessitant un temps de réponse rapide du frein (restauration du freinage), les redresseurs **NBR** ou **SBR** sont disponibles.

Ces redresseurs complètent les types **NB** et **SB**, en intégrant dans le circuit électronique un interrupteur statique qui intervient en désexcitant rapidement le frein en cas de coupure de tension.

Cette solution permet de réduire les temps de déblocage du frein en évitant d'autres câblages et contacts extérieurs.

Pour une meilleure utilisation des redresseurs **NBR** et **SBR** l'alimentation séparée du frein est nécessaire.



M8.5 Caractéristiques techniques freins FD

Le tableau suivant indique les caractéristiques techniques des freins en c.c. type FD.

(F35)

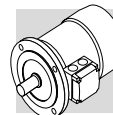
Frein	Couple de frein M_b [Nm]			Déblocage		Freinage		W_{max} par actionnement des freins			W	P
	ressorts			t_1	t_{1s}	t_2	t_{2c}	[J]				
	6	4	2	[ms]	[ms]	[ms]	[ms]	10 s/h	100 s/h	1000 s/h	[MJ]	[W]
FD02	–	3.5	1.75	30	15	80	9	4500	1400	180	15	17
FD03	5	3.5	1.75	50	20	100	12	7000	1900	230	25	24
FD53	7.5	5	2.5	60	30	100	12					
FD04	15	10	5	80	35	140	15	10000	3100	350	30	33
FD14												
FD05	40	26	13	130	65	170	20	18000	4500	500	50	45
FD15	40	26	13	130	65	170	20					
FD06S	60	40	20	–	80	220	25	20000	4800	550	70	55
FD56	–	75	37	–	90	250	20	29000	7400	800	80	65
FD06		100	50		100	250	20					
FD07	150	100	50	–	120	200	25	40000	9300	1000	130	65
FD08*	250	200	170	–	140	350	30	60000	14000	1500	230	100
FD09**	400	300	200	–	200	450	40	70000	15000	1700	230	120
FD8	400			176	78	236	–	65000	7000	650	–	85
FD9	600			324	138	176	–	120000	12000	1200	–	100
FD10	800			480	194	172	–	100000	16000	2000	–	150
FD1000	1000			252	–	375	–	220000	27000	2700	–	300
FD1600	1600			366	–	498	–	230000	35000	3500	–	340
FD2500	2500			660	–	880	–	590000	61000	6100	–	530

* valeurs du couple de frein obtenues avec respectivement 9, 7 et 6 ressorts

** valeurs du couple de frein obtenues avec respectivement 12, 9 et 6 ressorts

t_1 = temps de relâchement du frein avec redresseur à demi-onde
 t_{1s} = temps de relâchement du frein avec redresseur à suralimentation
 t_2 = temps d'actionnement du frein avec coupure de la ligne CA et alimentation électrique séparée
 t_{2c} = temps d'actionnement du frein avec coupure des lignes CA et CC
 – Valeurs de t_1 , t_{1s} , t_2 , t_{2c} indiquées dans le tableau. (F34) se réfère à des freins réglés au couple maximal, avec un entrefer moyen et à la tension nominale
 W_{max} = énergie maximale par actionnement des freins
 W = énergie de freinage entre deux réglages successifs de l'entrefer
 P_b = puissance de freinage absorbée à 20 °C
 M_b = couple de freinage statique ($\pm 15\%$)
 s/h = démarrages à l'heure

L'usure des garnitures de frottement dépend des conditions de fonctionnement/ambiantes (température, humidité, vitesse angulaire, pression spécifique) ; les valeurs d'usure doivent donc être considérées comme fournies à titre indicatif.



M8.6 Connexions de frein FD

Les moteurs standard à une vitesse sont fournis avec le raccordement du redresseur au bornier moteur déjà réalisé en usine.

Pour les moteurs à 2 vitesses, et lorsqu'une alimentation séparée du frein est requise, prévoir le raccordement au redresseur conformément à la tension frein VB indiquée sur la plaque signalétique du moteur.

Étant donné la nature inductive de la charge, pour la commande du frein et l'interruption côté courant continu, il est nécessaire d'utiliser des contacts avec catégorie d'utilisation AC-3 selon la norme IEC 60947-4-1.

Tableau (F35+F39) - Bobine de frein avec alimentation depuis les bornes moteur (DIR) et interruption côté c.a.
Temps d'arrêt différé t_2 et fonction des constantes de temps du moteur.

A prévoir lorsque des démarrages/arrêts progressifs sont requis.

Tableau (F36+F40) - Bobine de frein avec alimentation séparée (SA) et interruption côté c.a.

Temps d'arrêt normal indépendant du moteur.

Les temps d'arrêts t_2 sont ceux indiqués dans le tableau (F34).

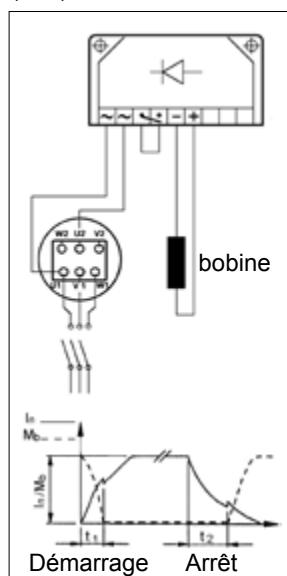
Tableau (F37+F41) - Bobine de frein avec alimentation depuis les bornes moteur (DIR) et interruption côté c.a. et c.c.

Arrêt rapide avec les temps d'intervention t_{2c} indiqués dans le tableau (F34).

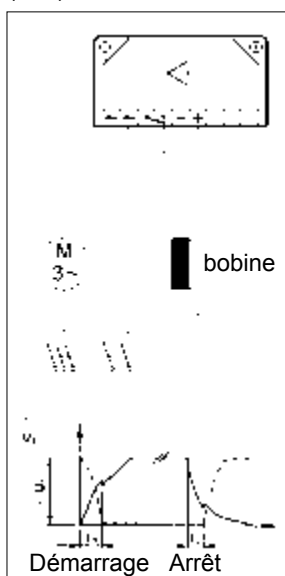
Tableau (F38+F42) - Bobine de frein avec alimentation séparée (SA) et interruption côté c.a. et c.c.

Temps d'arrêt réduit selon les valeurs t_{2c} indiquées dans le tableau (F34).

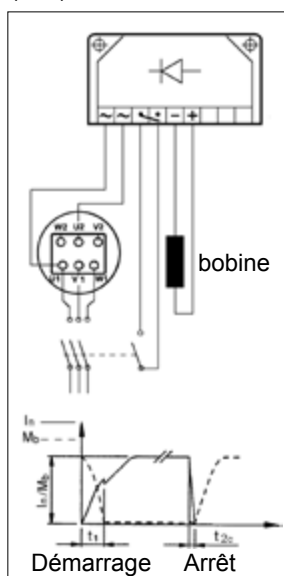
(F36)



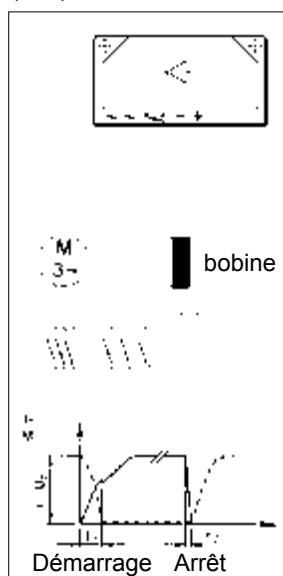
(F37)

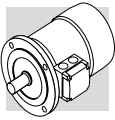


(F38)



(F39)



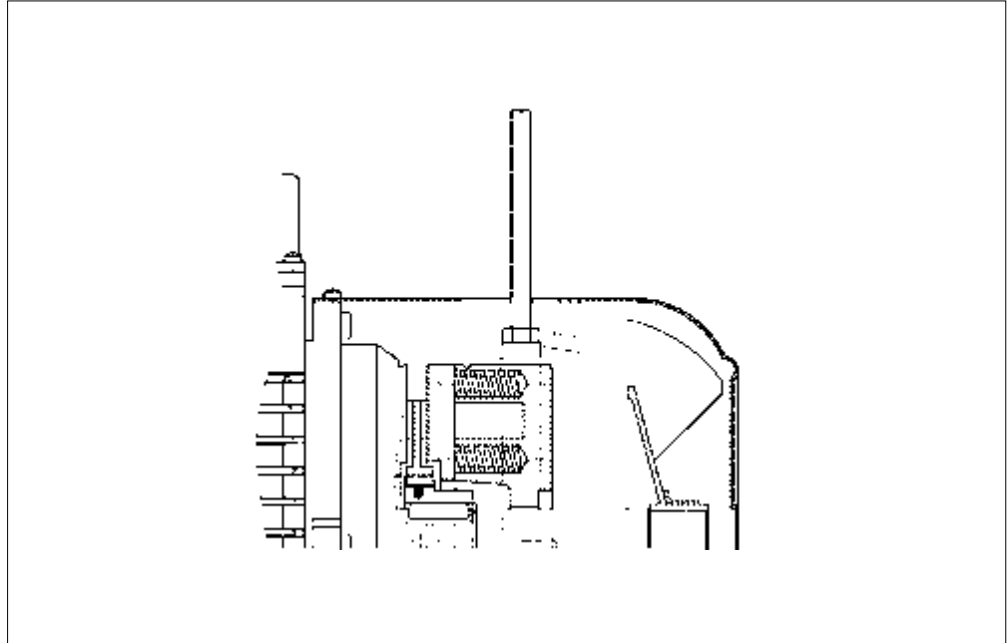


M9 SYSTÈMES DE DÉBLOCAGE FREIN

Les freins à ressort de type FD peuvent être équipés de dispositifs de relâchement manuel en option. Ils sont normalement utilisés pour relâcher manuellement le frein avant toute intervention sur les composants d'une machine ou les parties de l'installation entraînés par le moteur.

(F40)

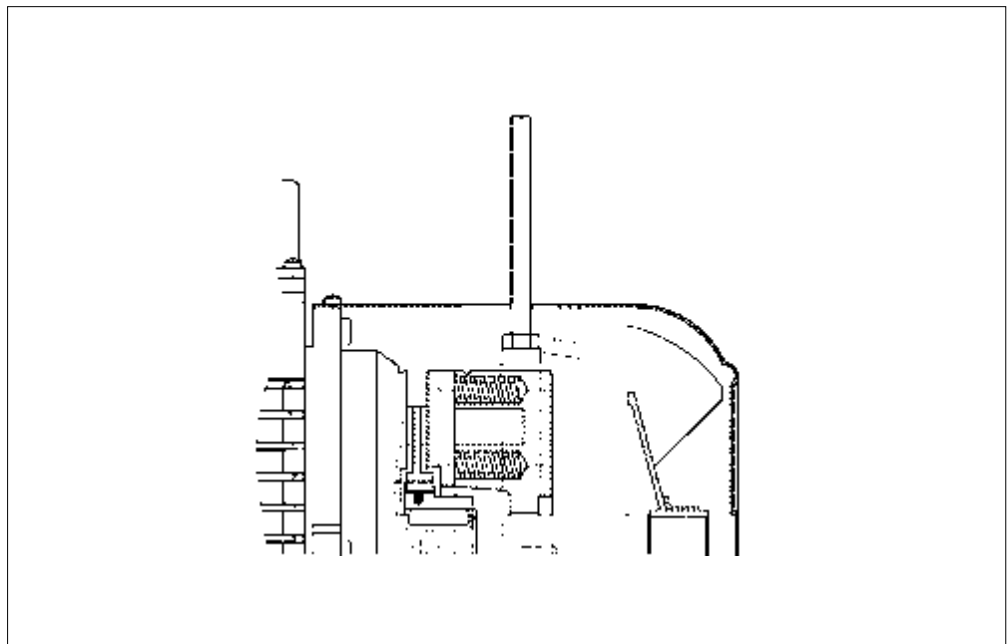
R

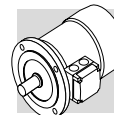


Le levier de déblocage est doté d'un retour automatique, au moyen d'un dispositif à ressort.

(F41)

RM





Sur les moteurs freins de type FD, le levier de déblocage peut être bloqué en position de déblocage du frein en le vissant jusqu'à engager l'extrémité dans une saillie du corps du frein.

La disponibilité des systèmes de déblocage du frein est différente en fonction des types de moteur et figure dans le tableau suivant.

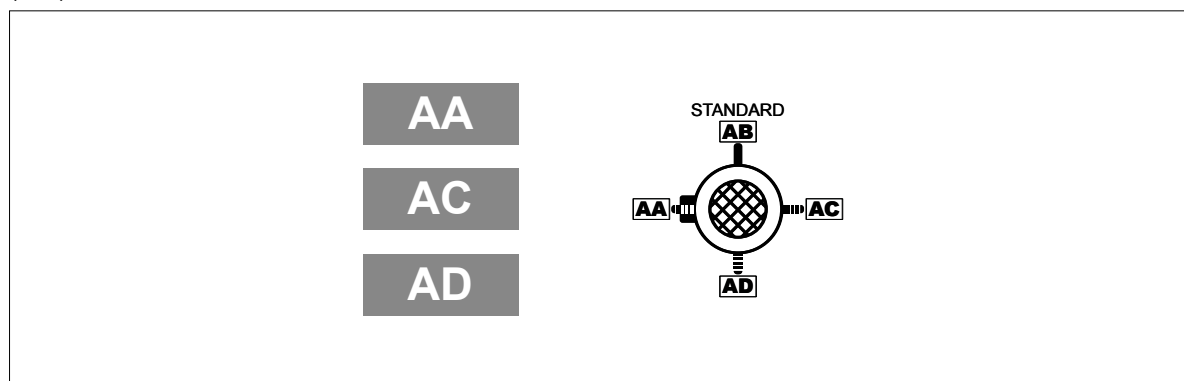
(F42)

	R	RM
BXN_FDD BX_FD BE_FD BN_FD	BXN 63 ... BXN 132 BX 63 ... BX 180 BX 200K ... BX 315K BE 63 ... BE 180 BN 63 ... BN 200	BX 63 ... BX 132 BE 63 ... BE 132 BN 63 ... BN 132 FD07
MXN_FDD MX_FD ME_FD M_FD	MXN05 ... MXN40 MX05 ... MX5 ME05 ... ME5 M05 ... M5	MX05 ... MX4 ME05 ... ME4 M05 ... M4LA

M9.1 Orientation du levier de déblocage

Pour les deux options **R** et **RM**, le levier de déblocage du frein est positionné, sauf spécification contraire, avec une orientation de 90° dans le sens des aiguilles d'une montre par rapport à la position du bornier - référence **[AB]** sur le dessin ci-dessous. Des orientations différentes, type **[AA]**, **[AC]** et **[AD]** peuvent être demandées à condition de préciser la position correspondante :

(F43)



M9.2 Alimentation frein séparée

...SA

Alimentation CC frein séparée

La bobine du frein est alimentée par une ligne séparée et indépendante de l'alimentation du moteur.

FD-NB/SB-SA : la tension nominale en CA alimentant le redresseur doit être précisée. Par exemple SA 400 (V CA).

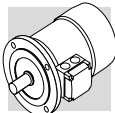
...SD

Alimentation CC frein séparée

La bobine du frein est alimentée directement avec du courant continu et le redresseur n'est pas présent.

La tension nominale de la bobine doit être spécifiée, par ex. SD 24 (V CC).

Note : pour les modèles BX...K200, il n'est pas possible d'alimenter le frein directement à partir du bornier du moteur. Il est donc nécessaire de sélectionner l'option SA ou SD.

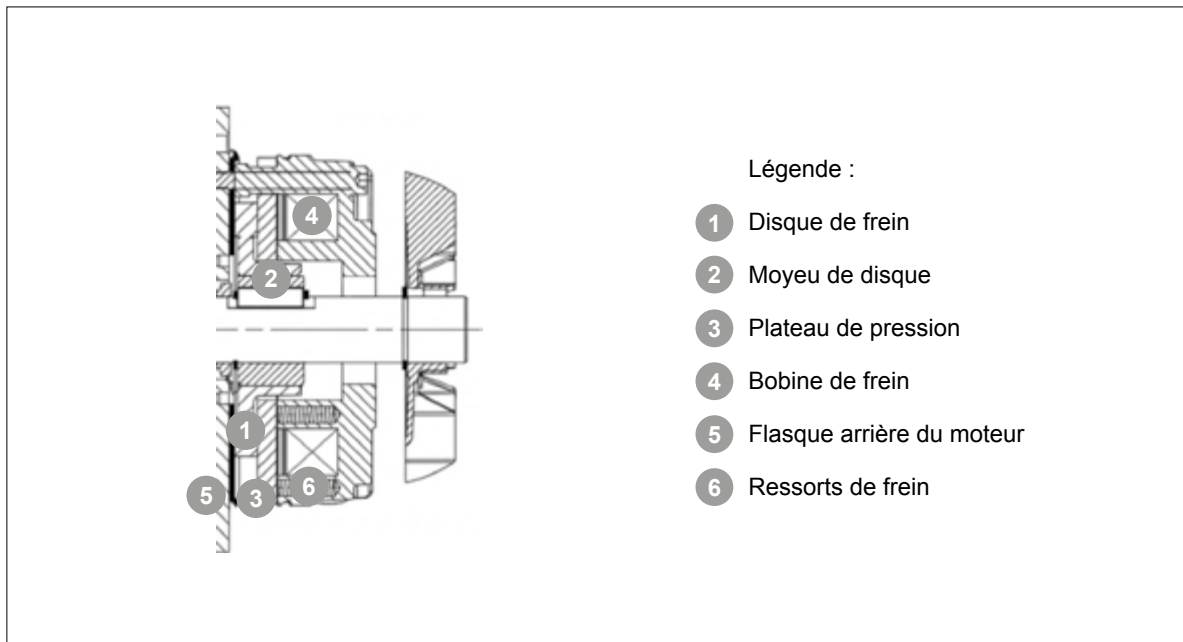


M10 MOTEURS FREIN - FREIN HAUTE PERFORMANCE À COURANT CONTINU POUR BXN | MXN

Moteurs frein asynchrones

Les moteurs électriques standards peuvent être équipés d'un frein, créant ainsi une unité auto-freinante. Le frein aide dans les situations où un arrêt rapide et sécurisé de la machine est nécessaire.

Tous les freins sont conçus pour un fonctionnement sûr en cas de défaillance : le couple de freinage est appliqué par l'action du ressort chaque fois que l'alimentation électrique est interrompue, assurant une sécurité maximale.



En cas de panne de courant, les ressorts de pression poussent la plaque d'armature contre le disque de frein. Le disque est piégé entre la plaque d'armature et le carter du moteur, arrêtant efficacement la rotation de l'arbre.

Lorsque la bobine est alimentée, un champ magnétique suffisamment fort pour vaincre la force du ressort attire la plaque d'armature.

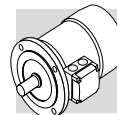
Cela relâche le disque de frein, qui est solidaire de l'arbre moteur, lui permettant de tourner librement.

Sélection du type de frein

Les freins de la série FDD sont conçus pour des applications nécessitant une grande précision, un faible bruit et des temps de réponse personnalisables, allant d'un engagement en douceur à des performances dynamiques élevées.

Boîtiers	Alimentation du moteur	Alimentation de la bobine de frein	Désignation de l'alimentation du frein	Système de freinage
1	CA	CA dédié	SA	FDD + redresseur
2		CC dédié	SD	FDD

La connexion directe est possible en sélectionnant une alimentation moteur monophasée. Les clients doivent gérer le câblage et assurer la compatibilité tension moteur/frein



M10.1 Type de frein

FDD

Type de frein CC haute performance

Les moteurs EVOX sont équipés de freins électromagnétiques à ressort CC de la série FDD.

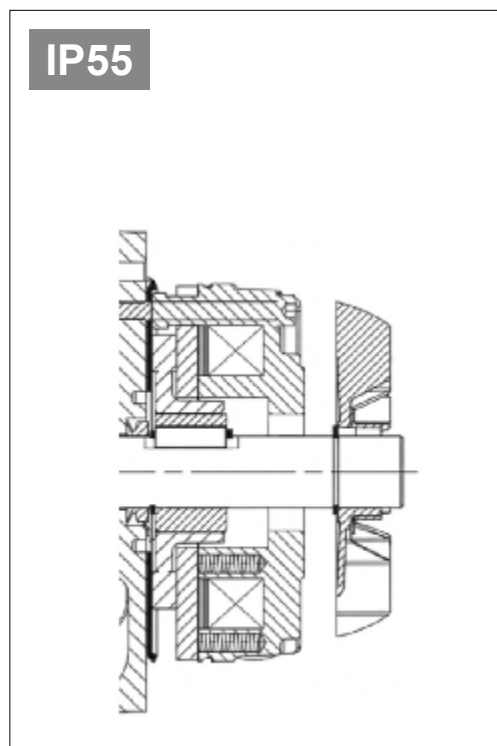
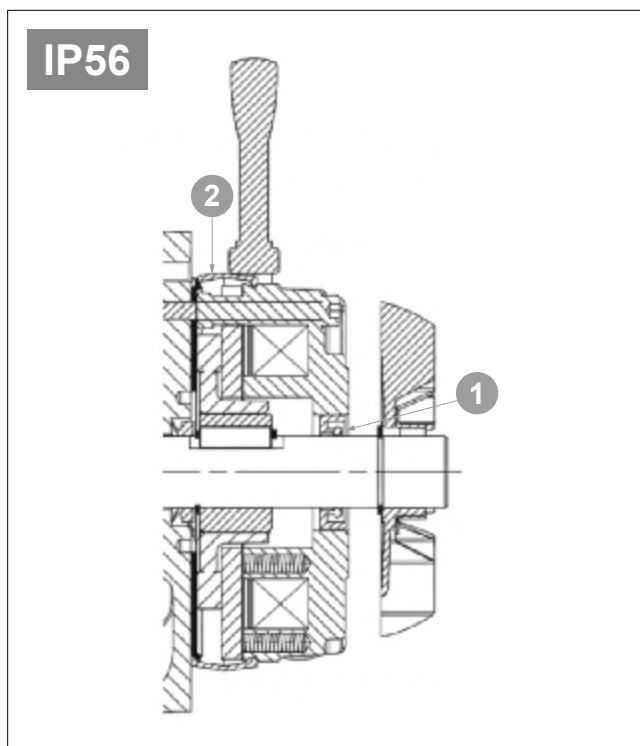
L'assemblage du frein est boulonné directement sur le carter arrière du moteur pour une compacité maximale.

Un moyeu en acier avec dispositif antivibration intégré est monté par rétreint sur l'arbre moteur, permettant au disque de frein de coulisser axialement avec un minimum de bruit et d'usure.

Les freins FDD sont conçus pour un fonctionnement haute performance, assurant un couple fiable et une dissipation d'énergie sécurisée tant lors du maintien statique que du freinage dynamique à haute énergie.

Ils assurent une réponse dynamique élevée et un fonctionnement silencieux, les rendant idéaux pour des environnements industriels exigeants.

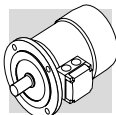
Les caractéristiques de fonctionnement peuvent être optimisées en sélectionnant parmi les options de redresseur NR ou SR disponibles et différentes configurations de câblage pour atteindre le parfait équilibre entre temps de réponse et rendement énergétique.



Les moteurs à frein BXN, MXN et MNN sont fournis avec un indice de protection IP55 standard et il est possible de les configurer avec un IP56 en option.

Si IP56 est sélectionné, les variantes de construction suivantes seront appliquées :

- 1 Bague d'étanchéité à l'extrémité non entraînée de l'arbre moteur
- 2 Joint en caoutchouc étanche à la poussière et à l'eau



M10.2 Alimentation frein séparée

SA

Alimentation CA séparée du frein

Le redresseur de frein est alimenté par une ligne CA indépendante, séparée de l'alimentation du moteur.

FDD - NR/SR - SA : La tension CA nominale pour le redresseur doit être spécifiée (par ex. : SA 400 V CA).

SD

Alimentation CC séparée du frein

La bobine de frein est directement alimentée en CC. Dans cette configuration, le redresseur n'est pas présent.

La tension nominale de la bobine doit être spécifiée (par ex. : SD 24 V CC).

M10.3 Alimentation du frein

230

Alimentation frein FDD

Un redresseur installé dans la boîte à bornes alimente la bobine de frein CC. Le câblage entre le redresseur et la bobine de frein est fourni de série par l'usine.

Le redresseur est généralement fourni comme circuit séparé pour assurer la compatibilité avec les applications alimentées par onduleur et différentes logiques de commande. La connexion à la boîte à bornes du moteur (alimentation directe) peut être effectuée par l'utilisateur si nécessaire, à condition que les niveaux de tension soient compatibles.

La tension d'alimentation du frein est spécifiée dans le tableau suivant et est indépendante de la fréquence du réseau :

Tensions d'alimentation frein FDD-SD

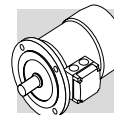
Taille du moteur	Alimentation du moteur	Alimentation du système de freinage	Tension (V CC)
BXN 63 ... BXN 132 MXN 05 ... MXN 40	Plus d'options selon l'enroulement choisi	La bobine de frein est alimentée directement en CC	24
			48
			180
			205

Configurable pour les moteurs alimentés en 50 Hz et 60 Hz.

Tensions d'alimentation frein FDD-SA

Taille du moteur	Alimentation du moteur	Alimentation du système de freinage	Tension (V AC)
BXN 63 ... BXN 132 MXN 05 ... MXN 40	Plus d'options selon l'enroulement et la fréquence choisis	Le redresseur du frein est alimenté par une ligne CA séparée	110
			115
			120
			127
			200
			208
			220
			230
			240
			330
			380
			400
			415
			440
			460
			480
			360-500

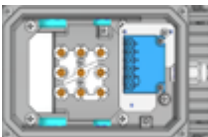
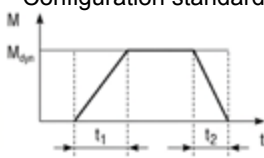
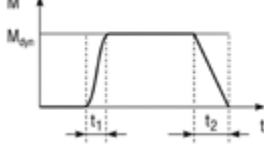
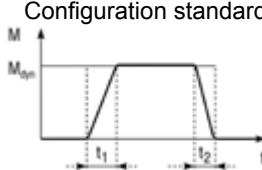
Configurable pour les moteurs alimentés en 50 Hz et 60 Hz.



M10.4 Type de redresseur CA/CC

La bobine de frein FD peut être alimentée directement en CC ou via une connexion CA/CC à travers un redresseur. Un redresseur est un circuit qui convertit la puissance d'entrée en courant alternatif (CA) en courant continu (CC) requis par la bobine de frein ($V_{CC} \sim 0,45 * V_{CA}$ ou $V_{CC} \sim 0,9 * V_{CA}$).

Les moteurs EVOX sont disponibles dans les formes de construction NR et SR, comme détaillé ci-dessous :

			
Taille du moteur	Taille du frein	Variante standard [NR]	Variante en option [SR]
BXN 63	FDD06S	Configuration standard  Configuration Cavalier/Contact 	Configuration standard 
BXN 71	FDD06		
BXN 80	FDD08		
BXN 90	FDD10		
BXN 100	FDD12		
BXN 112	FDD14		
BXN 132	FDD16		

Temps de fonctionnement/commutation des freins à ressort

t_1 Temps d'engagement

t_2 Temps de désengagement (jusqu'à $M = 0,1 M_{dyn}$)

M_{dyn} Couple de freinage à vitesse de rotation constante

Schémas simplifiés pour plus de clarté afin de fournir un aperçu de la logique de fonctionnement du frein. Pour des données techniques détaillées, veuillez vous référer au chapitre *Performance du frein*.

NR

Redresseurs standards

Le NR est le redresseur pont/demi-onde standard utilisé pour fournir la tension CC correcte à la bobine de frein en fonction de l'alimentation CA disponible.

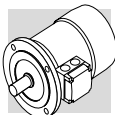
- Commutation rapide : Il dispose d'une borne dédiée pour un contact externe permettant une interruption côté CC (coupe rapide). Cela est essentiel pour réduire les temps de réponse de freinage dans les applications de levage ou les arrêts d'urgence.
- Conformité : certifié cURus pour des tensions jusqu'à 270 V CA. Pour des tensions plus élevées, la forme de construction certifiée URus est disponible.

SR

Redresseur électronique haute performance

Le SR est un redresseur électronique à surexcitation conçu pour des applications haute dynamique. Il optimise les performances du frein grâce à un réglage intelligent du courant.

- Rendement et fiabilité : Le contrôle électronique optimise le réglage du courant (surexcitation), réduisant le stress thermique sur la bobine et permettant des fréquences de commutation élevées.
- Norme mondiale : Entièrement certifié cURus sur toute la plage de tension supportée, garantissant une conformité mondiale sans faille.



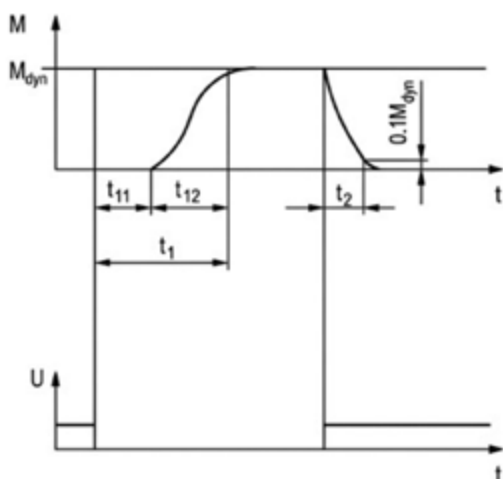
M10.5 Performances du frein

Introduction aux tableaux

Désignation du frein		Temps de retard du frein lors de l'engagement				Temps de montée du couple de freinage				Temps d'engagement du frein				Temps de désengagement du frein (jusqu'à M = 0,1 Mdyn)				Puissance de freinage absorbée à 20 °C				Énergie maximale par actionnement des freins				Énergie de freinage entre deux réglages successifs de l'entrefer			
Désignation moteur		Frein	Temps de commutation / fonctionnement				P	Wmax			W	Inertie	Poids	Couple nominal du frein															
IEC	Compact	ID	t ₁₁	t ₁₂	t ₁	t ₂	10 s/h	100 s/h	1000 s/h		W	Jx10 ⁻⁴	CEI B5	1x Tmot	1.5x Tmot	2x Tmot	Max.												
BXN	MXN		ms				W	KJ			MJ	[kgm²]	[kg]	Nm															
63MA 4	05MA 4	FDD06S	84	196	280	45	20,0	3,0	1,6	0,2	34	2,4	6,3	1	1,3	1,6	3,3												

[Valeurs calculées pour des bobines avec une tension de connexion de 205 V CC à l'entrefer nominal et 0,7 x courant nominal IN, à 20 °C.]

Temps de fonctionnement/commutation des freins à ressort



* Tolérance maximale du couple de freinage $\pm 25\%$

Couple dynamique de frein disponible

Couple statique de frein disponible

Couple recommandé (équivalent à 2 x le couple moteur)

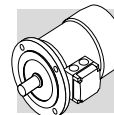


Tableau des performances – Frein CC

Désignation du moteur		Frein	NR				NR (avec coupure rapide activée)				SR (avec coupure rapide activée)				P			Wmax			Inertie			Poids	Couple nominal du frein			
IEC	Compact	ID	t ₁₁	t ₁₂	t ₁	t ₂	t ₁₁	t ₁₂	t ₁	t ₂	t ₁₁	t ₁₂	t ₁	t ₂	10 s/h	100 s/h	1000 s/h	W	Jx10 ⁻⁴	CEI B5	1x Tmot	1.5x Tmot	2x Tmot	Max.				
BXN	MXN		ms				ms				ms				W	KJ		MJ	[kgm²]	[kg]	Nm							
63MA 4	05MA 4	FDD06S	84	196	280	45	15	13	28	45	45	13	58	36	20,0	3,0	1,6	0,2	34	2,4	6,3	1	1,3	1,6	3,3			
63MB 4	05MB 4	FDD06S	84	196	280	45	15	13	28	45	45	13	58	36	20,0	3,0	1,6	0,2	34	3,5	7,4	1,3	2	2,6	3,3			
71MA 4	10MA 4	FDD06	84	196	280	45	15	13	28	45	45	13	58	36	20,0	3,0	1,6	0,2	34	7,4	9,2	1,6	2,3	3,5	6			
71MB 4	10MB 4	FDD06	84	196	280	45	15	13	28	45	45	13	58	36	20,0	3,0	1,6	0,2	34	10,8	11	2,5	4	4,5	6			
80MA 4	20MA 4	FDD08	93	217	310	57	15	16	31	57	45	16	61	46	25,0	7,4	2,95	0,4	87	19,8	14,6	3,5	6	8	12			
80MB 4	20MB 4	FDD08	93	217	310	57	15	16	31	57	45	16	61	46	25,0	7,4	2,95	0,4	87	30,8	18,3	5	7	9	12			
90S 4	25S 4	FDD10	141	329	470	76	28	19	47	76	58	19	77	61	31,5	11,8	4,0	0,5	106	35,8	21,6	7	11	16	23			
90L 4	25L 4	FDD10	141	329	470	76	28	19	47	76	58	19	77	61	31,5	11,8	4,0	0,5	106	39,1	22,6	9	16	23				
100LA 4	30LA 4	FDD12	159	371	530	115	28	25	53	115	58	25	83	92	40,0	22,8	6,2	0,7	212	94	36,5	14	23	32	46			
100LB 4	30LB 4	FDD12	159	371	530	115	28	25	53	115	58	25	83	92	40,0	22,8	6,2	0,7	212	94	36,5	18	32	46				
112M 4	35M 4	FDD14	126	294	420	210	17	25	42	210	47	25	72	168	51,5	28,2	7,3	0,8	230	114,4	45,1	25	40	55	80			
132S 4	40S 4	FDD16	171	399	570	220	27	30	57	220	57	30	87	176	55,5	33,6	8,5	0,95	387	520,4	80,9	35	55	70	125			
132M 4	40M 4	FDD16	171	399	570	220	27	30	57	220	57	30	87	176	55,5	33,6	8,5	0,95	387	520,4	80,9	45	80	100	125			

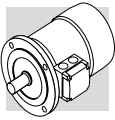
Désignation du moteur		Frein	NR				NR (avec coupure rapide activée)				SR (avec coupure rapide activée)				P				Wmax		Inertie		Poids	Couple nominal du frein			
															10 s/h		100 s/h		1000 s/h		W			Jx10 ⁻⁴		CEI B5	
IEC	Compact	ID	t ₁₁	t ₁₂	t ₁	t ₂	t ₁₁	t ₁₂	t ₁	t ₂	t ₁₁	t ₁₂	t ₁	t ₂	W		KJ		MJ		[kgm ²]	[kg]	Nm				
BXN	MXN		ms				ms				ms				W		KJ		MJ		[kgm ²]	[kg]					
-	05MA 4	FDD06S	84	196	280	45	15	13	28	45	45	13	58	36	20	3,0	1,6	0,2	34	2,4	6,3		1	1,3	1,6	3,3	
-	05MB 4	FDD06S	84	196	280	45	15	13	28	45	45	13	58	36	20	3,0	1,6	0,2	34	3,5	7,4		1,3	2	2,6	3,3	
-	05MC 4	FDD06	84	196	280	45	15	13	28	45	45	13	58	36	20	3,0	1,6	0,2	34	7,4	9,2		2	3	3,5	6	
-	10MA 4	FDD06	84	196	280	45	15	13	28	45	45	13	58	36	20	3,0	1,6	0,2	34	10,8	11		1,6	2,3	3,5	6	
-	10MB 4	FDD06	84	196	280	45	15	13	28	45	45	13	58	36	20	3,0	1,6	0,2	34	19,8	14,6		2,5	4	4,5	6	
-	10MC 4	FDD08	93	217	310	57	15	16	31	57	45	16	61	46	25	7,4	2,95	0,4	87	30,8	18,3		3,5	6	8	12	

* Tolérance maximale du couple de freinage ±25 %

 Couple dynamique de frein disponible

 Couple statique de frein disponible

 Valeur Couple recommandé (équivalent à 2 x le couple moteur)



M10.6 Connexion de frein FDD

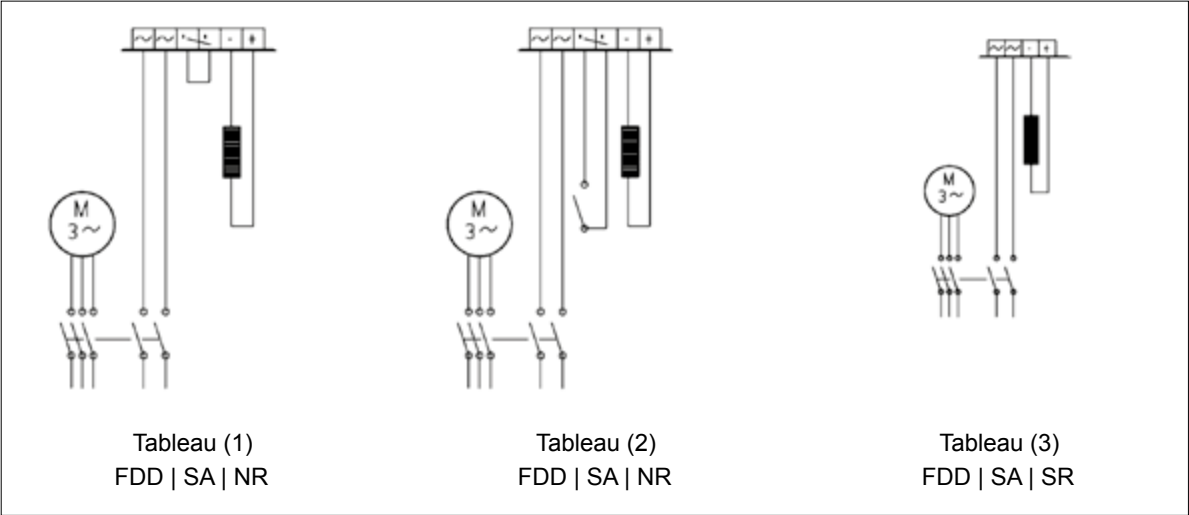
Chaque fois qu'une alimentation séparée pour le frein est requise (par exemple pour le fonctionnement avec onduleur), la connexion au redresseur doit respecter la tension d'enroulement du frein indiquée sur la plaque signalétique du moteur.

En raison de la charge fortement inductive, les contacts utilisés pour la commande de frein doivent appartenir à la classe d'utilisation AC-3 (pour interruption de la ligne CA) ou DC-13 (pour l'interruption de la ligne CC), conformément à la norme CEI 60947-4-1.

Tableau (1) – Bobine de frein avec alimentation séparée et redresseur NR, interruption de la ligne CA.

Tableau (2) – Bobine de frein avec alimentation séparée et redresseur NR, interruption des lignes CA et CC.

Tableau (3) – Bobine de frein avec alimentation séparée et redresseur électronique SR, avec surexcitation intégrée et commutation rapide.



M10.7 Systèmes de déblocage manuel frein

Les freins à ressort de type FDD peuvent être équipés de dispositifs de relâchement manuel en option. Ils sont utilisés pour relâcher manuellement le frein avant toute intervention sur les composants d'une machine ou d'un système entraîné par le moteur.

La disponibilité des différents dispositifs de relâchement est indiquée ci-dessous :

	R	RM
BXN_FDD	BXN 63 ... BXN 132	BXN 63 ... BXN 132

R

Levier avec ressort de rappel

Avec cette option, le levier de déblocage est doté d'un retour automatique, au moyen d'un dispositif option, ressort.

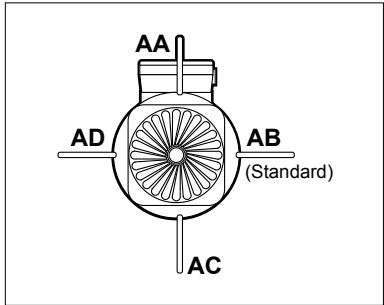
M10.8 Position du levier de déblocage manuel frein

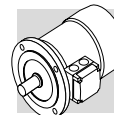
AA

Orientation du levier de déblocage

Sauf indication contraire, le levier de déblocage est situé à 90° de la boîte à bornes – position identifiée par les lettres [AB] sur le schéma de droite – dans le sens horaire pour les options R et RM.

Des orientations différentes, type [AA], [AC] et [AD], peuvent être demandées à condition de préciser la position correspondante.





M11 OPTIONS

M11.1 Démarrage / arrêt progressif

F1

Pour les applications nécessitant une progressivité au cours des phases de démarrage et d'arrêt, un volant - option F1 - est disponible. Son inertie supplémentaire absorbe l'énergie cinétique durant le démarrage et la restitue au moment du freinage, rendant ainsi les phases transitoires plus progressives et graduelles. Le volant est disponible pour les moteurs freins de type BN-BE_FD et M-ME_FD, ses caractéristiques spécifiques détaillées sont indiquées dans le tableau suivant :

(F44)

Données principales relatives au volant d'un moteur de type : BN-BE_FD, M-ME_FD			
		Masse du volant [Kg]	Inertie du volant [Kgm²]
BN 63 - BE 63	M05 - ME05	0,69	0,00063
BN 71 - BE 71	M1 - ME1	1,13	0,00135
BN 80 - BE 80	M2 - ME2	1,67	0,00270
BN 90 S - BN 90 L - BE 90 S - BE 90 LA	—	2,51	0,00530
BN 100 - BE 100	M3 - ME3	3,48	0,00840
BN 112 - BE 112	—	4,82	0,01483
BN 132 S - BN 132 M - BE 132 S - BE 132 M	M4 - ME4	6,19	0,02580

M11.2 Filtre capacitif

CF

Un filtre capacitif en option est disponible uniquement pour les moteurs freins de type FD. S'ils sont équipés du filtre capacitif approprié en amont du redresseur (option CF), les moteurs rentrent dans les limites d'émission prévues par la Norme EN61000-6-3:2007 « Compatibilité électromagnétique – Norme générique sur l'émission – Partie 6-3 : Environnements résidentiels, commerciaux et de l'industrie légère ».

Les moteurs BX≥200LA et BX≥200LAK respectent les limites d'émission définies par la norme EN 61000-6-3:2007 « Compatibilité électromagnétique - Norme générique sur l'émission - Partie 6-3 : Environnements résidentiels, commerciaux et de l'industrie légère ».

M11.3 Dispositifs de protection thermique

Outre la protection garantie par l'interrupteur magnétothermique, les moteurs peuvent être équipés de sondes thermiques incorporées pour protéger le bobinage contre une surchauffe excessive due par exemple à une ventilation insuffisante ou un service intermittent.

Cette protection supplémentaire devrait toujours être prévue pour les moteurs servoventilés (IC416).

M11.4 Thermistances

E3

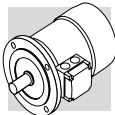
Ce sont des semiconducteurs qui présentent une variation rapide de résistance à proximité de la température nominale d'intervention (150 °C). L'évolution de la caractéristique $R = f(T)$ est défini par les Normes DIN 44081, IEC 34-11. On utilise normalement des thermistances à coefficient de température positif (également appelées PTC, « résistances à conducteur froid »). Les thermistances ne peuvent pas commander directement les relais et doivent donc être branchées à un appareil de déclenchement adapté. Avec cette protection, trois sondes (reliées en série), sont insérées dans le bobinage avec extrémités disponibles dans le bornier auxiliaire.

K1

Il s'agit d'un sous-groupe des thermistances PTC, dont les caractéristiques de construction permettent de les utiliser en tant que capteurs de température ayant un coefficient de température positif en fonction de la résistance. La température d'exploitation est de : 0 °C ... +260 °C.

Les thermistances ne peuvent pas commander directement les relais et doivent donc être branchées à un appareil de déclenchement adapté.

Les bornes (polarisées) d'une KTY 84-130 sont disponibles dans un bornier auxiliaire.



M11.5 Sondes thermiques bimétalliques

D3

Ces types de dispositifs de protection sont équipés d'un disque bimétallique. Lorsque la température nominale d'intervention (150 °C) est atteinte, commutent les contacts depuis leur position de repos initiale.

Avec la diminution de la température, le disque et les contacts reprennent automatiquement la position de repos.

Normalement, on utilise trois sondes bimétalliques en série avec contacts normalement fermés et extrémités disponibles dans un bornier auxiliaire.

M11.6 Capteurs de température

Les thermomètres à résistance à éléments en platine de type PT100 et PT1000 sont utilisés partout dans le domaine de la mesure industrielle de la température, notamment pour mesurer des températures faibles à moyennes.

Ils présentent l'avantage d'être conformes aux normes internationales (IEC 751 / DIN EN 60 751), d'offrir une bonne stabilité à long terme, un comportement fiable lors des cycles thermiques et une large plage de température, ainsi qu'une grande précision de mesure et une excellente linéarité.

Le thermomètre à résistance est équipé d'une puce servant de capteur de température, dont la résistance varie en relation avec la température selon une série de valeurs de base reproductibles. Les variations de résistance se traduisent par des variations de courant.

PT100

À 0 °C, la résistance nominale est réglée à 100 Ω

M11.7 Moteur avec connecteur

CON

Trois types de connecteurs sont disponibles (CON 1, CON 2, CON 3), qui peuvent être installés dans deux positions de montage : côté droit boîtier couvre-bornier (C1D, C2D, C3D) ; côté gauche boîtier couvre-bornier (C1S, C2S, C3S).

L'option CON est prévue pour les moteurs BN et M mono vitesse (2, 4, 6, 8, pôles), BX / BE et MX / ME dans les tailles indiquées dans le tableau suivant. Sont exclues toutes les versions à deux vitesses.

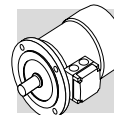
Les connecteurs CON 1 / CON 2 sont disponibles pour les moteurs BX-BE/MX-ME et BN/M dans la version sans frein et pour les moteurs freins dotés d'un frein à courant continu FD, dans les tailles indiquées dans le tableau suivant.

Le connecteur mâle (doté d'une fiche) est fixé sur le moteur, le connecteur femelle est exclu de la fourniture. Avec l'option CON, la connexion du bobinage est toujours en Y.

Pour des moteurs dotés d'une servo-ventilation (option U1), l'alimentation du ventilateur est prévue dans le bornier séparé, fixé au capot du ventilateur. Dans les moteurs dotés d'un codeur (options EN1...EN6), la connexion du codeur se fait par le biais d'un câble volant non connecté au connecteur.

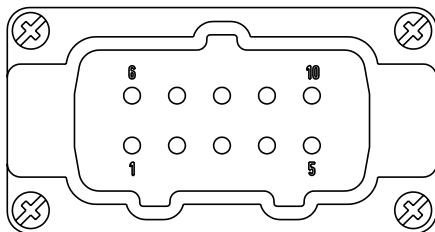
L'option CON n'est pas applicable aux moteurs dotés d'un frein en courant alternatif FA.

L'option CON n'est pas compatible avec les options U2, CUS, IC.

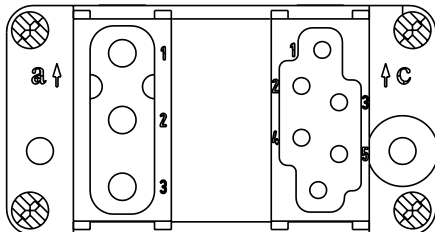


Caractéristiques techniques

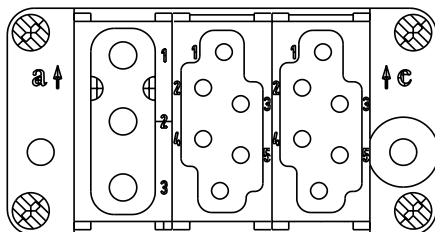
(F45)

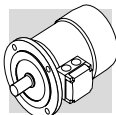
Option	CON 1
Taille du moteur	BX 63 ... BX 112 / MX05, MX3 / BE 63 ... BE 112 / ME05 ... ME4 BN 63 ... BN 112 / M05 ... M3
Vue du connecteur	
Type de connecteur	Harting Han 10ES
Carter	Han EMC 10B à 2 leviers
Nombre de broches - courant nominal	10 x 16A
Tension	500 Vca
Connexion de contact	Bornes à vis

(F46)

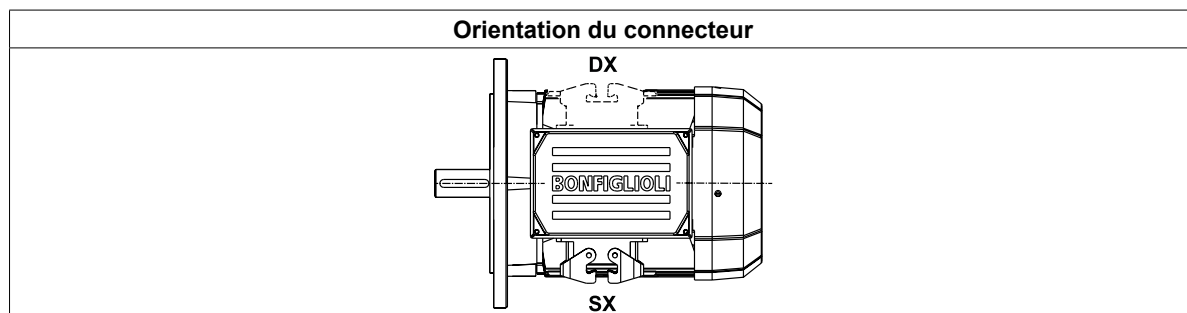
Option	CON 2
Taille du moteur	BX 63 ... BX 132 / MX05, MX3 / BE 63 ... BE 132 / ME05 ... ME4 BN 63 ... BN 160MR / M05 ... M4
Vue du connecteur	
Type de connecteur	Harting Han Modular
Carter	Han EMC 10B à 2 leviers
Type de module	Module C + Module E + Module E
Nombre de broches - courant nominal	3 x 36A / 6 x 16A
Tension	500 Vca
Connexion de contact	Contacts à sertir

(F47)

Option	CON 3
Taille du moteur	BX 63 ... BX 132M / MX05, MX3 / BE 63 ... BE 132 / ME05 ... ME4 / BN 63 ... BN 160MR / M05 ... M4
Vue du connecteur	
Type de connecteur	Harting Han Modular
Carter	Han EMC 10B à 2 leviers
Type de module	Module C + Module E + Module E
Nombre de broches - courant nominal	3 x 36A / 6 + 6 x 16A
Tension	500 Vca
Connexion de contact	Contacts à sertir



(F48)



(F49)

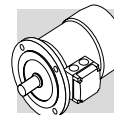
Dimensions des moteurs sans frein						
		AD (mm)	AF (mm)	AH (mm)	LL (mm)	V ^(*) (mm)
BX 63 - BE 63 - BN 63	MX05 - ME05 - M05	136	110	45	165	4,5
BX 71 - BE 71 - BN 71	MX1 - ME1 - M1	149	110	45	165	15,5
BX 80 - BE 80 - BN 80	MX2 - ME2 - M2	160	110	45	165	16,5
BX 90 - BE 90 - BN 90	MX3	162	110	45	165	31,5
BX 100 - BE 100 - BN 100	MX3 - ME3 - M3	171	110	45	165	37,5
BX 112 - BE 112 - BN 112	MX4	186	110	45	165	39
BX 132 - BE 132 - BN 132	MX4 - ME4 - M4	210	140	45	188	45,5
BN 160MR	—	210	140	45	188	161

(*) Dimension valable uniquement pour les moteurs BX, BE et BN.

(F50)

Dimensions des moteurs avec frein FD						
		AD (mm)	AF (mm)	AH (mm)	LL (mm)	V ^(*) (mm)
BX 63 - BE 63 - BN 63	MX05 - ME05 - M05	136	110	45	165	4,5
BX 71 - BE 71 - BN 71	MX1 - ME1 - M1	149	110	45	165	1,5
BX 80 - BE 80 - BN 80	MX2 - ME2 - M2	160	110	45	165	18,5
BX 90 - BE 90 - BN 90	—	162	110	45	165	39,5
BX 100 - BE 100 - BN 100	MX3 - ME3 - M3	171	110	45	165	63,5
BX 112 - BE 112 - BN 112	—	186	110	45	165	75
BX 132 - BE 132 - BN 132	MX4 - ME4 - M4	210	140	45	188	122
BN 160MR	—	210	140	45	188	161

(*) Dimension valable uniquement pour les moteurs BN et BX



M11.8 Contrôle du fonctionnement du frein

Cette variante prévoit l'installation de capteurs électromécaniques destinés à fournir des informations en temps réel sur l'état du frein.

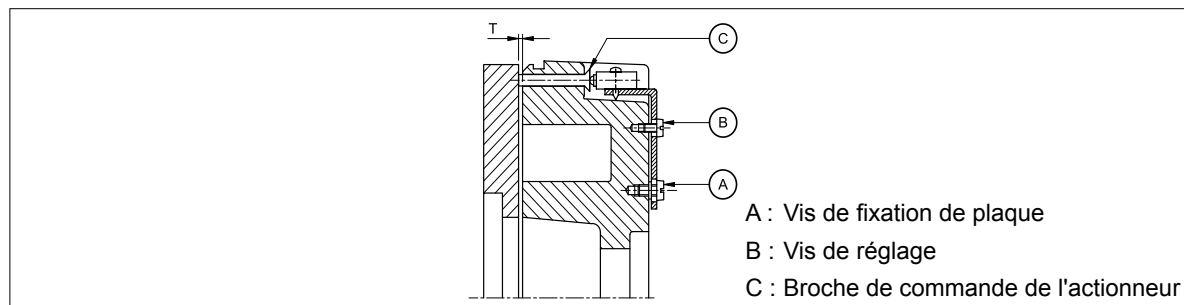
MSW

Le micro-interrupteur peut être réglé pour signaler l'attraction/le relâchement de l'armature mobile ou pour signaler que la valeur maximale admissible de l'entrefer est atteinte.

L'option MSW est disponible pour tous les freins FD03...FD09.

Le micro-interrupteur est doté de trois bornes NC, NO, COM. Sur la figure ci-dessous sont représentés les principaux composants du frein équipé du micro-interrupteur.

(F51)



MRM

Cette variante permet la surveillance du déblocage du frein. Elle détecte la position de la plaque d'armature afin de confirmer si le frein est physiquement engagé ou débloqué. Tous les couples de freinage standards sont disponibles.

	Taille BXN	Taille du frein	MRM Surveillance du déblocage
	63	FDD 06S	
	71	FDD 06	
	80	FDD 08	
	90	FDD 10	•
	100	FDD 12	•
	112	FDD 14	•
	132	FDD 16	•

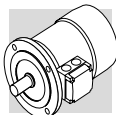
MWM

Cette variante permet la surveillance de l'usure du frein. Elle surveille la largeur de l'entrefer. Elle déclenche un signal lorsque l'entrefer dépasse la tolérance maximale en raison de l'usure du matériau de friction, indiquant qu'une opération de maintenance ou de réglage est nécessaire.

	Taille BXN	Taille du frein	MWM Surveillance de l'usure
	63	FDD 06S	
	71	FDD 06	
	80	FDD 08	
	90	FDD 10	
	100	FDD 12	•
	112	FDD 14	•
	132	FDD 16	•

Couple de freinage disponible sur MWM

		1 x T_Mot	2 x T_Mot
BXN 100 LA	BFK 12	14	32
BXN 100 LB	BFK 12	18	46
BXN 112 M	BFK 14	25	55
BXN 132 S	BFK 16	35	70
BXN 132 M	BFK 16	45	100



M11.9 Entrée de câbles supplémentaire pour moteurs freins

IC

Le couvercle du bornier des moteurs freins BN 63 ... BN 160MR - M05 ... M4L prévoit deux entrées de câble supplémentaires M16 x 1,5 (une par côté).

Le couvercle du bornier des moteurs freins BN 160 ... BN 200 - M5 prévoit une entrée de câble supplémentaire M16 x 1,5 à côté de l'entrée de câble de frein.

M11.10 Réchauffeurs anticondensation

H1

NH1

Les moteurs fonctionnant dans des milieux très humides et/ou en présence de fortes plages thermiques peuvent être équipés d'une résistance anticondensation.

L'alimentation monophasée est prévue par l'intermédiaire d'une boîte à bornes auxiliaire située dans le bornier principal.

Les puissances absorbées sont indiquées ci-dessous :

(F53)

	H1	NH1
	1~ 230V ± 10% P [W]	1~ 115V ± 10% P [W]
BX 63 ... BX 80 BE 63 ... BE 80 BN 56 ... BN 80	10	10
BX 90 ... BX 132 BE 90 ... BE 132MB BN 90 ... BN 160MR	25	25
BX 160...BX 180 BX 200K ... BX 250K BE 160, BE 180 BN 160, BN 200	50	50
BY 280K BX 280K	60	60
BY 315K ... BY 355K BX 315K ... BX 355K	120	120

Avertissement !

Durant le fonctionnement du moteur, la résistance anticondensation ne doit jamais être alimentée.

M11.11 Tropicalisation

TP

Sur demande, en spécifiant l'option **TP**, les bobinages du moteur obtiennent une protection supplémentaire qui les rend aptes au fonctionnement dans des conditions de température et d'humidité élevées.

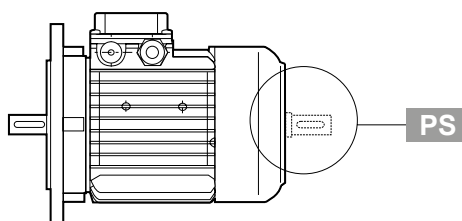
M11.12 Arbre à double extrémité

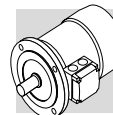
PS

L'option exclut les variantes RC, TC, U1, U2, EN1, EN2, EN3, EN4, EN5, EN6, EN7, EN8.

Les dimensions figurent sur les planches de dimensions des moteurs.

(F52)





M11.13 Dispositif de butée

AL

AR

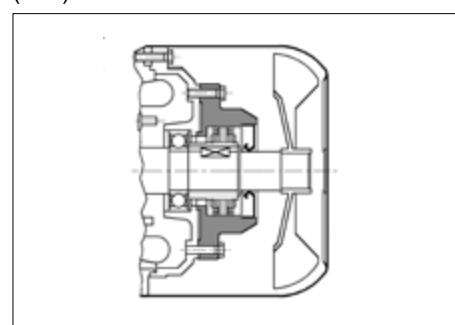
Pour les applications dans lesquelles il faut éviter le retour en arrière, il est possible d'utiliser des moteurs équipés d'un dispositif anti-retour (disponible uniquement pour les séries MX/ME et M). Tout en permettant la rotation dans le sens souhaité, ce dispositif se déclenche instantanément en cas de coupure de courant, empêchant ainsi l'arbre de tourner en sens inverse. Le dispositif anti-retour est lubrifié à vie avec une graisse spéciale destinée à cette application spécifique. Lors de la commande, les clients doivent indiquer le sens de rotation souhaité : AL ou AR.

N'utilisez jamais le dispositif anti-retour pour empêcher une rotation inverse due à un problème de connexion électrique. Le tableau (F62) présente les couples de serrage nominaux et maximaux des dispositifs anti-retour. Un schéma du dispositif figure dans le tableau (F63). Les dimensions d'encombrement sont identiques à celles du moteur frein correspondant. Le sens de rotation libre est décrit dans la section « OPTIONS DU MOTEUR » des chapitres spécialement consacrés aux réducteurs.

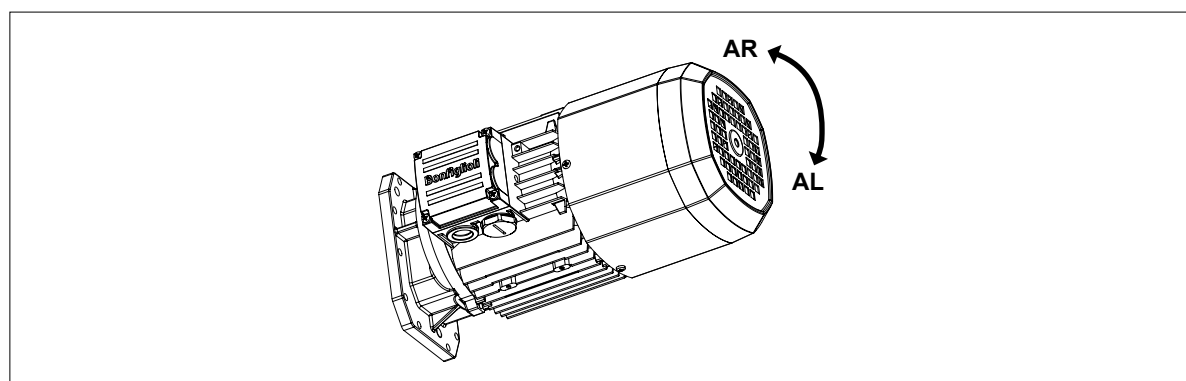
(F54)

	Couple de blocage nominal	Couple de blocage maximal	Vitesse de déblocage
	[Nm]	[Nm]	[tr/min]
MX1 - ME1 - M1	6	10	750
MX2 - ME2 - M2	16	27	650
MX3 - ME3 - M3	54	92	520
MX4 - ME4 - M4	110	205	430

(F55)



Le sens de rotation libre autorisé pour les options AR et AL est indiqué ci-dessous :



M11.14 Équilibrage du rotor

RV

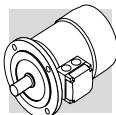
En cas d'exigence particulière de faible niveau de bruit, l'exécution RV est disponible en option, elle garantit des vibrations réduites, de degré B.

Le tableau ci-dessous indique les valeurs de la vitesse efficace de vibration pour un équilibrage normal (A) et en degré B.

(F56)

Niveau de vibrations	Vitesse angulaire n [min ⁻¹]	Limites de la vitesse vibratoire (mm/s) BY 280K ≤ H ≤ BY 355K BX 63 ≤ H ≤ BX 355MK BE 63 ≤ H ≤ BE 180L BN 56 ≤ H ≤ BN 200
A	600 < n < 3600	1.6
B	600 < n < 3600	0.70

Les valeurs se réfèrent à des mesures avec moteur librement suspendu et fonctionnement à vide, tolérance ±10%.



M11.15 Ventilation

Les moteurs sont refroidis par ventilation externe (IC 411 selon CEI EN 60034-6) et sont équipés d'un ventilateur radial en plastique fonctionnant dans les deux sens de rotation.

L'installation doit garantir une distance minimum entre le capot du ventilateur et le mur le plus proche de façon à ne pas créer d'empêchement à la circulation de l'air ainsi que pour permettre les interventions d'entretien ordinaire du moteur et, si présent, du frein.

Le refroidissement est réalisé au moyen d'un ventilateur axial avec alimentation indépendante monté sur la capot cache-ventilateur (méthode de refroidissement IC 416).

Cette exécution est utilisée en cas de commande du moteur par variateur de fréquence dans le but d'étendre aussi la plage de fonctionnement à couple constant aux faibles vitesses ou lorsque des fréquences de démarrage élevées sont nécessaires.

Les moteurs avec arbre sortant des deux côtés (option PS) sont exclus de cette option.

En variante, sont disponibles deux exécutions alternatives, dénommées U1 et U2, ayant le même encombrement dans le sens longitudinal. Pour les deux exécutions, la majoration de la longueur du capot cache-ventilateur (ΔL) est indiquée dans le tableau suivant. Dimensions totales à calculer d'après les planches de dimensions des moteurs.

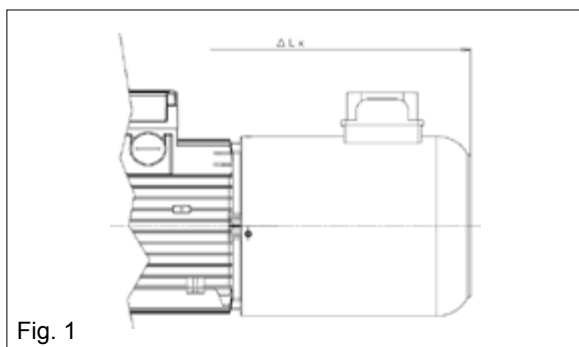


Fig. 1

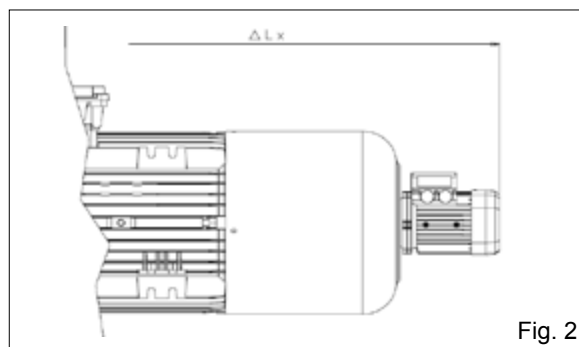


Fig. 2

(F57)

Augmentation de longueur pour les moteurs servo-ventilés					
		ΔL_1	ΔL_2	ΔL_3	ΔL_4
BX 71 - BE 71 - BN 71	MX 1 - ME 1 - M 1	91	30	91	65
BN 80 - BE 80	M 2 - ME 2	125	54	125	79
BX 80 ⁽¹⁾	MX 2 ⁽¹⁾	80	67	80	67
BN 90 - BE 90 - BX 90	MX 2 ⁽²⁾	132	49	132	85
BN 100 - BE 100	M 3 - ME 3	117	29	117	89
—	MX 3SA - MX 3SB	117	88	117	88
BX 100	MX 3LA - MX 3LB	135	88	135	88
BN 112 - BE 112	—	127	33	127	83
BX 112	—	136	90	136	90
BN 132 - BE 132 - BN 160MR	M 4 - ME 4	158	51	158	122
BE 132MB	M 4LC - ME 4LB	123	27	123	98
BX 132SB ⁽¹⁾	MX 4SA - MX 4SB ⁽¹⁾	158	142	158	122
BX 132MA ⁽¹⁾	MX 4LA ⁽¹⁾	125	118	98	118
BX 132 ⁽²⁾	MX 4LA ⁽²⁾ - MX 4SB ⁽²⁾	171	83	171	100
BN 160 - BE 160	M 5 - ME 5	181	181	253	211
BX 160	MX 5	315	211	249	211
BN 180M	—	181	181	253	211
BN 180L - BE 180 - BN 200	—	181	181	263	211
BX 180	—	341	201	263	201
BX 200K	—	260	260	385	440
BY 225K - BY 250K	—	320	320	405	386
BX 225K - BX 250K	—	320	320	405	386
BY 280K - BY 315K	—	430	430	580	460
BX 280K - BX 315K	—	430	430	580	460
BY 355K	—	640	640	775	640
BX 355K	—	640	640	775	640

Fig. 1

Fig. 2

ΔL_1 = Moteur standard + U1 - écart par rapport au standard.

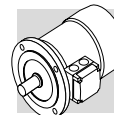
ΔL_2 = Moteur frein + U1 - écart par rapport à FD.

ΔL_3 = Moteur standard + codeur + U1 - écart par rapport au standard.

ΔL_4 = Moteur frein + Codeur + U1 - écart par rapport à FD.

(1) = ni CUS ni NBR.

(2) = CUS ou NBR



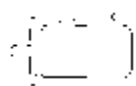
U1

Bornes d'alimentation du ventilateur dans un bornier séparé.

Dans les moteurs freins de taille BX 71 ... BX 160 - BE 71 ... BE 160 - BN 71 ... BN 160MR, MX1 - MX5 - ME1 ... ME5 - M1 ... M5 avec **U1**, le levier de déverrouillage ne peut pas être placé en position AA.

Cette option peut être sélectionnée pour les moteurs conformes aux normes CSA et UL (option CUS) uniquement pour les tailles BX ≥ 200K.

(F58)



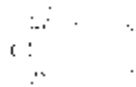
		V c.a. ±10 %	Hz	P [W]	I [A]
BX 71 - BE 71 - BN 71	MX1 - ME1 - M1	1 ~ 230	50 / 60	22	0.12
BX 80 - BE 80 BN 80	MX2 - ME2 M2			22	0.12
BX 90 - BE 90 BN 90	—			40	0.30
BX 100 - BE 100 BN 100	MX3 - ME3 M3			50	0.25
BX 112 - BE 112 BN 112	—	3 ~ 230Δ / 400Y	50 / 60	50	0.26 / 0.15
BX 132 - BE 132 BN 132 ... BN 160MR	MX4 - ME4 M4L			110	0.38 / 0.22
BX 160 - BE 160 BN 160M ... BN 180M	MX5 - ME5 M5			180	1.23 / 0.71
BX 180 - BE 180 BN 180L ... BN 200L	—			250	1.39 / 0.80
BX 200K ... BX 250K	—	3 ~ 400Δ / 690Y	50	250	0.64
BY 280K .. BY 315K BX 280K ... BX 315MK	—			750	1.7
BY 315K .. BY 355K BX 315LK ... BX 355SK	—			1500	3.3
BY 355K BX 355MK	—			3000	6.1

U2

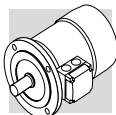
Bornes d'alimentation du ventilateur dans le bornier principal du moteur.

L'option **U2** n'est pas applicable aux moteurs BX, BE, MX, ME et aux moteurs avec l'option CUS (conforme aux normes CSA et UL).

(F59)



		V c.a. ±10 %	Hz	P [W]	I [A]
BN 71	M1	1 ~ 230	50 / 60	22	0.12
BN 80	M2			22	0.12
BN 90	—			40	0.30
BN 100	M3	40		0.26 / 0.09	
BN 112	—	50		0.26 / 0.15	
BN 132 ... BN 160MR	M4L	110		0.38 / 0.22	



M11.16 Capot contre la pluie

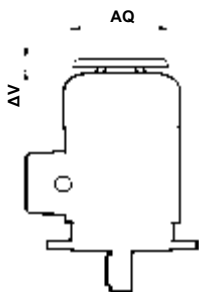
RC

Le capot contre la pluie protège le moteur des gouttes d'eau et empêche la pénétration de corps étrangers. Il est recommandé d'installer le moteur en position verticale, l'arbre orienté vers le bas.

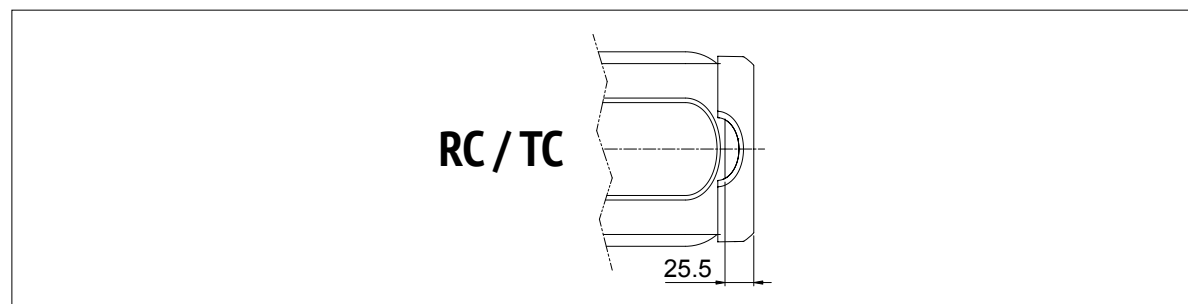
Les dimensions à ajouter sont indiquées dans le tableau suivant.

Le capot anti-pluie n'est pas compatible avec les variantes PS, EN1, EN2, EN3, EN4, EN5, EN6.

(F60)

		AQ	ΔV	
BX 63 - BE 63 - BN 63	MX 05 - ME 05 - M 05	118	24	
BX 71 - BE 71 - BN 71	MX1 - ME1 - M1	134	27	
BX 80 - BE 80 BN 80	MX2 - ME2 M2	152	25	
BX 90 - BE 90 BN 90	—	168	30	
BX 100 - BE 100 BN 100	MX3 - ME3 M3	190	28	
BX 112 - BE 112 BN 112	—	211	32	
BX 132 - BE 132 BN 132 ... BN 160MR	MX4 - ME4 M4	254	32	
BX 160 - BE 160 BN 160M ... BN 180M	MX5 - ME5 M5	302	36	
BX 180 - BE 180 BN 180L ... BN 200L	—	340	36	
BX 200K	—	423	55	
BX 225K	—	465	55	
BX 250K	—	514	55	
BX 280K BY 280K	—	567	100	
BX 315K BY 315K	—	645	100	
BX 355K BY 355K	—	740	120	

Pour RC/TC sur les moteurs BXN/MXN, voir le schéma ci-dessous.



M11.17 Capot textile

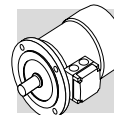
TC

La variante du capot type TC est à spécifier lorsque le moteur est installé dans des sites de l'industrie textile, où sont présents des filaments qui pourraient obstruer la grille du cache-ventilateur et empêcher le flux régulier de l'air de refroidissement.

L'option exclut les variantes EN1, EN2, EN3, EN4, EN5, EN6, PS, U1, U2.

L'encombrement total est identique à celui du capot type RC.

L'option TC n'est pas disponible pour les moteurs BX et BY.



M11.18 Codeurs

Les moteurs peuvent être dotés de six types de codeurs différents, décrits ci-après.

Le montage du codeur exclut les exécutions avec arbre à double extrémité (PS) et les capots contre la pluie (RC, TC).

EN1

Codeur incrémental, $V_{IN} = 5 \text{ V}$, sortie line-driver RS 422.

EN2

Codeur incrémental, $V_{IN} = 10\text{-}30 \text{ V}$, sortie line-driver RS 422.

EN3

Codeur incrémental, $V_{IN} = 12\text{-}30 \text{ V}$, sortie push-pull 12-30 V.

EN4

Codeur sin/cos, $V_{IN} = 4,5\text{-}5,5 \text{ V}$, sortie sinus 0.5VPP.

EN5

Codeur absolu monotour, interface HIPERFACE®, $V_{IN} = 7\text{-}12 \text{ V}$.

EN6

Codeur absolu multitour, interface HIPERFACE®, $V_{IN} = 7\text{-}12 \text{ V}$.

EN7

Codeur incrémental Heavy Duty, $V_{IN} = 12\text{-}30 \text{ V}$, sortie push-pull 12-30 V.

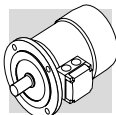
EN8

Codeur incrémental Heavy Duty, $V_{IN} = 12\text{-}30 \text{ V}$, sortie push-pull 9-30 V.

Note : EN7 et EN8 disponibles uniquement pour BY $\geq 280\text{K}$ et BX $\geq 200\text{K}$

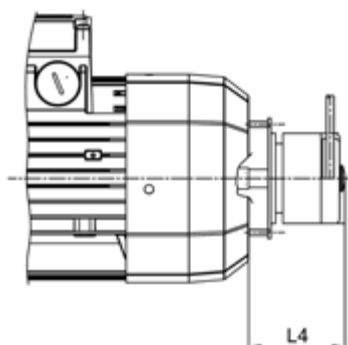
(F61)

	EN1	EN2	EN3	EN4	EN5	EN6	EN7	EN8
Interface	TTL/RS-422	TTL/RS-422	HTL pu-sh-pull	Sinus 0,5 VPP	HIPERFACE®	HIPERFACE®	HTL pu-sh-pull	HTL pu-sh-pull
Tension d'alimentation [V]	4...6	10...30	12...30	4.4...5.5	7...12	7...12	9...30	
Tension de sortie [V]	5	5	12...30	—	—	—	9...30	
Courant de fonctionnement à vide [mA]	120	100	100	40	80	80	80	
Nombre d'impulsions par tour	1024							2048
Pas par tour	—	—	—	—	15 bits	15 bits	-	-
Tours	—	—	—	—	—	12 bits	-	-
Nombre de signaux	6 (A, B, Z + signaux inversés)			6 (cos-, cos+, sin-, sin+, Z, Z̄)	—	—	6	6
Fréquence de sortie maxi [kHz]	600			200			200	
Vitesse maxi [tr/min]	6 000 (9 000 tr/min pendant 10 s)							6000
Plage de température [°C]	-30 ... +100							-20 ... +85
Classes de protection	IP 65							IP67



(F62)

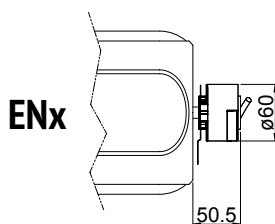
EN1, EN2, EN3, EN4, EN5, EN6, EN7, EN8



		L4
BN 63 ... BN 200	M05 ... M5	65
BE 63... BE180	ME05 ... ME5L	65
BX 63 ... BX 180	MX05 ... MX5L	65
BY 280K BX 200K ... BX 280K	—	100
BY 315K ... BY 355K BX 315K ... BX 355K	—	100

Si la variante avec codeur (option EN_) est spécifiée sur les moteurs, en combinaison avec le refroidissement par ventilateur indépendant (options U1, U2), la longueur supplémentaire du moteur correspond à celle indiquée dans le chapitre M12.15 du catalogue.

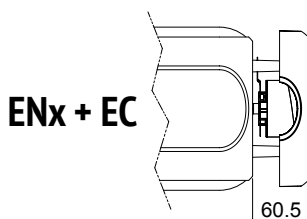
Pour la variante EN sur la série de moteurs BXN/MXN, voir le schéma ci-dessous.

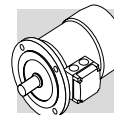


M11.19 EC - Capot pour codeur

EC

L'option EC est une variante de capot spécialement conçue pour nos codeurs. Elle les protège contre les chocs et peut contribuer à prolonger leur durée de vie.





M11.20 Roulements isolés

IB

Lorsque l'option IB est sélectionnée, le moteur est équipé de roulements isolés du côté utilisateur. Cela évite les dommages prématurés aux roulements causés par la circulation de courants à haute fréquence.

NOTE : cette option est disponible pour les moteurs BY...K ≥ 280 et BX...K ≥ 280 , et est obligatoire lorsque le moteur est alimenté par un variateur.

M11.21 Montage Vertical

VM

NOTE : cette option est obligatoire pour les moteurs BY...K ≥ 280 et BX...K ≥ 200 , si le montage est vertical.

Lorsque l'option VM est sélectionnée, le moteur est fourni avec des fonctionnalités de construction supplémentaires.

De plus, la position de montage verticale est indiquée sur la plaque signalétique.

M11.22 Protection de surface

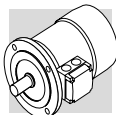
C_

Lorsque qu'aucune classe de protection n'est requise, les surfaces (ferreuses) des moteurs fournissent une protection minimale de classe C2 (UNI EN ISO 12944-2). Afin d'améliorer la résistance à la corrosion atmosphérique, les moteurs peuvent être fournis avec une protection de surface C3 et C4.

(F63)

PROTECTION DE SURFACE	Environnements types	Température de surface maximale	Classe de corrosion conformément à UNI EN ISO 12944-2
C3	Environnements urbains et industriels présentant une humidité relative pouvant atteindre 100 % (pollution atmosphérique modérée)	120°C	C3
C4	Zones industrielles, zones côtières, usines chimiques, avec une humidité relative pouvant atteindre 100 % (forte pollution atmosphérique)	120°C	C4
C5M	Zones côtières et zones en mer présentant une forte salinité.	120°C	C5M

Les moteurs avec une protection optionnelle en classes C3 ou C4 sont disponibles dans plusieurs teintes. Si aucune teinte spécifique n'est requise (voir l'option « PEINTURE »), les moteurs seront réalisés en RAL 7042 pour les BN/M, BE/ME et BX $\leq$ 180/MX et en Munsell bleu 8B 4.5/3.25 pour les BX...K ≥ 200 et BY...K ≥ 280 . Les moteurs peuvent également être fournis avec une protection de surface pour une corrosivité en classe C5 en accord avec UNI EN ISO 12944-2. Contacter notre Service Technique pour plus de détails.



M11.23 Peinture

RAL

Les réducteurs avec une protection optionnelle en classe C3 ou C4 sont disponibles dans les teintes indiquées dans le tableau suivant.

(F64)

PEINTURE	Couleur	numéro RAL
RAL7042*	Gris signalisation A	7042
RAL5010	Bleu Gentiane	5010
RAL9005	Noir foncé	9005
RAL9006	Aluminium blanc	9006
RAL9010	Blanc pur	9010
Bleu Munsell 8B* 4.5/3.25	Bleu	MUNSELL 8B 4.5/3.25
RAL7035	Gris clair	7035
RAL7001	Gris argent	7001
RAL5015	Bleu ciel	5015
RAL7037	Gris poussière	7037
RAL5024	Bleu pastel	5024

* Les moteurs BX...K ≥ 200 et BY...K ≥ 280 sont fournis de série dans cette couleur avec un indice de protection C3, sauf indication contraire.

NOTE – Les options « PEINTURE » peuvent seulement être spécifiées en accord avec les options « PROTECTION DE SURFACE ».

M11.24 Preuves documentaires

ACM

Certificat de conformité des moteurs

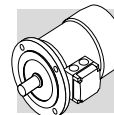
Document dont la délivrance atteste de la conformité du produit à la commande et de la construction de celui-ci conformément aux procédures standard de traitement et de contrôle prévues par le système de Qualité Bonfiglioli Riduttori.

Note : Non disponible pour les modèles BX...K ≥ 200 et BY...K ≥ 280

CC

Certificat d'inspection

La spécification implique la réalisation de vérifications de conformité à la commande, des contrôles visuels généraux et des vérifications instrumentales des caractéristiques électriques en fonctionnement à vide. La vérification s'applique à un échantillon statistique du lot d'expédition.



M12 TABLE DE CORRESPONDANCE DES MOTEURS

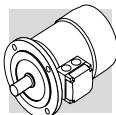
M12.1 Moteurs à 50 Hz

(F66)

2 pôles							
Classe de rendement		IE1	IE2	IE3	IE1	IE2	IE3
Pn [kW]	0.06						
	0.09						
	0.12						
	0.18	BN 63A 2			M 05A 2		
	0.25	BN 63B 2			M 05B 2		
	0.37	BN 71A 2			M 05C 2		
	0.55	BN 71B 2			M 1SD 2		
	0.75	BN 71C 2 BN 80A 2	BE 80A 2		M 1LA 2	ME 2SA 2	
	1.1	BN 80B 2	BE 80B 2		M 2SA 2	ME 2SB 2	
	1.5	BN 90SA 2	BE 90SA 2		M 2SB 2		
	1.85	BN 90SB 2					
	2.2	BN 90L 2	BE 90L 2		M 3SA 2		
	3	BN 100L 2	BE 100L 2		M 3LA 2	ME 3LB 2	
	4	BN 112M 2	BE 112M 2		M 3LB 2		
	5.5	BN 132SA 2	BE 132SA 2		M 4SA 2	ME 4SA 2	
	7.5	BN 132SB 2	BE 132SB 2		M 4SB 2	ME 4LA 2	
	9.2	BN 132M 2	BE 132MB 2		M 4LA 2	ME 4LB 2	
	11	BN 160MR 2 BN 160M 2	BE 160MA 2		M 4LC 2	ME 5SA 2	
	15	BN 160MB 2	BE 160MB 2		M 5SB 2	ME 5SB 2	
	18.5	BN 160L 2	BE 160L 2		M 5SC 2	ME 5LA 2	
	22	BN 180M 2			M 5LA 2		
	30	BN 200LA 2					

(F65)

4 pôles								
Classe de rendement		IE1	IE2	IE3	IE4	IE1	IE2	IE3
Pn [kW]	0.06	BN 56A 4						
	0.09	BN 56B 4				M 0B 4		
	0.12	BN 63A 4	BE 63A 4	BX 63A 4		M 05A 4	ME 05A 4	MX 05A 4
	0.18	BN 63B 4	BE 63B 4	BX 63B 4		M 05B 4	ME 05B 4	MX 05B 4
	0.25	BN 63C 4 BN 71A 4	BE 71A 4	BX 63C 4 BX 71A 4		M 05C 4	ME 1SA 4	BX 1SA 4
	0.37	BN 71B 4	BE 71B 4	BX 71B 4		M 1SD 4	ME 1SB 4	BX 1SB 4
	0.55	BN 71C 4 BN 80A 4	BE 80A 4	BX 80A 4		M 1LA 4	ME 2SA 4	BX 2SA 4
	0.75	BN 80B 4	BE 80B 4	BX 80B 4		M 2SA 4	ME 2SB 4	MX 2SB 4
	1.1	BN 80C 4 BN 90S 4	BE 90S 4	BX 90S 4		M 2SB 4	ME 3SA 4	MX 3SA 4
	1.5	BN 90LA 4	BE 90LA 4	BX 90LA 4		M 3SA 4	ME 3SB 4	MX 3SB 4
	1.85	BN 90LB 4						
	2.2	BN 100LA 4	BE 100LA 4	BX 100LA 4		M 3LA 4	ME 3LA 4	MX 3LA 4
	3	BN 100LB 4	BE 100LB 4	BX 100LB 4		M 3LB 4	ME 3LB 4	MX 3LB 4
	4	BN 112M 4	BE 112M 4	BX 112M 4		M 3LC 4	ME 4SA 4	MX 4SA 4
	5.5	BN 132S 4	BE 132S 4	BX 132SB 4		M 4SA 4	ME 4SB 4	MX 4SB 4
	7.5	BN 132MA 4	BE 132MA 4	BX 132MA 4		M 4LA 4	ME 4LA 4	MX 4LA 4
	9.2	BN 132MB 4	BE 132MB 4	BX 160MA 4		M 4LB 4	ME 4LB 4	MX 5SA 4
	11	BN 160MR 4 BN 160M 4	BE 160M 4	BX 160MB 4		M 4LC 4	ME 5SA 4	MX 5SB 4
	15	BN 160L 4	BE 160L 4	BX 160L 4		M 5SB 4	ME 5LA 4	MX 5LA 4
	18.5	BN 180M 4	BE 180M 4	BX 180M 4		M 5LA 4		
	22	BN 180L 4	BE 180L 4	BX 180L 4				
	30	BN 200L 4		BX 200LAK 4				
	37			BX 225SAK 4				
	45			BX 225SBK 4				
	55			BX 250MAK 4				
	75			BX 280SAK 4	BY 280SCK 4			
	90			BX 280SBK 4	BY 280MAK 4			
	110			BX 315SAK 4	BY 315SCK 4			
	132			BX 315SBK 4	BY 315SDK 4			
	160			BX 315SCK 4	BY 315MBK 4			
	200			BX 355SAK 4	BY 355SAK 4			
	250			BX 355MAK 4				
	315			BX 355MBK 4				
	355			BX 355MCK 4				



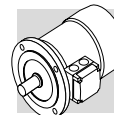
(F67)

6 pôles							
Classe de rendement		IE1	IE2	IE3	IE1	IE2	IE3
Pn [kW]	0.06						
	0.09	BN 63A 6			M 05A 6		
	0.12	BN 63B 6			M 05B 6		
	0.18	BN 71A 6			M 1SC 6		
	0.25	BN 71B 6			M 1SD 6		
		BN 71C 6					
	0.37	BN 80A 6			M 1LA 6		
	0.55	BN 80B 6			M 2SA 6		
	0.75	BN 80C 6	BE 90S 6		M 2SB 6		
		BN 90S 6					
	1.1	BN 90L 6	BE 100M 6		M 3SA 6	ME 3LA 6	
	1.5	BN 100LA 6	BE 100LA 6		M 3LA 6	ME 3LB 6	
	1.85	BN 100LB 6			M 3LB 6		
	2.2	BN 112M 6	BE 112M 6		M 3LC 6		
	3	BN 132S 6	BE 132S 6		M 4SA 6	ME 4SB 6	
	4	BN 132MA 6	BE 132MA 6		M 4LA 6	ME 4LA 6	
	5.5	BN 132MB 6	BE 160MA 6		M 4LB 6	ME 5SA 6	
	7.5	BN 160M 6	BE 160MB 6		M 5SA 6	ME 5SB 6	
	9.2						
	11	BN 160L 6			M 5SB 6		
	15	BN 180L 6					
	18.5	BN 200LA 6					
	22						
	30						

M12.2 Moteurs à 60 Hz

(F68)

2 pôles							
Classe de rendement		IE1	IE2	IE3	IE1	IE2	IE3
Pn [kW]	0.06						
	0.09						
	0.12						
	0.18	BN 63A 2			M 05A 2		
	0.25	BN 63B 2			M 05B 2		
	0.37	BN 71A 2			M 05C 2		
	0.55	BN 71B 2			M 1SD 2		
	0.75	BN 71C 2			M 1LA 2		
		BN 80A 2					
	1.1	BN 80B 2			M 2SA 2		
	1.5	BN 90SA 2			M 2SB 2		
	1.85	BN 90SB 2					
	2.2	BN 90L 2			M 3SA 2		
	3	BN 100L 2			M 3LA 2		
	3.7	BN 112M 2			M 3LB 2		
	5.5	BN 132SA 2			M 4SA 2		
	7.5	BN 132SB 2			M 4SB 2		
	9.2	BN 132M 2			M 4LA 2		
	11	BN 160MR 2			M 4LC 2		
		BN 160M 2					
	15	BN 160MB 2			M 5SB 2		
	18.5	BN 160L 2			M 5SC 2		
	22	BN 180M 2			M 5LA 2		
	30	BN 200LA 2					



(F69)

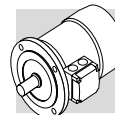
4 pôles								
Classe de rendement		IE1	IE2	IE3	IE4	IE1	IE2	IE3
Pn [kW]	0.06	BN 56A 4						
	0.09	BN 56B 4				M 0B 4		
	0.12	BN 63A 4	BE 63A 4			M 05A 4		
	0.18	BN 63B 4	BE 63B 4			M 05B 4		
	0.25	BN 63C 4				M 05C 4		
		BN 71A 4	BE 71A 4					
	0.37	BN 71B 4	BE 71B 4			M 1SD 4		
	0.55	BN 71C 4				M 1LA 4		
		BN 80A 4	BE 80A 4					
	0.75	BN 80B 4	BE 80B 4	BX 90SR 4		M 2SA 4	ME 2SB 4	MX 2SB 4
	1.1	BN 80C 4	BE 90S 4	BX 90S 4		M 2SB 4	ME 3SA 4	MX 3SA 4
		BN 90S 4						
	1.5	BN 90LA 4	BE 90LA 4	BX 90LA 4		M 3SA 4	ME 3SB 4	MX 3SB 4
	1.85	BN 90LB 4						
	2.2	BN 100LA 4	BE 100LA 4	BX 100LA 4		M 3LA 4	ME 3LA 4	MX 3LA 4
	3	BN 100LB 4	BE 100LB 4	BX 100LB 4		M 3LB 4	ME 3LB 4	MX 3LB 4
	3.7	BN 112M 4	BE 112M 4	BX 112M 4		M 3LC 4	ME 4SA 4	MX 4SA 4
	5.5	BN 132S 4	BE 132S 4	BX 132SB 4		M 4SA 4	ME 4SB 4	MX 4SB 4
	7.5	BN 132MA 4	BE 132MA 4	BX 132MA 4		M 4LA 4	ME 4LA 4	MX 4LA 4
	9.2	BN 132MB 4	BE 132MB 4	BX 160MA 4		M 4LB 4	ME 4LB 4	MX 5SA 4
	11	BN 160MR 4						
		BN 160M 4	BE 160M 4	BX 160MB 4		M 4LC 4	ME 5SA 4	MX 5SB 4
	15	BN 160L 4	BE 160L 4	BX 160L 4		M 5SB 4	ME 5LA 4	MX 5LA 4
	18.5	BN 180M 4	BE 180M 4	BX 180M 4		M 5LA 4		
	22	BN 180L 4	BE 180L 4	BX 180L 4				
	30	BN 200L 4		BX 200LAK 4				
	37			BX 225SAK 4				
	45			BX 225SBK 4				
	55			BX 280SAK 4				
	75			BX 280SBK 4				
	90			BX 315SAK 4				
	110			BX 315SBK 4				
	132			BX 315SCK 4				
	160			BX 355SAK 4				
	200			BX 355SBK 4				
	250			BX 355SCK 4				
	315			BX 355MBK 4				
	355			BX 355MCK 4				

(F70)

6 pôles							
Classe de rendement		IE1	IE2	IE3	IE1	IE2	IE3
Pn [kW]	0.06						
	0.09	BN 63A 6			M 05A 6		
	0.12	BN 63B 6			M 05B 6		
	0.18	BN 71A 6			M 1SC 6		
	0.25	BN 71B 6			M 1SD 6		
		BN 71C 6					
	0.37	BN 80A 6			M 1LA 6		
	0.55	BN 80B 6			M 2SA 6		
	0.75	BN 80C 6			M 2SB 6		
		BN 90S 6					
	1.1	BN 90L 6			M 3SA 6		
	1.5	BN 100LA 6			M 3LA 6		
	1.85	BN 100LB 6			M 3LB 6		
	2.2	BN 112M 6			M 3LC 6		
	3	BN 132S 6			M 4SA 6		
	3.7	BN 132MA 6			M 4LA 6		
	5.5	BN 132MB 6			M 4LB 6		
	7.5	BN 160M 6			M 5SA 6		
	9.2						
	11	BN 160L 6			M 5SB 6		
	15	BN 180L 6					
	18.5	BN 200LA 6					
	22						
	30						

4 P		1500 min ⁻¹ - S1										50 Hz																		
P _n	kW	n	M _n	In	η%		cos φ	I _s	M _s	M _a	KVA	J _m	IM B5	Mod	M _b	Z _o		J _m	IM B5	CE _{UL}	BIS	CN								
					100%	75%										NB	SB						kgm ²	lb-ft ²	CE _{UL}	CE _{UL}	CE _{UL}	CE _{UL}		
frein c.c.																														
FDD																														
0.12	0.16	BXN 63MA	4	1407	0.8	7	0.47	64.8	60.3	52.5	0.58	3.4	2.9	1.7	H	2	0.0043	5	10	FD 02	1.75	15	8900	11000	2	0.0057	6	14	•	•
0.18	0.25	BXN 63MB	4	1373	1.3	12	0.61	69.9	68.8	63.3	0.61	3.5	3.1	1.8	G	3	0.0069	6	13	FD 02	3.5	31	7000	9000	4	0.0083	7	16	•	•
0.25	0.33	BXN 71MA	4	1388	1.7	15	0.67	73.5	72.8	67.9	0.74	4.8	1.6	2.4	H	6	0.0149	7	14	FD 53	5	44	5700	8100	7	0.0176	9	20	•	•
0.37	0.5	BXN 71MB	4	1419	2.5	22	1.05	77.3	76.0	70.8	0.66	6.3	2.6	2.5	L	10	0.0230	8	18	FD 53	5	44	6400	9900	11	0.0256	11	24	•	•
0.55	0.75	BXN 80MA	4	1447	3.6	32	1.31	80.8	80.9	77.4	0.75	6.1	1.9	1.6	J	18	0.0422	11	24	FD 04	10	89	2500	5200	20	0.0470	15	32	•	•
0.75	1	BXN 80MB	4	1451	4.9	43	1.63	82.5	85.1	82.5	0.78	7.4	2.4	2.0	K	29	0.0686	14	32	FD 04	15	133	2000	4100	31	0.0731	18	40	•	•
1.1	1.5	BXN 90S	4	1448	7.3	65	2.38	84.1	85.9	83.5	0.78	7.3	2.4	3.4	J	32	0.0754	16	34	FD 05	26	230	2800	6600	36	0.0850	22	48	•	•
1.5	2	BXN 90L	4	1441	9.9	88	3.44	85.3	84.3	81.7	0.75	6.7	2.6	2.4	J	35	0.0830	17	37	FD 05	26	230	1400	3100	39	0.0928	23	50	•	•
2.2	3	BXN 100LA	4	1458	14.4	127	4.42	86.7	88.4	86.3	0.81	8.8	3.4	2.3	L	90	0.2136	30	65	FD 15	40	354	1400	2400	94	0.2231	37	80	•	•
3	4	BXN 100LB	4	1452	19.7	174	6.14	87.7	88.0	86.2	0.80	8.1	3.2	3.0	K	90	0.2136	30	65	FD 15	40	354	2000	3700	94	0.2231	37	80	•	•
4	5.4	BXN 112M	4	1453	26.3	233	7.97	88.6	88.8	87.1	0.82	7.6	2.7	2.8	J	105	0.2502	35	77	FD 06S	60	531	—	1400	114	0.2715	45	99	•	•
5.5	7.5	BXN 132S	4	1476	35.6	315	11.00	89.6	91.4	90.0	0.79	9.8	4.0	3.4	L	497	1.1804	68	150	FD 06	100	885	—	750	520	1.2350	81	178	•	•
7.5	10	BXN 132M	4	1473	48.6	430	15.10	90.4	91.0	89.5	0.79	9.2	3.7	3.2	L	497	1.1804	68	150	FD 06	100	885	—	570	520	1.2350	81	178	•	•

REMARQUE: pour plus de détails sur les certifications énergétiques disponibles, voir la section dédiée du catalogue.

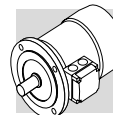


4 P			1800 min ⁻¹ - S1														60 Hz														
P _n	kW	hp	n	M _n	In 460V	η%		cos φ	I _s I _n	M _s M _n	M _a M _n	KVA code	J _m x 10 ⁻⁴		IM B5		Mod	M _b		Z _o 1/h		J _m x 10 ⁻⁴	IM B5		Standard	Standard*	CN Variant				
						100%	75%						kgm ²	lb-ft ²	kg	lbs		Nm	lb-in	NB	SB		kgm ²	lb-ft ²				kg	lbs		
						50%								kg	lbs	kg		lbs													
0.12	0.16	BXN 63MA	4	1724	0.7	6	0.44	66	62.2	54.2	0.52	4.1	3.8	2.7	L	2	0.0043	5	10	FD 02	1.75	15	8900	11000	2	0.0057	6	14	•	•	CE UL CCC
0.18	0.25	BXN 63MB	4	1719	1.0	9	0.56	69.5	71.1	65.0	0.55	4.7	3.9	3.0	K	3	0.0069	6	13	FD 02	3.5	31	7000	9000	4	0.0083	7	16	•	•	CE UL INMETRO
0.25	0.33	BXN 71MA	4	1706	1.4	12	0.59	73.4	74.1	68.5	0.70	6.0	1.8	2.1	K	6	0.0149	7	14	FD 53	5	44	5700	8100	7	0.0176	9	20	•	•	•
0.37	0.5	BXN 71MB	4	1731	2.0	18	0.96	78.2	76.6	70.7	0.61	7.7	3.1	4.4	N	10	0.0230	8	18	FD 53	5	44	6400	9900	11	0.0256	11	24	•	•	•
0.55	0.75	BXN 80MA	4	1755	3.0	27	1.15	81.1	82.1	77.7	0.72	7.3	2.2	2.2	K	18	0.0422	11	24	FD 04	10	89	2500	5200	20	0.0470	15	32	•	•	•
0.75	1	BXN 80MB	4	1757	4.1	36	1.43	85.5	85.8	82.3	0.76	8.8	2.7	3.0	L	29	0.0686	14	32	FD 04	15	133	2000	4100	31	0.0731	18	40	•	•	•
1.1	1.5	BXN 90S	4	1754	6.0	53	2.10	86.5	86.6	83.5	0.75	8.5	2.7	2.9	L	32	0.0754	16	34	FD 05	26	230	2800	6600	36	0.0850	22	48	•	•	•
1.5	2	BXN 90L	4	1750	8.2	73	2.92	86.5	86.5	83.4	0.74	8.3	2.8	2.4	L	35	0.0830	17	37	FD 05	26	230	1400	3100	39	0.0928	23	50	•	•	•
2.2	3	BXN 100LA	4	1765	11.9	105	3.89	89.5	89.6	87.1	0.79	10.5	3.8	2.8	M	90	0.2136	30	65	FD 15	40	354	520	1400	94	0.2231	37	80	•	•	•
3	4	BXN 100LB	4	1761	16.3	144	5.37	89.5	89.5	87.1	0.78	9.8	3.6	4.4	M	90	0.2136	30	65	FD 15	40	354	—	890	94	0.2231	37	80	•	•	•
4	5.4	BXN 112M	4	1762	20.1	178	6.59	89.5	89.2	86.6	0.78	9.3	3.1	3.3	L	105	0.2502	35	77	FD 06S	60	531	—	780	114	0.2715	45	99	•	•	•
5.5	7.5	BXN 132S	4	1779	29.5	261	9.72	91.7	91.1	89.0	0.77	11.4	5.0	4.0	N	497	1.1804	68	150	FD 06	100	885	—	600	520	1.2350	81	178	•	•	•
7.5	10	BXN 132M	4	1777	40.3	357	13.20	91.7	91.1	89.1	0.78	10.9	4.5	3.8	N	497	1.1804	68	150	FD 06	100	885	—	420	520	1.2350	81	178	•	•	•

* sur WD3 ou WD4/WD10

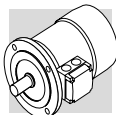
4 P		1500 min ⁻¹ - S1														50 Hz														
P _n	kW	n	M _n	In 400V	η%		cos φ	I _s I _n	M _s M _n	M _a M _n	KVA code	J _m x 10 ⁻⁴	IM B5		Mod	M _b	Z _o 1/h		J _m x 10 ⁻⁴	IM B5		CE + UL + BIS	CE + UL + CEL	CN variant						
					100%	75%							kgm ²	lb-ft ²			kgm ²	lb-ft ²		NB	SB				kgm ²	lb-ft ²				
0.12	0.16	MXN 05MA 4	1407	0.8	7	0.47	64.8	60.3	52.5	0.58	3.4	2.9	1.7	H	2	0.0043	5	10	FD 02	1.75	15	8900	11000	2	0.0057	6	14	•	•	•
0.18	0.25	MXN 05MB 4	1373	1.3	12	0.61	69.9	68.8	63.3	0.61	3.5	3.1	1.8	G	3	0.0069	6	13	FD 02	3.5	31	7000	9000	4	0.0083	7	16	•	•	•
0.25	0.33	MXN 10MA 4	1388	1.7	15	0.67	73.5	72.8	67.9	0.74	4.8	1.6	2.4	H	6	0.0149	7	14	FD 53	5	44	5700	8100	7	0.0176	9	20	•	•	•
0.37	0.5	MXN 10MB 4	1419	2.5	22	1.05	77.3	76.0	70.8	0.66	6.3	2.6	2.5	L	10	0.0230	8	18	FD 53	5	44	6400	9900	11	0.0256	11	24	•	•	•
0.55	0.75	MXN 20MA 4	1447	3.6	32	1.31	80.8	80.9	77.4	0.75	6.1	1.9	1.6	J	18	0.0422	11	24	FD 04	10	89	2500	5200	20	0.0470	15	32	•	•	•
0.75	1	MXN 20MB 4	1451	4.9	43	1.63	82.5	85.1	82.5	0.78	7.4	2.4	2.0	K	29	0.0686	14	32	FD 04	15	133	2000	4100	31	0.0731	18	40	•	•	•
1.1	1.5	MXN 25S 4	1448	7.3	65	2.38	84.1	85.9	83.5	0.78	7.3	2.4	3.4	J	32	0.0754	16	34	FD 05	26	230	2800	6600	36	0.0850	22	48	•	•	•
1.5	2	MXN 25L 4	1441	9.9	88	3.44	85.3	84.3	81.7	0.75	6.7	2.6	2.4	J	35	0.0830	17	37	FD 05	26	230	1400	3100	39	0.0928	23	50	•	•	•
2.2	3	MXN 30LA 4	1458	14.4	127	4.42	86.7	88.4	86.3	0.81	8.8	3.4	2.3	L	90	0.2136	30	65	FD 15	40	354	1400	2400	94	0.2231	37	80	•	•	•
3	4	MXN 30LB 4	1452	19.7	174	6.14	87.7	88.0	86.2	0.80	8.1	3.2	3.0	K	90	0.2136	30	65	FD 15	40	354	2000	3700	94	0.2231	37	80	•	•	•
4	5.4	MXN 35M 4	1453	26.3	233	7.97	88.6	88.8	87.1	0.82	7.6	2.7	2.8	J	105	0.2502	35	77	FD 06S	60	531	—	1400	114	0.2715	45	99	•	•	•
5.5	7.5	MXN 40S 4	1476	35.6	315	11.00	89.6	91.4	90.0	0.79	9.8	4.0	3.4	L	497	1.1804	68	150	FD 06	100	885	—	750	520	1.2350	81	178	•	•	•
7.5	10	MXN 40M 4	1473	48.6	430	15.10	90.4	91.0	89.5	0.79	9.2	3.7	3.2	L	497	1.1804	68	150	FD 06	100	885	—	570	520	1.2350	81	178	•	•	•

REMARQUE: pour plus de détails sur les certifications énergétiques disponibles, voir la section dédiée du catalogue.

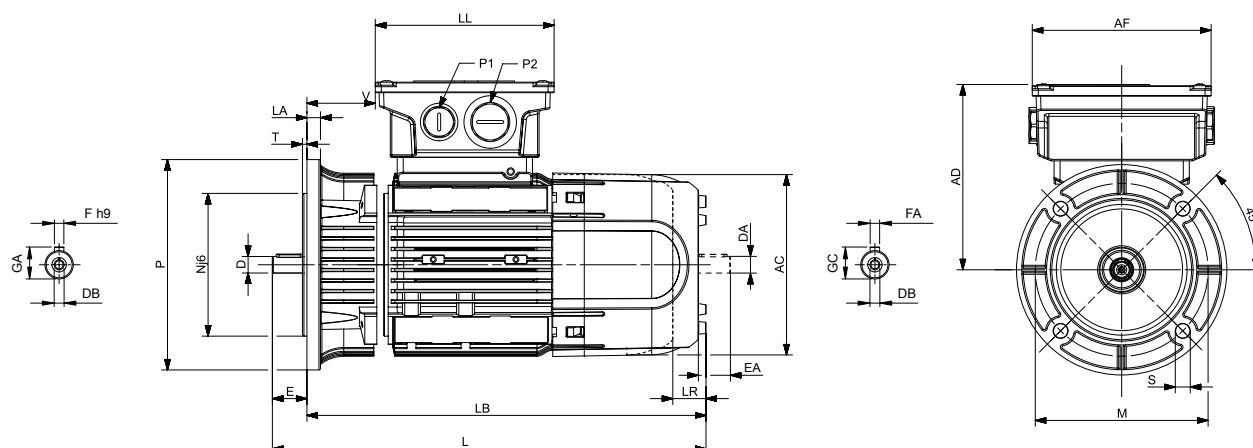


4 P		1800 min ⁻¹ - S1														60 Hz													
P _n	kW	hp	n	M _n	In 460V	η%		cos φ	I _s I _n	M _s M _n	M _a M _n	KVA code	J _m x 10 ⁻⁴		IM B5		Mod	M _b		Z ₀ 1/h		J _m x 10 ⁻⁴	IM B5		Standard	Standard*	CN Variant		
						100%	75%						kgm ²	lb-ft ²	kg	lbs		Nm	lb-in	NB	SB		kg	lbs					
						50%																							
0.12	0.16		1724	0.7	6	0.44	66	62.2	54.2	0.52	4.1	3.8	2.7	L	2	0.0043	5	10	FD 02	1.75	15	8900	11000	2	0.0057	6	14	CE UL CCC	
0.18	0.25		1719	1.0	9	0.56	69.5	71.1	65.0	0.55	4.7	3.9	3.0	K	3	0.0069	6	13	FD 02	3.5	31	7000	9000	4	0.0083	7	16		
0.25	0.33		1706	1.4	12	0.59	73.4	74.1	68.5	0.70	6.0	1.8	2.1	K	6	0.0149	7	14	FD 53	5	44	5700	8100	7	0.0176	9	20		
0.37	0.5		1731	2.0	18	0.96	78.2	76.6	70.7	0.61	7.7	3.1	4.4	N	10	0.0230	8	18	FD 53	5	44	6400	9900	11	0.0256	11	24		
0.55	0.75		1755	3.0	27	1.15	81.1	82.1	77.7	0.72	7.3	2.2	2.2	K	18	0.0422	11	24	FD 04	10	89	2500	5200	20	0.0470	15	32		
0.75	1		1757	4.1	36	1.43	85.5	85.8	82.3	0.76	8.8	2.7	3.0	L	29	0.0686	14	32	FD 04	15	133	2000	4100	31	0.0731	18	40		
1.1	1.5		1754	6.0	53	2.10	86.5	86.6	83.5	0.75	8.5	2.7	2.9	L	32	0.0754	16	34	FD 05	26	230	2800	6600	36	0.0850	22	48		
1.5	2		1750	8.2	73	2.92	86.5	86.5	83.4	0.74	8.3	2.8	2.4	L	35	0.0830	17	37	FD 05	26	230	1400	3100	39	0.0928	23	50		
2.2	3		1765	11.9	105	3.89	89.5	89.6	87.1	0.79	10.5	3.8	2.8	M	90	0.2136	30	65	FD 15	40	354	520	1400	94	0.2231	37	80		
3	4		1761	16.3	144	5.37	89.5	89.5	87.1	0.78	9.8	3.6	4.4	M	90	0.2136	30	65	FD 15	40	354	—	890	94	0.2231	37	80		
4	5.4		1762	20.1	178	6.59	89.5	89.2	86.6	0.78	9.3	3.1	3.3	L	105	0.2502	35	77	FD 06S	60	531	—	780	114	0.2715	45	99		
5.5	7.5		1779	29.5	261	9.72	91.7	91.1	89.0	0.77	11.4	5.0	4.0	N	497	1.1804	68	150	FD 06	100	885	—	600	520	1.2350	81	178		
7.5	10		1777	40.3	357	13.20	91.7	91.1	89.1	0.78	10.9	4.5	3.8	N	497	1.1804	68	150	FD 06	100	885	—	420	520	1.2350	81	178		

* sur WD3 ou WD4/WD10



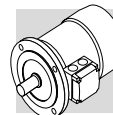
BXN - IM B5



	Arbre					Bride					
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA
BXN 63	11 9 ⁽¹⁾	23 20 ⁽¹⁾	M4 M3 ⁽¹⁾	12.5 10.2 ⁽¹⁾	4 3 ⁽¹⁾	115	95	140	9.5	3	9
BXN 71	14 11 ⁽¹⁾	30 23 ⁽¹⁾	M5 M4 ⁽¹⁾	16 12.5 ⁽¹⁾	5 4 ⁽¹⁾	130	110	160		3.5	
BXN 80	19 14 ⁽¹⁾	40 30 ⁽¹⁾	M6 M5 ⁽¹⁾	21.5 16 ⁽¹⁾	6 5 ⁽¹⁾	165	130	200	11.5		10
BXN 90	24 19 ⁽¹⁾	50 40 ⁽¹⁾	M8 M6 ⁽¹⁾	27 21.5 ⁽¹⁾	8 6 ⁽¹⁾						
BXN 100	28 24 ⁽¹⁾	60 50 ⁽¹⁾	M10 M8 ⁽¹⁾	31 27 ⁽¹⁾	8 8 ⁽¹⁾	215	180	250	14	4	11
BXN 112	28 24 ⁽¹⁾	60 50 ⁽¹⁾	M10 M8 ⁽¹⁾	31 27 ⁽¹⁾	8 8 ⁽¹⁾						
BXN 132	38 28 ⁽¹⁾	80 60 ⁽¹⁾	M12 M10 ⁽¹⁾	41 31 ⁽¹⁾	10 8 ⁽¹⁾	265	230	300			

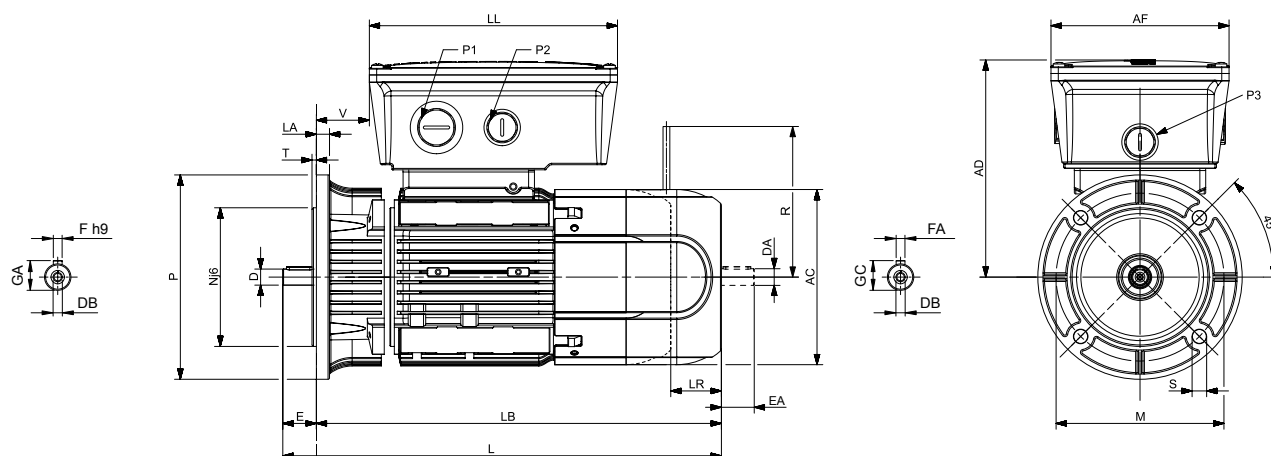
	Moteur											
	AC	L		LB		LC		LR	AD	AF	LL	V
		(sheet metal)	(plastic)	(sheet metal)	(plastic)	(sheet metal)	(plastic)					
BXN 63	122	259	281	236	258	282	304,0	22	136	112	165	37
BXN 71	138	272	292	242	261.5	302	322,0	19.5	138			34
BXN 80	158	329.7	346	289.7	306	369.7	386,0	16.3	148			40
BXN 90	177	338.5	365	288.5	315	388.5	415,0	26.5	170		170	43
BXN 100	192	418	-	358	-	478	-	-	179	122	170	42
BXN 112	220	421.5	-	361.5	-	481.5	-	-	191			62
BXN 132	255	533.4	-	453.4	-	613.4	-	-	216	148	192	63

REMARQUE : 1) Ces dimensions se réfèrent à la deuxième extrémité de l'arbre.



BXN - IM B5 - FDD

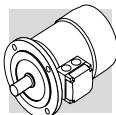
BXN-IE3



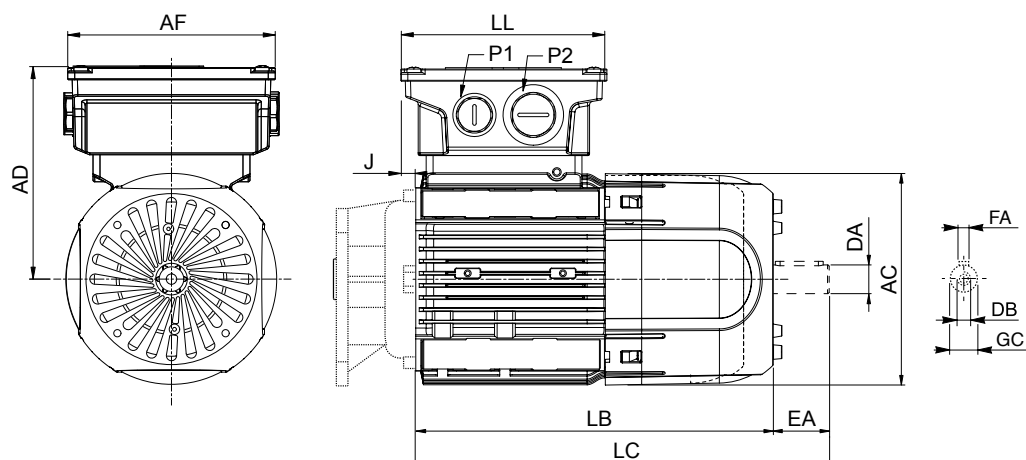
	Arbre					Bride					
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA
BXN 63	11 9 ⁽¹⁾	23 20 ⁽¹⁾	M4 M3 ⁽¹⁾	12.5 10.2 ⁽¹⁾	4 3 ⁽¹⁾	115	95	140	9.5	3	9
BXN 71	14 11 ⁽¹⁾	30 23 ⁽¹⁾	M5 M4 ⁽¹⁾	16 12.5 ⁽¹⁾	5 4 ⁽¹⁾	130	110	160		3.5	
BXN 80	19 14 ⁽¹⁾	40 30 ⁽¹⁾	M6 M5 ⁽¹⁾	21.5 16 ⁽¹⁾	6 5 ⁽¹⁾	165	130	200	11.5		10
BXN 90	24 19 ⁽¹⁾	50 40 ⁽¹⁾	M8 M6 ⁽¹⁾	27 21.5 ⁽¹⁾	8 6 ⁽¹⁾						
BXN 100	28 24 ⁽¹⁾	60 50 ⁽¹⁾	M10 M8 ⁽¹⁾	31 27 ⁽¹⁾	8 8 ⁽¹⁾	215	180	250	14	4	11
BXN 112	28 24 ⁽¹⁾	60 50 ⁽¹⁾	M10 M8 ⁽¹⁾	31 27 ⁽¹⁾	8 8 ⁽¹⁾						
BXN 132	38 28 ⁽¹⁾	80 60 ⁽¹⁾	M12 M10 ⁽¹⁾	41 31 ⁽¹⁾	10 8 ⁽¹⁾	265	230	300			

	Moteur												
	AC	L		LB		LC		LR	AD	AF	LL	V	R
		(sheet metal)	(plastic)	(sheet metal)	(plastic)	(sheet metal)	(plastic)						FDD
BXN 63	122	293.7	328	270.7	305	316.7	351	34.3	136	112	165	37	106
BXN 71	138	316.1	351	286.1	321	346.1	381	34.9	138			34	106
BXN 80	158	378.8	417	338.8	377	418.8	457	38.2	148			40	115
BXN 90	177	388.5	-	338.5	-	438.5	-	-	170		170	43	131
BXN 100	192	475	-	415	-	535	-	-	179	122	170	42	161
BXN 112	220	489.5	-	429.5	-	549.5	-	-	191			62	193
BXN 132	255	606.9	-	527.4	-	686.9	-	-	216	148	192	63	239

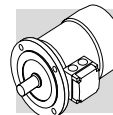
REMARQUE : 1) Ces dimensions se réfèrent à la deuxième extrémité de l'arbre.



MXN

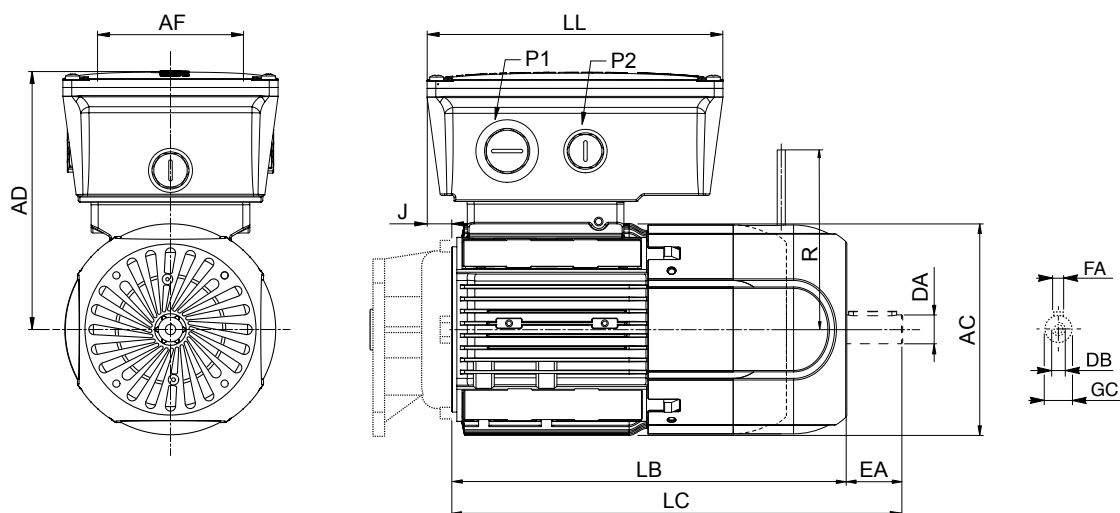


	Deuxième extrémité de l'arbre					Moteur								
	DA	EA	DB	FA	GC	AC	LB		LC		AF	LL	J	AD
							(metal sheet)	(plastic)	(metal sheet)	(plastic)				
MXN 05	9	20	M3	3	10.2	122	189.5	211.5	209.5	231.5	119	119	8.5	122.3
MXN 10	11	23	M4	4	12.5	138	196.5	216	219.5	239	119	119	9.9	123.3
MXN 20	14	30	M5	5	16	158	239.2	255.5	269.2	285.5	119	119	9.5	132.8

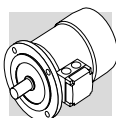


MXN - FDD

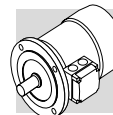
MXN-IE3



	Deuxième extrémité de l'arbre					Moteur									
	DA	EA	DB	FA	GC	AC	LB		LC		AF	LL	J	AD	R
							(metal sheet)	(plastic)	(metal sheet)	(plastic)					FDD
MXN 05	9	20	M3	3	10.2	122	204.2	238.5	224.2	258.5	112	165	9.5	136	106
MXN 10	11	23	M4	4	12.5	138	217.1	252	240.1	275	112	165	11.5	138	106
MXN 20	14	30	M5	5	16	158	258.3	296.5	288.3	326.5	112	165	10.5	148	115

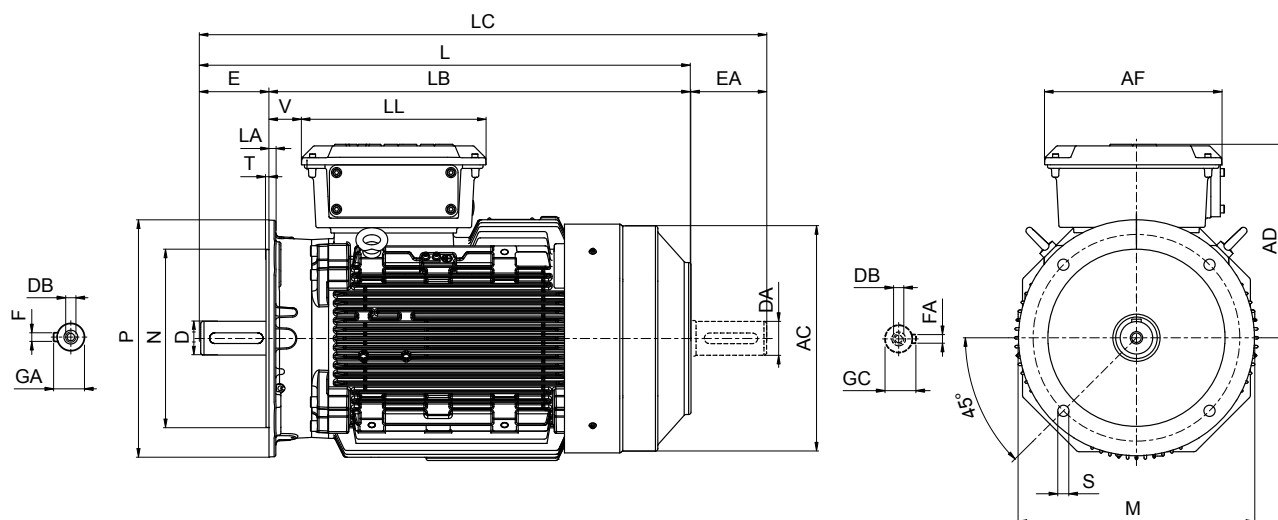

M15 DIMENSIONS MOTEURS BY

4 P		1500 min ⁻¹ - S1													50 Hz						
P _n kW hp		n min ⁻¹	M _n Nm lb-in	I _n 400V A	η%		cos φ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J _m x 10 ⁻⁴ kgm ² lb-ft ²	IM B5 	Mod	M _b		J _m x 10 ⁻⁴ kgm ² lb-ft ²	IM B5 	CE		
															Nm	lb-in					
frein c.c.																					
FD																					
75 101	BY 280SCK 4	1487	481	130	96.0	96.4	0.86	7.8	2.8	2.9	N/A	1.90	725	FD 100	1000	8850	1.89	0.0045	831	1832	•
90 121	BY 280MAK 4	1489	577	165	96.1	96.1	0.82	8.9	2.8	3.2	N/A	2.30	840	FD 100	1000	8850	2.35	0.0056	946	2086	•
110 148	BY 315SCK 4	1491	704	194	96.3	96.5	0.85	7.8	2.4	3.1	N/A	2.90	1000	FD 100	1000	8850	2.94	0.0070	1106	2438	•
132 177	BY 315SDK 4	1490	846	238	96.4	96.4	0.83	8.9	2.6	3.1	N/A	3.20	1065	FD 160	1600	14160	3.25	0.0077	1233	2718	•
160 215	BY 315MBK 4	1490	1028	278	96.6	96.8	0.86	8.1	2.8	3.0	N/A	3.90	1220	FD 160	1600	14160	3.95	0.0094	1388	3060	•
200 268	BY 355SAK 4	1491	1281	345	96.7	96.7	0.87	7.3	2.4	2.7	N/A	5.90	1610	FD 250	2500	22125	5.95	0.0141	1778	3920	•



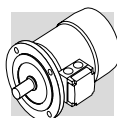
M16 DONNEES TECHNIQUES DES MOTEURS BY

BY - IM B5



	Arbre					Bride						Moteur							
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V
BY 280SCK	75 65 ⁽¹⁾	140 140 ⁽¹⁾	M20 M20 ⁽¹⁾	79.5 69 ⁽¹⁾	20 18 ⁽¹⁾	500	450	550	18	5	23	567	1086	946	1236	482	434	306	43
BY 280MAK													1190	1050	1340	505			
BY 315SCK									23	6	25	645	1202	1032	1350	537	473	347	42
BY 315SDK	80 75 ⁽¹⁾	170 140 ⁽¹⁾	M20 M20 ⁽¹⁾	85 79.5 ⁽¹⁾	22 20 ⁽¹⁾	600	550	660											
BY 315MBK																	1313	1143	1451
BY 355SAK	100 75 ⁽¹⁾	210 170 ⁽¹⁾	M24 M20 ⁽¹⁾	106 79.5 ⁽¹⁾	28 20 ⁽¹⁾	740	680	800				740	1479	1269	1651	603	694	413	50

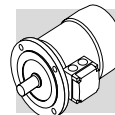
REMARQUE : 1) Ces dimensions se réfèrent à la deuxième extrémité de l'arbre.



M17 DIMENSIONS MOTEURS BX-MX

4 P		1500 min ⁻¹ - S1																50 Hz												
frein c.c.																														
FD																														
P _n		n	M _n	In	η%		cos φ	I _s	M _s	M _a	KVA	J _m	IM B5	Mod	M _b		Z ₀	J _m	IM B5	CE	CE + BIS	CE + CEL								
kW	hp	min ⁻¹	Nm	lb-in	A	100%	75%	50%	I _n	M _n	code	kgm ² x 10 ⁻⁴	kg lbs		Nm	lb-in	NB	SP	kgm ² x 10 ⁻⁴	kg lbs										
0.12	0.16	BX 63A	4	1365	0.8	7.4	0.45	64.8	60	52.9	0.64	2.9	2.4	1.7	G	1.8	0.0043	3.2	7	FD 02	1.75	15	8900	11000	2.4	0.0057	4.9	11	•	•
0.18	0.25	BX 63B	4	1370	1.3	11.1	0.57	69.9	69.5	65.9	0.63	3.6	2.6	1.8	G	2.9	0.0069	5.1	11	FD 02	3.5	31	7000	9000	3.5	0.0083	6.8	12	•	•
0.25	0.33	BX 63C	4	1390	1.7	15.5	0.78	73.5	71.0	65.6	0.64	3.9	3.0	2.5	H	4.3	0.0102	5.4	12	FD 02	3.5	31	7800	10000	4.9	0.0116	7.0	16	•	•
0.25	0.33	BX 71A	4	1400	1.7	15.5	0.63	73.5	76.0	72.6	0.77	4.3	2.3	2.3	G	6.3	0.0150	5.7	13	FD 03	3.5	31	5400	7800	8.4	0.0190	8.4	19	•	•
0.37	0.55	BX 71B	4	1420	2.5	22.0	1.0	77.3	78.1	73.8	0.71	5.9	3.4	3.1	J	10	0.0230	7.3	16	FD 03	5	44	7000	10000	11.8	0.0280	10	22	•	•
0.55	0.75	BX 80A	4	1425	3.7	33	1.2	80.8	78.6	75.2	0.81	6.8	3.5	2.7	J	28	0.0664	12.2	26.9	FD 04	15	133	2400	4700	29.6	0.0702	16	36	•	•
0.75	1	BX 80B	4	1425	5.0	44.5	1.61	82.5	83.9	83.2	0.81	6.5	2.0	1.8	J	35	0.0831	16	35	FD 04	15	133	1700	3300	37	0.0878	20	44	•	•
1.1	1.5	BX 90S	4	1425	7.4	65.2	2.44	84.1	84.1	82.0	0.77	6.9	3.4	2.2	J	27	0.0641	16	35	FD 14	15	133	3700	6200	29	0.0688	20	44	•	•
1.5	2	BX 90LA	4	1420	10.1	89.3	3.3	85.3	86.2	84.9	0.78	6.3	3.1	1.9	J	31	0.0736	17	37	FD 05	26	230	2400	4300	35	0.0831	23	51	•	•
2.2	3	BX 100LA	4	1445	14.5	129	5.1	86.7	86.2	84.0	0.72	7.2	3.6	2.4	K	58	0.1376	24	53	FD 15	40	354	1500	2800	62	0.1471	31	68	•	•
3	4	BX 100LB	4	1445	19.8	175	6.7	87.7	87.7	86.0	0.74	7.6	3.9	2.6	K	73	0.1732	29	64	FD 15	40	354	1500	2700	77	0.1827	36	79	•	•
3.7	5	BX 112M	4	1450	24.4	216	7.6	88.4	89.7	87.7	0.79	8.6	4.0	2.5	L	130	0.3085	38	84	FD 06S	60	531	—	1100	139	0.3299	48	106	•	•
4	5.4	BX 112M	4	1445	26.0	234	8.1	88.6	88.9	87.6	0.80	8.1	3.8	2.5	J	130	0.3085	38	84	FD 06S	60	531	—	1100	139	0.3299	48	106	•	•
5.5	7.5	BX 132SB	4	1460	36.0	318	10.6	89.6	89.2	88.8	0.83	8.2	3.6	2.3	J	310	0.7356	57	126	FD 56	75	664	—	700	320	0.7594	70	154	•	•
7.5	10	BX 132MA	4	1460	49.0	434	15.0	90.4	90.9	90.2	0.80	8.4	3.8	2.5	K	360	0.8543	67	148	FD 06	100	885	—	700	370	0.8780	80	176	•	•
9.2	12.5	BX 160MA	4	1465	60.0	531	17.8	91.0	92.1	91.7	0.82	7.9	3.6	2.1	J	650	1.5425	95	209	FD 08	170	1505	—	620	725	1.7205	125	276	•	•
11	15	BX 160MB	4	1465	71.7	635	20.5	91.4	92.9	92.5	0.84	7.8	3.4	1.9	J	780	1.8509	110	243	FD 08	170	1505	—	470	855	2.0289	140	309	•	•
15	20	BX 160L	4	1465	98.0	865	28.1	92.1	93.2	92.6	0.82	9.0	4.1	2.3	K	890	2.1120	121	267	FD 08	200	1770	—	510	965	2.2900	151	333	•	•
18.5	25	BX 180M	4	1480	119	1056	32.9	92.6	94.1	93.1	0.85	11.3	2.6	2.3	M	1560	3.7019	155	342	FD 09	300	2655	—	440	1760	4.1765	195	430	•	•
22	30	BX 180L	4	1475	142	1261	38.2	93.0	93.6	92.8	0.88	10.2	2.5	2.0	L	1660	3.9392	163	359	FD 09	300	2655	—	250	1860	4.4138	203	448	•	•

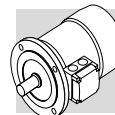
REMARQUE: pour plus de détails sur les certifications énergétiques disponibles, voir la section dédiée du catalogue.



4 P		1500 min ⁻¹ - S1														50 Hz																									
P _n		n		M _n		In		η%		cos φ		I _s		M _s		M _a		KVA		J _m		IM B5		Mod		M _b		J _m		IM B5		CE		BIS variant	CEL variant						
																																				100%		75%		50%	
																																				Nm	lb-in	A			
kW	hp		min ⁻¹																																						
30	40	BX 200LAK 4	1483	193	1708	55.7	94.7	95.1	95.0	0.82	8.3	3.0	3.3	N/A	0.37	0.0009	319	703	400	3540	0.39	0.0009	337	743	•	•	•	•	•	•	•	•	•	•							
37	50	BX 225SAK 4	1482	238	2106	65.9	95.1	95.5	95.4	0.85	7.7	2.8	3.1	N/A	0.54	0.0013	398	877	600	5310	0.57	0.0014	426	939	•	•	•	•	•	•	•	•	•	•							
45	60	BX 225SBK 4	1481	290	2567	80.4	95.2	95.6	95.6	0.85	7.9	2.8	3.2	N/A	0.54	0.0013	398	877	600	5310	0.57	0.0014	426	939	•	•	•	•	•	•	•	•	•	•							
55	74	BX 250MAK 4	1485	354	3133	98.9	95.6	95.8	95.5	0.84	7.9	3.0	3.3	N/A	0.93	0.0022	476	1049	800	7080	1.01	0.0024	521	1149	•	•	•	•	•	•	•	•	•	•							
75	101	BX 280SAK 4	1487	482	4266	134.0	95.9	96.2	96.1	0.84	7.3	2.5	2.8	N/A	1.50	0.0036	665	1466	1000	8850	1.54	0.0036	771	1700	•	•	•	•	•	•	•	•	•	•							
90	121	BX 280SBK 4	1487	578	5115	161.0	96.2	96.4	96.1	0.84	7.9	2.9	3.0	N/A	1.85	0.0044	725	1598	1000	8850	1.89	0.0045	831	1832	•	•	•	•	•	•	•	•	•	•							
110	148	BX 315SAK 4	1491	704	6230	194.0	96.8	97.0	96.7	0.84	8.3	2.4	3.1	N/A	2.90	0.0069	1000	2205	1000	8850	2.94	0.0070	1106	2438	•	•	•	•	•	•	•	•	•	•							
132	177	BX 315SBK 4	1490	846	7487	234.0	96.9	97.1	96.8	0.84	8.1	2.6	3.2	N/A	3.20	0.0076	1065	2348	1600	14160	3.25	0.0077	1233	2718	•	•	•	•	•	•	•	•	•	•							
160	215	BX 315SCK 4	1490	1025	9071	279.0	96.7	96.9	96.6	0.86	8.2	2.7	3.0	N/A	3.90	0.0093	1220	2690	1600	14160	3.95	0.0094	1388	3060	•	•	•	•	•	•	•	•	•	•							
200	268	BX 355SAK 4	1491	1281	11337	345.0	96.6	96.7	96.4	0.87	7.3	2.1	2.7	N/A	5.90	0.0140	1610	3549	2500	22125	5.95	0.0141	1778	3920	•	•	•	•	•	•	•	•	•	•							
250	335	BX 355MAK 4	1491	1601	14169	435.0	96.0	96.0	95.6	0.86	6.4	2.1	2.9	N/A	6.90	0.0164	1780	3924	2500	22125	6.95	0.0165	1948	4295	•	•	•	•	•	•	•	•	•	•							
315	422	BX 355MBK 4	1491	2017	17850	550.0	96.0	96.1	95.7	0.85	7.3	2.4	3.3	N/A	7.20	0.0171	1820	4012	2500	22125	7.25	0.0172	1988	4383	•	•	•	•	•	•	•	•	•	•							
355	476	BX 355MCK 4	1490	2275	20134	616.0	96.0	96.2	95.8	0.86	6.3	2.3	2.8	N/A	8.40	0.0199	2140	4718	2500	22125	8.45	0.0201	2308	5088	•	•	•	•	•	•	•	•	•	•							

REMARQUE: pour plus de détails sur les certifications énergétiques disponibles, voir la section dédiée du catalogue.

REMARQUE: pour plus de détails sur les certifications énergétiques disponibles, voir la section dédiée du catalogue. Les tailles 100LA et 100LB sont uniquement disponibles avec la certification UL pour les États-Unis et non pour le Canada.



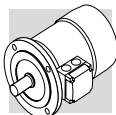
4 P		1800 min ⁻¹ - S1														60 Hz											
P _n	kW	hp	n	M _n		In 400V	η%		cos φ	I _s I _n	M _s M _n	M _a M _n	KVA code	J _m x 10 ⁻⁴ kgm ²	IM B5		Mod	M _b		J _m x 10 ⁻⁴ lb-ft ²	IM B5		CE + UL	CE + UL NBR			
				Nm	lb-in		100%	75%							Nm	lb-in		kg	lbs		kg	lbs					
30	40	BX 200LAK 4	1786	160	1416	47.9	94.7	94.8	94.1	0.83	9.4	3.3	3.7	N/A	0.37	0.0009	319	703	FD 8	400	3540	0.39	0.0009	337	743	•	•
37	50	BX 225SAK 4	1784	198	1752	57.3	95.3	95.5	94.9	0.85	8.8	2.9	3.4	N/A	0.54	0.0013	398	877	FD 9	600	5310	0.57	0.0014	426	939	•	•
45	60	BX 225SBK 4	1785	240	2124	70.5	95.3	95.4	94.8	0.84	8.9	3.0	3.6	N/A	0.54	0.0013	398	877	FD 9	600	5310	0.57	0.0014	426	939	•	•
55	74	BX 250MAK 4	1787	293	2593	85.8	95.7	95.8	95.2	0.84	9.1	3.3	3.7	N/A	0.93	0.0022	476	1049	FD10	800	7080	1.01	0.0024	521	1149	•	•
75	101	BX 280SAK 4	1788	401	3549	117.0	95.9	95.7	94.7	0.84	8.4	2.7	3.1	N/A	1.50	0.0036	665	1466	FD 100	1000	8850	1.54	0.0036	771	1700	•	•
90	121	BX 280SBK 4	1788	481	4257	140.0	96.1	95.9	95.0	0.84	9.0	3.1	3.3	N/A	1.85	0.0044	725	1598	FD 100	1000	8850	1.89	0.0045	831	1832	•	•
110	148	BX 315SAK 4	1792	586	5186	172.0	96.1	96.0	95.3	0.84	8.8	2.6	3.4	N/A	2.90	0.0069	1000	2205	FD 100	1000	8850	2.94	0.0070	1106	2438	•	•
132	177	BX 315SBK 4	1791	704	6230	206.0	96.4	96.3	95.6	0.84	9.0	2.8	3.6	N/A	3.20	0.0076	1065	2348	FD 160	1600	14160	3.25	0.0077	1233	2718	•	•
160	215	BX 315SCK 4	1791	853	7549	241.0	96.4	96.4	95.9	0.86	9.0	2.9	3.3	N/A	3.90	0.0093	1220	2690	FD 160	1600	14160	3.95	0.0094	1388	3060	•	•
200	268	BX 355SAK 4	1792	1065	9425	301.0	96.4	96.2	95.4	0.87	8.3	2.2	3.0	N/A	5.90	0.0140	1610	3549	FD 250	2500	22125	5.95	0.0141	1778	3920	•	•
250	335	BX 355MAK 4	1792	1332	11788	381.0	96.7	96.6	96.0	0.86	8.8	2.7	3.2	N/A	6.90	0.0164	1780	3924	FD 250	2500	22125	6.95	0.0165	1948	4295	•	•
315	422	BX 355MBK 4	1791	1679	14859	479.0	96.7	96.6	96.1	0.85	8.5	3.1	3.2	N/A	7.20	0.0171	1820	4012	FD 250	2500	22125	7.25	0.0172	1988	4383	•	•
355	476	BX 355MCK 4	1792	1893	16753	541.0	96.7	96.5	96.9	0.86	7.2	2.4	3.1	N/A	8.40	0.0199	2140	4718	FD 250	2500	22125	8.45	0.0201	2308	5088	•	•

REMARQUE: pour plus de détails sur les certifications énergétiques disponibles, voir la section dédiée du catalogue.

frein c.c.

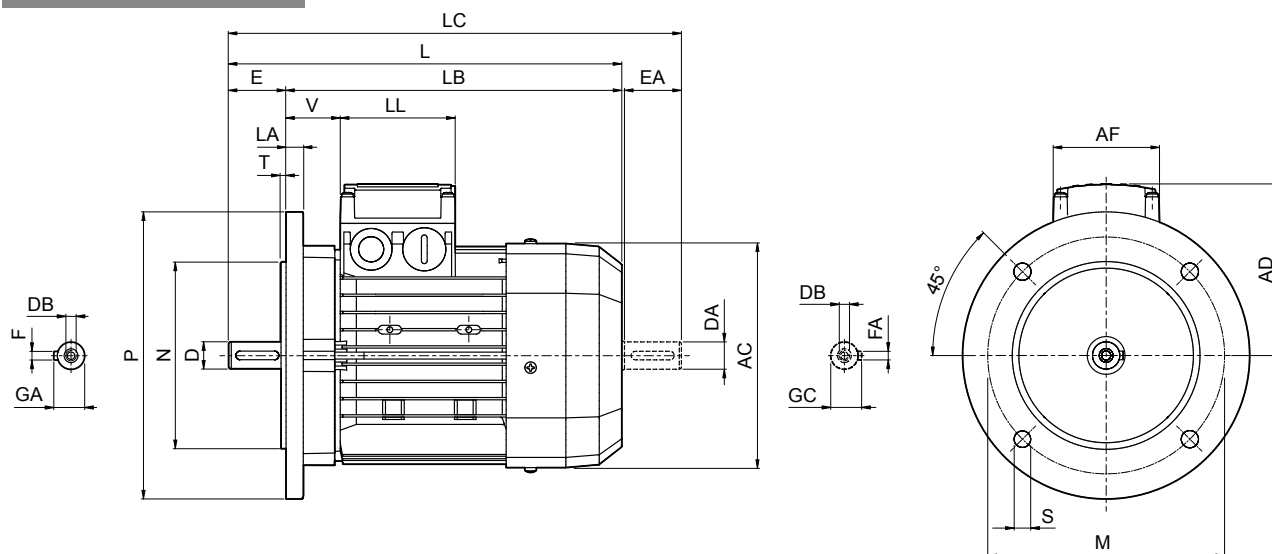


 Bonfiglioli
Riduttori



M18 DONNEES TECHNIQUES DES MOTEURS BX-MX

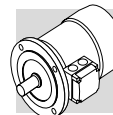
BX - IM B5



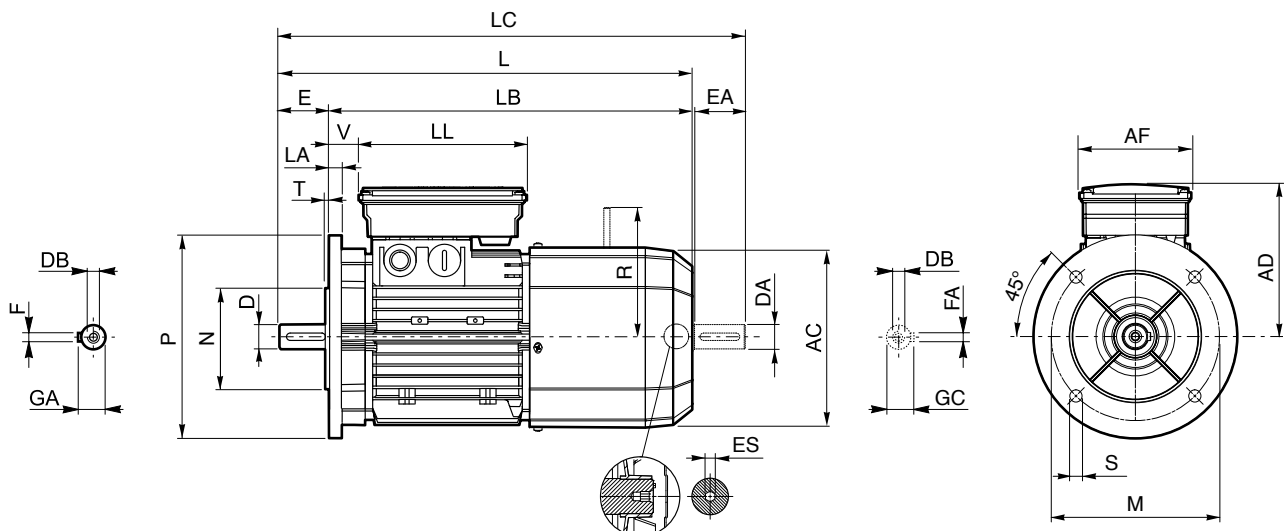
	Arbre					Bride						Moteur																
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V									
BX 63A	11 9 ⁽¹⁾	23 20 ⁽¹⁾	M4 M3 ⁽¹⁾	12.5 10.2 ⁽¹⁾	4 3 ⁽¹⁾	115	95	140	9.5	3	10	121	206	183	228	95	74	80	26									
BX 63B													226	203	248													
BX 63C													226	203	248													
BX 71A	14 11 ⁽¹⁾	30 23 ⁽¹⁾	M5 M4 ⁽¹⁾	16 12.5 ⁽¹⁾	5 4 ⁽¹⁾	130	110	160	11.5	3.5	11.5	138	249	219	274	108	98	98	37									
BX 71B	19 14 ⁽¹⁾	40 30 ⁽¹⁾	M6 M5 ⁽¹⁾	21.5 16 ⁽¹⁾	6 5 ⁽¹⁾	165	130	200				156	274 320	234 280	306 351	119			176	326	276	368	133	44				
BX 80A	24 19 ⁽¹⁾	50 40 ⁽¹⁾	M8 M6 ⁽¹⁾	27 21.5 ⁽¹⁾	8 6 ⁽¹⁾							BX 80 B	24 19 ⁽¹⁾	50 40 ⁽¹⁾	M8 M6 ⁽¹⁾	27 21.5 ⁽¹⁾									8 6 ⁽¹⁾	176	326	276
BX 90 S	28 24 ⁽¹⁾	60 50 ⁽¹⁾	M10 M8 ⁽¹⁾	31 27 ⁽¹⁾	8 8 ⁽¹⁾				215	180	250	14	4	14	195	410	350	462							142	118	118	58
BX 90 LA	38 28 ⁽¹⁾	80 60 ⁽¹⁾	M12 M10 ⁽¹⁾	41 31 ⁽¹⁾	10 8 ⁽¹⁾	265	230	300	15	219	430			370	482	157	193	187	187	51								
BX 100 LA	42 38 ⁽¹⁾	110 80 ⁽¹⁾	M16 M12 ⁽¹⁾	45 41 ⁽¹⁾	12 10 ⁽¹⁾	300	250	350	18.5	5	15			310	493 528	413 448					556 591	245	187	187	52			
BX 100 LB	48 42 ⁽¹⁾	110 110 ⁽¹⁾	M16 M16 ⁽¹⁾	51.5 45 ⁽¹⁾	14 12 ⁽¹⁾							423	821		711	934					328					300	311	48
BX 112 M	55 45 ⁽¹⁾	140 110 ⁽¹⁾	M20 M20 ⁽¹⁾	59 48.5 ⁽¹⁾	16 14 ⁽¹⁾							350	300		400	19	20	465	879	739	1001							
BX 132 SB	60 55 ⁽¹⁾			64 59 ⁽¹⁾	18 16 ⁽¹⁾	400	350	450	19	24	514	884	744	1010	376	603		694	413	50								
BX 132 MA	65 55 ⁽¹⁾			69 59 ⁽¹⁾		500	450	550	19		23	567	1086	948	1238						482	645	1204 1315	1034 1145	1352 1453	537	473	347
BX 160 MA	75 65 ⁽¹⁾	79.5 69 ⁽¹⁾	20 18 ⁽¹⁾	600		550	660	23	6			25	740	1479	1269		1659				603							
BX 180 M	80 75 ⁽¹⁾	85 79.5 ⁽¹⁾	22 20 ⁽¹⁾	740	680	800	1584			1374				1764														
BX 180 L	100 75 ⁽¹⁾	210 170 ⁽¹⁾	M24 M20 ⁽¹⁾	106 79.5 ⁽¹⁾	28 20 ⁽¹⁾	740					680				800	1584	1374	1764										
BX 200LAK	55 45 ⁽¹⁾	140 110 ⁽¹⁾	M20 M20 ⁽¹⁾	59 48.5 ⁽¹⁾	16 14 ⁽¹⁾	350		300	400		19	20	465		879				739	1001	348	434	306	43				
BX 225SAK	60 55 ⁽¹⁾			64 59 ⁽¹⁾	18 16 ⁽¹⁾	400	350	450	19	24	514		884	744	1010				376	603	694				413	50		
BX 225SBK	65 55 ⁽¹⁾			69 59 ⁽¹⁾		500	450	550	19		23		567	1086	948	1238	482	645	1204 1315								1034 1145	1352 1453
BX 250MAK	75 65 ⁽¹⁾	79.5 69 ⁽¹⁾	20 18 ⁽¹⁾	600		550	660	23	6			25	740	1479	1269	1659	603					694	413	50				
BX 280SAK	80 75 ⁽¹⁾	85 79.5 ⁽¹⁾	22 20 ⁽¹⁾	740	680	800	1584			1374				1764														
BX 280SBK	100 75 ⁽¹⁾	210 170 ⁽¹⁾	M24 M20 ⁽¹⁾	106 79.5 ⁽¹⁾	28 20 ⁽¹⁾	740					680				800	1584		1374	1764									
BX 315SAK	55 45 ⁽¹⁾	140 110 ⁽¹⁾	M20 M20 ⁽¹⁾	59 48.5 ⁽¹⁾	16 14 ⁽¹⁾	350		300	400		19	20	465		879		739			1001	348	434	306	43				
BX 315SBK	60 55 ⁽¹⁾			64 59 ⁽¹⁾	18 16 ⁽¹⁾	400	350	450	19	24	514		884	744	1010		376			603	694				413	50		
BX 315SCK	65 55 ⁽¹⁾			69 59 ⁽¹⁾		500	450	550	19		23		567	1086	948	1238	482	645	1204 1315								1034 1145	1352 1453
BX 355SAK	75 65 ⁽¹⁾	79.5 69 ⁽¹⁾	20 18 ⁽¹⁾	600		550	660	23	6			25	740	1479	1269	1659	603					694	413	50				
BX 355MAK	80 75 ⁽¹⁾	85 79.5 ⁽¹⁾	22 20 ⁽¹⁾	740	680	800	1584			1374				1764														
BX 355MBK	100 75 ⁽¹⁾	210 170 ⁽¹⁾	M24 M20 ⁽¹⁾	106 79.5 ⁽¹⁾	28 20 ⁽¹⁾	740					680				800	1584		1374	1764									
BX 355MCK	55 45 ⁽¹⁾	140 110 ⁽¹⁾	M20 M20 ⁽¹⁾	59 48.5 ⁽¹⁾	16 14 ⁽¹⁾	350		300	400		19	20	465		879		739			1001	348	434	306	43				
	60 55 ⁽¹⁾			64 59 ⁽¹⁾	18 16 ⁽¹⁾	400	350	450	19	24	514		884	744	1010		376			603	694				413	50		
	65 55 ⁽¹⁾			69 59 ⁽¹⁾		500	450	550	19		23		567	1086	948	1238	482	645	1204 1315								1034 1145	1352 1453
	75 65 ⁽¹⁾	79.5 69 ⁽¹⁾	20 18 ⁽¹⁾	600		550	660	23	6			25	740	1479	1269	1659	603					694	413	50				
	80 75 ⁽¹⁾	85 79.5 ⁽¹⁾	22 20 ⁽¹⁾	740	680	800	1584			1374				1764														
	100 75 ⁽¹⁾	210 170 ⁽¹⁾	M24 M20 ⁽¹⁾	106 79.5 ⁽¹⁾	28 20 ⁽¹⁾	740					680				800	1584		1374	1764									
	55 45 ⁽¹⁾	140 110 ⁽¹⁾	M20 M20 ⁽¹⁾	59 48.5 ⁽¹⁾	16 14 ⁽¹⁾	350		300	400		19	20	465		879		739			1001	348	434	306	43				
	60 55 ⁽¹⁾			64 59 ⁽¹⁾	18 16 ⁽¹⁾	400	350	450	19	24	514		884	744	1010		376			603	694				413	50		
	65 55 ⁽¹⁾			69 59 ⁽¹⁾		500	450	550	19		23		567	1086	948	1238	482	645	1204 1315								1034 1145	1352 1453
	75 65 ⁽¹⁾	79.5 69 ⁽¹⁾	20 18 ⁽¹⁾	600		550	660	23	6			25	740	1479	1269	1659	603					694	413	50				
	80 75 ⁽¹⁾	85 79.5 ⁽¹⁾	22 20 ⁽¹⁾	740	680	800	1584			1374				1764														
	100 75 ⁽¹⁾	210 170 ⁽¹⁾	M24 M20 ⁽¹⁾	106 79.5 ⁽¹⁾	28 20 ⁽¹⁾	740					680				800	1584		1374	1764									
	55 45 ⁽¹⁾	140 110 ⁽¹⁾	M20 M20 ⁽¹⁾	59 48.5 ⁽¹⁾	16 14 ⁽¹⁾	350		300	400		19	20	465		879		739			1001	348	434	306	43				
	60 55 ⁽¹⁾			64 59 ⁽¹⁾	18 16 ⁽¹⁾	400	350	450	19	24	514		884	744	1010		376			603	694				413	50		
	65 55 ⁽¹⁾			69 59 ⁽¹⁾		500	450	550	19		23		567	1086	948	1238	482	645	1204 1315								1034 1145	1352 1453
	75 65 ⁽¹⁾	79.5 69 ⁽¹⁾	20 18 ⁽¹⁾	600		550	660	23	6			25	740	1479	1269	1659	603					694	413	50				
	80 75 ⁽¹⁾	85 79.5 ⁽¹⁾	22 20 ⁽¹⁾	740	680	800	1584			1374				1764														
	100 75 ⁽¹⁾	210 170 ⁽¹⁾	M24 M20 ⁽¹⁾	106 79.5 ⁽¹⁾	28 20 ⁽¹⁾	740					680				800	1584		1374	1764									
	55 45 ⁽¹⁾	140 110 ⁽¹⁾	M20 M20 ⁽¹⁾	59 48.5 ⁽¹⁾	16 14 ⁽¹⁾	350		300	400		19	20	465		879		739			1001	348	434	306	43				
	60 55 ⁽¹⁾			64 59 ⁽¹⁾	18 16 ⁽¹⁾	400	350	450	19	24	514		884	744	1010		376			603	694				413	50		
	65 55 ⁽¹⁾			69 59 ⁽¹⁾		500	450	550	19		23		567	1086	948	1238	482	645	1204 1315								1034 1145	1352 1453
	75 65 ⁽¹⁾	79.5 69 ⁽¹⁾	20 18 ⁽¹⁾	600		550	660	23	6			25	740	1479	1269	1659	603					694	413	50				
	80 75 ⁽¹⁾	85 79.5 ⁽¹⁾	22 20 ⁽¹⁾	740	680	800	1584			1374				1764														
	100 75 ⁽¹⁾	210 170 ⁽¹⁾	M24 M20 ⁽¹⁾	106 79.5 ⁽¹⁾	28 20 ⁽¹⁾	740					680				800	1584		1374	1764									
	55 45 ⁽¹⁾	140 110 ⁽¹⁾	M20 M20 ⁽¹⁾	59 48.5 ⁽¹⁾	16 14 ⁽¹⁾	350		300	400		19	20	465		879		739			1001	348	434	306	43				
	60 55 ⁽¹⁾			64 59 ⁽¹⁾	18 16 ⁽¹⁾	400	350	450	19	24	514		884	744	1010		376			603	694				413	50		
	65 55 ⁽¹⁾			69 59 ⁽¹⁾		500	450	550	19		23		567	1086	948	1238	482	645	1204 1315								1034 1145	1352 1453
	75 65 ⁽¹⁾	79.5 69 ⁽¹⁾	20 18 ⁽¹⁾	600		550	660	23	6			25	740	1479	1269	1659	603					694	413	50				
	80 75 ⁽¹⁾	85 79.5 ⁽¹⁾	22 20 ⁽¹⁾	740	680	800	1584			1374				1764														
	100 75 ⁽¹⁾	210 170 ⁽¹⁾	M24 M20 ⁽¹⁾	106 79.5 ⁽¹⁾	28 20 ⁽¹⁾	740					680				800	1584		1374	1764									
	55 45 ⁽¹⁾	140 110 ⁽¹⁾	M20 M20 ⁽¹⁾	59 48.5 ⁽¹⁾	16 14 ⁽¹⁾	350		300	400		19	20	465		879		739			1001	348	434	306	43				
	60 55 ⁽¹⁾			64 59 ⁽¹⁾	18 16 ⁽¹⁾	400	350	450	19	24	514		884	744	1010		376			603	694				413	50		
	65 55 ⁽¹⁾			69 59 ⁽¹⁾		500	450	550	19		23		567	1086	948	1238	482	645	1204 1315								1034 1145	1352 1453
	75 65 ⁽¹⁾	79.5 69 ⁽¹⁾	20 18 ⁽¹⁾	600		550	660	23	6			25	740	1479	1269	1659	603					694	413	50				
	80 75 ⁽¹⁾	85 79.5 ⁽¹⁾	22 20 ⁽¹⁾	740	680	800	1584			1374				1764														
	100 75 ⁽¹⁾	210 170 ⁽¹⁾	M24 M20 ⁽¹⁾	106 79.5 ⁽¹⁾	28 20 ⁽¹⁾	740					680				800	1584		1374	1764									
	55 45 ⁽¹⁾	140 110 ⁽¹⁾	M20 M20 ⁽¹⁾	59 48.5 ⁽¹⁾	16 14 ⁽¹⁾	3																						

REMARQUE : 1) Ces dimensions se réfèrent à la deuxième extrémité de l'arbre.

La certification CEL sur BX est disponible de la taille 100LA à 355MCK..



BX - IM B5 - FD

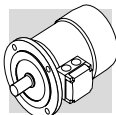


	Arbre					Bride						Moteur																						
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V	R FD	ES ⁽²⁾													
BX 63A	11 9 ⁽¹⁾	23 20 ⁽¹⁾	M4 M3 ⁽¹⁾	12.5 10.2 ⁽¹⁾	4 3 ⁽¹⁾	115	95	140	9.5	3	10	121	272	249	294	122	98	133	14	96	5													
BX 63B												138	313	283	338	135			24	103														
BX 63C																																		
BX 71A	14 11 ⁽¹⁾	30 23 ⁽¹⁾	M5 M4 ⁽¹⁾	16 12.5 ⁽¹⁾	5 4 ⁽¹⁾	130	110	160	11.5	3.5	11.5	138	313	283	338	135	98	133	24	103	5													
BX 71B	19 14 ⁽¹⁾	40 30 ⁽¹⁾	M6 M5 ⁽¹⁾	21.5 16 ⁽¹⁾	6 5 ⁽¹⁾	165	130	200				156	346	306	378	143			25	129														
BX 80A												392	352	423																				
BX 80 B	24 19 ⁽¹⁾	50 40 ⁽¹⁾	M8 M6 ⁽¹⁾	27 21.5 ⁽¹⁾	8 6 ⁽¹⁾	165	130	200	11.5	3.5	11.5	176	410	360	452	146	110	165	32	6														
BX 90 S												176	410	360	452	146			32															
BX 90 LA																					37	160												
BX 100 LA	28 24 ⁽¹⁾	60 50 ⁽¹⁾	M10 M8 ⁽¹⁾	31 27 ⁽¹⁾	8 8 ⁽¹⁾	215	180	250	14	4	14	195	502	442	554	155	110	165	37	160														
BX 100 LB											15	219	527	467	579	170			39	199														
BX 112 M																					16	258	603	523	667	210	140	188	46	204				
BX 132 SB	38 28 ⁽¹⁾	80 60 ⁽¹⁾	M12 M10 ⁽¹⁾	41 31 ⁽¹⁾	10 8 ⁽¹⁾	265	230	300	14	4	16	258	603	523	667	210	140	188	46	204														
BX 132 MA	42 38 ⁽¹⁾	110 80 ⁽¹⁾	M16 M12 ⁽¹⁾	45 41 ⁽¹⁾	12 10 ⁽¹⁾	300	250	350			18.5	5	15	310	627	547	690	245	187	187	51	266												
BX 160 MA															736	626	820																	
BX 160 MB	48 42 ⁽¹⁾	110 110 ⁽¹⁾	M16 M16 ⁽¹⁾	51.5 45 ⁽¹⁾	14 12 ⁽¹⁾	300	250	350	18.5	5	15	310	780	670	864	245	187	187	51	266														
BX 160 L													18	348	866						756	981	261	52	305									
BX 180 M																42	110	M16	45	12						348	866	756	981	261	52	305		
BX 180 L	48 42 ⁽¹⁾	110 110 ⁽¹⁾	M16 M16 ⁽¹⁾	51.5 45 ⁽¹⁾	14 12 ⁽¹⁾	300	250	350	18.5	5	15	310	780	670	864	245	187	187	51	266														
BX 200LAK	55 45 ⁽¹⁾												M20 M16 ⁽¹⁾	59 48.5 ⁽¹⁾	16 14 ⁽¹⁾						350	300	400	19	5	20	417	967	857	1082	328	300	311	48
BX 225SAK	60															140 110 ⁽¹⁾	64 59 ⁽¹⁾	18 16 ⁽¹⁾	400	350							450	19	5	20	460			
BX 225SBK	65 55 ⁽¹⁾	M20 M20 ⁽¹⁾	79.5 69 ⁽¹⁾	20 18 ⁽¹⁾	500	450	550	18	6	23	510	1070																			930			
BX 250MAK	75 65 ⁽¹⁾										140 140 ⁽¹⁾	M20 M20 ⁽¹⁾	79.5 69 ⁽¹⁾	20 18 ⁽¹⁾	500						450	550	18	6	23	564					1284	1144	1379	482
BX 280SAK	80 75 ⁽¹⁾															170 140 ⁽¹⁾	M20 M20 ⁽¹⁾	79.5 69 ⁽¹⁾	20 18 ⁽¹⁾	500						450	550	18	6	23	639	1493	1323	1643
BX 280SBK	100 90 ⁽¹⁾	210 170 ⁽¹⁾	M24 M24 ⁽¹⁾	106 95 ⁽¹⁾	28 25 ⁽¹⁾	740	680	800	23	6																					25	1604	1434	1791
BX 315SAK											1722	1512	1902	603	694						413	50	—											
BX 315SBK																1827	1617	2082	603	694				413	50	—								
BX 315SCK	1827	1617	2082	603	694	413	50	—																										
BX 355SAK									1827	1617	2082	603	694	413	50						—													
BX 355MAK																1827	1617	2082	603	694		413	50	—										
BX 355MBK	1827	1617	2082	603	694	413	50	—																										
BX 355MCK									1827	1617	2082	603	694	413	50						—													

REMARQUE : 1) Ces dimensions se réfèrent à la deuxième extrémité de l'arbre.

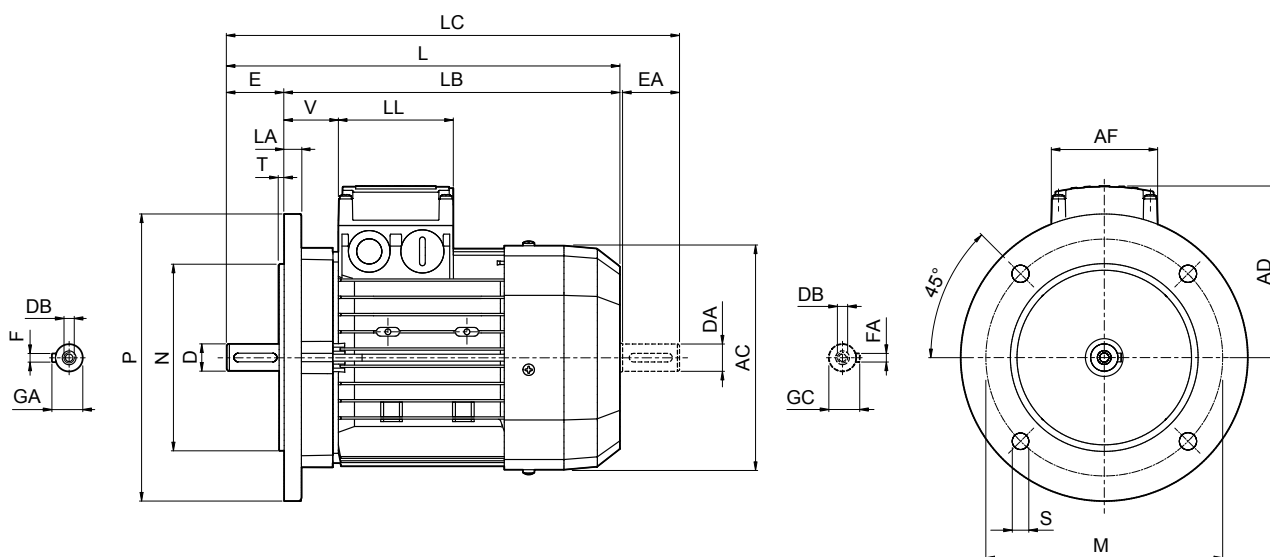
2) L'hexagone ES n'est pas disponible avec l'option PS.

La certification CEL sur BX est disponible de la taille 100LA à 355MCK.



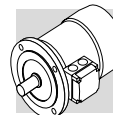
BX - IM B5 - CUS/NBR

BX-IE3

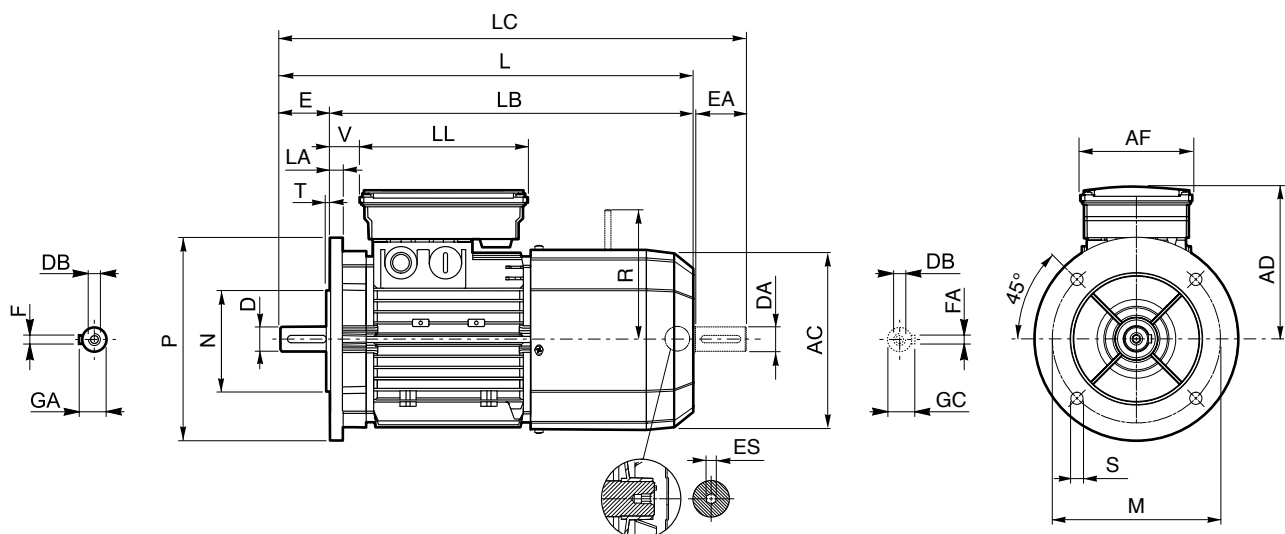


	Arbre					Bride						Moteur											
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V				
BX 90 SR	19 19 ⁽¹⁾	40 40 ⁽¹⁾	M6 M6 ⁽¹⁾	21.5 21.5 ⁽¹⁾	6 6 ⁽¹⁾	165	130	200	11.5	3.5	11.5	176	316	276	358	133	98	98	44				
BX 90 S	24 19 ⁽¹⁾	50 40 ⁽¹⁾	M8 M6 ⁽¹⁾	27 21.5 ⁽¹⁾	8 6 ⁽¹⁾								326		368								
BX 90 LA																							
BX 100 LA	28 24 ⁽¹⁾	60 50 ⁽¹⁾	M10 M8 ⁽¹⁾	31 27 ⁽¹⁾	8 8 ⁽¹⁾	215	180	250	14	4	14	195	410	350	462	142			50				
BX 100 LB																							
BX 112 M																							
BX 132 SB	38 28 ⁽¹⁾	80 60 ⁽¹⁾	M12 M10 ⁽¹⁾	41 31 ⁽¹⁾	10 8 ⁽¹⁾	265	230	300			20	258	552	472	615	193	118	118	58				
BX 132 MA																							
BX 160 MA	42 38 ⁽¹⁾	110 80 ⁽¹⁾	M16 M12 ⁽¹⁾	45 41 ⁽¹⁾	12 10 ⁽¹⁾	300	250	350	18.5	5	15	310	596	486	680	245	187	187	51				
BX 160 MB																							
BX 160 L																							
BX 180 M	48 42 ⁽¹⁾	110 110 ⁽¹⁾	M16 M16 ⁽¹⁾	51.5 45 ⁽¹⁾	14 12 ⁽¹⁾						18	348	708	598	823	261			52				
BX 180 L																							
BX 200LAK	55 45 ⁽¹⁾	110 110 ⁽¹⁾	M20 M20 ⁽¹⁾	59 48.5 ⁽¹⁾	16 14 ⁽¹⁾	350	300	400	19	5	20	423	821	711	934	328	300	311	55				
BX 225SAK	60 55 ⁽¹⁾	140 110 ⁽¹⁾	M20 M20 ⁽¹⁾	64 59 ⁽¹⁾	18 16 ⁽¹⁾	400	350	450	19	5	20	465	879	739	1001	348	300	311	48				
BX 225SBK																							
BX 250MAK	65 55 ⁽¹⁾	140 110 ⁽¹⁾	M20 M20 ⁽¹⁾	69 59 ⁽¹⁾	18 16 ⁽¹⁾	500	450	550	19	5	24	514	884	744	1010	376	300	311					
BX 280SAK	75 65 ⁽¹⁾	140 140 ⁽¹⁾	M20 M20 ⁽¹⁾	79.5 69 ⁽¹⁾	20 18 ⁽¹⁾	500	450	550	18	5	23	567	1088	948	1238	482	434	306	43				
BX 280SBK																							
BX 315SAK	80 75 ⁽¹⁾	170 140 ⁽¹⁾	M20 M20 ⁽¹⁾	85 79.5 ⁽¹⁾	22 20 ⁽¹⁾	600	550	660	23	6	25	645	1204	1034	1352	537	473	347	42				
BX 315SBK																							
BX 315SCK																							
BX 355SAK	100 75 ⁽¹⁾	210 170 ⁽¹⁾	M24 M20 ⁽¹⁾	106 79.5 ⁽¹⁾	28 20 ⁽¹⁾	740	680	800	23	6	25	740	1479	1269	1659	603	694	413	50				
BX 355MAK																							
BX 355MBK																							
BX 355MCK																							

REMARQUE : 1) Ces dimensions se réfèrent à la deuxième extrémité de l'arbre.



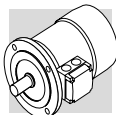
BX - IM B5 - FD - CUS/NBR



	Arbre					Bride						Moteur										
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V	R FD	ES ⁽²⁾	
BX 90 SR	19 19 ⁽¹⁾	40 40 ⁽¹⁾	M6 M6 ⁽¹⁾	21.5 21.5 ⁽¹⁾	6 6 ⁽¹⁾	165	130	200	11.5	3.5	11.5	176	400		442	146	110	165	32	129	6	
BX 90 S	24 19 ⁽¹⁾	50 40 ⁽¹⁾	M8 M6 ⁽¹⁾	27 21.5 ⁽¹⁾	8 6 ⁽¹⁾								410	360	452					160		
BX 90 LA																						
BX 100 LA	28 24 ⁽¹⁾	60 50 ⁽¹⁾	M10 M8 ⁽¹⁾	31 27 ⁽¹⁾	8 8 ⁽¹⁾	215	180	250	14	4	14	195	502	442	554	155			188	37		199
BX 100 LB											15	219	527	467	579	170				46		204
BX 112 M											16	258	661	581	724	210				140		188
BX 132 SB	38 28 ⁽¹⁾	80 60 ⁽¹⁾	M12 M10 ⁽¹⁾	41 31 ⁽¹⁾	10 8 ⁽¹⁾	265	230	300			16	258	661	581	724	210	140	188	46	204		
BX 132 MA																						
BX 160 MA	42 38 ⁽¹⁾	110 80 ⁽¹⁾	M16 M12 ⁽¹⁾	45 41 ⁽¹⁾	12 10 ⁽¹⁾	300	250	350	18.5	5	15	310	736	626	820	245	187	187	51	266		
BX 160 MB													780	670	864						52	305
BX 160 L																						
BX 180 M	48 42 ⁽¹⁾	110 110 ⁽¹⁾	M16 M16 ⁽¹⁾	51.5 45 ⁽¹⁾	14 12 ⁽¹⁾						18	348	866	756	981	261					52	305
BX 180 L																						
BX 200LAK	55 45 ⁽¹⁾		M20 M16 ⁽¹⁾	59 48.5 ⁽¹⁾	16 14 ⁽¹⁾	350	300	400	19	5	20	417	967	857	1082	328			300	311	55	275
BX 225SAK	60 55 ⁽¹⁾	140 110 ⁽¹⁾		64 59 ⁽¹⁾	18 16 ⁽¹⁾	400	350	450				460	1065	925	1180	348	300	311			48	308
BX 225SBK	65 55 ⁽¹⁾					69 59 ⁽¹⁾	500	450				550	24	510	1070	930						
BX 250MAK											18	23	564	1284	1144	1379	482	434	306	43	500	
BX 280SAK	75 65 ⁽¹⁾	140 140 ⁽¹⁾	M20 M20 ⁽¹⁾	79.5 69 ⁽¹⁾	20 18 ⁽¹⁾	600	550	660	639				1493	1323	1643	537	473	347	42			
BX 280SBK									1530				1360	1680								
BX 315SAK	80 75 ⁽¹⁾	170 140 ⁽¹⁾		85 79.5 ⁽¹⁾	22 20 ⁽¹⁾				23	6	25	1604	1434	1791	603	694	413	50	—			
BX 315SBK												1722	1512	1902								
BX 315SCK												1827	1617	2082								
BX 355SAK	100 90 ⁽¹⁾	210 170 ⁽¹⁾	M24 M24 ⁽¹⁾	106 95 ⁽¹⁾	28 25 ⁽¹⁾	740	680	800				725										
BX 355MAK																						
BX 355MBK																						
BX 355MCK																						

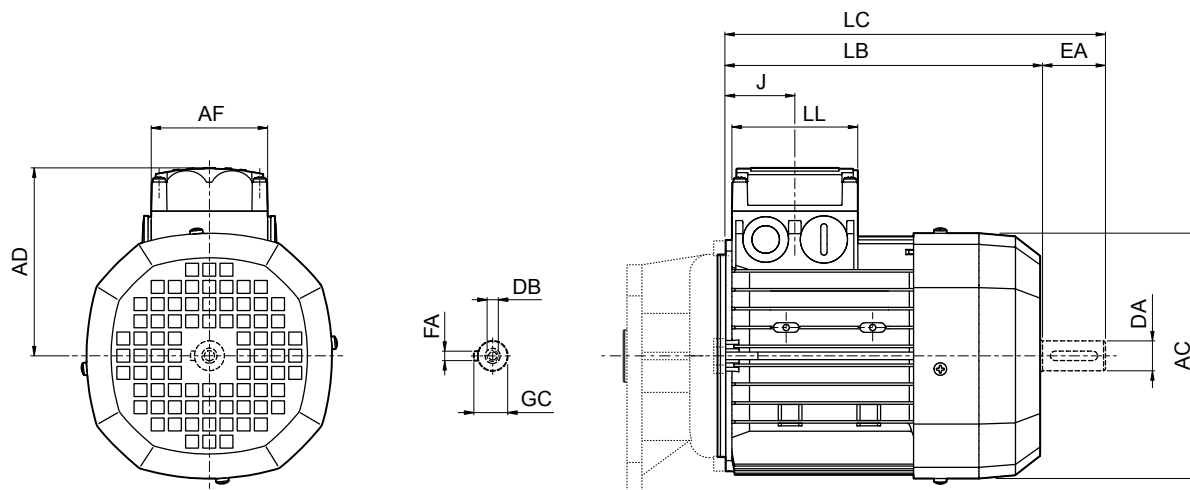
REMARQUE : 1) Ces dimensions se réfèrent à la deuxième extrémité de l'arbre.

2) L'hexagone ES n'est pas disponible avec l'option PS.

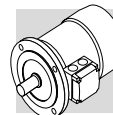


MX

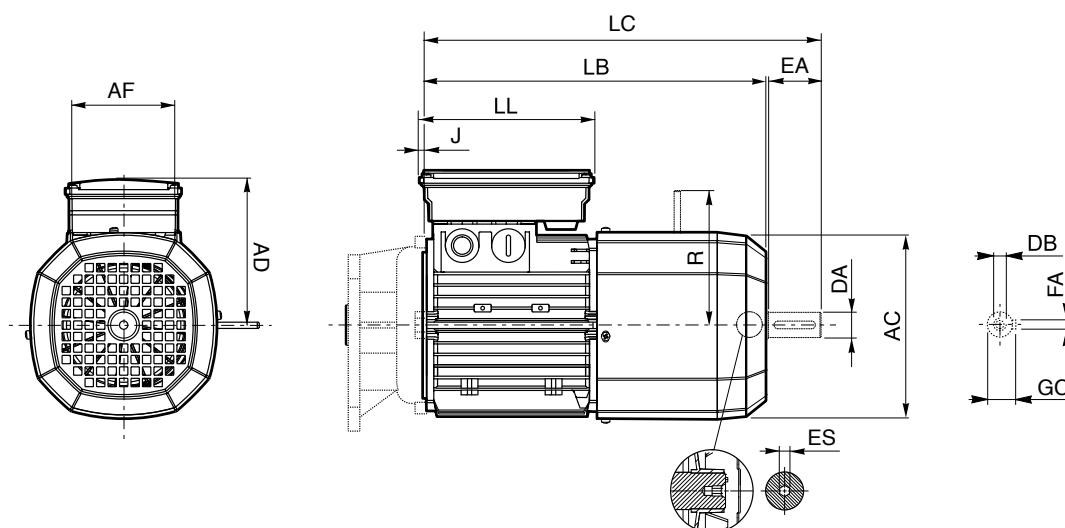
MX-IE3



	Deuxième extrémité de l'arbre					Moteur										
	DA	EA	DB	GC	FA	AC	LB	LC	AF	LL	J	AD				
MX 05A	9	20	M3	10	3	121	165	191	74	80	48	95				
MX 05B																
MX 1SA	11	23	M4	13	4	138	187	219			45	108				
MX 1SB																
MX 2SA	14	30	M5	16	5	156	200	232			44	119				
MX 2SB							246	278								
MX 3SA	24	50	M8	27	8	195	265	317	98	98	53.5	142				
MX 3SB							305	357								
MX 3LA																
MX 3LB																
MX 4SA	28	60	M10	31		258	361	424	118	118	64.5	193				
MX 4SB							396	459								
MX 4LA																
MX 5SA	38	80	M12	41	10	310	418	502	187	187	77	245				
MX 5SB							462	546								
MX 5LA																



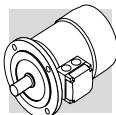
MX - FD



MX-IE3

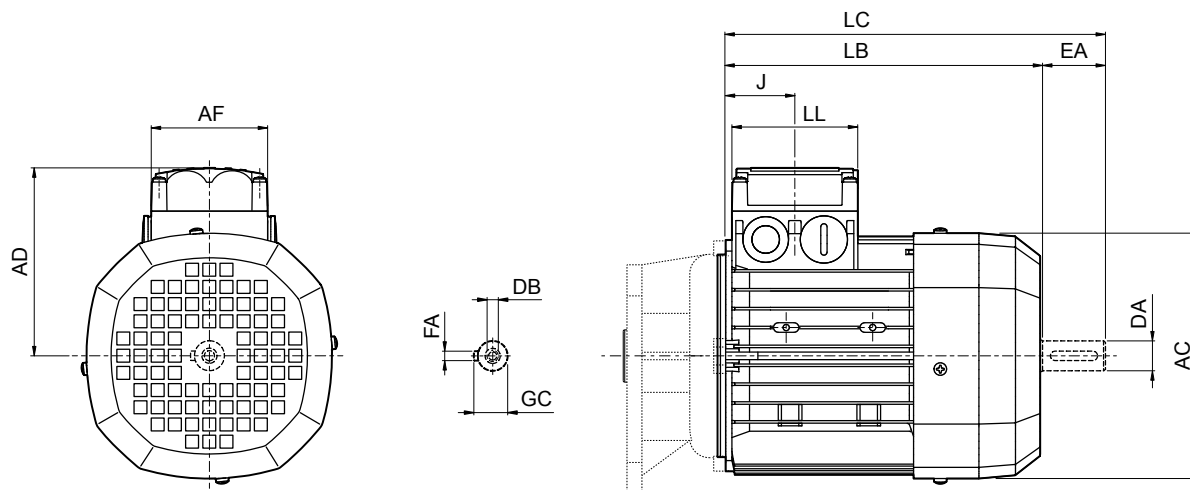
	Deuxième extrémité de l'arbre					Moteur									
	DA	EA	DB	GC	FA	AC	LB	LC	AF	LL	J	AD	R		ES ⁽¹⁾
MX 05A	9	20	M3	10	3	121	231	253	98	133	5	122	96	96	5
MX 05B															
MX 1SA	11	23	M4	13	4	138	248	273			8	135	103	103	
MX 1SB															
MX 2SA	14	30	M5	16	5	156	272	303			9	143	129	134	
MX 2SB							318	349							
MX 3SA	24	50	M8	27	8	195	355	407	110	165	7	155	160	160	6
MX 3SB							397	450							
MX 3LA															
MX 3LB															
MX 4SA	28	60	M10	31		258	470	534	140	188		210	204	200	
MX 4SB							494	558						226	
MX 4LA															
MX 5SA	38	80	M12	41	10	310	558	644	187	187	17	245	266	247	—
MX 5SB							602	686							
MX 5LA															

N.B.: 1) L'hexagone ES n'est pas disponible avec l'option PS.

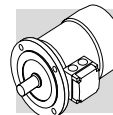


MX CUS/NBR

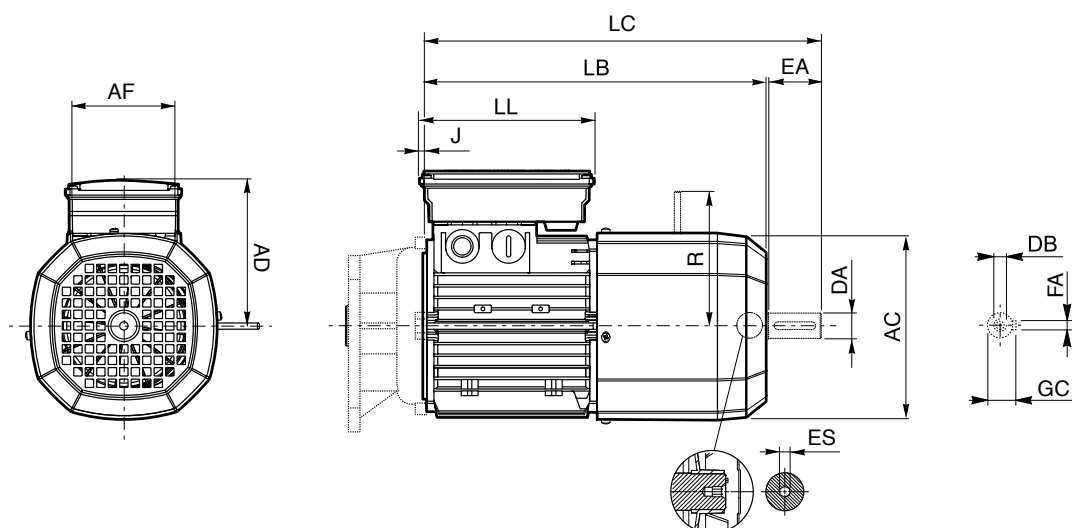
MX-IE3



	Deuxième extrémité de l'arbre					Moteur										
	DA	EA	DB	GC	FA	AC	LB	LC	AF	LL	J	AD				
MX 2SB	14	30	M5	16	5	176	262	293	98	98	79	133				
MX 3SA	24	50	M8	27	8	195	265	317			53.5	142				
MX 3SB							305	357								
MX 3LA																
MX 3LB																
MX 4SA	28	60	M10	31		258	361	424	118	118	64.5	193				
MX 4SB							420	483								
MX 4LA																
MX 5SA	38	80	M12	41	10	310	418	502	187	187	77	245				
MX 5SB							462	546								
MX 5LA																



MX - FD CUS/NBR



MX-IE3

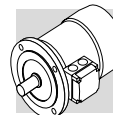
	Deuxième extrémité de l'arbre					Moteur									
	DA	EA	DB	GC	FA	AC	LB	LC	AF	LL	J	AD	R		ES ⁽¹⁾
MX 2SB	14	30	M5	16	5	176	347	379	110	165	-17	146	129	134	6
MX 3SA	24	50	M8	27	8	195	355	407			7	155	160	160	
MX 3SB															
MX 3LA															
MX 3LB															
MX 4SA	28	60	M10	31	8	258	470	534	140	188	210	204	200	—	
MX 4SB							528	592					226		
MX 4LA															
MX 5SA	38	80	M12	41	10	310	558	644	187	187	17	245	266	247	—
MX 5SB							602	686							
MX 5LA															

N.B.: 1) L'hexagone ES n'est pas disponible avec l'option PS.

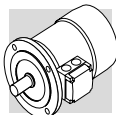
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667

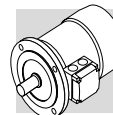
668



4 P		1800 min ⁻¹ - S1																		60 Hz										
P _n kW	hp	n min ⁻¹	M _n Nm	In 400V	η%		cos φ	I _s I _n	M _s M _n	M _a M _n	KVA code	J _m x 10 ⁻⁴ kgm ² lb-ft ²	IM B5 	Mod	M _b		Z ₀ 1/h		J _m x 10 ⁻⁴ kgm ² lb-ft ²	IM B5 	CE	Standard	Cus variant							
					100%	75%									Nm	lb-in	NB	SB												
																								FD						
0.12	BE63A	4	1700	0.67	5.9	0.41	64.8	62	55	0.61	4	3.4	2.8	J	2.3	0.0055	3.9	8.6	FD 02	1.75	15.5	7800	10000	2.9	0.0069	5.6	12	•	•	
0.18	BE63B	4	1700	1	8.9	0.58	68	67.9	61.2	0.59	4.2	4	3.1	J	3.3	0.0078	5.1	11.2	FD 02	3.5	31.0	6500	8400	3.9	0.0093	6.8	15	•	•	
0.25	BE71A	4	1700	1.4	12.4	1.04	70	68.3	61.6	0.74	5	3.1	3.4	K	5.8	0.0138	5.1	11.2	FD 03	3.5	31.0	9900	14000	6.9	0.0164	7.8	17	•	•	
0.37	0.5	BE71B	4	1715	2.06	18.2	0.93	72	71.7	66.3	0.74	5	3	3.2	J	6.9	0.0164	5.9	13.0	FD 03	5	44.3	6300	9900	8	0.0190	8.6	19	•	•
0.55	0.75	BE 80A	4	1740	3	26.6	1.23	75.5	73.1	66.8	0.74	8.7	3.8	3.0	N	19	0.0451	9.9	21.8	FD 04	10	88.5	3300	6800	20.6	0.0489	13.8	30	•	•
0.75	1	BE 80B	4	1745	4.1	36.3	1.46	82.5	81.1	77.6	0.78	7.6	3.5	3.2	K	28	0.0664	12.2	26.9	FD 04	15	133	2300	4600	29.6	0.0702	16.1	36	•	•
1.1	1.5	BE 90S	4	1740	6	53.1	2.25	84	82.7	79	0.73	7.7	3.5	3.2	L	28	0.0664	13.6	30.0	FD 14	15	133	2700	6200	29.6	0.0702	17.8	39	•	•
1.5	2	BE 90LA	4	1740	8.2	72.6	3.1	84.5	83.9	80.7	0.73	7.1	3.6	3.4	K	34	0.0807	15.1	33.3	FD 05	26	230	2100	4500	38	0.0902	21	47	•	•
2.2	3	BE 100LA	4	1745	12	106	4.2	87.5	85.5	83.2	0.76	7	3.3	2.9	J	54	0.1281	22	48.5	FD 15	40	354	890	2400	58	0.1376	29	64	•	•
3	4	BE 100LB	4	1735	16.5	146	5.9	87.5	87.7	86.3	0.76	7	3.2	2.9	K	61	0.1448	24	52.9	FD 15	40	354	—	1000	65	0.1542	31	68	•	•
3.7	5	BE 112M	4	1750	20	177	6.6	87.5	87.5	86.1	0.8	7.8	3.3	3.2	K	105	0.2492	32	70.5	FD 06S	60	531	—	730	114	0.2705	42	93	•	•
4	5.4	BE 112M	4	1745	21.9	194	7.1	87.5	88	86.7	0.8	7.3	3.0	3.2	J	105	0.2492	32	70.5	FD 06S	61	540	—	730	114	0.2705	43	95	•	•
5.5	7.5	BE 132S	4	1760	30	266	9.3	89.5	89.5	87.7	0.83	8.7	3.5	3.5	K	270	0.6407	53	117	FD 56	75	664	—	880	281	0.6668	66	146	•	•
7.5	10	BE 132MA	4	1760	43	381	12.7	89.5	89.5	87.9	0.83	8	3.4	3.3	K	319	0.7570	59	130	FD 06	100	885	—	700	330	0.7831	72	159	•	•
9.2	12.5	BE 132MB	4	1760	50	443	15.6	90	90	88.6	0.82	8.3	3.5	3.6	K	360	0.8543	70	154	FD 07	150	1328	—	590	382	0.9065	86	190	•	•
11	15	BE 160M	4	1765	60	531	18.7	91	91	90	0.81	7.7	2.9	2.8	J	650	1.5425	99	218	FD 08	170	1505	—	370	725	1.7205	129	284	•	•
15	20	BE 160L	4	1770	81	717	25.5	91	90.5	89.5	0.81	7.1	3.1	2.7	J	790	1.8747	115	254	FD 08	200	1770	—	320	865	2.0527	145	320	•	•
18.5	25	BE 180M	4	1765	100	885	30.3	92.4	91.9	90.5	0.83	7.3	2.7	2.5	H	1250	2.9663	135	298	FD 09	300	2655	—	200	1450	3.4409	175	386	•	•
22	30	BE 180L	4	1770	119	1053	36	92.4	92.5	92.2	0.83	8.1	3.3	3.2	J	1650	3.9155	157	346	FD 09	300	2655	—	150	1850	4.3901	197	434	•	•

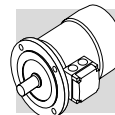


2 P		3000 min ⁻¹ - S1																50 Hz																																																																																																																																																																																																																																																																																																																																																																																			
P _n	kW	hp		n	M _n		In	η%		cos φ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA	J _m	IM B5		Mod	M _b		Z _o		J _m	IM B5		CE	CE + UL	Standard	Cus variant																																																																																																																																																																																																																																																																																																																																																																								
					Nm	lb-in		400V	100%							75%	50%		kgm ²	lb-ft ²		lb-in		SB	NB					kgm ²	x 10 ⁻⁴																																																																																																																																																																																																																																																																																																																																																																						
																																	0.75	1	ME 2SA	2	2860	2.5	22.1	1.63	80	79.6	0.83	6.8	3.8	3.5	J	9	0.0214	8.8	19.4	FD 04	5	44.3	2300	4300	10.6	0.0252	12.7	28	•	•	1.1	1.5	ME 2SB	2	2845	3.7	32.7	2.35	81.5	82.2	0.83	6.9	3.8	3.1	J	11.4	0.0271	10.6	23.4	FD 04	10	88.5	1500	3100	13	0.0308	14.5	32	•	•	1.5	2	ME 3SA	2	2845	5.0	44.3	3.2	81.3	79	0.84	6.1	2.9	2.7	H	24	0.0570	15.5	34.2	FD 15	13	115	470	1200	28	0.0664	22	49	•	•	2.2	3	ME 3LA	2	2895	7.3	64.6	4.8	83.2	83.1	0.8	6.3	2.7	2.5	H	31	0.0736	18.7	41.2	FD 15	26	230	500	1200	35	0.0831	25	56	•	•	3	4	ME 3LB	2	2880	9.9	87.6	6.2	84.6	84.6	0.83	7.3	3.5	3.1	J	39	0.0925	22	48.5	FD 15	26	230	800	1800	43	0.1020	28	63	•	•	3.7	5	ME 4SA	2	2930	12.1	107	7.8	84.7	83	0.79	7.9	2.9	2.8	J	101	0.2397	33	72.8	FD 06	50	443	—	630	112	0.2658	46	101	•	•	4	5.4	ME 4SA	2	2900	13.2	117	7.8	85.8	84.5	0.87	7.0	2.9	2.8	H	101	0.2397	33	72.8	FD 06	50	443	—	580	112	0.2658	46	101	•	•	5.5	7.5	ME 4SB	2	2925	18.0	159	10.6	87.0	85.0	0.86	8.5	3.6	3.3	K	145	0.3441	40	88.2	FD 06	50	443	—	640	156	0.3702	53	117	•	•	7.5	10	ME 4LA	2	2935	24	212	14.3	88.1	87.4	0.86	8.8	3.9	3.6	K	178	0.4224	51	112	FD 06	50	443	—	700	189	0.4485	64	141	•	•	9.2	12.5	ME 4LB	2	2920	30	266	16.4	88.8	86.5	0.91	8.4	3.7	3.3	J	210	0.4983	60	132	FD 56	75	664	—	530	221	0.5244	73	161	•	•	11	15	ME 5SA	2	2940	36	319	20.0	89.4	89.5	0.89	8.1	3.0	2.9	J	340	0.8068	70	154										•	•	15	20	ME 5SB	2	2950	49	434	27.2	90.5	90.5	0.88	8.5	3.0	2.8	K	420	0.9967	83	183								
0.75	1	ME 2SA	2	2860	2.5	22.1	1.63	80	79.6	0.83	6.8	3.8	3.5	J	9	0.0214	8.8	19.4	FD 04	5	44.3	2300	4300	10.6	0.0252	12.7	28	•	•																																																																																																																																																																																																																																																																																																																																																																								
1.1	1.5	ME 2SB	2	2845	3.7	32.7	2.35	81.5	82.2	0.83	6.9	3.8	3.1	J	11.4	0.0271	10.6	23.4	FD 04	10	88.5	1500	3100	13	0.0308	14.5	32	•	•																																																																																																																																																																																																																																																																																																																																																																								
1.5	2	ME 3SA	2	2845	5.0	44.3	3.2	81.3	79	0.84	6.1	2.9	2.7	H	24	0.0570	15.5	34.2	FD 15	13	115	470	1200	28	0.0664	22	49	•	•																																																																																																																																																																																																																																																																																																																																																																								
2.2	3	ME 3LA	2	2895	7.3	64.6	4.8	83.2	83.1	0.8	6.3	2.7	2.5	H	31	0.0736	18.7	41.2	FD 15	26	230	500	1200	35	0.0831	25	56	•	•																																																																																																																																																																																																																																																																																																																																																																								
3	4	ME 3LB	2	2880	9.9	87.6	6.2	84.6	84.6	0.83	7.3	3.5	3.1	J	39	0.0925	22	48.5	FD 15	26	230	800	1800	43	0.1020	28	63	•	•																																																																																																																																																																																																																																																																																																																																																																								
3.7	5	ME 4SA	2	2930	12.1	107	7.8	84.7	83	0.79	7.9	2.9	2.8	J	101	0.2397	33	72.8	FD 06	50	443	—	630	112	0.2658	46	101	•	•																																																																																																																																																																																																																																																																																																																																																																								
4	5.4	ME 4SA	2	2900	13.2	117	7.8	85.8	84.5	0.87	7.0	2.9	2.8	H	101	0.2397	33	72.8	FD 06	50	443	—	580	112	0.2658	46	101	•	•																																																																																																																																																																																																																																																																																																																																																																								
5.5	7.5	ME 4SB	2	2925	18.0	159	10.6	87.0	85.0	0.86	8.5	3.6	3.3	K	145	0.3441	40	88.2	FD 06	50	443	—	640	156	0.3702	53	117	•	•																																																																																																																																																																																																																																																																																																																																																																								
7.5	10	ME 4LA	2	2935	24	212	14.3	88.1	87.4	0.86	8.8	3.9	3.6	K	178	0.4224	51	112	FD 06	50	443	—	700	189	0.4485	64	141	•	•																																																																																																																																																																																																																																																																																																																																																																								
9.2	12.5	ME 4LB	2	2920	30	266	16.4	88.8	86.5	0.91	8.4	3.7	3.3	J	210	0.4983	60	132	FD 56	75	664	—	530	221	0.5244	73	161	•	•																																																																																																																																																																																																																																																																																																																																																																								
11	15	ME 5SA	2	2940	36	319	20.0	89.4	89.5	0.89	8.1	3.0	2.9	J	340	0.8068	70	154										•	•																																																																																																																																																																																																																																																																																																																																																																								
15	20	ME 5SB	2	2950	49	434	27.2	90.5	90.5	0.88	8.5	3.0	2.8	K	420	0.9967	83	183										•	•																																																																																																																																																																																																																																																																																																																																																																								
18.5	25	ME 5LA	2	2945	60	531	32	90.9	90.5	0.91	7.7	2.9	2.7	H	490	1.1628	95	209										•	•																																																																																																																																																																																																																																																																																																																																																																								

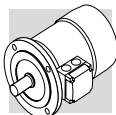


4 P		1500 min ⁻¹ - S1																				50 Hz								
P _n kW hp			n min ⁻¹	M _n		In 400V A	η%		cos φ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J _m x 10 ⁻⁴ kgm ² lb-ft ²	IM B5		Mod	M _b		Z ₀ 1/h		J _m x 10 ⁻⁴ kgm ² lb-ft ²	IM B5		CE	Standard	CUS variant			
				Nm	lb-in		100%	75%							50%				Nm	lb-in	NB		SB							
frein c.c. FD																														
0.12	0.16	ME 05A	4	1360	0.84	7.4	0.45	59.1	59.6	53.5	0.65	3	2	2.2	G	2.3	0.0055	3.6	7.9	FD 02	1.75	15.5	11000	14000	2.9	0.0069	5.3	12	•	•
0.18	0.25	ME 05B	4	1370	1.25	11.1	0.64	64.7	65.1	59.8	0.62	3.5	2.3	2.5	G	3.3	0.0078	4.8	10.6	FD 02	3.5	31.0	9000	12000	3.9	0.0093	6.5	14	•	•
0.25	0.33	ME 1SA	4	1380	1.73	15.3	0.68	68.5	68	62	0.78	4	2.3	2.5	H	5.8	0.0138	4.8	10.6	FD 03	3.5	31.0	11000	16000	6.9	0.0164	7.5	17	•	•
0.37	0.5	ME 1SB	4	1385	2.55	22.6	1.05	72.7	69.3	64.2	0.75	4.0	2.3	2.2	G	6.9	0.0164	5.5	12.1	FD 03	5	44.3	6800	11000	8	0.0190	8.2	18	•	•
0.55	0.75	ME 2SA	4	1430	3.7	32.7	1.38	77.1	73.4	68	0.77	6	2.2	1.9	L	19	0.0451	9.9	21.8	FD 04	10	88.5	4000	7700	20.6	0.0489	13.8	30	•	•
0.75	1	ME 2SB	4	1430	5	44.3	1.65	81	80.5	78	0.81	6.1	3.2	3.0	H	28	0.0664	12.2	26.9	FD 04	15	133	3600	6800	29.6	0.0702	16.1	36	•	•
1.1	1.5	ME 3SA	4	1430	7.4	65.5	2.6	82.5	82.0	79.0	0.74	5.5	2.5	2.8	H	34	0.0807	15.5	34.2	FD 15	26	230	2700	4700	38	0.0902	22	47	•	•
1.5	2	ME 3SB	4	1420	10	88.5	3.48	84.0	84.0	83.0	0.74	5.9	2.9	2.9	J	40	0.0949	17	37.5	FD 15	26	230	2600	4700	44	0.1044	23	51	•	•
2.2	3	ME 3LA	4	1430	14.7	130	4.89	85.4	85	84	0.76	5.8	3	2.8	H	54	0.1281	21	46.3	FD 15	40	354	2700	4700	58	0.1376	27	60	•	•
3	4	ME 3LB	4	1420	20	177	6.58	85.5	86.0	85.5	0.77	5.9	2.8	2.6	H	61	0.1448	23	50.7	FD 15	40	354	2500	4600	65	0.1542	29	64	•	•
3.7	5	ME 4SA	4	1460	27	239	7.5	86.6	87.1	85.6	0.82	7.1	3	3.1	K	213	0.5055	42	92.6	FD 56	75	664	—	1100	224	0.5316	55	121	•	•
4	5.4	ME 4SA	4	1440	27	239	8.25	87.5	86.8	84.0	0.8	7.1	3	3.1	J	213	0.5055	42	92.6	FD 56	75	664	—	1100	224	0.5316	55	121	•	•
5.5	7.5	ME 4SB	4	1460	36	319	11.07	88.5	88.5	87.5	0.81	7.3	2.9	2.9	J	270	0.6407	51	112	FD 56	75	664	—	1100	281	0.6668	64	141	•	•
7.5	10	ME 4LA	4	1460	49	434	14.83	89.0	89.0	88.5	0.82	6.9	2.9	2.8	H	319	0.7570	57	126	FD 06	100	885	—	920	330	0.7831	70	154	•	•
9.2	12.5	ME 4LB	4	1460	60	531	18.09	89.5	89.5	88.5	0.82	6.9	2.9	3.0	H	360	0.8543	65	143	FD 07	150	1328	—	950	382	0.9065	81	179	•	•
11	15	ME 5SA	4	1465	72	637	21.54	91.0	91.3	90.5	0.81	6.5	2.8	2.6	H	650	1.5425	85	187	FD 08	170	1505	—	770	725	1.7205	115	254	•	•
15	20	ME 5LA	4	1465	98	867	28.73	90.8	91.0	90.5	0.83	6.5	2.6	2.3	H	790	1.8747	101	223	FD 08	200	1770	—	690	865	2.0527	131	289	•	•

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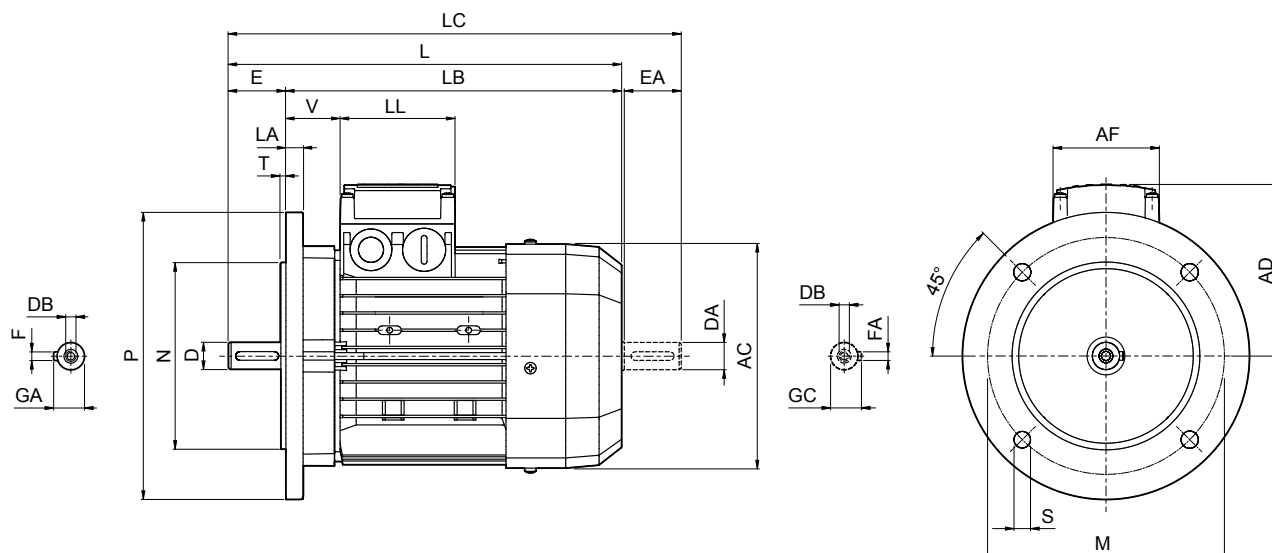


4 P		1800 min ⁻¹ - S1														60 Hz															
P _n kW hp			n min ⁻¹	M _n		In 400V A	η%		cos φ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J _m x 10 ⁻⁴ kgm ² lb-ft ²		IM B5 		Mod	M _b		Z _o 1/h NB SB		J _m x 10 ⁻⁴ kgm ² lb-ft ²		IM B5 		CE	CE + UL	Standard	Cus variant	
				Nm	lb-in		100%	75%						50%	kgm ²	lb-ft ²	$\frac{kg}{lbs}$		$\frac{ft^2}{m^2}$	Nm	lb-in	NB	SB	kgm ²	lb-ft ²	$\frac{kg}{lbs}$					$\frac{ft^2}{m^2}$
0.12	0.16	ME05A	4	1700	0.67	5.9	0.41	64.8	62	55	4	3.4	2.8	J	2.3	0.0055	3.6	7.9	FD 02	1.75	15.5	7800	2.9	0.0069	5.3	12	•	•			
0.18	0.25	ME05B	4	1700	1	8.9	0.58	68	67.9	61.2	4.2	4	3.1	J	3.3	0.0078	4.8	10.6	FD 02	3.5	31.0	6500	3.9	0.0093	6.5	14	•	•			
0.25	0.33	ME1SA	4	1700	1.4	12.4	1.04	70	68.3	61.6	5	3.1	3.4	K	5.8	0.0138	4.8	10.6	FD 03	3.5	31.0	9900	6.9	0.0164	7.5	17	•	•			
0.37	0.5	ME1SB	4	1715	2.06	18.2	0.93	72	71.7	66.3	5	3	3.2	J	6.9	0.0164	5.5	12.1	FD 03	5	44.3	6300	8	0.0190	8.2	18	•	•			
0.55	0.75	ME2SA	4	1740	3	26.6	1.23	75.5	73.1	66.8	7.4	3.8	3.0	N	19	0.0451	9.9	21.8	FD 04	10	88.5	3300	20.6	0.0489	13.8	30	•	•			
0.75	1	ME2SB	4	1745	4.1	36.3	1.46	82.5	81.1	77.6	7.6	3.5	3.2	K	28	0.0664	12.2	26.9	FD 04	15	133	2300	29.6	0.0702	16.1	36	•	•			
1.1	1.5	ME3SA	4	1740	6	53.1	2.25	84	82.7	79	7.7	3.5	3.2	J	34	0.0807	15.5	34.2	FD 15	26	230	1700	38	0.0902	22	47	•	•			
1.5	2	ME3SB	4	1740	8.2	72.6	3.1	84.5	83.9	80.7	7.3	3.6	3.4	K	40	0.0949	17	37.5	FD 15	26	230	1000	44	0.1044	23	51	•	•			
2.2	3	ME3LA	4	1745	12	106	4.2	87.5	85.5	83.2	7.6	3.3	2.9	J	54	0.1281	21	46.3	FD 15	40	354	890	58	0.1376	27	60	•	•			
3	4	ME3LB	4	1735	16.5	146	5.9	87.5	87.7	86.3	7.6	3.2	2.9	K	61	0.1448	23	50.7	FD 15	40	354	—	65	0.1542	29	64	•	•			
3.7	5	ME4SA	4	1750	20	177	6.6	87.5	87.5	86.1	0.8	3.3	3.2	J	213	0.5055	42	92.6	FD 56	75	664	—	224	0.5316	55	121	•	•			
4	5.4	ME4SA	4	1790	21.3	189	7.2	87.5	85.5	82.7	0.82	3.1	3.2	H	213	0.5055	42	92.6	FD 56	75	664	—	224	0.5316	55	121	•	•			
5.5	7.5	ME4SB	4	1760	30	266	9.3	89.5	89.5	87.7	0.83	3.5	3.5	K	270	0.6407	51	112	FD 56	75	664	—	281	0.6668	64	141	•	•			
7.5	10	ME4LA	4	1760	43	381	12.7	89.5	89.5	87.9	0.83	3.4	3.3	K	319	0.7570	57	126	FD 06	100	885	—	330	0.7831	70	154	•	•			
9.2	12.5	ME4LB	4	1760	50	443	15.6	90	90	88.6	0.82	3.5	3.6	K	360	0.8543	65	143	FD 07	150	1328	—	382	0.9065	81	179	•	•			
11	15	ME5SA	4	1765	60	531	18.7	91	91	90	0.81	2.9	2.8	J	650	1.5425	85	187	FD 08	170	1505	—	725	1.7205	115	254	•	•			
15	20	ME5LA	4	1770	81	717	25.5	91	90.5	89.5	0.81	3.1	2.7	J	790	1.8747	101	223	FD 08	200	1770	—	865	2.0527	131	289	•	•			



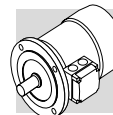
M20 DONNEES TECHNIQUES DES MOTEURS BE-ME

BE - IM B5

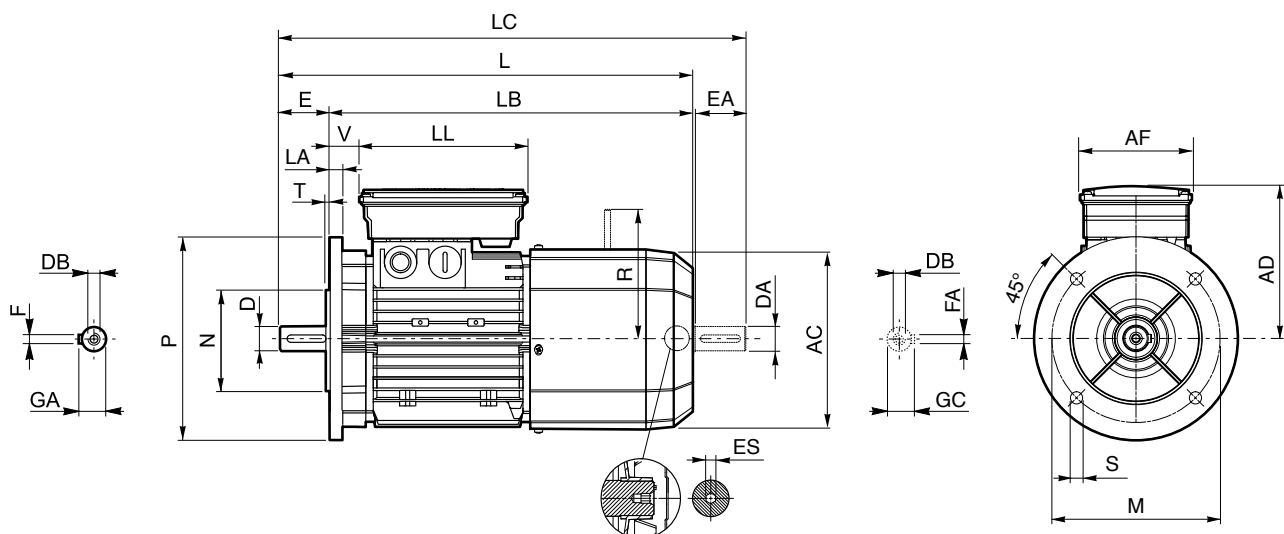


	Arbre					Bride						Moteur									
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V		
BE 63	11	23	M4	12.5	4	115	95	140	9.5	3	10	121	207	184	232	95	74	80	26		
BE 71	14	30	M5	16	5	130	110	160		3.5		11.5	138	249	219	281			108	37	
BE 80	19	40	M6	21.5	6	165	130	200					11.5	156	274	234			315	119	38
BE 90 S	24	50	M8	27	8				215		180			250	14	195	367	307	429	142	98
BE 90 L										28		60				M10	31	15	219	385	
BE 100	38	80	M12	41	10	265	230	300	14		4		20	258	493				413	576	193
BE 112										528		448			611						
BE 132 S										42 38 ⁽¹⁾		110 80 ⁽¹⁾			M16 M12 ⁽¹⁾	45 41 ⁽¹⁾	12 10 ⁽¹⁾	300	250	350	
BE 132 MA	640	530	724																		
BE 132 MB	48 42 ⁽¹⁾	110 110 ⁽¹⁾	M16 M16 ⁽¹⁾	51.5 45 ⁽¹⁾	14 12 ⁽¹⁾	300	250	350	18.5		5		18	348							708
BE 160 M																					
BE 160 L																					
BE 180 M	48 42 ⁽¹⁾	110 110 ⁽¹⁾	M16 M16 ⁽¹⁾	51.5 45 ⁽¹⁾	14 12 ⁽¹⁾	300	250	350	18.5	5	18	348	708	598	823	261	187	187	52		
BE 180 L																					

REMARQUE : 1) Ces dimensions se réfèrent à la deuxième extrémité de l'arbre.



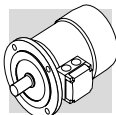
BE - IM B5 - FD



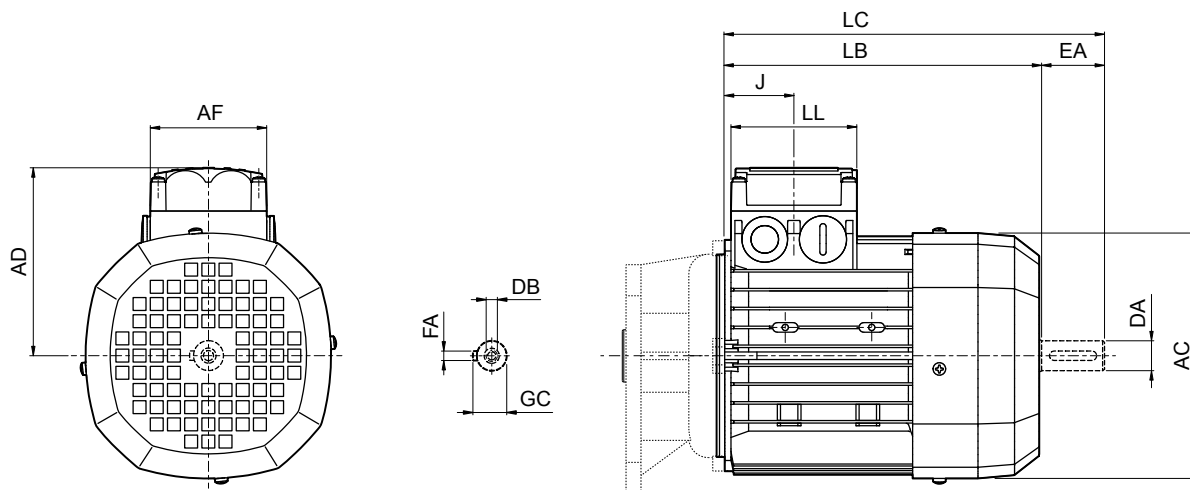
	Arbre					Bride						Moteur												
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V	R FD	ES (2)			
BE 63	11	23	M4	12.5	4	115	95	140	9.5	3	10	121	272	249	297	122	98	133	14	96	5			
BE 71	14	30	M5	16	5	130	110	160		138		313	283	345	135	24			103					
BE 80	19	40	M6	21.5	6	165	130	200	11.5	3.5	11.5	156	348	308	390	143			25	129		6		
BE 90 S	24	50	M8	27	8							215	180	250	14	4	176	411	361	463	146		32	160
BE 90 L																	37	199						
BE 100	28	60	M10	31		10	265	230	300	14	4						20	258	603	523	686	210	140	188
BE 112					39							226												
BE 132 S	38	80	M12	41	10							265	230	300	14	4			20	258	628			
BE 132 MA						52	305																	
BE 132 MB																								
BE 160 M	42	110	M16	45	12	300	250	350	18.5	5	15	310	736	626	820	187	187	52	305					
BE 160 L	38 ⁽¹⁾	80 ⁽¹⁾	M12 ⁽¹⁾	41 ⁽¹⁾	10 ⁽¹⁾								780	670	864									
BE 180 M	48	110	M16	51.5	14						18	348	866	756	981					261				
BE 180 L																								

REMARQUE : 1) Ces dimensions se réfèrent à la deuxième extrémité de l'arbre.

2) L'hexagone ES n'est pas disponible avec l'option PS.

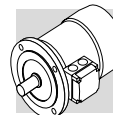


ME

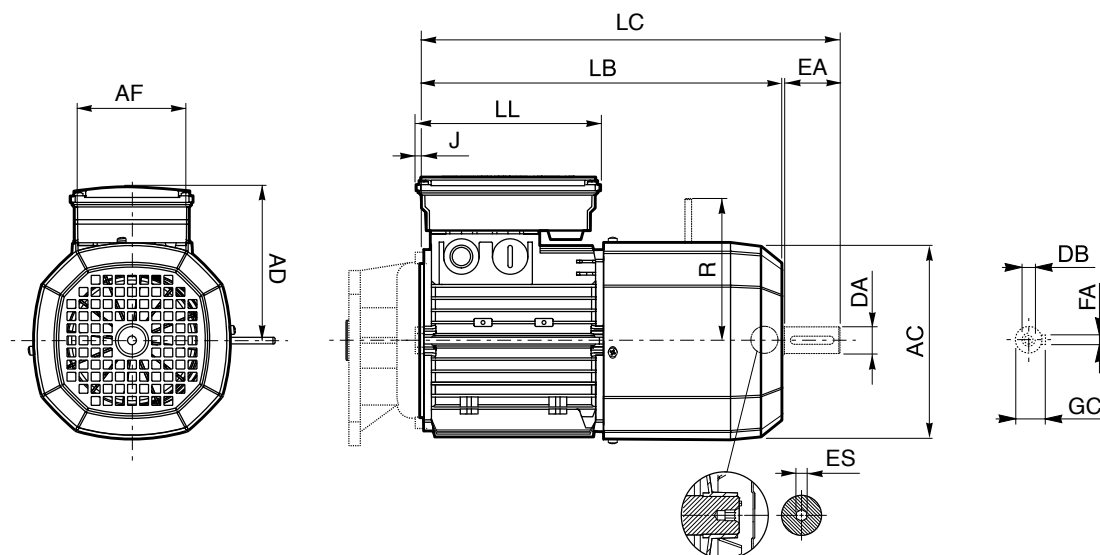


ME-IE2

	Deuxième extrémité de l'arbre					Moteur						
	DA	EA	DB	FA	GC	AC	LB	LC	AF	LL	J	AD
ME 05	11	23	M4	12.5	4	121	165	191	74	80	48	95
ME 1S	14	30	M5	16	5	138	187	219			45	108
ME 2S	19	40	M6	21.5	6	156	202	245			44	119
ME 3S	28	60	M10	31	8	195	230	293	98	98	53.5	142
ME 3L							262	325				
ME 4S	38	80	M12	41	10	258	361	444	118	118	64.5	193
ME 4L							396	479				
ME 4LB												
ME 5S	38	80	M12	41	10	310	418	502	187	187	77	245
ME 5L							462	546				



ME - FD

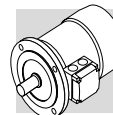


ME-IE2

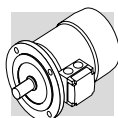
	Deuxième extrémité de l'arbre					Moteur									
	DA	EA	DB	GC	FA	AC	LB	LC	AF	LL	J	AD	R		ES ⁽¹⁾
ME 05	11	23	M4	12.5	4	121	231	256	98	133	-4.5	119	96	116	5
ME 1S	14	30	M5	16	5	138	248	280			-8	135	103	124	
ME 2S	19	40	M6	21.5	6	156	272	314			-17	143	129	134	
ME 3S	28	60	M10	31	8	195	326	389	110	165	7	155	160	160	6
ME 3L							353	416							
ME 4S	38	80	M12	41	10	258	470	553	140	188	7	210	204	200	
ME 4LA							495	578					226	217	
ME 4LB															
ME 5S	38	80	M12	41	10	310	558	642	187	187	17	245	266	247	---
ME 5L							602	686							

N.B.: 1) L'hexagone ES n'est pas disponible avec l'option PS.

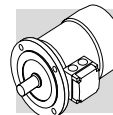
2P				3000 min ⁻¹ - S1												50 Hz													
P _n	kW	L _m	n	M _n	In	η%		cosφ	I _a I _n	M _a M _n	M _a M _n	KVA code	J _m x 10 ⁻⁴	IM B5	Mod	M _b		Z _o		J _m x 10 ⁻⁴	IM B5		CE + UL	CE + CCC	Standard				
						100%	75%									Nm	lb-in	NB	SB		kgm ²	lb-ft ²				lbs	lbs		
0.18	0.25	BN 63A	2	2730	0.63	5.6	0.56	59.9	56.9	51.9	0.77	3	2.1	2.0	E	2.0	0.0048	3.5	7.7	FD 02	1.75	15	3900	4800	2.6	0.0062	5.2	11	•
0.25	0.33	BN 63B	2	2740	0.87	7.7	0.72	66	64.8	64.8	0.76	3.3	2.3	2.3	E	2.3	0.0055	3.9	8.6	FD 02	1.75	15	3900	4800	3.0	0.0071	5.6	12	•
0.37	0.5	BN 63C	2	2800	1.26	11.2	0.99	69.1	66.8	66.8	0.78	3.9	2.6	2.6	F	3.3	0.0078	5.1	11	FD 02	3.5	31	3600	4500	3.9	0.0093	6.8	15	•
0.37	0.5	BN 71A	2	2820	1.25	11.1	0.95	73.8	73	70.6	0.76	4.8	2.8	2.6	H	3.5	0.0082	5.4	12	FD 03	3.5	31	3000	4100	4.6	0.0109	8.1	18	•
0.55	0.75	BN 71B	2	2820	1.86	16.5	1.37	76	75.8	74.8	0.76	5	2.9	2.8	H	4.1	0.0097	6.2	14	FD 03	5	44	2900	4200	5.3	0.0126	8.9	20	•
0.75	1	BN 71C	2	2810	2.6	23	1.86	76.6	76.2	76.2	0.76	5.1	3.1	2.8	H	5.0	0.0119	7.3	16	FD 03	5	44	1900	3300	6.1	0.0145	10	22	•
0.75	1	BN 80A	2	2810	2.6	23	1.75	76.2	75.5	68.3	0.81	4.8	2.6	2.2	G	7.8	0.0185	8.6	19	FD 04	5	44	1700	3200	9.4	0.0223	12.5	28	•
1.1	1.5	BN 80B	2	2800	3.8	33.6	2.57	76.4	76.2	75	0.81	4.8	2.8	2.4	G	9.0	0.0214	9.5	21	FD 04	10	89	1500	3000	10.6	0.0252	13.4	30	•
1.5	2	BN 80C	2	2800	5.1	45	3.4	79.1	79.5	77.2	0.81	4.9	2.7	2.4	G	11.4	0.0271	11.3	25	FD 04	15	133	1300	2600	13.0	0.0308	15.2	34	•
1.5	2	BN 90SA	2	2870	5	44	3.4		81.5	78.1	0.8	5.9	2.7	2.6	H	12.5	0.0297	12.3	27	FD 14	15	133	900	2200	14.1	0.0335	16.5	36	•
1.85	2.5	BN 90SB	2	2880	6.1	54	4	82.5	82	75.4	0.8	6.2	2.9	2.6	H	16.7	0.0397	14	31	FD 14	15	133	900	2200	18.3	0.0434	18.2	40	•
2.2	3	BN 90L	2	2880	7.3	65	4.8	82.7	82.1	80.8	0.8	6.3	2.9	2.7	J	16.7	0.0397	14	31	FD 05	26	230	900	2200	21	0.0498	20	44	•
3	4	BN 100L	2	2860	10	89	6.7	81.5	81.3	77.4	0.79	5.6	2.6	2.2	H	31	0.0736	20	44	FD 15	26	230	700	1600	35	0.0831	26	57	•
4	5.5	BN 100LB	2	2870	13.3	118	8.7	83.1	83	77.8	0.8	5.8	2.7	2.5	H	39	0.0926	23	51	FD 15	40	354	450	900	43	0.102	29	64	•
4	5.5	BN 112M	2	2900	13.2	117	8.2	85.5	84.5	83	0.82	6.9	3	2.9	J	57	0.135	28	62	FD 06S	40	354	—	950	66	0.157	39	86	•
5.5	7.5	BN 132SA	2	2890	18.2	161	11.2	84.7	84.5	81.2	0.84	5.9	2.6	2.2	G	101	0.240	35	77	FD 06	50	443	—	600	112	0.266	48	106	•
7.5	10	BN 132SB	2	2900	25	221	14.7	86.5	86.3	84.4	0.85	6.4	2.6	2.2	H	134	0.318	42	93	FD 06	50	443	—	550	145	0.344	55	121	•
9.2	12.5	BN 132M	2	2930	30	266	17.7	87	86.5	83.6	0.86	6.7	2.8	2.3	H	178	0.422	53	117	FD 56	75	664	—	430	189	0.449	66	146	•
11	15	BN 160MR	2	2920	36	319	20.6	87.6	87	86	0.88	6.9	2.9	2.5	H	210	0.499	65	143										•
15	20	BN 160MB	2	2930	49	434	28.1	89.6	89.4	88	0.86	7.1	2.6	2.3	H	340	0.808	84	185										•
18.5	25	BN 160L	2	2930	60	531	34	90.4	90.1	89	0.86	7.6	2.7	2.3	J	420	0.998	97	214										•
22	30	BN 180M	2	2930	72	637	40	89.9	89.7	89.5	0.88	7.8	2.6	2.4	J	490	1.164	109	240										•
30	40	BN 200LA	2	2930	98	867	54	90.7	90.1	87.6	0.89	7.8	2.7	2.9	J	770		140	309										•



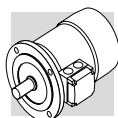
4P			1500 min ⁻¹ - S1																	50 Hz						
P _n kW	hp	n min ⁻¹	M _n lb-in	In 400V A	η%		cosφ	I _a I _n	M _a M _n	M _a M _n	KVA code	J _m x 10 ⁻⁴ kgm ²	IM B5		Mod	M _b		Z ₀ 1/h		J _m x 10 ⁻⁴ kgm ²	IM B5		CE	CUS variant	CCC variant	
					100%	75%							Nm	lb-in		NB	SB	IMA	IBS							
0.06	0.08	BN 56A	4	1340	0.43	3.8	0.28	46.8	44.2	41.3	0.65	2.6	2.3	2	H	1.5	0.0036	3.1	6.8					•	•	
0.09	0.12	BN 56B	4	1350	0.64	5.7	0.42	51.7	47.6	42.9	0.60	2.6	2.5	2.4	H	1.5	0.0036	3.1	6.8					•	•	
0.12	0.16	BN 63A	4	1350	0.85	7.5	0.47	59.8	56.2	47	0.62	2.6	1.9	1.8	F	2	0.0047	3.5	7.7					•	•	
0.18	0.25	BN 63B	4	1320	1.3	11.5	0.71	54.8	52.9	52.5	0.67	2.6	2.2	2	F	2.3	0.0055	3.9	8.6					•	•	
0.25	0.33	BN 63C	4	1340	1.78	15.8	0.8	65.3	65	57.9	0.69	2.7	2.1	1.9	E	3.3	0.0078	5.1	11					•	•	
0.25	0.33	BN 71A	4	1380	1.73	15.3	0.78	63.7	62.2	59.1	0.73	3.3	1.9	1.7	F	5.8	0.0138	5.1	11					•	•	
0.37	0.5	BN 71B	4	1370	2.6	23	1.05	66.8	66.7	63	0.76	3.7	2	1.9	F	6.9	0.0164	5.9	13					•	•	
0.55	0.75	BN 71C	4	1380	3.8	33.6	1.55	69	68.9	68.8	0.74	4.1	2.3	2.3	G	9.1	0.0216	7.3	16					•	•	
0.55	0.75	BN 80A	4	1390	3.8	33.6	1.43	72	71.3	69.7	0.77	4.1	2.3	2	F	15	0.0356	8.2	18					•	•	
0.75	1	BN 80B	4	1400	5.1	45	1.85	75	74.5	69.3	0.78	4.9	2.7	2.5	H	20	0.0475	9.9	22					•	•	
1.1	1.5	BN 80C	4	1400	7.5	66	2.7	75.5	76.2	70.4	0.78	5.1	2.8	2.5	H	25	0.0593	11.3	25					•	•	
1.1	1.5	BN 90S	4	1390	7.6	67	2.7	76.5	76.2	72.2	0.77	4.6	2.6	2.2	G	21	0.0498	12.2	27					•	•	
1.5	2	BN 90LA	4	1410	10.2	90	3.6	78.7	78.5	74.9	0.77	5.3	2.8	2.4	H	28	0.0664	13.6	30					•	•	
1.85	2.5	BN 90LB	4	1390	12.7	112	4.3	78.6	78.9	77.2	0.79	5.1	2.8	2.6	G	30	0.0712	15.1	33					•	•	
2.2	3	BN 100LA	4	1410	14.9	132	5.2	81.1	81.4	79.9	0.75	4.5	2.2	2	F	40	0.0949	18	40					•	•	
3	4	BN 100LB	4	1410	20	177	6.8	82.6	83.8	83.7	0.77	5	2.3	2.2	G	54	0.1281	22	49					•	•	
4	5.5	BN 100LC	4	1400	27.3	241.5	9	82.7	83.1	80.5	0.78	4.7	2.3	2.2	F	61	0.1448	24	53					•	•	
4	5.5	BN 112M	4	1430	27	239	8.4	84.4	84.2	81.6	0.81	5.6	2.7	2.5	G	98	0.2326	30	66					•	•	
5.5	7.5	BN 132S	4	1440	36	319	11.6	84.7	84.8	82.5	0.81	5.5	2.3	2.2	G	213	0.5055	44	97					•	•	
7.5	10	BN 132MA	4	1440	50	443	15.5	86	86.3	85.3	0.81	5.7	2.5	2.4	H	270	0.6407	53	117					•	•	
9.2	12.5	BN 132MB	4	1440	61	540	18.8	88.4	88.6	87.5	0.81	5.9	2.7	2.5	H	319	0.7570	59	130					•	•	
11	15	BN 160MR	4	1440	73	646	22.4	87.6	87.8	86	0.81	6	2.7	2.5	G	360	0.8543	70	154					•	•	
11	15	BN 160M	4	1450	72.4	641.2	22.5	88	88.5	87.5	0.81	6.1	2.5	2.3	G	479	1.137	73	161					•	•	
15	20	BN 160L	4	1460	98	867	30	88.7	88.5	88.4	0.81	6	2.3	2.1	G	650	1.542	99	218					•	•	
18.5	25	BN 180M	4	1460	121	1071	37	89.3	89.5	89.2	0.81	6.2	2.6	2.5	H	790	1.875	115	254					•	•	
22	30	BN 180L	4	1460	144	1275	44	89.9	90	90	0.80	6.4	2.5	2.5	G	1250	2.966	135	298					•	•	
30	40	BN 200L	4	1460	196	1735	59	91.4	91.7	91	0.80	7.1	2.7	2.8	J	1650	3.916	157	346					•	•	



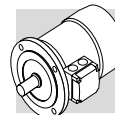
6P			1000 min ⁻¹ - S1														50 Hz													
P _n kW	hp	n min ⁻¹	M _n Nm	In 400V A	η%		cosφ	I _a I _n	M _a M _n	M _a M _n	KVA code	J _m x 10 ⁻⁴ kgm ²	IM B5    lbs	Mod	M _b		Z _o 1/h		J _m x 10 ⁻⁴ kgm ²	IM B5    lbs	CE + UL	CE + UL	CCC variant							
					100%	75%									Nm	lb-in	NB	SB												
0.09	0.12	BN 63A	6	880	0.98	8.7	0.6	41	32.9	0.53	2.1	2.1	1.8	J	3.4	0.0081	4.6	10	FD 02	3.5	31	9000	14000	4	0.0095	6.3	14	•	•	•
0.12	0.16	BN 63B	6	870	1.32	11.7	0.64	45	44	41.8	0.6	2.1	1.9	G	3.7	0.0088	4.9	11	FD 02	3.5	31	9000	14000	4.3	0.0102	6.6	15	•	•	•
0.18	0.25	BN 71A	6	900	1.91	16.9	0.68	55	55.5	51	0.69	2.6	1.9	F	8.4	0.0199	5.5	12	FD 03	5	44	8100	13500	9.5	0.0225	8.2	18	•	•	•
0.25	0.33	BN 71B	6	900	2.7	23.9	0.82	62	58.5	51.4	0.71	2.6	1.9	D	10.9	0.0259	6.7	15	FD 03	5	44	7800	13000	12	0.0285	9.4	21	•	•	•
0.37	0.5	BN 71C	6	910	3.9	34.5	1.17	66	60	53.3	0.69	3	2.4	E	12.9	0.0306	7.7	17	FD 53	7.5	66	5100	9500	14	0.0332	10.4	23	•	•	•
0.37	0.5	BN 80A	6	910	3.9	34.5	1.15	68	67.4	63.3	0.68	3.2	2.2	F	21	0.0498	9.9	22	FD 04	10	89	5200	8500	23	0.0546	13.8	30	•	•	•
0.55	0.75	BN 80B	6	920	5.7	50	1.67	70	69.8	64.3	0.68	3.9	2.6	G	25	0.0593	11.3	25	FD 04	15	133	4800	7200	27	0.0641	15.2	34	•	•	•
0.75	1	BN 80C	6	920	7.8	69	2.38	70	70	64.4	0.65	3.8	2.5	G	28	0.0664	12.2	27	FD 04	15	133	3400	6400	30	0.0712	16.1	35	•	•	•
0.75	1	BN 90S	6	920	7.8	69	2.27	70	69	64.2	0.68	3.8	2.4	G	26	0.0617	12.6	28	FD 14	15	133	3400	6500	28	0.0664	16.8	37	•	•	•
1.1	1.5	BN 90L	6	920	11.4	101	3.2	72.9	72.6	69.1	0.69	3.9	2.3	G	33	0.0783	15	33	FD 05	26	230	2700	5000	37	0.0878	21	46	•	•	•
1.5	2	BN 100LA	6	940	15.2	135	4	75.2	74.2	70.3	0.72	4.1	2.1	G	82	0.1946	22	49	FD 15	40	354	1900	4100	86	0.2041	28	62	•	•	•
1.85	2.5	BN 100LB	6	930	19	168	4.8	76.6	72.8	62.6	0.73	4.6	2.1	G	95	0.2254	24	53	FD 15	40	354	1700	3600	99	0.2349	30	66	•	•	•
2.2	3	BN 112M	6	940	22	195	5.5	78.5	79	76.5	0.73	4.8	2.2	H	168	0.3987	32	71	FD 06S	60	531	—	2100	177	0.4200	42	93	•	•	•
3	4	BN 132S	6	940	30	266	7.1	79.7	77	75.1	0.76	5.1	1.9	G	216	0.5126	36	79	FD 56	75	664	—	1400	226	0.5363	49	108	•	•	•
4	5.5	BN 132MA	6	950	40	354	9.2	81.4	81.5	79.5	0.77	5.5	2	H	295	0.7000	45	99	FD 06	100	885	—	1200	305	0.7238	58	128	•	•	•
5.5	7.5	BN 132MB	6	945	56	496	12.2	83.1	80.9	79.1	0.78	6.1	2.1	H	383	0.9089	56	123	FD 07	150	1328	—	1050	406	0.9635	72	159	•	•	•
7.5	10	BN 160M	6	955	75	664	15.7	85	85	84.8	0.81	5.9	2.2	H	740	1.7560	83	183	FD 08	170	1505	—	900	815	1.9340	112	247	•	•	•
11	15	BN 160L	6	960	109	965	22.7	86.4	86.5	85.9	0.81	6.6	2.5	H	970	2.3018	103	227	FD 08	200	1770	—	800	1045	2.4798	133	293	•	•	•
15	20	BN 180L	6	970	148	1310	30	87.7	88	87.3	0.82	6.2	2	H	1550	3.6782	130	287	FD 09	300	2655	—	600	1750	4.1528	170	375	•	•	•
18.5	25	BN 200LA	6	960	184	1629	37	88.6	88	87.3	0.81	5.9	2	G	1700	4.0342	145	320	FD 09	400	3540	—	450	1900	4.5088	185	408	•	•	•



2P			3600 min ⁻¹ - S1																60 Hz										
P _n kW hp				n min ⁻¹	M _n		In 460V A	η%	cosφ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J _m x 10 ⁻⁴ kgm ² lb-ft ²	IM B5		Mod	M _b		Z _o 1/h		J _m x 10 ⁻⁴ kgm ² lb-ft ²	IM B5		CE	CE + UL	CUS variant		
					Nm	lb-in									lb-in	Nm		NB	SB										
0.18	0.25	BN 63A	2	3360	0.53	4.7	0.55	58	0.74	3.7	2.9	2.4	H	2.0	0.0048	3.5	7.7	FD 02	1.75	15	2700	3300	2.6	0.0062	5.2	11	•	•	
0.25	0.33	BN 63B	2	3370	0.70	6.2	0.69	61	0.73	4.2	2.9	2.9	H	2.3	0.0055	3.9	8.6	FD 02	1.75	15	2700	3300	3.0	0.0071	5.6	12	•	•	
0.37	0.5	BN 63C	2	3430	1.03	9.1	0.88	70	0.75	5.5	3.3	3.2	J	3.3	0.0078	5.1	11	FD 02	3.50	30	2500	3000	3.9	0.0093	6.8	15	•	•	
0.37	0.5	BN 71A	2	3420	1.04	9.2	0.86	71	0.77	5.8	3.3	3.1	J	3.5	0.0082	5.4	12	FD 03	3.50	30	2400	3200	4.6	0.0109	8.1	18	•	•	
0.55	0.75	BN 71B	2	3450	1.55	13.7	1.23	76	0.75	6.2	3.4	3.4	K	4.1	0.0097	6.2	14	FD 03	5	44	2200	2700	5.3	0.0126	8.9	20	•	•	
0.75	1	BN 71C	2	3440	2.08	18.4	1.62	77	0.75	6.2	3.8	3.5	K	5.0	0.0119	7.3	16	FD 03	5	44	1500	2100	6.1	0.0145	10	22	•	•	
0.75	1	BN 80A	2	3440	2.1	18.3	1.62	76	0.76	5.9	3.1	2.8	J	7.8	0.0185	8.6	19	FD 04	5	44	1400	1700	9.4	0.0223	12.5	28	•	•	
1.1	1.5	BN 80B	2	3430	3.1	27.6	2.4	77	0.76	6.2	3.8	2.9	J	9.0	0.0214	9.5	21	FD 04	10	88	1200	1600	10.6	0.0252	13.4	30	•	•	
1.5	2	BN 80C	2	3415	4.2	37.2	2.9	81	0.79	6.8	3	2.9	J	11.4	0.0271	11.3	25	FD 04	15	133	1000	1300	13.0	0.0308	15.2	34	•	•	
1.5	2	BN 90SA	2	3480	4.1	36.2	3.04	79	0.78	7.3	3.6	3.2	K	12.5	0.0297	12.2	27	FD 14	15	133	750	1000	14.1	0.0335	16.5	36	•	•	
1.85	2.5	BN 90SB	2	3500	5.0	44.3	3.63	80	0.79	8.5	4.2	3.8	L	16.7	0.0397	14.1	31	FD 14	15	133	750	1000	18.3	0.0434	18.2	40	•	•	
2.2	3	BN 90L	2	3490	6.1	54	4.4	81	0.79	7.3	3.8	3.3	K	16.7	0.0397	14.1	31	FD 05	26	230	750	1000	21.0	0.0498	20	44	•	•	
3	4	BN 100L	2	3470	8.3	73.5	5.9	79	0.81	7.6	3.7	4	L	31.0	0.0736	20	44	FD 15	40	354	452	611	35.0	0.0831	26	57	•	•	
3.7	5	BN 100LB	2	3490	10.2	90	6.7	84	0.83	6.7	2.9	3.3	J	39.0	0.0926	23	51	FD 15	40	354	360	500	43.0	0.102	29	64	•	•	
4	5.4	BN 100LB	2	3460	11.0	97.4	7.4	83	0.82	7.9	4	3.6	K	39.0	0.0926	23	51	FD 15	40	354	360	500	43.0	0.102	29	64	•	•	
3.7	5	BN 112M	2	3540	10.0	88.5	6.7	86.6	0.80	10.4	4.1	4	M	57.0	0.135	28	62	FD 06S	40	354	280	450	66.0	0.157	39	86	•	•	
4	5.4	BN 112M	2	3530	10.8	95.6	7.2	85.7	0.83	9.7	3.8	3.7	M	57.0	0.135	28	62	FD 06S	40	354	280	450	66.0	0.157	39	86	•	•	
5.5	7.5	BN 132SA	2	3490	15.3	135	9.8	83	0.86	6.4	2.7	2.6	H	101.0	0.240	35	77	FD 06	50	440	—	400	112	0.266	48	106	•	•	
7.5	10	BN 132SB	2	3490	20.5	181	13	82	0.88	6.2	2.8	2.7	H	134.0	0.318	42	93	FD 06	50	440	—	350	145	0.344	55	121	•	•	
9.2	11	BN 132M	2	3530	24.9	220.4	15.5	87	0.86	7.7	3	2.9	K	178.0	0.422	53	117	FD 56	75	664	—	280	189	0.449	66	146	•	•	
11	15	BN 160MR	2	3510	30.6	271	18.3	87	0.88	6.9	2.7	2.9	H	210.0	0.499	65	143										•	•	
15	20	BN 160MB	2	3510	40.6	359	24.2	86	0.9	6	2.5	2.8	G	340.0	0.808	84	185										•	•	
18.5	25	BN 160L	2	3520	50.7	449	29.2	88	0.91	6.9	2.8	2.7	H	420.0	0.998	97	214										•	•	
22	30	BN 180M	2	3520	60.7	537	35.1	88	0.91	6.9	2.8	2.8	H	490.0	1.164	109	240										•	•	
30	40	BN 200LA	2	3530	80.9	716	46.2	89	0.91	6.9	2.6	3.5	H	770.0	1.829	140	309										•	•	

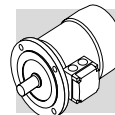


4P			1800 min ⁻¹ - S1																60 Hz									
P _n kW	P _n hp	L _{tot} mm	n min ⁻¹	M _n Nm	I _n 460V A	η%	cosφ	L _a I _n	M _a M _n	M _a M _n	KVA code	J _m x 10 ⁻⁴ kgm ²	IM B5		Mod	M _b Nm	Z _o 1/h		J _m x 10 ⁻⁴ kgm ²	IM B5		CE	CE + UL	CUS variant				
													K ₃₁	lbs			NB	SB		K ₃₁	lbs							
0.06	0.08	BN 56A	4	1670	0.34	3	0.26	53	0.55	2.9	3.1	2.5	J	1.5	0.0036	3.1	6.8							•				
0.09	0.12	BN 56B	4	1670	0.51	4.5	0.37	59	0.52	2.8	2.9	3	H	1.5	0.0036	3.1	6.8							•				
0.12	0.16	BN 63A	4	1650	0.69	6.1	0.43	55	0.64	3.1	2.4	2.2	H	2.0	0.0048	3.5	7.7		15	7000	9000	2.6	0.0062	5.2	11	•		
0.18	0.25	BN 63B	4	1670	1.06	9.4	0.68	58	0.59	3.1	2.8	2.4	H	2.3	0.0055	3.9	8.6		30	7000	9000	3.0	0.0071	5.6	12	•		
0.25	0.33	BN 63C	4	1640	1.5	13.3	0.77	64	0.65	3.3	2.5	2.4	G	3.3	0.0078	5.1	11.2		30	6000	8000	3.9	0.0093	6.8	15	•		
0.25	0.33	BN 71A	4	1700	1.38	12.2	0.65	64	0.74	4.3	2.6	2.1	H	5.8	0.0138	5.1	11		30	6000	8500	6.9	0.0164	7.8	18	•		
0.37	0.5	BN 71B	4	1700	2.1	18.5	0.97	66	0.73	4.5	2.6	2.4	H	6.9	0.0164	5.9	13		5	44	4800	7500	8.0	0.019	8.6	19	•	
0.55	0.75	BN 71C	4	1710	3.1	27.4	1.37	72	0.70	4.9	3	2.8	J	9.1	0.0216	7.3	16		7.5	66	3400	7000	10.2	0.0242	10	22	•	
0.55	0.75	BN 80A	4	1710	3.1	27.6	1.28	73	0.75	4.9	3	2.4	H	15.0	0.0356	8.2	18.1		10	89	3400	7000	16.6	0.0394	12.2	27	•	
0.75	1	BN 80B	4	1720	4.1	36.6	1.6	78	0.75	6.2	3.4	3.1	J	20.0	0.0482	10	22		15	133	3000	6000	22.0	0.0523	13.6	30	•	
1.1	1.5	BN 80C	4	1720	6.1	54.0	2.35	78	0.76	6.5	3.4	3	J	25.0	0.0593	11.3	25		15	133	2000	4200	27.0	0.0641	15.2	34	•	
1.1	1.5	BN 90S	4	1720	6.2	55	2.43	78	0.74	5.7	3.1	2.7	J	21.0	0.0499	12.2	27		15	133	3000	7000	23.0	0.0546	16.3	36	•	
1.5	2	BN 90LA	4	1720	8.2	73	3.12	81	0.74	6.6	3.3	3	K	28.0	0.0665	13.6	30		26	230	2200	4700	32.0	0.0760	19.5	43	•	
1.85	2.5	BN 90LB	4	1720	10.3	91.2	3.8	80	0.76	6.4	3.7	3.2	J	30.0	0.0712	15.1	33		26	230	1800	3800	34.0	0.0807	21.1	47	•	
2.2	3	BN 100LA	4	1720	12.4	110	4.8	81	0.73	5.5	2.7	2.4	H	40.0	0.096	18	40		40	354	1000	2700	44.0	0.105	25	55	•	
3	4	BN 100LB	4	1720	16.7	147.8	6.2	82.6	0.74	5.6	2.3	2.2	H	54.0	0.128	22	49		40	354	600	2300	58.0	0.138	28	62	•	
3.7	5	BN 100LC	4	1730	20.6	182	7.5	84	0.74	5.6	2.8	2.9	K	61.0	0.145	25	55		55	480	—	1200	65.0	0.154	30	66	•	
4	5.4	BN 100LC	4	1710	22.3	197.4	7.9	84	0.76	5.3	2.6	2.7	H	61.0	0.145	25	55		55	480	—	1200	65.0	0.154	30	66	•	
3.7	5	BN 112M	4	1740	20.3	179.7	7.3	83.5	0.76	7.7	3.5	3.3	K	98.0	0.233	30	66		55	480	—	850	107.0	0.254	40	88	•	
4	5.5	BN 112M	4	1730	22.6	200	8	85	0.76	7	3.1	3	K	98.0	0.233	30	66		60	530	—	850	107.0	0.254	40	88	•	
5.5	7.5	BN 132S	4	1730	30.8	273	10	84	0.84	6.3	2.9	2.6	H	213.0	0.506	44	97		75	664	—	850	223.0	0.53	57	126	•	
7.5	10	BN 132MA	4	1740	40.9	362	13.1	85	0.84	6.1	2.9	2.9	H	270.0	0.641	53	117		100	885	—	700	280.0	0.665	66	146	•	
9.2	12.5	BN 132MB	4	1750	50.2	444.3	16.5	87	0.81	6.8	2.7	2.5	H	319.0	0.757	59	130		150	1328	—	728	342.0	0.812	75	165	•	
11	15	BN 160MR	4	1740	61.4	543	19.4	88	0.81	6.5	3.1	3	H	360.0	0.855	70	154		150	1328	—	600	382.0	0.907	86	190	•	
11	15	BN 160M	4	1760	59.7	528.1	18.9	89	0.82	6.1	2.5	2.7	G	479.0	1.367	73	161		150	1328	—	434	501.0	1.188	89	196	•	
15	20	BN 160L	4	1750	81.3	720	24.8	90	0.84	5.8	2.3	2.5	G	650.0	1.544	99	218		200	1770	—	400	725.0	1.720	129	284	•	
18.5	25	BN 180M	4	1760	101.1	895	31.3	90	0.83	5.8	2.5	3	G	790.0	1.876	115	254		250	2210	—	300	865.0	2.054	145	320	•	
22	30	BN 180L	4	1760	119.4	1056.8	39	91	0.79	5.8	2.2	2.7	K	1250.0	2.966	135	298		300	2655	—	103	1450.0	3.441	175	386	•	
30	40	BN 200L	4	1760	162.8	1440.9	52	91	0.80	6.5	2.7	2.8	H	1650.0	3.916	157	346		400	3540	—	74	1850.0	4.390	197	434	•	



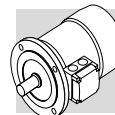
6P			1200 min ⁻¹ - S1																	60 Hz									
P _n kW hp				n min ⁻¹	M _n lb-in	In 460V A	η%	cosφ	$\frac{L_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J _m x 10 ⁻⁴ kgm ² lb-ft ²	IM B5		Mod	M _b		Z _o 1/h NB SB	J _m x 10 ⁻⁴ kgm ² lb-ft ²	IM B5		CE	CE + UL	Standard	CUS variant			
																	Nm	lb-in											
0.09	0.12	BN 63A	6	1100	0.78	6.9	0.48	47	0.5	2.8	2.9	K	3.4	0.0081	4.6	10.1	FD 02	3.5	30	7000	10000	4.0	0.0095	6.3	14	•	•		
0.12	0.16	BN 63B	6	1100	1.04	9.2	0.55	50	0.55	2.4	2.7	H	3.7	0.0088	4.9	10.8	FD 02	3.5	30	7000	10000	4.3	0.0102	6.6	15	•	•		
0.18	0.25	BN 71A	6	1100	1.62	14.3	0.57	61	0.65	3.3	2.8	G	8.4	0.0200	5.5	12.1	FD 03	5	44	6500	10000	9.5	0.0226	8.2	18	•	•		
0.25	0.33	BN 71B	6	1100	2.1	18.9	0.75	64	0.65	3.2	2.6	G	10.9	0.0259	6.7	14.8	FD 03	5	44	6200	8000	12.0	0.0285	9.5	21	•	•		
0.37	0.5	BN 71C	6	1100	3.2	28.3	1.08	66	0.65	3.3	2.6	G	12.9	0.0306	7.7	17	FD 53	7.5	66	4000	7000	14.0	0.0332	10.4	23	•	•		
0.37	0.5	BN 80A	6	1130	3.2	27.9	1.07	67	0.65	3.9	2.8	H	21.0	0.0499	10	22	FD 04	10	88	4100	5500	23.0	0.0546	13.6	30	•	•		
0.55	0.75	BN 80B	6	1140	4.7	41.4	1.38	76	0.66	4.9	3.2	J	25.0	0.0594	11.3	25	FD 04	15	133	3800	5000	27.0	0.0641	15.4	34	•	•		
0.75	1	BN 80C	6	1140	6.3	55.8	2.1	72	0.62	4.8	3.3	J	28.0	0.0664	12.2	27	FD 04	15	133	2700	5000	30.0	0.0712	16.1	35	•	•		
0.75	1	BN 90S	6	1140	6.2	55	2.05	73	0.63	4.5	2.9	J	26.0	0.0618	12.6	28	FD 14	15	133	2700	4000	28.0	0.0665	16.8	37	•	•		
1.1	1.5	BN 90L	6	1140	9.4	83	2.83	75	0.65	4.3	2.8	H	33.0	0.0784	15	33	FD 05	26	230	2000	3500	37.0	0.0879	21	46	•	•		
1.5	2	BN 100LA	6	1140	12.5	111	3.75	76	0.66	4.5	2.4	H	82.0	0.195	22	49	FD 15	40	354	1500	3000	86.0	0.204	28	62	•	•		
1.85	2.5	BN 100LB	6	1150	15.4	136.3	4.3	77	0.70	5.5	2.3	J	95.0	0.225	24	53	FD 15	40	354	1300	2800	99.0	0.235	30	66	•	•		
2.2	3	BN 112M	6	1150	18.5	164	4.9	81	0.69	5.5	2.8	J	168.0	0.400	32	71	FD 06S	60	530	—	1250	177.0	0.420	42	93	•	•		
3.0	4	BN 132S	6	1150	24.9	220.4	6.3	78	0.77	5.9	2.1	J	216.0	0.513	36	79	FD 56	75	664	—	1100	226.0	0.536	49	108	•	•		
3.7	5	BN 132MA	6	1150	31.0	274	7.3	80	0.79	6.1	2.5	J	295.0	0.701	45	99	FD 06	100	885	—	900	305.0	0.724	58	128	•	•		
4.0	5.5	BN 132MA	6	1160	32.9	291.2	8.3	82	0.74	5.4	2.4	G	295.0	0.701	45	99	FD 06	100	885	—	900	308.0	0.724	58	128	•	•		
5.5	7.5	BN 132MB	6	1140	46.8	414	11.2	82	0.75	5.4	2.7	H	383.0	0.910	56	123	FD 07	150	1328	—	800	406.0	0.964	72	159	•	•		
7.5	10	BN 160M	6	1160	61.4	543	13.5	85	0.82	5.8	2.3	G	740.0	1.758	83	183	FD 08	170	1500	—	550	815.0	1.936	112	247	•	•		
11.0	15	BN 160L	6	1160	92.1	815	19.8	84	0.83	5.8	2.5	G	970.0	2.304	103	227	FD 08	200	1770	—	400	1045.0	2.482	133	293	•	•		
15.0	20	BN 180L	6	1150	124.6	1102.4	28.3	86	0.77	6.2	2.6	H	1550.0	3.678	130	287	FD 09	300	2655	—	360	1750.0	4.153	170	375	•	•		
18.5	25	BN 200LA	6	1150	153.6	1359.6	32.3	89	0.81	5.9	2.5	G	1700.0	4.034	145	320	FD 09	400	3540	—	340	1900.0	4.509	185	408	•	•		

A technical line drawing of a motor. It features a cylindrical body with a flange at the front. The flange has four mounting holes. A mounting bracket is attached to the side of the motor body, with two screws visible. A shaft extends from the center of the flange.

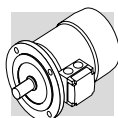


4P			1500 min ⁻¹ - S1																	50 Hz									
P _n kW	P _n hp	n min ⁻¹	M _n Nm	In 400V A	η%		cosφ	I _s I _n	M _s M _n	M _a M _n	KVA code	J _m x 10 ⁻⁴ kgm ²	IM B5 	Mod	M _b		Z ₀ 1/h		J _m x 10 ⁻⁴ kgm ²	lb-ft ²	IM B5 	CE + UL	CE + CCC						
					100%	75%									Nm	lb-in	NB	SB											
0.09	0.12	M 0B 4	1350	0.64	5.7	0.42	51.7	47.6	42.9	0.6	2.6	2.5	2.4	H	1.5	0.0036	2.9	6.4				•	•						
0.12	0.16	M 05A 4	1350	0.85	7.5	0.47	59.8	56.2	47	0.62	2.6	1.9	1.8	E	2	0.0047	3.2	7.1	FD 02	1.75	15	10000	13000	2.6	0.0062	4.9	11	•	•
0.18	0.25	M 05B 4	1320	1.3	11.5	0.71	54.8	52.9	52.5	0.67	2.6	2.2	2	A	2.3	0.0055	3.6	7.9	FD 02	3.5	31	10000	13000	3	0.0071	5.3	12	•	•
0.25	0.33	M 05C 4	1340	1.78	15.8	0.8	65.3	65	57.9	0.69	2.7	2.1	1.9	E	3.3	0.0078	4.8	11	FD 02	3.5	31	7800	10000	3.9	0.0093	6.5	14	•	•
0.37	0.5	M 1SD 4	1370	2.6	23	1.05	66.8	66.7	63	0.76	3.7	2	1.9	D	6.9	0.0164	5.5	12	FD 03	5	44	6000	9400	8	0.0190	8.2	18	•	•
0.55	0.75	M 1LA 4	1380	3.8	33.6	1.55	69	68.9	68.8	0.74	4.1	2.3	2.3	G	9.1	0.0216	6.9	15	FD 53	7.5	66	4300	8700	10.2	0.0242	9.6	21	•	•
0.75	1	M 2SA 4	1400	5.1	45	1.85	75	74.5	69.3	0.78	4.9	2.7	2.5	A	20	0.0475	9.2	20	FD 04	15	133	4100	7800	22	0.0522	13.1	29	•	•
1.1	1.5	M 2SB 4	1400	7.5	66	2.66	76.4	76.2	70.4	0.78	5.1	2.8	2.5	G	25	0.0593	10.6	23	FD 04	15	133	2600	5300	27	0.0641	14.5	32	•	•
1.5	2	M 3SA 4	1410	10.2	90	3.5	79.6	80.5	79.3	0.77	4.6	2.1	2.1	D	34	0.0807	15.5	34	FD 15	26	230	2800	4900	38	0.0902	22	49	•	•
2.2	3	M 3LA 4	1410	14.9	132	5.2	81.1	81.4	79.9	0.75	4.5	2.2	2	A	40	0.0949	17	37	FD 15	40	354	2600	4700	44	0.1044	24	53	•	•
3	4	M 3LB 4	1410	20	177	6.8	82.6	83.8	83.7	0.77	5	2.3	2.2	G	54	0.1281	21	46	FD 15	40	354	2400	4400	58	0.1376	27	60	•	•
4	5.5	M 3LC 4	1400	27	239	9	82.7	83.1	80.5	0.78	4.7	2.3	2.2	F	61	0.1448	23	51	FD 55	55	487	—	1300	65	0.1542	29	64	•	•
5.5	7.5	M 4SA 4	1440	36	319	11.6	84.7	84.8	82.5	0.81	5.5	2.3	2.2	A	213	0.5055	42	93	FD 56	75	664	—	1050	223	0.5292	55	121	•	•
7.5	10	M 4LA 4	1440	50	443	15.5	86	86.3	85.3	0.81	5.7	2.5	2.4	G	270	0.6407	51	112	FD 06	100	885	—	950	280	0.6645	64	141	•	•
9.2	12.5	M 4LB 4	1440	61	540	18.8	88.4	88.6	87.5	0.81	5.9	2.7	2.5	G	319	0.7570	57	126	FD 07	150	1328	—	900	342	0.8116	73	161	•	•
11	15	M 4LC 4	1440	73	646	22.4	87.6	87.8	86	0.81	6	2.7	2.5	G	360	0.8543	65	143	FD 07	150	1328	—	850	382	0.9065	81	179	•	•
15	20	M 5SB 4	1460	98	867	30.1	88.7	88.5	88.4	0.81	6	2.3	2.1	G	650	1.5425	85	187	FD 08	200	1770	—	750	725	1.7205	115	254	•	•
18.5	25	M 5LA 4	1460	121	1071	37	89.3	89.5	89.2	0.81	6.2	2.6	2.5	H	790	1.8747	101	223	FD 08	250	2213	—	700	865	2.0527	131	289	•	•

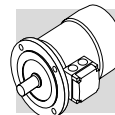
A technical line drawing of a motor assembly. It features a cylindrical body with a circular end face on the left. This end face has a central shaft protruding outwards and is surrounded by a flange with four mounting holes. A cooling fan is attached to the side of the motor body, consisting of a rectangular base and a fan blade structure.



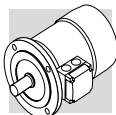
2P			3600 min ⁻¹ - S1														60 Hz									
P _n kW	P _n hp		n min ⁻¹	M _n Nm	In 460V A	η%	cosφ	$\frac{I_a}{I_n}$	$\frac{M_a}{M_n}$	$\frac{M_s}{M_n}$	KVA code	J _m x 10 ⁻⁴ kgm ² lb-ft ²	IM B5		Mod	M _b Nm lb-in	Z _o 1/h NB SB		J _m x 10 ⁻⁴ kgm ² lb-ft ²	IM B5		Standard	CUS variant			
																										
													CE	CE + UL												
0.18	0.25	M 05A 2	3380	0.53	4.7	58	0.74	4.1	3	2.4	H	2.0	0.0048	3.2	7.1	FD 02	1.75	15	2700	3300	2.6	0.0062	4.9	11	•	•
0.25	0.33	M 05B 2	3370	0.70	6.2	61	0.73	4.9	3.2	2.9	K	2.3	0.0055	3.6	7.9	FD 02	1.75	15	2700	3300	3.0	0.0071	5.3	12	•	•
0.37	0.5	M 05C 2	3430	1.04	9.2	69	0.76	5.5	3.3	3.2	J	3.3	0.0078	4.8	10.6	FD 02	3.5	30	2500	3000	3.9	0.0093	6.5	14	•	•
0.55	0.75	M 1SD 2	3450	1.55	13.7	76	0.75	6.2	3.4	3.4	K	4.1	0.0097	5.8	12.8	FD 03	5	44	2200	2700	5.3	0.0126	8.5	19	•	•
0.75	1	M 1LA 2	3440	2.07	18.3	77	0.75	6.2	3.8	3.5	K	5.0	0.0119	6.9	15.2	FD 03	5	44	1500	2100	6.1	0.0145	9.5	21	•	•
1.1	1.5	M 2SA 2	3430	3.12	27.6	77	0.76	6.2	3.8	2.9	J	9.0	0.0214	8.8	19.4	FD 04	10	88	1200	1600	10.6	0.0252	12.7	28	•	•
1.5	2	M 2SB 2	3415	4.16	36.8	80	0.79	6	3.3	2.9	H	11.4	0.0271	10.4	23	FD 04	15	133	1000	1300	13.0	0.0309	14.5	32	•	•
2.2	3	M 3SA 2	3430	6.21	55	81	0.83	6	2.4	3.2	H	24.0	0.0570	15.4	34	FD 15	26	230	800	1000	28.0	0.0665	22	49	•	•
3	4	M 3LA 2	3470	8.3	73.5	79	0.81	7.6	3.7	4	K	31.0	0.0736	18.7	34	FD 15	40	354	450	600	35.0	0.0831	25	55	•	•
3.7	5	M 3LB 2	3490	10.4	92	84	0.83	6.7	2.9	3.2	J	39.0	0.0926	22	49	FD 15	40	354	360	500	43.0	0.102	28	62	•	•
4	5.4	M 3LB 2	3460	11.0	97.4	83	0.82	7.9	4	3.6	K	39.0	0.0926	22	49	FD 15	40	354	360	500	43.0	0.102	28	62	•	•
5.5	7.5	M 4SA 2	3490	15.3	135	83	0.86	6.4	2.7	2.6	H	101	0.2400	33	72	FD 06	50	440	—	400	112.0	0.266	46	101	•	•
7.5	10	M 4SB 2	3490	20.5	181	82	0.88	6.2	2.8	2.7	H	134	0.318	40	88	FD 06	50	440	—	350	145.0	0.344	53	117	•	•
9.2	12.5	M 4LA 2	3530	24.9	220	87	0.86	7.7	3	2.9	K	178	0.422	51	112	FD 56	75	664	—	280	189.0	0.449	64	141	•	•
11	15	M 4LC 2	3510	30.6	271	87	0.88	6.9	2.7	2.9	H	210	0.499	60	132										•	•
15	20	M 5SB 2	3510	40.6	359	86	0.9	6	2.5	2.8	G	340	0.808	70	154										•	•
18.5	25	M 5SC 2	3520	50.7	449	88	0.91	6.9	2.8	2.7	H	420	0.998	83	183										•	•
22	30	M 5LA 2	3520	60.7	537	88	0.91	6.9	2.8	2.8	H	490	1.164	95	209										•	•



4P			1800 min ⁻¹ - S1														60 Hz											
P _n kW	hp		n min ⁻¹	M _n Nm	In 460V A	η%	cosφ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_s}{M_n}$	KVA code	J _m x 10 ⁻⁴ kgm ²	  lb-ft ²	IM B5  lbs	Mod	M _b Nm	Z _o 1/h		J _m x 10 ⁻⁴ kgm ²	  lb-ft ²	IM B5  lbs	CE	CE + UL	Cus Variant				
																	NB	SB										
																									frein c.c.			
														FD										CE	CE + UL	Cus Variant		
0.09	0.12	M 0B 4	1670	0.51	4.5	0.37	59	0.52	2.8	2.9	3	H	1.5	0.0036	2.9	6.4							•	•				
0.12	0.16	M 05A 4	1690	0.68	6	0.43	60	0.57	3.1	2.4	2.3	H	2.0	0.0048	3.2	7.1	FD 02	1.75	15	7000	9000	2.6	0.0062	4.9	11	•	•	
0.18	0.25	M 05B 4	1670	1.06	9.4	0.65	58	0.6	3.2	2.8	2.4	H	2.3	0.0055	3.6	7.9	FD 02	3.5	30	7000	9000	3.0	0.0071	5.3	12	•	•	
0.25	0.33	M 05C 4	1670	1.40	12.4	0.77	64	0.65	3.3	2.5	2.4	G	3.3	0.0078	4.8	10.6	FD 02	3.5	30	6000	8000	3.9	0.0093	6.5	14	•	•	
0.37	0.5	M 1SD 4	1700	2.09	18.5	0.96	66	0.73	4.5	2.6	2.4	H	6.9	0.0164	5.5	12.1	FD 03	5.0	44	4800	7500	8.0	0.019	8.2	18	•	•	
0.55	0.75	M 1LA 4	1710	3.12	27.6	1.37	72	0.7	4.9	3	2.8	J	9.1	0.0216	6.9	15.2	FD 53	7.5	66	3400	7000	10.2	0.0242	9.5	21	•	•	
0.75	1	M 2SA 4	1720	4.14	36.6	1.61	78	0.75	6.2	3.4	3.1	J	20.0	0.0475	9.1	20	FD 04	15	133	3000	6000	22.0	0.0523	13.2	29	•	•	
1.1	1.5	M 2SB 4	1720	6.21	55	2.33	78	0.76	6.3	3.4	3	J	25	0.0594	10.4	23	FD 04	15	133	2000	4200	27.0	0.0641	14.5	32	•	•	
1.5	2	M 3SA 4	1720	8.25	73	3.15	82	0.73	5.7	2.9	2.6	J	34.0	0.0808	15.4	34	FD 15	26	230	1500	3000	38.0	0.0903	22	49	•	•	
2.2	3	M 3LA 4	1720	12.4	110	4.67	81	0.73	5.5	2.7	2.4	H	40.0	0.0960	16.8	37	FD 15	40	354	1000	2700	44.0	0.105	24	53	•	•	
3	4	M 3LB 4	1720	16.7	147.8	6.2	82.6	0.74	5.6	2.3	2.2	H	54.0	0.128	21	46	FD 15	40	354	600	2300	58.0	0.138	27	60	•	•	
3.7	5	M 3LC 4	1730	20.6	182	7.5	84	0.74	5.6	2.8	2.9	H	61.0	0.145	23	51	FD 55	55	480	—	1200	65.0	0.154	29	64	•	•	
4	5.4	M 3LC 4	1710	22.3	197.4	7.9	84	0.76	5.4	2.7	2.8	H	61.0	0.145	23	51	FD 55	55	480	—	1200	65.0	0.154	29	64	•	•	
5.5	7.5	M 4SA 4	1730	30.8	273	9.8	84	0.84	6.3	2.9	2.6	H	213.0	0.506	42	93	FD 56	75	664	—	850	223.0	0.53	55	121	•	•	
7.5	10	M 4LA 4	1740	40.9	362	13.2	85	0.84	6.1	2.9	2.9	H	270.0	0.641	51	112	FD 06	100	885	—	700	280.0	0.665	64	141	•	•	
9.2	12.5	M 4LB 4	1750	50.2	444.3	16.5	87	0.81	6.8	2.7	2.5	H	319.0	0.757	57	126	FD 07	150	1328	—	728	342.0	0.812	73	161	•	•	
11	15	M 4LC 4	1740	61.4	543	19.4	88	0.81	6.5	3.1	3	H	360.0	0.855	65	143	FD 07	150	1328	—	600	382.0	0.907	81	179	•	•	
15	20	M 5SB 4	1750	81.4	720	24.9	90	0.84	5.8	2.3	2.5	G	650.0	1.544	85	187	FD 08	200	1770	—	400	725.0	1.7202	115	254	•	•	
18.5	25	M 5LA 4	1760	101	895	31.1	90	0.83	5.8	2.5	3	G	790.0	1.876	101	223	FD 08	250	2210	—	300	865.0	2.054	131	289	•	•	

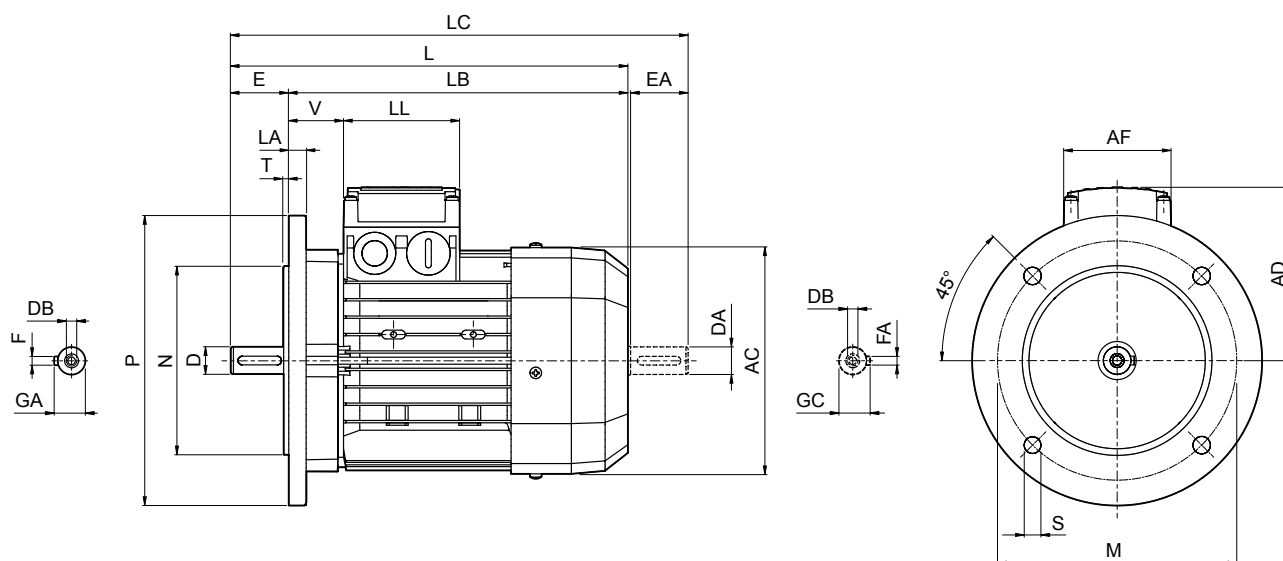


6P			1200 min ⁻¹ - S1															60 Hz										
P _n	kW	hp		n	M _n	In	η%	cosφ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_{s-}}{M_n}$	KVA code	J _m x 10 ⁻⁴ kgm ² lb-ft ²	IM B5		Mod	M _b		Z _o 1/h		J _m x 10 ⁻⁴ kgm ² lb-ft ²	IM B5		CE	Standard	CUS variant		
																	Nm	lb-in	NB	SB								
frein c.c.																												
FD																												
0,09	0,12	M 05A 6		1100	0,78	6,9	0,52	47	0,46	2,4	2,9	2,3	K	3,4	0,0081	4,3	9,5	FD 02	3,5	30	7000	10000	4,0	0,0095	6	13	•	•
0,12	0,16	M 05B 6		1100	1,04	9,2	0,57	49	0,54	2,3	2,4	2,2	H	3,7	0,0088	4,6	10,1	FD 02	3,5	30	7000	10000	4,3	0,0102	6,3	14	•	•
0,18	0,25	M 15C 6		1100	1,62	14,3	0,57	61	0,65	3,3	2,6	2	G	8,4	0,0200	5,1	11,2	FD 03	5	44	6500	10000	9,5	0,0226	7,8	17	•	•
0,25	0,33	M 15D 6		1100	2,1	18,9	0,75	64	0,65	3,2	2,6	2,1	G	10,9	0,0259	6,3	13,9	FD 03	5	44	6200	8000	12,0	0,0290	9	20	•	•
0,37	0,5	M 15A 6		1100	3,2	28,6	1,08	66	0,65	3,3	2,6	2,4	G	12,9	0,0306	7,3	16,1	FD 53	7,5	66	4000	7000	14,0	0,0330	10	22	•	•
0,55	0,75	M 25A 6		1140	4,7	41,4	1,38	76	0,66	4,9	3,2	2,7	J	25,0	0,0594	10,4	23	FD 04	15	133	3800	5000	27,0	0,0641	14,5	32	•	•
0,75	1	M 25B 6		1140	6,3	55	2,03	76	0,61	4,4	2,8	2,8	J	28,0	0,0665	11,3	25	FD 04	15	133	2700	5000	30,0	0,0713	15,4	34	•	•
1,1	1,5	M 35A 6		1140	9,4	83	2,74	74	0,68	4,4	2,4	2,2	H	62	0,147	16,8	37	FD 15	26	230	2300	4500	66,2	0,157	23	51	•	•
1,5	2	M 35A 6		1140	12,5	111	3,75	76	0,66	4,5	2,4	2,4	H	82,0	0,195	21	46	FD 15	40	354	1500	3000	86,0	0,204	27	60	•	•
1,85	2,5	M 35B 6		1150	15,4	136,0	4,3	77	0,70	5,5	2,3	2,5	J	95,0	0,226	23	51	FD 15	40	354	1300	2800	99,0	0,235	29	64	•	•
2,2	3	M 35C 6		1140	18,8	166	5,3	77	0,68	5,1	2,6	2,6	J	95,0	0,226	23	51	FD 55	55	480	—	1500	99,0	0,235	29	64	•	•
3	4	M 45A 6		1150	24,9	220,4	6,3	78	0,77	5,9	2,1	2,3	J	216,0	0,513	34	75	FD 56	75	664	—	1100	226,0	0,536	47	104	•	•
3,7	5	M 45A 6		1150	31,0	274	7,3	80	0,79	6,1	2,5	2,3	J	295,0	0,701	43	95	FD 06	100	885	—	900	305,0	0,724	56	123	•	•
4	5,5	M 45A 6		1160	32,9	291,2	8,3	82	0,74	5,4	2,4	2,9	G	295,0	0,701	43	95	FD 06	100	885	—	900	305,0	0,724	56	123	•	•
5,5	7,5	M 45B 6		1140	46,8	414	11,2	82	0,75	5,4	2,7	2,3	H	383,0	0,910	54	119	FD 07	150	1328	—	800	406,0	0,964	70	154	•	•
7,5	10	M 55A 6		1160	61,4	543	13,5	85	0,82	5,8	2,3	2,4	G	740,0	1,758	69	152	FD 08	170	1500	—	550	815,0	1,936	98	216	•	•
11	15	M 55B 6		1160	92,1	815	19,8	84	0,83	5,8	2,5	2,7	G	970,0	2,304	89	196	FD 08	200	1770	—	400	1045,0	2,482	119	262	•	•



M22 DONNEES TECHNIQUES DES MOTEURS BN-M

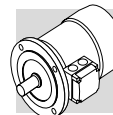
BN - IM B5



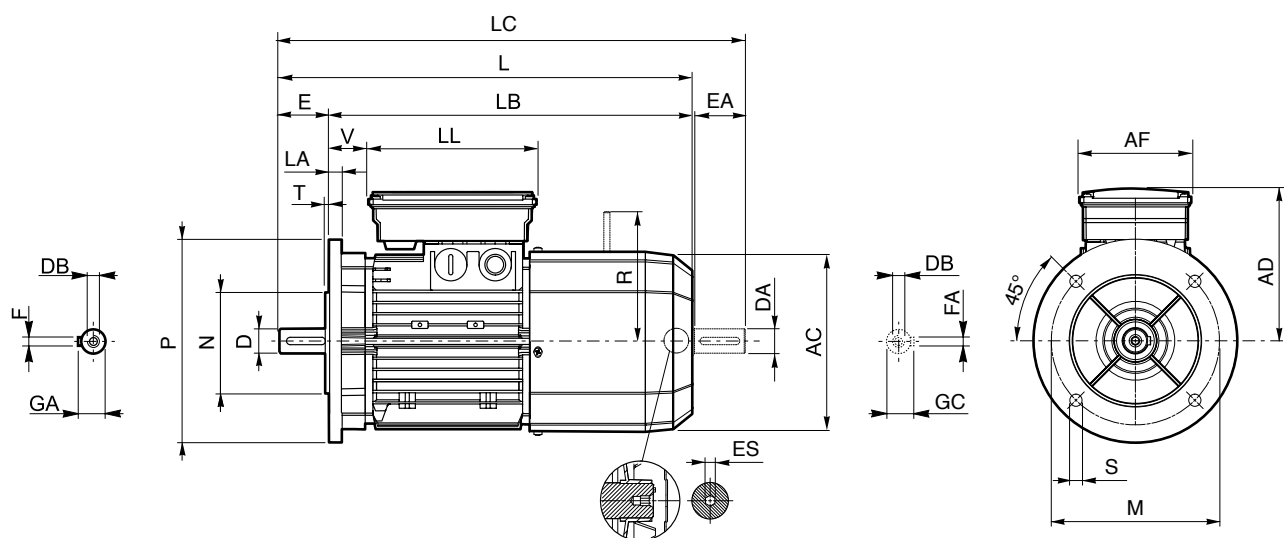
BN-IE1

	Arbre					Bride						Moteur										
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V			
BN 56	9	20	M3	10.2	3	100	80	120	7	3	8	110	185	165	207	91	74	80	34			
BN 63	11	23	M4	12.5	4	115	95	140	9.5		10	121	207	184	232	95			26			
BN 71	14	30	M5	16	5	130	110	160				3.5	11.5	138	249	219			281	108	37	
BN 80	19	40	M6	21.5	6	165	130	200	11.5	3.5	11.5			156	274	234	315	119	98	98	38	
BN 90	24	50	M8	27	8							215	180	250	14	4	176	326			276	378
BN 100	28	60	M10	31		265	230	300	18.5	5	14						195	367			307	429
BN 112											15						219	385	325	448	157	52
BN 132	38	80	M12	41	10	265	230	300			18.5	5	20	258	493	413	576	193	118	118	58	
BN 160 MR	42 38 ⁽¹⁾	110 80 ⁽¹⁾	M16 M12 ⁽¹⁾	45 41 ⁽¹⁾	12 10 ⁽¹⁾	300	250	350	15	562			452		645	245	218					
BN 160 M										310			596	486	680	261	187	187	51			
BN 160 L									310											640	530	724
BN 180 M	48 38 ⁽¹⁾	110 110 ⁽¹⁾	M16 M16 ⁽¹⁾	51.5 41 ⁽¹⁾	14 10 ⁽¹⁾	350	300	400		18			348	708	598							
BN 180 L	48 42 ⁽¹⁾			51.5 45 ⁽¹⁾	14 12 ⁽¹⁾				722					612	837							
BN 200 L	55 42 ⁽¹⁾		M20 M16 ⁽¹⁾	59 45 ⁽¹⁾	16 12 ⁽¹⁾																	

REMARQUE : 1) Ces dimensions se réfèrent à la deuxième extrémité de l'arbre.



BN - IM B5 - FD



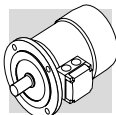
	Arbre					Bride						Moteur																									
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V	R	ES																
BN 63	11	23	M4	12.5	4	115	95	140	9.5	3	10	121	272	249	297	122	98	133	14	96	5																
BN 71	14	30	M5	16	5	130	110	160	9.5	3.5		138	310	280	342	135			25	103																	
BN 80	19	40	M6	21.5	6	165	130	200	11.5		11.5	156	346	306	388	146			41	129		6															
BN 90 S	24	50	M8	27	8					14		4	14	195	458	398	521	158	110	165	39		160														
BN 90 L											146													165	62	199											
BN 100	28	60	M10	31	215	180	250	14	4	15	219	484	424	547	173	165	73	199	204 ⁽²⁾	—																	
BN 112																					20	258	603	523	686	210	140	188	161	226							
BN 132	38	80	M12	41	10	265	230	300	5	15	310	736	626	820	245	187	187	51	266	—																	
BN 160 MR	42 38 ⁽¹⁾	110 80 ⁽¹⁾	M16 M12 ⁽¹⁾	45 41 ⁽¹⁾	12 10 ⁽¹⁾	300	250	350				18.5	780	670							864	261	64	305													
BN 160 M											42 38 ⁽¹⁾				51.5 41 ⁽¹⁾	14 10 ⁽¹⁾	866	756	981						52	305											
BN 160 L	48 38 ⁽¹⁾			110 ⁽¹⁾	M16 M16 ⁽¹⁾						51.5 45 ⁽¹⁾		14 12 ⁽¹⁾	350	300	400	18.5	18	348		878	768	993	64	305												
BN 180 M	48 38 ⁽¹⁾	110 ⁽¹⁾	M16 M16 ⁽¹⁾	51.5 45 ⁽¹⁾	14 12 ⁽¹⁾	350	300	400			18.5	18	348	878	768	993	261	64	305		—																
BN 180 L	48 42 ⁽¹⁾																					M16 M16 ⁽¹⁾	51.5 45 ⁽¹⁾	14 12 ⁽¹⁾	350	300	400	18.5	18	348	878	768	993	261	64	305	—
BN 200 L	55 42 ⁽¹⁾																					M20 M16 ⁽¹⁾	59 45 ⁽¹⁾	16 12 ⁽¹⁾	350	300	400	18.5	18	348	878	768	993	261	64	305	—

REMARQUE :

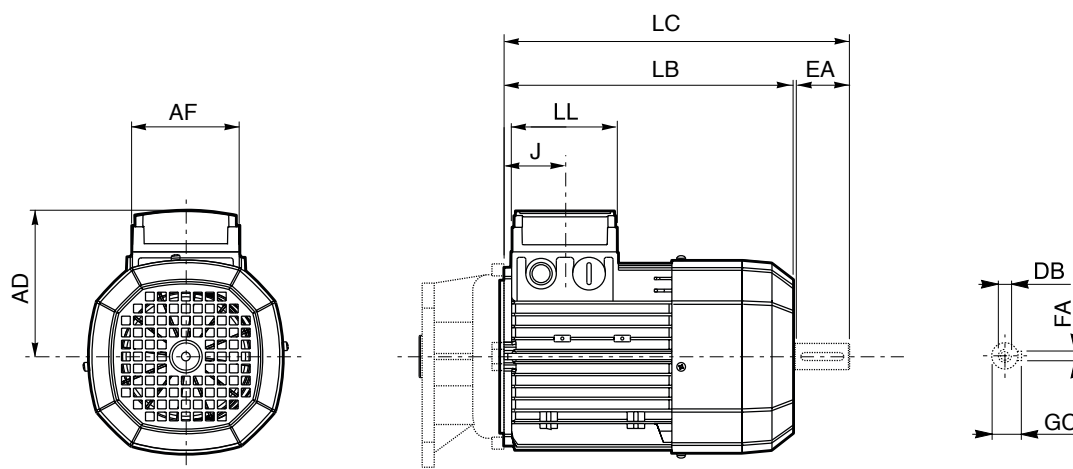
1) Ces dimensions se réfèrent à la deuxième extrémité de l'arbre.

2) Pour frein FD07 valeur R=226.

L'hexagone ES n'est pas disponible avec l'option PS.

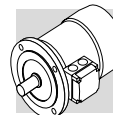


M

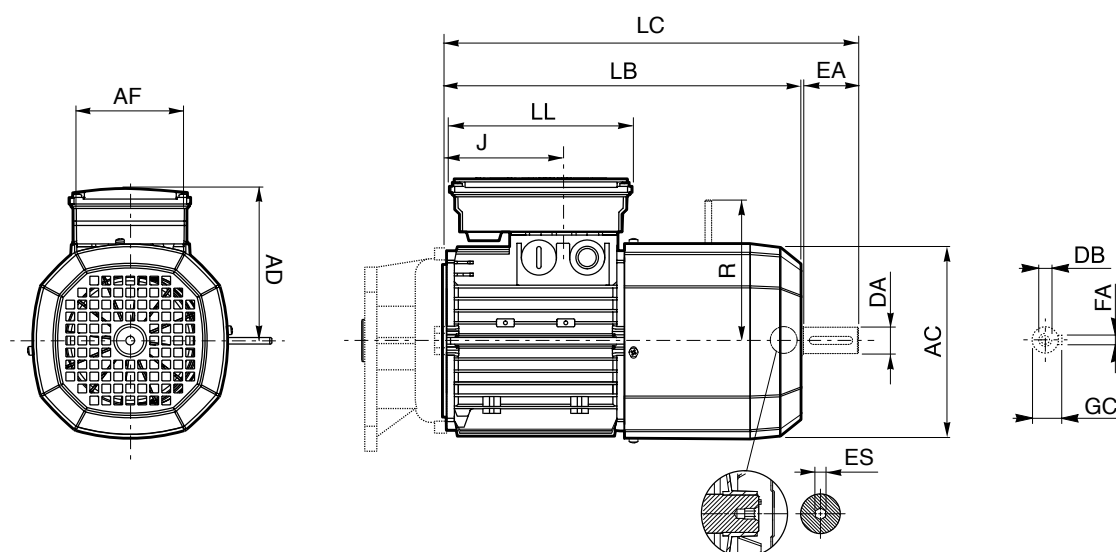


M-IE1

	Deuxième extrémité de l'arbre					Moteur						
	DA	EA	DB	FA	GC	AC	LB	LC	AF	LL	J	AD
M 0	9	20	M3	3	10.2	110	133	155	74	80	42	91
M 05	11	23	M4	4	12.5	121	165	191			48	95
M 1	14	30	M5	5	16	138	187	219			45	108
M 2 S	19	40	M6	6	21.5	156	202	245			44	119
M 3 S	28	60	M10	8	31	195	230	293	98	98	53.5	142
M 3 L							262	325				
M 4	38	80	M12	10	41	258	361	444	118	118	64.5	193
M 4 LC							396	479				
M 5 S						310	418	502	187	187	77	245
M 5 L							462	546				



M - FD



	Deuxième extrémité de l'arbre					Moteur								
	DA	EA	DB	FA	GC	AC	LB	LC	AF	LL	J	AD	R	ES
M 05	11	23	M4	4	12.5	121	231	256	98	133	48	122	96	5
M 1	14	30	M5	5	16	138	248	280			73	135	103	
M 2 S	19	40	M6	6	21.5	156	272	314			88	146	129	
M 3 S	28	60	M10	8	31	195	326	389	110	165	124.5	158	160	6
M 3 L							353	416						
M 4	38	80	M12	10	41	258	470	553	140	188	185.5	210	204 (1)	
M 4 LC							495	578			64.5		226	
M 5 S						310	558	642	187	187	77	245	266	—
M 5 L							602	686						

REMARQUE :

1) Pour frein FD07 valeur R=226.

L'hexagone ES n'est pas disponible avec l'option PS.



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BR_CAT_CAFS_IE2-IE3_FRA_R14_0	
	Description
	<p>Modification mineure dans la section consacrée aux variantes de la servoventilation</p> <p>Ajout de la disponibilité des moteurs électriques BY</p> <p>Corrections mineures apportées aux dimensions et aux tableaux de classification</p> <p>Suppression des freins FA en raison de leur retrait progressif</p> <p>Mise à jour de la section relative aux normes applicables aux moteurs</p>

2026 06 24

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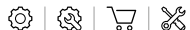
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Castel Maggiore (BO)



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