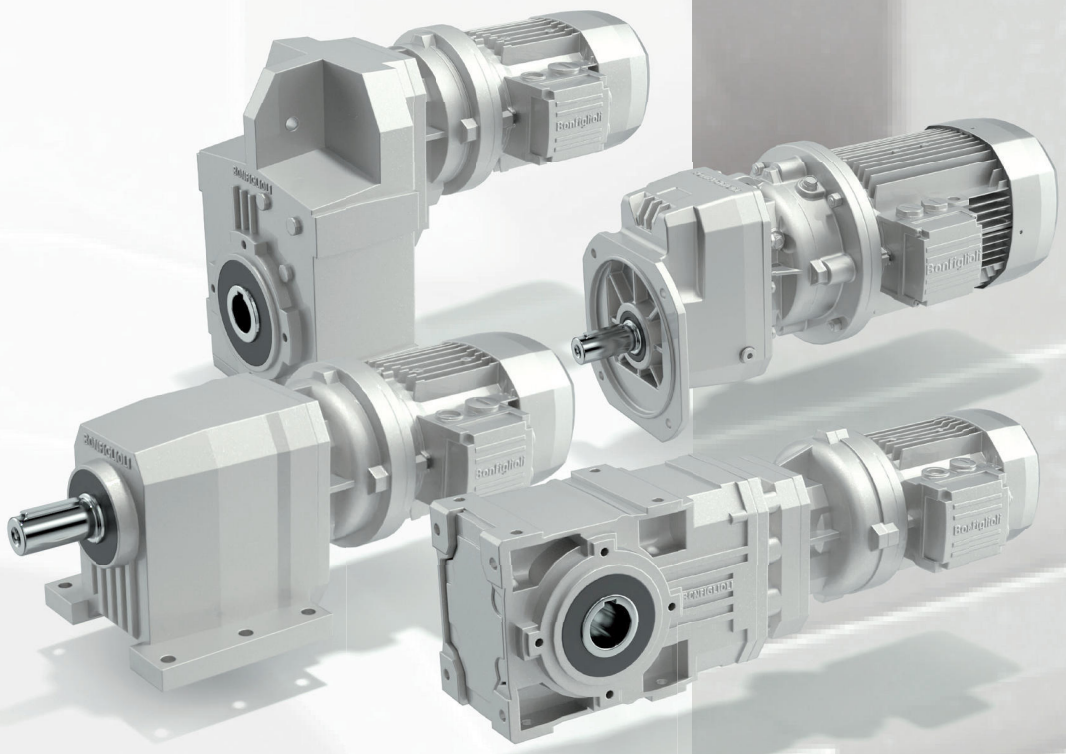
Bonfiglioli

ROYSE
rodamientos y servicios
Desde 1979



C-A-F-S Series

IE2-IE3

Helical gear units C
Helical bevel gear units A
Shaft mounted gear units F
Single stage gearboxes S

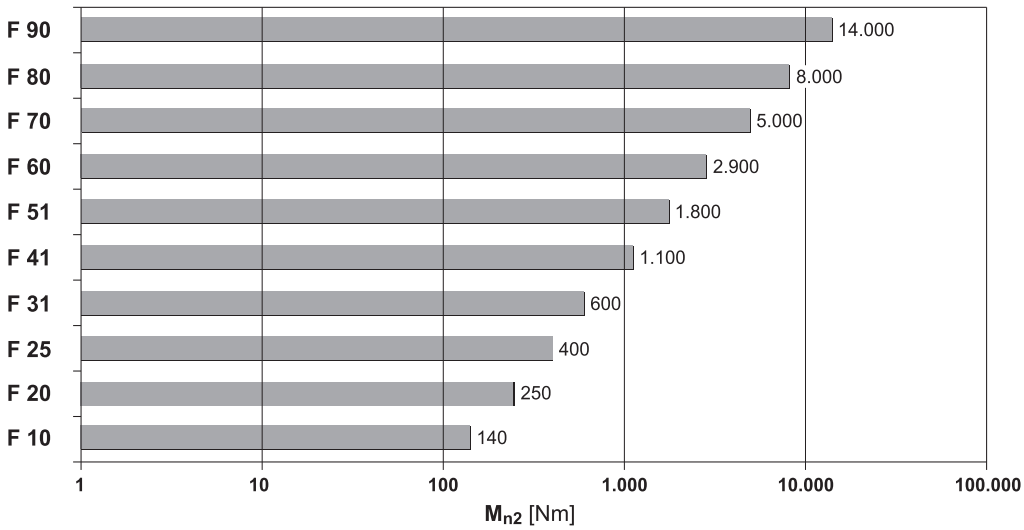
PRODUCTS & SOLUTIONS

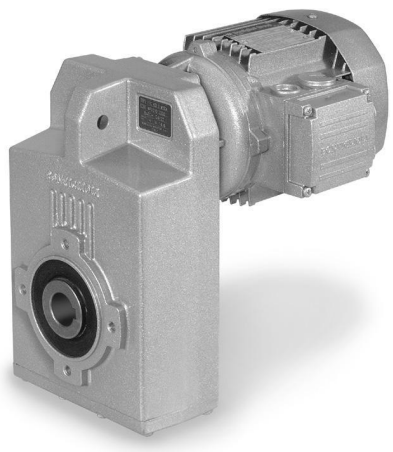
evox PLATFORM INCLUDED

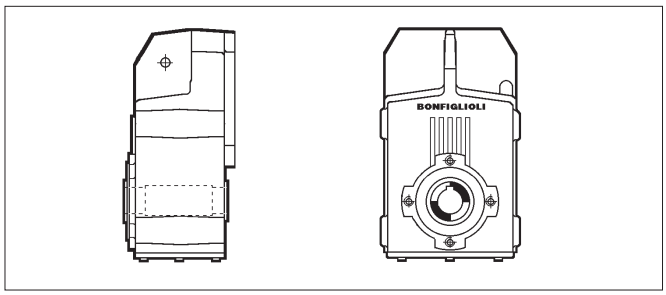
54 DESIGN FEATURES

The main design characteristics are:
- modularity
- space effectiveness
- universal mounting
- high efficiency
- quite operation
- gears in hardened and case-hardened steel
- bare aluminium housing for sizes 10, 20 and 25, high strength painted cast-iron housings for larger frame sizes.

(D 44)



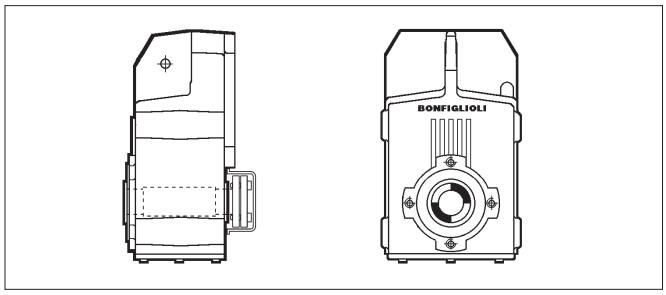




H

Hollow output shaft and keyway

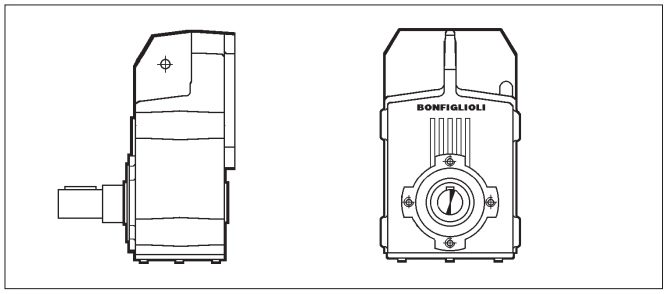
F 10 ... F 90



S

Hollow output shaft and shrink disc

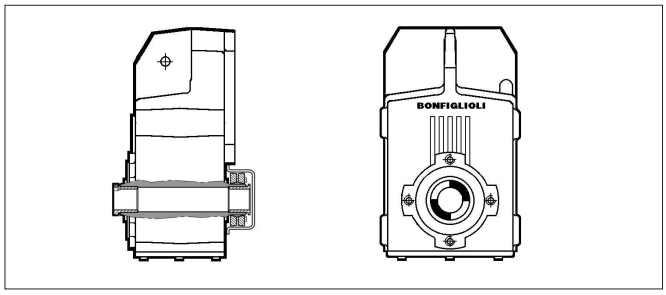
F 10 ... F 90



R

Solid output shaft

F 10 ... F 90



QF (Quick-fit)

Hollow shaft with adapter bushings and shrink disc

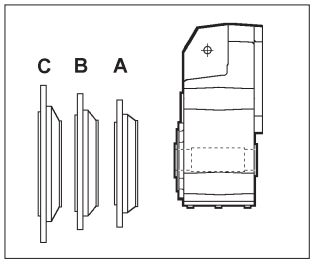
F 10 ... F 60

$M_{n2\ max}$ [Nm]	
F 25 QF30	350
F 41 QF42	850
F 41 QF45	1000
F 51 QF50	1750

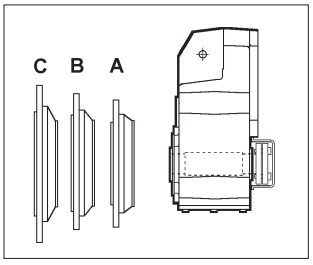
Basic versions with bolted flange

The sketches show the applicable flanges to the basic versions.

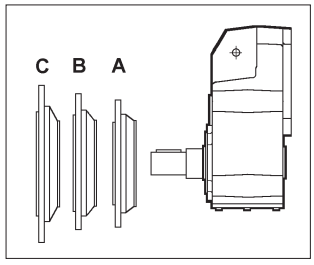
H... F...



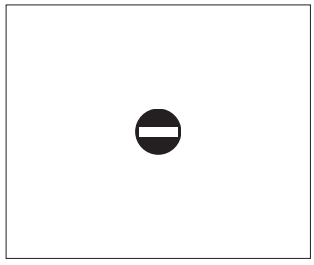
S F...

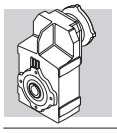


R F...



QF...





56 DESIGNATION

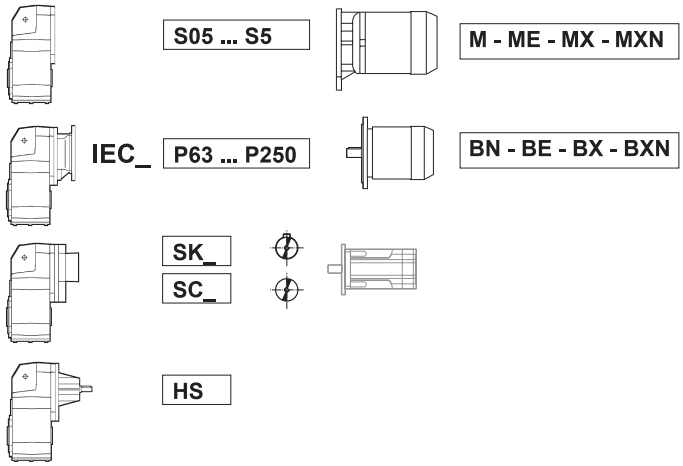
GEAR UNIT

F 10 2 H30 FA 9.8 S2 H5 .....

OPTIONS

MOUNTING POSITION
H1 (Default), **H2**, **H3**, **H4**, **H5**, **H6**

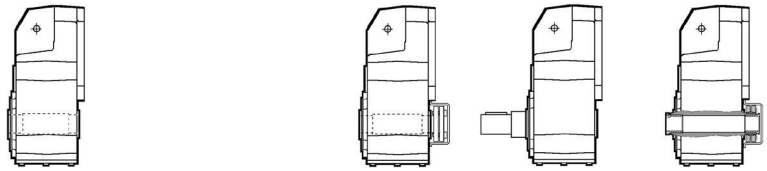
INPUT CONFIGURATION



GEAR RATIO

OUTPUT FLANGE SIZE AND POSITION (specify only if requested)
F = Flanged version
A, **B**, **C** = Flange size

VERSION



	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

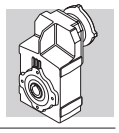
S (F 10...F 90) **R** (F 10...F 90) **QF** (F 10...F 60)

← Alternative diameters available on request

REDUCTIONS
2 (F 10...F 51), **3** (F 20...F 90), **4** (F 31...F 90)

GEAR FRAME SIZE
10, **20**, **25**, **31**, **41**, **51**, **60**, **70**, **80**, **90**

TYPE **F** = helical shaft-mounted gear unit



MOTOR | BRAKE

M 1LA 4 230/400-50 IP54 CLF ..... **W FD** 7.5 R SB 220 SA .....

OPTIONS

BRAKE SUPPLY

RECTIFIER TYPE
AC/DC
NB, **SB**, **NBR**, **SBR**

BRAKE HAND RELEASE
R, **RM**

BRAKE TORQUE

BRAKE TYPE
FD (d.c. brake)
FA (a.c. brake)

TERMINAL BOX POSITION
W (default), **N**, **E**, **S**

MOTOR MOUNTING
— (compact motor)
B5 (IEC - motor)

INSULATION CLASS
CL F standard
CL H option

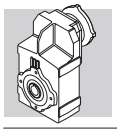
DEGREE OF PROTECTION
IP55 standard (IP54 - brake motor)

VOLTAGE - FREQUENCY
For BXN/MXN see the “Voltage & frequency” section on EVOX catalogue

POLE NUMBER
2, **4**, **6**, **2/4**, **2/6**, **2/8**, **2/12**, **4/6**, **4/8**

MOTOR SIZE
0B ... 5LA (compact motor)
63A ... 250MA (IEC motor)

MOTOR TYPE
MX - MXN = compact 3-phase, class IE3
BX - BXN = IEC 3-phase, class IE3
ME = compact 3-phase, class IE2
BE = IEC 3-phase, class IE2
M = compact 3-phase, class IE1
BN = IEC 3-phase, class IE1



56.1 Gearbox options

LUBRICATION

Gearboxes F10, F20, 25, F31 and F41, are usually factory filled with oil in the standard version.
Gearboxes F51, F60, F70, F80 and F90, are usually supplied unlubricated in the standard version.

However, for all sizes of gearbox factory filled with oil, it is possible to request the supply with more types of oil, selectable according to what is defined in the following table.
The option is not available for gearboxes F51, F60, F70, F80 e F90 in mounting position H6.

LUBRICATION	Type	Designation	Producer
LU	PolyAlfaOlefine (PAO)	OMALA S4 GX 150	
LY	PolyAlfaOlefine (PAO)	OMALA S4 GX 220	
LV	PolyAlfaOlefine (PAO)	OMALA S4 GX 320	
LW	PolyAlfaOlefine (PAO)	OMALA S4 GX 460	
LH	PolyGlicole (PAG)	OMALA S4 WE 150	
LS	PolyGlicole (PAG)	OMALA S4 WE 220	
LO*	PolyGlicole (PAG)	OMALA S4 WE 320	
LK	PolyGlicole (PAG)	OMALA S4 WE 460	
LN [1]	Mineral Base EP	OMALA S2 G 150	
LZ [1]	Mineral Base EP	OMALA S2 G 220	
LI [1]	Mineral Base EP	OMALA S2 G 320	
LJ [1]	Mineral Base EP	OMALA S2 G 460	
LA	Food grade	KLUBERSYNTH UH1 6-150	
LB	Food grade	KLUBERSYNTH UH1 6-220	
LC	Food grade	KLUBERSYNTH UH1 6-320	
LD	Food grade	KLUBERSYNTH UH1 6-460	

* unless otherwise specified, the gearboxes F10, F20, F25, F31 and F41 supplied with lubricant use OMALA S4 WE 320 oil.

[1] The use of mineral oil is permitted on gearmotors with service factor fs ≥ 1.30

SO

Gear units F 10 through F 41 usually factory filled with oil, to be supplied unlubricated.

DV

Dual oil seals on input shaft. (Only available for integral gearmotors).

VV
Oil seal in Fluoro elastomer compound on input shaft.

PV
Both input and output shafts feature oil seal in Fluoro elastomer compound.

AL, AR
On request the gear unit can be provided complete with a backstop device allowing the output shaft to rotate only in the direction specified at the time of ordering.
The following table shows the gearboxes in which the anti-run back device can be installed.

(D 45)

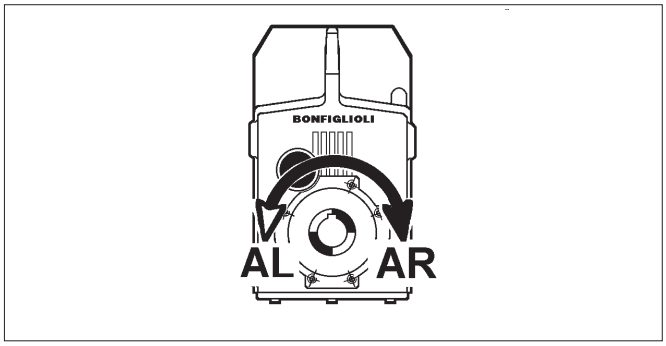
F 31 2*	**F 41 2** ⛔ (6.7; 10.8)					
F 31 3*	**F 41 3**	**F 51 3**	**F 60 3**	**F 70 3**	**F 80 3**	**F 90 3**
		F 51 4	**F 60 4**	**F 70 4**	**F 80 4**	**F 90 4**

* The supply of the backstop will ban the configuration of servomotor adapters type S_60A, S_ 60B, S_80A.

When ordering the gear unit, the direction of free rotation must be specified through either the AR or the AL option (Table D46).

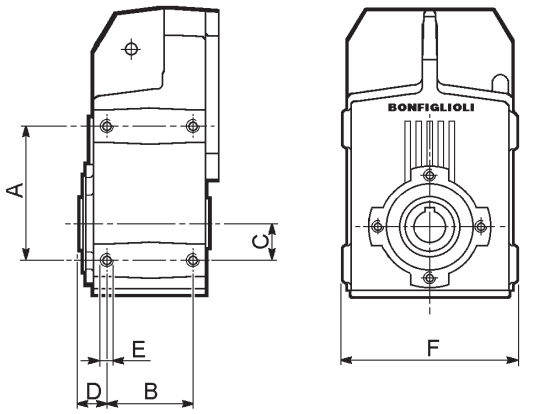
⚠ N.B. When the anti-run back device operates very frequently make sure that the torque backdriving the gearbox does not exceed 70% of the rated torque M_{n2} for the captioned gear unit.

(D 46)



FL
Gear units F 10...F 41 can be side machined and tapped by specifying the FL option.
Mounting dimensions relevant to the FL option are given in the following chart. Gear units type F 51 through F 90 are side machined and tapped as standard.

(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

BP

Gearboxes, usually supplied with open breather plug, are supplied with a valve breather plug. The calibration of the valve can vary from 0,10 to 0,15 bar depending on the plug type. The valve opens at intervals and allows venting of internal pressure keeping out foreign bodies.
For option availability see chapter “Mounting positions and service plugs” of the Installation, Operation and Maintenance Manual (available at: www.bonfiglioli.com).

If needed contact Bonfiglioli Technical Service.

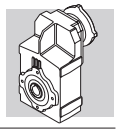
SURFACE PROTECTION

When no specific protection class is requested, the painted (ferrous) surfaces of gearboxes are protected to at least corrosivity class C2 (UNI EN ISO 12944-2). For improved resistance to atmospheric corrosion, gearboxes can be delivered with **C3** and **C4** surface protection, obtained by painting the complete gearbox.

(D 48)

SURFACE PROTECTION	Typical environments	Maximum surface temperature	Corrosivity class according to UNI EN ISO 12944-2
C3	Urban and industrial environments with up to 100% relative humidity (medium air pollution)	120°C	C3
C4	Industrial areas, coastal areas, chemical plant, with up to 100% relative humidity (high air pollution)	120°C	C4

Gearboxes with optional protection to class **C3** or **C4** are available in a choice of colours.
If no specific colour is requested (see the “PAINTING” option) gearboxes are finished in RAL 7042.
Gearboxes can also be supplied with surface protection for corrosivity class **C5** according to UNI EN ISO 12944-2. Contact our Technical Service for further details.



PAINTING

Gearboxes with optional protection to class C3 or C4 are available in the colours listed in the following table.

(D 49)

PAINTING	Colour	RAL number
RAL7042*	Traffik Grey A	7042
RAL5010	Gentian Blue	5010
RAL9005	Jet Black	9005
RAL9006	White Aluminium	9006
RAL9010	Pure White	9010
RAL7035	Light Grey	7035
RAL7001	Silver Grey	7001
RAL5015	Sky Blue	5015
RAL7037	Dusty Grey	7037
RAL5024	Pastel Blue	5024

* Gearboxes are supplied in this standard colour if no other colour is specified.

NOTE – “PAINTING” options can only be specified in conjunction with “SURFACE PROTECTION” options.

CERTIFICATES

AC - Certificate of compliance
The document certifies the compliance of the product with the purchase order and the construction in conformity with the applicable procedures of the Bonfiglioli Quality System.

CC - Inspection certificate
The document entails checking on order compliance, the visual inspection of external conditions and of mating dimensions. Checking on main functional parameters in unloaded conditions is also performed along with oil seal proofing, both in static and in running conditions. Units inspected are sampled within the shipping batch and marked individually.

56.2 Accessories

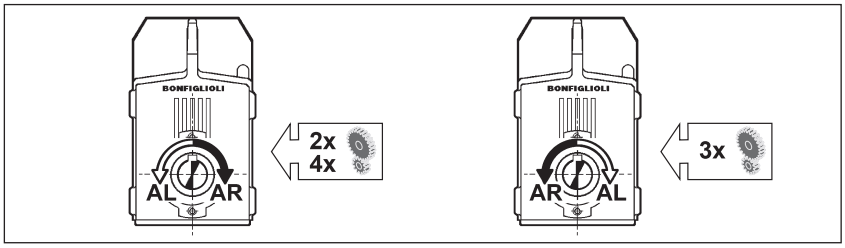
See chapter 65 of this catalogue.

56.3 Motor options

AL, AR

A backstop device on the motor itself, as described in the electric motors section of this catalogue, is available for gearmotors with integral M, ME or MX Series motors. The following table shows the direction of free rotation of the gearbox, on the basis of which the correct option must be selected.

(D 50)



For further information on options, consult the electric motors section.

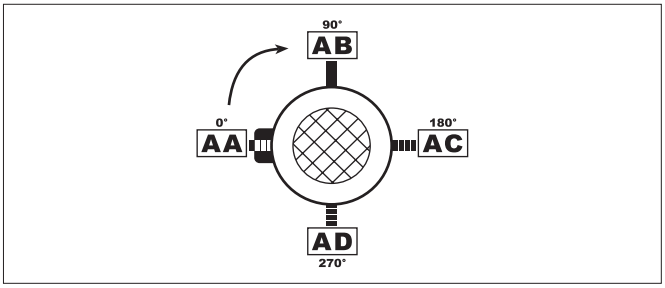
57 MOUNTING POSITION AND TERMINAL BOX ANGULAR LOCATION

Location of motor terminal box can be specified by viewing the motor from the fan side; standard location is shown in black (W).

Angular location of the brake release lever.

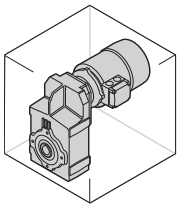
Unless otherwise specified, brake motors have the manual device side located, 90° apart from terminal box. Different angles can be specified through the relevant options available.

(D 51)

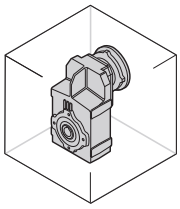


F ...

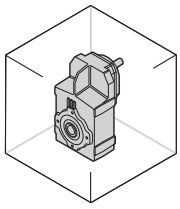
H1



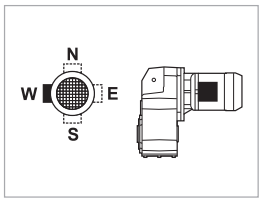
_S



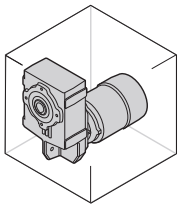
_P(IEC) _SK / _SC



_HS



H2



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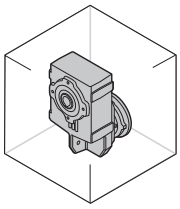

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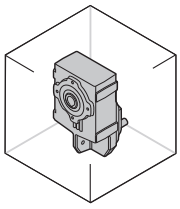
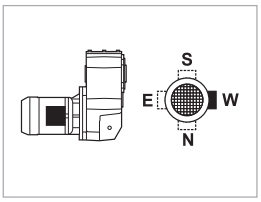
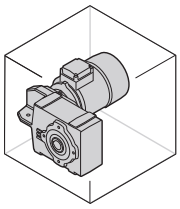


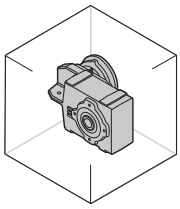
_HS



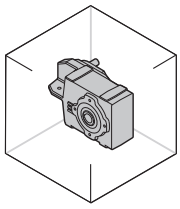
H3



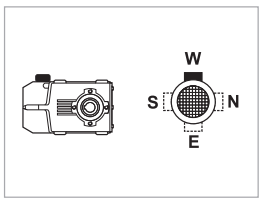
_S



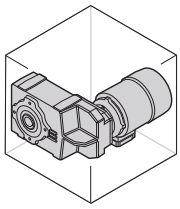
_P(IEC) _SK / _SC



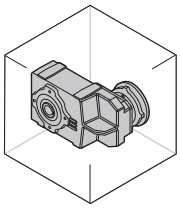
_HS



H4



_S



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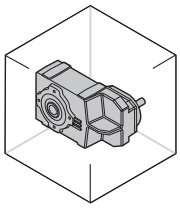

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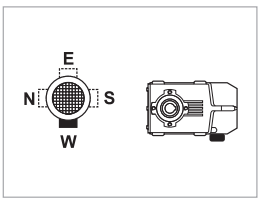

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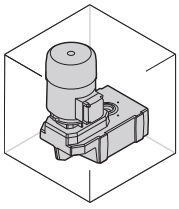

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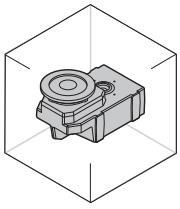

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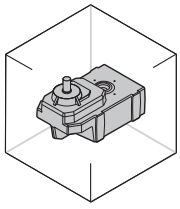

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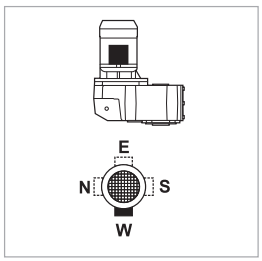

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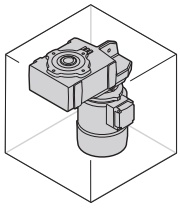

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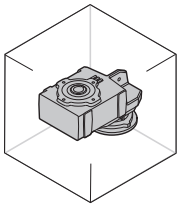
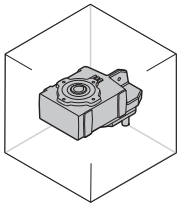


_P(IEC) _SK / _SC



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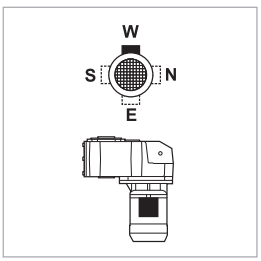


W = Default

58 OVERHUNG LOADS

External transmissions keyed onto input and/or output shaft generate loads that act radially onto same shaft.
Resulting shaft loading must be compatible with both the bearing and the shaft capacity. Namely shaft loading (R_{c1} for input shaft, R_{c2} for output shaft), must be equal or lower than admissible overhung load capacity for shaft under study (R_{n1} for input shaft, R_{n2} for output shaft). OHL capability listed in the rating chart section.
In the formulas given below, index (1) applies to parameters relating to input shaft, whereas index (2) refers to output shaft.
The load generated by an external transmission can be calculated with close approximation by the following equations:

$$R_{c1}[N] = \frac{2000 \cdot M_1[Nm] \cdot K_r}{d\,[mm]} \quad ; \quad R_{c2}[N] = \frac{2000 \cdot M_2[Nm] \cdot K_r}{d\,[mm]} \qquad (35)$$

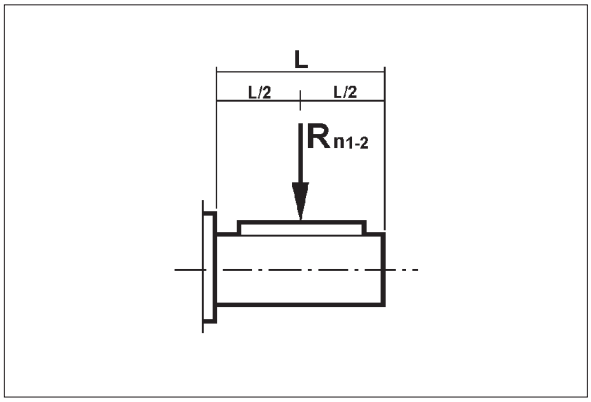
(D 52)

M_1 [Nm]	Torque applied to input shaft
M_2 [Nm]	Torque drawn at output shaft
d [mm]	Pitch diameter of element keyed onto shaft
K_r = 1	Chain transmission

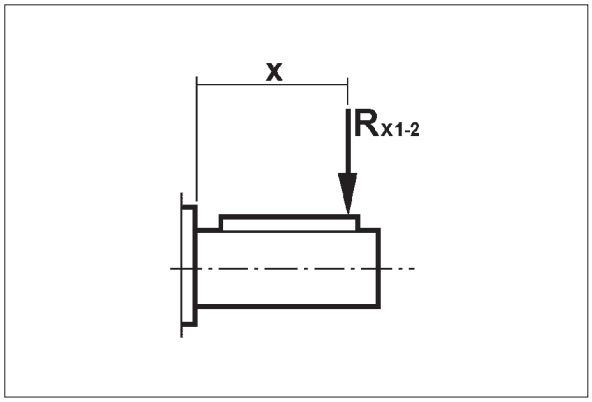
K_r = 1,25	Gear transmission
K_r = 1,5	V-belt transmission
K_r = 2,0	Flat belt transmission

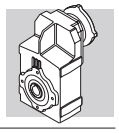
Verification of OHL capability varies depending on whether load applies at midpoint of shaft or it is shifted further out:

(D 53)



(D 54)





a) Load applied at midpoint of shaft, tab. (D53)

A comparison of shaft loading with catalogue OHL ratings should verify the following condition:

Rc1 d Rn1 [input shaft]

or

Rc2 d Rn2 [output shaft]

b) Load off the midpoint tab. (D54)

When load is shifted at an “x” distance from shaft shoulder, permissible load must be calculated for that distance.
Revised permissible overhung loads Rx1 (input) and Rx2 (output) are calculated respectively from original rated values Rn1 and Rn2 through factor:

$$\frac{a}{b+x} \qquad (36)$$

(D 55)

	Load location factors					
	Output shaft			Input shaft		
	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

Verification procedure is described here after.

INPUT SHAFT

1. Calculate:

$$R_{x1} = R_{n1} \cdot \frac{a}{b + x} \quad (37)$$

N.B. Subject to condition:

$$\frac{L}{2} \leq x \leq c \quad (38)$$

Finally, the following condition must be verified:

$$R_{c1} \leq R_{x1} \quad (39)$$

OUTPUT SHAFT

1. Calculate:

$$R_{x2} = R_{n2} \cdot \frac{a}{b + x} \quad (40)$$

N.B. Subject to condition:

$$\frac{L}{2} \leq x \leq c \quad (41)$$

Finally, the following condition must be verified:

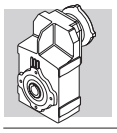
$$R_{c2} \leq R_{x2} \quad (42)$$

59 THRUST LOADS, A_{n1}, A_{n2}

Permissible thrust loads on input [A_{n1}] and output [A_{n2}] shafts are obtained from the radial loading for the shaft under consideration [R_{n1}] and [R_{n2}] through the following equation:

$$A_{n1} = R_{n1} \cdot 0.2$$
$$A_{n2} = R_{n2} \cdot 0.2 \qquad (43)$$

The thrust loads calculated through these formulas apply to thrust forces occurring at the same time as rated radial loads.
In the only case that no overhung load acts on the shaft the value of the admissible thrust load [A_n] amounts to 50% of rated OHL [R_n] on same shaft.
Where thrust loads exceed permissible value or largely prevail over radial loads, contact Bonfiglioli Riduttori for an in-depth analysis of the application.

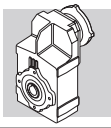


60 GEARMOTOR RATING CHARTS

The selection of motors takes into account the requirements of Regulation 2009/125/CE (see section M of this catalogue). When the motor rated power is below 0,12kW, **BN/M** motors can be provided. Starting from 1st July 2021 the regulation 2009/125/CE will apply also to motors equipped with brake, and 8 poles motors.

0.09 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE1		IEC IE1	
0.40	1945	2.6	2188	35000			**F704_2188 P63 BN63A6**	493
0.50	1526	3.4	1717	35000			**F704_1717 P63 BN63A6**	493
0.62	1254	0.9	1411	8500	**F414_1411 S05 M05A6**	480	**F414_1411 P63 BN63A6**	481
0.73	1079	1.0	1213	8500	**F414_1213 S05 M05A6**	480	**F414_1213 P63 BN63A6**	481
0.81	971	1.1	1092	8500	**F414_1092 S05 M05A6**	480	**F414_1092 P63 BN63A6**	481
0.90	874	1.3	982.4	8500	**F414_982.4 S05 M05A6**	480	**F414_982.4 P63 BN63A6**	481
0.98	801	1.4	900.5	8500	**F414_900.5 S05 M05A6**	480	**F414_900.5 P63 BN63A6**	481
1.1	724	1.5	813.8	8500	**F414_813.8 S05 M05A6**	480	**F414_813.8 P63 BN63A6**	481
1.2	678	0.9	762.3	6500	**F314_762.3 S05 M05A6**	476	**F314_762.3 P63 BN63A6**	477
1.2	658	1.7	739.4	8500	**F414_739.4 S05 M05A6**	480	**F414_739.4 P63 BN63A6**	481
1.3	610	1.0	685.6	6500	**F314_685.6 S05 M05A6**	476	**F314_685.6 P63 BN63A6**	477
1.3	614	1.8	690.1	8500	**F414_690.1 S05 M05A6**	480	**F414_690.1 P63 BN63A6**	481
1.4	551	1.1	619.9	6500	**F314_619.9 S05 M05A6**	476	**F314_619.9 P63 BN63A6**	477
1.5	515	1.2	578.6	6500	**F314_578.6 S05 M05A6**	476	**F314_578.6 P63 BN63A6**	477
1.6	489	2.2	549.8	8500	**F414_549.8 S05 M05A6**	480	**F414_549.8 P63 BN63A6**	481
1.7	469	0.9	527.3	6500	**F254_527.3 S05 M05A6**	472	**F254_527.3 P63 BN63A6**	473
1.7	469	1.3	527.8	6500	**F314_527.8 S05 M05A6**	476	**F314_527.8 P63 BN63A6**	477
1.9	414	1.0	466.0	6500	**F254_466.0 S05 M05A6**	472	**F254_466.0 P63 BN63A6**	473
1.9	411	1.5	462.6	6500	**F314_462.6 S05 M05A6**	476	**F314_462.6 P63 BN63A6**	477
2.0	387	1.0	434.9	6500	**F254_434.9 S05 M05A6**	472	**F254_434.9 P63 BN63A6**	473
2.0	386	2.9	433.7	8500	**F414_433.7 S05 M05A6**	480	**F414_433.7 P63 BN63A6**	481
2.1	372	1.6	418.9	6500	**F314_418.9 S05 M05A6**	476	**F314_418.9 P63 BN63A6**	477
2.2	350	1.1	393.9	6500	**F254_393.9 S05 M05A6**	472	**F254_393.9 P63 BN63A6**	473
2.4	340	1.8	374.4	6500			**F313_374.4 P63 BN63A6**	477
2.6	302	2.0	332.8	6500			**F313_332.8 P63 BN63A6**	477
2.6	313	3.5	344.8	8500			**F413_344.8 P63 BN63A6**	481
2.8	288	0.9	316.9	4000	**F203_316.9 S05 M05A6**	468	**F203_316.9 P63 BN63A6**	469
3.0	267	2.2	293.8	6500			**F313_293.8 P63 BN63A6**	477
3.1	259	1.0	285.2	4000	**F203_285.2 S05 M05A6**	468	**F203_285.2 P63 BN63A6**	469
3.4	232	1.1	255.3	4000	**F203_255.3 S05 M05A6**	468	**F203_255.3 P63 BN63A6**	469
3.5	230	2.6	253.6	6500			**F313_253.6 P63 BN63A6**	477
3.9	207	2.9	228.2	6500			**F313_228.2 P63 BN63A6**	477
4.2	190	1.3	209.3	4000	**F203_209.3 S05 M05A6**	468	**F203_209.3 P63 BN63A6**	469
4.4	184	3.3	202.3	6500			**F313_202.3 P63 BN63A6**	477
4.8	168	1.5	184.9	4000	**F203_184.9 S05 M05A6**	468	**F203_184.9 P63 BN63A6**	469
5.1	157	1.6	172.6	4000	**F203_172.6 S05 M05A6**	468	**F203_172.6 P63 BN63A6**	469
5.6	142	1.8	156.3	4000	**F203_156.3 S05 M05A6**	468	**F203_156.3 P63 BN63A6**	469
6.7	123	2.0	132.2	4000	**F202_132.2 S05 M05A6**	468	**F202_132.2 P63 BN63A6**	469
6.9	118	1.2	127.1	2800	**F102_127.1 S05 M05A6**	464	**F102_127.1 P63 BN63A6**	465

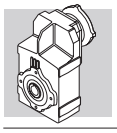


0.09 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE1		IEC IE1	
7.7	106	2.4	114.3	4000	**F202_114.3 S05 M05A6**	468	**F202_114.3 P63 BN63A6**	469
8.3	98	1.4	106.0	2800	**F102_106.0 S05 M05A6**	464	**F102_106.0 P63 BN63A6**	465
8.7	94	2.6	101.6	4000	**F202_101.6 S05 M05A6**	468	**F202_101.6 P63 BN63A6**	469
9.6	85	1.6	91.5	2800	**F102_91.5 S05 M05A6**	464	**F102_91.5 P63 BN63A6**	465
9.7	84	3.0	90.4	4000	**F202_90.4 S05 M05A6**	468	**F202_90.4 P63 BN63A6**	469
10.8	75	1.9	81.3	2800	**F102_81.3 S05 M05A6**	464	**F102_81.3 P63 BN63A6**	465
11.5	71	3.5	76.8	4000	**F202_76.8 S05 M05A6**	468	**F202_76.8 P63 BN63A6**	469
12.4	66	2.1	71.1	2800	**F102_71.1 S05 M05A6**	464	**F102_71.1 P63 BN63A6**	465
14.0	58	2.4	63.0	2800	**F102_63.0 S05 M05A6**	464	**F102_63.0 P63 BN63A6**	465
15.5	53	2.7	56.7	2800	**F102_56.7 S05 M05A6**	464	**F102_56.7 P63 BN63A6**	465
18.1	45	3.1	48.7	2800	**F102_48.7 S05 M05A6**	464	**F102_48.7 P63 BN63A6**	465
19.7	41	3.4	44.7	2800	**F102_44.7 S05 M05A6**	464	**F102_44.7 P63 BN63A6**	465
22.2	37	3.8	39.6	2800	**F102_39.6 S05 M05A6**	464	**F102_39.6 P63 BN63A6**	465
24.9	33	4.3	35.3	2800	**F102_35.3 S05 M05A6**	464	**F102_35.3 P63 BN63A6**	465
26.7	31	4.6	33.0	2800	**F102_33.0 S05 M05A6**	464	**F102_33.0 P63 BN63A6**	465
29.7	28	5.1	29.6	2800	**F102_29.6 S05 M05A6**	464	**F102_29.6 P63 BN63A6**	465
34	24	5.9	25.8	2800	**F102_25.8 S05 M05A6**	464	**F102_25.8 P63 BN63A6**	465
39	21	6.6	22.8	2800	**F102_22.8 S05 M05A6**	464	**F102_22.8 P63 BN63A6**	465
46	18	7.8	19.3	2800	**F102_19.3 S05 M05A6**	464	**F102_19.3 P63 BN63A6**	465
52	16	8.9	17.0	2800	**F102_17.0 S05 M05A6**	464	**F102_17.0 P63 BN63A6**	465
60	14	10.1	14.6	2700	**F102_14.6 S05 M05A6**	464	**F102_14.6 P63 BN63A6**	465
68	12	10.3	13.0	2600	**F102_13.0 S05 M05A6**	464	**F102_13.0 P63 BN63A6**	465
76	11	10.3	11.5	2500	**F102_11.5 S05 M05A6**	464	**F102_11.5 P63 BN63A6**	465
90	9	11.8	9.8	2370	**F102_9.8 S05 M05A6**	464	**F102_9.8 P63 BN63A6**	465
103	8	11.8	8.6	2270	**F102_8.6 S05 M05A6**	464	**F102_8.6 P63 BN63A6**	465
119	7	13.2	7.4	2160	**F102_7.4 S05 M05A6**	464	**F102_7.4 P63 BN63A6**	465

0.12 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE1	IE2		IEC IE1	IE2	
0.40	2623	1.9	2188	35000				**F704_2188 P63 BN63B6**		493
0.51	2058	2.5	1717	35000				**F704_1717 P63 BN63B6**		493
0.60	1742	2.9	2188	35000				**F704_2188 P63 BN63A4**	**F704_2188 P63 BE63A4**	493
0.65	1607	3.1	2019	35000				**F704_2019 P63 BN63A4**	**F704_2019 P63 BE63A4**	493
0.76	1368	2.1	1141	20000				**F604_1141 P63 BN63B6**		489
0.89	1178	0.9	982.4	8500	**F414_982.4 S05 M05B6**		480	**F414_982.4 P63 BN63B6**		481
0.96	1090	1.0	1411	8500	**F414_1411 S05 M05A4**	**F414_1411 S05 ME05A4**	480	**F414_1411 P63 BN63A4**	**F414_1411 P63 BE63A4**	481
1.1	938	1.2	1213	8500	**F414_1213 S05 M05A4**	**F414_1213 S05 ME05A4**	480	**F414_1213 P63 BN63A4**	**F414_1213 P63 BE63A4**	481
1.2	844	1.3	1092	8500	**F414_1092 S05 M05A4**	**F414_1092 S05 ME05A4**	480	**F414_1092 P63 BN63A4**	**F414_1092 P63 BE63A4**	481
1.4	759	1.4	982.4	8500	**F414_982.4 S05 M05A4**	**F414_982.4 S05 ME05A4**	480	**F414_982.4 P63 BN63A4**	**F414_982.4 P63 BE63A4**	481
1.5	696	1.6	900.5	8500	**F414_900.5 S05 M05A4**	**F414_900.5 S05 ME05A4**	480	**F414_900.5 P63 BN63A4**	**F414_900.5 P63 BE63A4**	481
1.6	643	0.9	831.6	6500	**F314_831.6 S05 M05A4**	**F314_831.6 S05 ME05A4**	476	**F314_831.6 P63 BN63A4**	**F314_831.6 P63 BE63A4**	477
1.7	629	1.7	813.8	8500	**F414_813.8 S05 M05A4**	**F414_813.8 S05 ME05A4**	480	**F414_813.8 P63 BN63A4**	**F414_813.8 P63 BE63A4**	481
1.8	589	1.0	762.3	6500	**F314_762.3 S05 M05A4**	**F314_762.3 S05 ME05A4**	476	**F314_762.3 P63 BN63A4**	**F314_762.3 P63 BE63A4**	477
1.8	571	1.9	739.4	8500	**F414_739.4 S05 M05A4**	**F414_739.4 S05 ME05A4**	480	**F414_739.4 P63 BN63A4**	**F414_739.4 P63 BE63A4**	481
2.0	530	1.1	685.6	6500	**F314_685.6 S05 M05A4**	**F314_685.6 S05 ME05A4**	476	**F314_685.6 P63 BN63A4**	**F314_685.6 P63 BE63A4**	477
2.0	533	2.1	690.1	8500	**F414_690.1 S05 M05A4**	**F414_690.1 S05 ME05A4**	480	**F414_690.1 P63 BN63A4**	**F414_690.1 P63 BE63A4**	481
2.2	479	1.3	619.9	6500	**F314_619.9 S05 M05A4**	**F314_619.9 S05 ME05A4**	476	**F314_619.9 P63 BN63A4**	**F314_619.9 P63 BE63A4**	477
2.3	456	0.9	589.7	6500	**F254_589.7 S05 M05A4**	**F254_589.7 S05 ME05A4**	472	**F254_589.7 P63 BN63A4**	**F254_589.7 P63 BE63A4**	473
2.3	447	1.3	578.6	6500	**F314_578.6 S05 M05A4**	**F314_578.6 S05 ME05A4**	476	**F314_578.6 P63 BN63A4**	**F314_578.6 P63 BE63A4**	477
2.5	425	2.6	549.8	8500	**F414_549.8 S05 M05A4**	**F414_549.8 S05 ME05A4**	480	**F414_549.8 P63 BN63A4**	**F414_549.8 P63 BE63A4**	481
2.6	408	1.0	527.3	6500	**F254_527.3 S05 M05A4**	**F254_527.3 S05 ME05A4**	472	**F254_527.3 P63 BN63A4**	**F254_527.3 P63 BE63A4**	473



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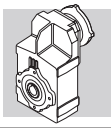
n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE1	IE2		IEC IE1	IEC IE2	
2.6	408	1.5	527.8	6500	F314_527.8 S05 M05A4	F314_527.8 S05 ME05A4	476	F314_527.8 P63 BN63A4	F314_527.8 P63 BE63A4	477
2.9	360	1.1	466.0	6500	F254_466.0 S05 M05A4	F254_466.0 S05 ME05A4	472	F254_466.0 P63 BN63A4	F254_466.0 P63 BE63A4	473
2.9	358	1.7	462.6	6500	F314_462.6 S05 M05A4	F314_462.6 S05 ME05A4	476	F314_462.6 P63 BN63A4	F314_462.6 P63 BE63A4	477
3.1	336	1.2	434.9	6500	F254_434.9 S05 M05A4	F254_434.9 S05 ME05A4	472	F254_434.9 P63 BN63A4	F254_434.9 P63 BE63A4	473
3.1	335	3.3	433.7	8500	F414_433.7 S05 M05A4	F414_433.7 S05 ME05A4	480	F414_433.7 P63 BN63A4	F414_433.7 P63 BE63A4	481
3.2	324	1.9	418.9	6500	F314_418.9 S05 M05A4	F314_418.9 S05 ME05A4	476	F314_418.9 P63 BN63A4	F314_418.9 P63 BE63A4	477
3.4	304	1.3	393.9	6500	F254_393.9 S05 M05A4	F254_393.9 S05 ME05A4	472	F254_393.9 P63 BN63A4	F254_393.9 P63 BE63A4	473
3.6	296	2.0	374.4	6500				F313_374.4 P63 BN63A4	F313_374.4 P63 BE63A4	477
4.1	263	1.5	333.1	6500	F253_333.1 S05 M05A4	F253_333.1 S05 ME05A4	472	F253_333.1 P63 BN63A4	F253_333.1 P63 BE63A4	473
4.1	263	2.3	332.8	6500				F313_332.8 P63 BN63A4	F313_332.8 P63 BE63A4	477
4.3	250	1.0	316.9	4000	F203_316.9 S05 M05A4	F203_316.9 S05 ME05A4	468	F203_316.9 P63 BN63A4	F203_316.9 P63 BE63A4	469
4.6	232	2.6	293.8	6500				F313_293.8 P63 BN63A4	F313_293.8 P63 BE63A4	477
4.7	225	1.1	285.2	4000	F203_285.2 S05 M05A4	F203_285.2 S05 ME05A4	468	F203_285.2 P63 BN63A4	F203_285.2 P63 BE63A4	469
4.7	228	1.8	288.1	6500	F253_288.1 S05 M05A4	F253_288.1 S05 ME05A4	472	F253_288.1 P63 BN63A4	F253_288.1 P63 BE63A4	473
5.3	202	1.2	255.3	4000	F203_255.3 S05 M05A4	F203_255.3 S05 ME05A4	468	F203_255.3 P63 BN63A4	F203_255.3 P63 BE63A4	469
5.3	202	2.0	256.1	6500	F253_256.1 S05 M05A4	F253_256.1 S05 ME05A4	472	F253_256.1 P63 BN63A4	F253_256.1 P63 BE63A4	473
5.3	200	3.0	253.6	6500				F313_253.6 P63 BN63A4	F313_253.6 P63 BE63A4	477
5.9	180	2.2	227.8	6500	F253_227.8 S05 M05A4	F253_227.8 S05 ME05A4	472	F253_227.8 P63 BN63A4	F253_227.8 P63 BE63A4	473
5.9	180	3.3	228.2	6500				F313_228.2 P63 BN63A4	F313_228.2 P63 BE63A4	477
6.5	165	1.5	209.3	4000	F203_209.3 S05 M05A4	F203_209.3 S05 ME05A4	468	F203_209.3 P63 BN63A4	F203_209.3 P63 BE63A4	469
7.0	153	2.6	193.6	6500	F253_193.6 S05 M05A4	F253_193.6 S05 ME05A4	472	F253_193.6 P63 BN63A4	F253_193.6 P63 BE63A4	473
7.3	146	1.7	184.9	4000	F203_184.9 S05 M05A4	F203_184.9 S05 ME05A4	468	F203_184.9 P63 BN63A4	F203_184.9 P63 BE63A4	469
7.7	138	2.9	174.2	6500	F253_174.2 S05 M05A4	F253_174.2 S05 ME05A4	472	F253_174.2 P63 BN63A4	F253_174.2 P63 BE63A4	473
7.8	136	1.8	172.6	4000	F203_172.6 S05 M05A4	F203_172.6 S05 ME05A4	468	F203_172.6 P63 BN63A4	F203_172.6 P63 BE63A4	469
8.6	123	2.0	156.3	4000	F203_156.3 S05 M05A4	F203_156.3 S05 ME05A4	468	F203_156.3 P63 BN63A4	F203_156.3 P63 BE63A4	469
8.7	123	3.2	155.9	6500	F253_155.9 S05 M05A4	F253_155.9 S05 ME05A4	472	F253_155.9 P63 BN63A4	F253_155.9 P63 BE63A4	473
9.4	113	3.5	143.0	6500	F253_143.0 S05 M05A4	F253_143.0 S05 ME05A4	472	F253_143.0 P63 BN63A4	F253_143.0 P63 BE63A4	473
10.2	107	2.3	132.2	4000	F202_132.2 S05 M05A4	F202_132.2 S05 ME05A4	468	F202_132.2 P63 BN63A4	F202_132.2 P63 BE63A4	469
10.6	103	1.4	127.1	2800	F102_127.1 S05 M05A4	F102_127.1 S05 ME05A4	464	F102_127.1 P63 BN63A4	F102_127.1 P63 BE63A4	465
11.8	92	2.7	114.3	4000	F202_114.3 S05 M05A4	F202_114.3 S05 ME05A4	468	F202_114.3 P63 BN63A4	F202_114.3 P63 BE63A4	469
12.7	86	1.6	106.0	2800	F102_106.0 S05 M05A4	F102_106.0 S05 ME05A4	464	F102_106.0 P63 BN63A4	F102_106.0 P63 BE63A4	465
13.3	82	3.0	101.6	4000	F202_101.6 S05 M05A4	F202_101.6 S05 ME05A4	468	F202_101.6 P63 BN63A4	F202_101.6 P63 BE63A4	469
14.8	74	1.9	91.5	2800	F102_91.5 S05 M05A4	F102_91.5 S05 ME05A4	464	F102_91.5 P63 BN63A4	F102_91.5 P63 BE63A4	465
14.9	73	3.4	90.4	4000	F202_90.4 S05 M05A4	F202_90.4 S05 ME05A4	468	F202_90.4 P63 BN63A4	F202_90.4 P63 BE63A4	469
16.6	66	2.1	81.3	2800	F102_81.3 S05 M05A4	F102_81.3 S05 ME05A4	464	F102_81.3 P63 BN63A4	F102_81.3 P63 BE63A4	465
19.0	57	2.4	71.1	2800	F102_71.1 S05 M05A4	F102_71.1 S05 ME05A4	464	F102_71.1 P63 BN63A4	F102_71.1 P63 BE63A4	465
21.4	51	2.8	63.0	2800	F102_63.0 S05 M05A4	F102_63.0 S05 ME05A4	464	F102_63.0 P63 BN63A4	F102_63.0 P63 BE63A4	465
23.8	46	3.1	56.7	2800	F102_56.7 S05 M05A4	F102_56.7 S05 ME05A4	464	F102_56.7 P63 BN63A4	F102_56.7 P63 BE63A4	465
27.7	39	3.6	48.7	2800	F102_48.7 S05 M05A4	F102_48.7 S05 ME05A4	464	F102_48.7 P63 BN63A4	F102_48.7 P63 BE63A4	465
30	36	3.9	44.7	2800	F102_44.7 S05 M05A4	F102_44.7 S05 ME05A4	464	F102_44.7 P63 BN63A4	F102_44.7 P63 BE63A4	465
34	32	4.4	39.6	2800	F102_39.6 S05 M05A4	F102_39.6 S05 ME05A4	464	F102_39.6 P63 BN63A4	F102_39.6 P63 BE63A4	465
38	29	4.9	35.3	2800	F102_35.3 S05 M05A4	F102_35.3 S05 ME05A4	464	F102_35.3 P63 BN63A4	F102_35.3 P63 BE63A4	465
41	27	5.3	33.0	2800	F102_33.0 S05 M05A4	F102_33.0 S05 ME05A4	464	F102_33.0 P63 BN63A4	F102_33.0 P63 BE63A4	465
46	24	5.9	29.6	2800	F102_29.6 S05 M05A4	F102_29.6 S05 ME05A4	464	F102_29.6 P63 BN63A4	F102_29.6 P63 BE63A4	465
52	21	6.7	25.8	2800	F102_25.8 S05 M05A4	F102_25.8 S05 ME05A4	464	F102_25.8 P63 BN63A4	F102_25.8 P63 BE63A4	465
59	18	7.6	22.8	2700	F102_22.8 S05 M05A4	F102_22.8 S05 ME05A4	464	F102_22.8 P63 BN63A4	F102_22.8 P63 BE63A4	465
70	16	8.7	19.3	2560	F102_19.3 S05 M05A4	F102_19.3 S05 ME05A4	464	F102_19.3 P63 BN63A4	F102_19.3 P63 BE63A4	465
80	14	9.3	17.0	2450	F102_17.0 S05 M05A4	F102_17.0 S05 ME05A4	464	F102_17.0 P63 BN63A4	F102_17.0 P63 BE63A4	465
92	12	10.1	14.6	2340	F102_14.6 S05 M05A4	F102_14.6 S05 ME05A4	464	F102_14.6 P63 BN63A4	F102_14.6 P63 BE63A4	465
104	11	9.9	13.0	2250	F102_13.0 S05 M05A4	F102_13.0 S05 ME05A4	464	F102_13.0 P63 BN63A4	F102_13.0 P63 BE63A4	465
117	9	10.3	11.5	2160	F102_11.5 S05 M05A4	F102_11.5 S05 ME05A4	464	F102_11.5 P63 BN63A4	F102_11.5 P63 BE63A4	465
138	8	11.3	9.8	2050	F102_9.8 S05 M05A4	F102_9.8 S05 ME05A4	464	F102_9.8 P63 BN63A4	F102_9.8 P63 BE63A4	465
157	7	11.8	8.6	1970	F102_8.6 S05 M05A4	F102_8.6 S05 ME05A4	464	F102_8.6 P63 BN63A4	F102_8.6 P63 BE63A4	465
182	6	12.7	7.4	1870	F102_7.4 S05 M05A4	F102_7.4 S05 ME05A4	464	F102_7.4 P63 BN63A4	F102_7.4 P63 BE63A4	465



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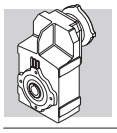
n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE3		IEC IE3	
0.40	2623	1.9	2188	35000				
0.51	2058	2.5	1717	35000				
0.60	1742	2.9	2188	35000			F704_2188 P63 BXN63MA4	493
0.65	1607	3.1	2019	35000			F704_2019 P63 BXN63MA4	493
0.76	1368	2.1	1141	20000				
0.89	1178	0.9	982.4	8500				
0.96	1090	1.0	1411	8500	F414_1411 S05 MXN05MA4	480	F414_1411 P63 BXN63MA4	481
1.1	938	1.2	1213	8500	F414_1213 S05 MXN05MA4	480	F414_1213 P63 BXN63MA4	481
1.2	844	1.3	1092	8500	F414_1092 S05 MXN05MA4	480	F414_1092 P63 BXN63MA4	481
1.4	759	1.4	982.4	8500	F414_982.4 S05 MXN05MA4	480	F414_982.4 P63 BXN63MA4	481
1.5	696	1.6	900.5	8500	F414_900.5 S05 MXN05MA4	480	F414_900.5 P63 BXN63MA4	481
1.6	643	0.9	831.6	6500	F314_831.6 S05 MXN05MA4	476	F314_831.6 P63 BXN63MA4	477
1.7	629	1.7	813.8	8500	F414_813.8 S05 MXN05MA4	480	F414_813.8 P63 BXN63MA4	481
1.8	589	1.0	762.3	6500	F314_762.3 S05 MXN05MA4	476	F314_762.3 P63 BXN63MA4	477
1.8	571	1.9	739.4	8500	F414_739.4 S05 MXN05MA4	480	F414_739.4 P63 BXN63MA4	481
2.0	530	1.1	685.6	6500	F314_685.6 S05 MXN05MA4	476	F314_685.6 P63 BXN63MA4	477
2.0	533	2.1	690.1	8500	F414_690.1 S05 MXN05MA4	480	F414_690.1 P63 BXN63MA4	481
2.2	479	1.3	619.9	6500	F314_619.9 S05 MXN05MA4	476	F314_619.9 P63 BXN63MA4	477
2.3	456	0.9	589.7	6500	F254_589.7 S05 MXN05MA4	472	F254_589.7 P63 BXN63MA4	473
2.3	447	1.3	578.6	6500	F314_578.6 S05 MXN05MA4	476	F314_578.6 P63 BXN63MA4	477
2.5	425	2.6	549.8	8500	F414_549.8 S05 MXN05MA4	480	F414_549.8 P63 BXN63MA4	481
2.6	408	1.0	527.3	6500	F254_527.3 S05 MXN05MA4	472	F254_527.3 P63 BXN63MA4	473
2.6	408	1.5	527.8	6500	F314_527.8 S05 MXN05MA4	476	F314_527.8 P63 BXN63MA4	477
2.9	360	1.1	466.0	6500	F254_466.0 S05 MXN05MA4	472	F254_466.0 P63 BXN63MA4	473
2.9	358	1.7	462.6	6500	F314_462.6 S05 MXN05MA4	476	F314_462.6 P63 BXN63MA4	477
3.1	336	1.2	434.9	6500	F254_434.9 S05 MXN05MA4	472	F254_434.9 P63 BXN63MA4	473
3.1	335	3.3	433.7	8500	F414_433.7 S05 MXN05MA4	480	F414_433.7 P63 BXN63MA4	481
3.2	324	1.9	418.9	6500	F314_418.9 S05 MXN05MA4	476	F314_418.9 P63 BXN63MA4	477
3.4	304	1.3	393.9	6500	F254_393.9 S05 MXN05MA4	472	F254_393.9 P63 BXN63MA4	473
3.6	296	2.0	374.4	6500			F313_374.4 P63 BXN63MA4	477
4.1	263	1.5	333.1	6500	F253_333.1 S05 MXN05MA4	472	F253_333.1 P63 BXN63MA4	473
4.1	263	2.3	332.8	6500			F313_332.8 P63 BXN63MA4	477
4.3	250	1.0	316.9	4000	F203_316.9 S05 MXN05MA4	468	F203_316.9 P63 BXN63MA4	469
4.6	232	2.6	293.8	6500			F313_293.8 P63 BXN63MA4	477
4.7	225	1.1	285.2	4000	F203_285.2 S05 MXN05MA4	468	F203_285.2 P63 BXN63MA4	469
4.7	228	1.8	288.1	6500	F253_288.1 S05 MXN05MA4	472	F253_288.1 P63 BXN63MA4	473
5.3	202	1.2	255.3	4000	F203_255.3 S05 MXN05MA4	468	F203_255.3 P63 BXN63MA4	469
5.3	202	2.0	256.1	6500	F253_256.1 S05 MXN05MA4	472	F253_256.1 P63 BXN63MA4	473
5.3	200	3.0	253.6	6500			F313_253.6 P63 BXN63MA4	477
5.9	180	2.2	227.8	6500	F253_227.8 S05 MXN05MA4	472	F253_227.8 P63 BXN63MA4	473
5.9	180	3.3	228.2	6500			F313_228.2 P63 BXN63MA4	477
6.5	165	1.5	209.3	4000	F203_209.3 S05 MXN05MA4	468	F203_209.3 P63 BXN63MA4	469
7.0	153	2.6	193.6	6500	F253_193.6 S05 MXN05MA4	472	F253_193.6 P63 BXN63MA4	473
7.3	146	1.7	184.9	4000	F203_184.9 S05 MXN05MA4	468	F203_184.9 P63 BXN63MA4	469
7.7	138	2.9	174.2	6500	F253_174.2 S05 MXN05MA4	472	F253_174.2 P63 BXN63MA4	473
7.8	136	1.8	172.6	4000	F203_172.6 S05 MXN05MA4	468	F203_172.6 P63 BXN63MA4	469
8.6	123	2.0	156.3	4000	F203_156.3 S05 MXN05MA4	468	F203_156.3 P63 BXN63MA4	469
8.7	123	3.2	155.9	6500	F253_155.9 S05 MXN05MA4	472	F253_155.9 P63 BXN63MA4	473
9.4	113	3.5	143.0	6500	F253_143.0 S05 MXN05MA4	472	F253_143.0 P63 BXN63MA4	473
10.2	107	2.3	132.2	4000	F202_132.2 S05 MXN05MA4	468	F202_132.2 P63 BXN63MA4	469
10.6	103	1.4	127.1	2800	F102_127.1 S05 MXN05MA4	464	F102_127.1 P63 BXN63MA4	465
11.8	92	2.7	114.3	4000	F202_114.3 S05 MXN05MA4	468	F202_114.3 P63 BXN63MA4	469
12.7	86	1.6	106.0	2800	F102_106.0 S05 MXN05MA4	464	F102_106.0 P63 BXN63MA4	465
13.3	82	3.0	101.6	4000	F202_101.6 S05 MXN05MA4	468	F202_101.6 P63 BXN63MA4	469
14.8	74	1.9	91.5	2800	F102_91.5 S05 MXN05MA4	464		
14.9	73	3.4	90.4	4000	F202_90.4 S05 MXN05MA4	468		
16.6	66	2.1	81.3	2800	F102_81.3 S05 MXN05MA4	464		



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n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE3		IEC IE3	
19.0	57	2.4	71.1	2800	**F102_71.1 S05 MXN05MA4**	464	**F102_71.1 P63 BXN63MA4**	465
21.4	51	2.8	63.0	2800	**F102_63.0 S05 MXN05MA4**	464	**F102_63.0 P63 BXN63MA4**	465
23.8	46	3.1	56.7	2800	**F102_56.7 S05 MXN05MA4**	464	**F102_56.7 P63 BXN63MA4**	465
27.7	39	3.6	48.7	2800	**F102_48.7 S05 MXN05MA4**	464	**F102_48.7 P63 BXN63MA4**	465
30	36	3.9	44.7	2800	**F102_44.7 S05 MXN05MA4**	464	**F102_44.7 P63 BXN63MA4**	465
34	32	4.4	39.6	2800	**F102_39.6 S05 MXN05MA4**	464	**F102_39.6 P63 BXN63MA4**	465
38	29	4.9	35.3	2800	**F102_35.3 S05 MXN05MA4**	464	**F102_35.3 P63 BXN63MA4**	465
41	27	5.3	33.0	2800	**F102_33.0 S05 MXN05MA4**	464	**F102_33.0 P63 BXN63MA4**	465
46	24	5.9	29.6	2800	**F102_29.6 S05 MXN05MA4**	464	**F102_29.6 P63 BXN63MA4**	465
52	21	6.7	25.8	2800	**F102_25.8 S05 MXN05MA4**	464	**F102_25.8 P63 BXN63MA4**	465
59	18	7.6	22.8	2700	**F102_22.8 S05 MXN05MA4**	464	**F102_22.8 P63 BXN63MA4**	465
70	16	8.7	19.3	2560	**F102_19.3 S05 MXN05MA4**	464	**F102_19.3 P63 BXN63MA4**	465
80	14	9.3	17.0	2450	**F102_17.0 S05 MXN05MA4**	464	**F102_17.0 P63 BXN63MA4**	465
92	12	10.1	14.6	2340	**F102_14.6 S05 MXN05MA4**	464	**F102_14.6 P63 BXN63MA4**	465
104	11	9.9	13.0	2250	**F102_13.0 S05 MXN05MA4**	464	**F102_13.0 P63 BXN63MA4**	465
117	9	10.3	11.5	2160	**F102_11.5 S05 MXN05MA4**	464	**F102_11.5 P63 BXN63MA4**	465
138	8	11.3	9.8	2050	**F102_9.8 S05 MXN05MA4**	464		
157	7	11.8	8.6	1970	**F102_8.6 S05 MXN05MA4**	464		
182	6	12.7	7.4	1870	**F102_7.4 S05 MXN05MA4**	464		

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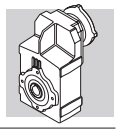
n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE1	IE2		IEC IE1	IE2	
0.41	3804	1.3	2188	35000	**F704_2188 S1 M1SC6**		492	**F704_2188 P71 BN71A6**		493
0.45	3511	1.4	2019	35000	**F704_2019 S1 M1SC6**		492	**F704_2019 P71 BN71A6**		493
0.45	3455	2.3	1987	45000	**F804_1987 S1 M1SC6**		495	**F804_1987 P71 BN71A6**		496
0.49	3189	2.5	1834	45000	**F804_1834 S1 M1SC6**		495	**F804_1834 P71 BN71A6**		496
0.52	2985	1.7	1717	35000	**F704_1717 S1 M1SC6**		492	**F704_1717 P71 BN71A6**		493
0.53	2972	2.7	1709	45000	**F804_1709 S1 M1SC6**		495	**F804_1709 P71 BN71A6**		496
0.57	2756	1.8	1585	35000	**F704_1585 S1 M1SC6**		492	**F704_1585 P71 BN71A6**		493
0.57	2744	2.9	1578	45000	**F804_1578 S1 M1SC6**		495	**F804_1578 P71 BN71A6**		496
0.61	2576	1.9	1481	35000	**F704_1481 S1 M1SC6**		492	**F704_1481 P71 BN71A6**		493
0.65	2406	3.3	1384	45000	**F804_1384 S1 M1SC6**		495	**F804_1384 P71 BN71A6**		496
0.66	2378	2.1	1368	35000	**F704_1368 S1 M1SC6**		492	**F704_1368 P71 BN71A6**		493
0.76	2055	2.4	1182	35000	**F704_1182 S1 M1SC6**		492	**F704_1182 P71 BN71A6**		493
0.77	2030	0.9	1168	12000	**F514_1168 S1 M1SC6**		484	**F514_1168 P71 BN71A6**		485
0.79	1985	1.5	1141	20000	**F604_1141 S1 M1SC6**		488	**F604_1141 P71 BN71A6**		489
0.83	1897	2.6	1091	35000	**F704_1091 S1 M1SC6**		492	**F704_1091 P71 BN71A6**		493
0.84	1861	1.0	1070	12000	**F514_1070 S1 M1SC6**		484	**F514_1070 P71 BN71A6**		485
0.85	1832	1.6	1054	20000	**F604_1054 S1 M1SC6**		488	**F604_1054 P71 BN71A6**		489
0.92	1703	1.1	979.4	12000	**F514_979.4 S1 M1SC6**		484	**F514_979.4 P71 BN71A6**		485
0.92	1694	3.0	974.4	35000	**F704_974.4 S1 M1SC6**		492	**F704_974.4 P71 BN71A6**		493
0.94	1667	1.7	958.9	20000	**F604_958.9 S1 M1SC6**		488	**F604_958.9 P71 BN71A6**		489
1.0	1540	1.2	885.5	12000	**F514_885.5 S1 M1SC6**		484	**F514_885.5 P71 BN71A6**		485
1.0	1539	1.9	885.1	20000	**F604_885.1 S1 M1SC6**		488	**F604_885.1 P71 BN71A6**		489
1.0	1564	3.2	899.4	35000	**F704_899.4 S1 M1SC6**		492	**F704_899.4 P71 BN71A6**		493
1.1	1437	1.3	826.4	12000	**F514_826.4 S1 M1SC6**		484	**F514_826.4 P71 BN71A6**		485
1.1	1430	3.5	822.2	35000	**F704_822.2 S1 M1SC6**		492	**F704_822.2 P71 BN71A6**		493
1.2	1286	0.9	739.4	8500	**F414_739.4 S1 M1SC6**		480	**F414_739.4 P71 BN71A6**		481
1.2	1286	0.9	739.4	8500	**F414_739.4 S1 M1SC6**		480	**F414_739.4 P71 BN71A6**		481
1.3	1200	0.9	690.1	8500	**F414_690.1 S1 M1SC6**		480	**F414_690.1 P71 BN71A6**		481
1.3	1200	0.9	690.1	8500	**F414_690.1 S1 M1SC6**		480	**F414_690.1 P71 BN71A6**		481
1.3	1165	0.9	982.4	8500	**F414_982.4 S05 M05B4**	**F414_982.4 S05 ME05B4**	480	**F414_982.4 P63 BN63B4**	**F414_982.4 P63 BE63B4**	481
1.5	1068	1.0	900.5	8500	**F414_900.5 S05 M05B4**	**F414_900.5 S05 ME05B4**	480	**F414_900.5 P63 BN63B4**	**F414_900.5 P63 BE63B4**	481
1.6	965	1.1	813.8	8500	**F414_813.8 S05 M05B4**	**F414_813.8 S05 ME05B4**	480	**F414_813.8 P63 BN63B4**	**F414_813.8 P63 BE63B4**	481
1.8	877	1.3	739.4	8500	**F414_739.4 S05 M05B4**	**F414_739.4 S05 ME05B4**	480	**F414_739.4 P63 BN63B4**	**F414_739.4 P63 BE63B4**	481
1.9	818	1.3	690.1	8500	**F414_690.1 S05 M05B4**	**F414_690.1 S05 ME05B4**	480	**F414_690.1 P63 BN63B4**	**F414_690.1 P63 BE63B4**	481
2.3	686	0.9	578.6	6500	**F314_578.6 S05 M05B4**	**F314_578.6 S05 ME05B4**	476	**F314_578.6 P63 BN63B4**	**F314_578.6 P63 BE63B4**	477



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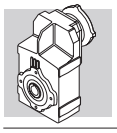
n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE1	IE2		IEC IE1	IEC IE2	
2.4	652	1.7	549.8	8500	F414_549.8 S05 M05B4	F414_549.8 S05 ME05B4	480	F414_549.8 P63 BN63B4	F414_549.8 P63 BE63B4	481
2.5	626	1.0	527.8	6500	F314_527.8 S05 M05B4	F314_527.8 S05 ME05B4	476	F314_527.8 P63 BN63B4	F314_527.8 P63 BE63B4	477
2.9	549	1.1	462.6	6500	F314_462.6 S05 M05B4	F314_462.6 S05 ME05B4	476	F314_462.6 P63 BN63B4	F314_462.6 P63 BE63B4	477
3.0	514	2.1	433.7	8500	F414_433.7 S05 M05B4	F414_433.7 S05 ME05B4	480	F414_433.7 P63 BN63B4	F414_433.7 P63 BE63B4	481
3.2	497	1.2	418.9	6500	F314_418.9 S05 M05B4	F314_418.9 S05 ME05B4	476	F314_418.9 P63 BN63B4	F314_418.9 P63 BE63B4	477
3.4	467	0.9	393.9	6500	F254_393.9 S05 M05B4	F254_393.9 S05 ME05B4	472	F254_393.9 P63 BN63B4	F254_393.9 P63 BE63B4	473
3.5	454	1.3	374.4	6500				F313_374.4 P63 BN63B4	F313_374.4 P63 BE63B4	477
3.8	418	2.6	344.8	8500				F413_344.8 P63 BN63B4	F413_344.8 P63 BE63B4	481
4.0	404	1.0	333.1	6500	F253_333.1 S05 M05B4	F253_333.1 S05 ME05B4	472	F253_333.1 P63 BN63B4	F253_333.1 P63 BE63B4	473
4.0	403	1.5	332.8	6500				F313_332.8 P63 BN63B4	F313_332.8 P63 BE63B4	477
4.5	356	1.7	293.8	6500				F313_293.8 P63 BN63B4	F313_293.8 P63 BE63B4	477
4.5	359	3.1	296.6	8500				F413_296.6 P63 BN63B4	F413_296.6 P63 BE63B4	481
4.6	349	1.1	288.1	6500	F253_288.1 S05 M05B4	F253_288.1 S05 ME05B4	472	F253_288.1 P63 BN63B4	F253_288.1 P63 BE63B4	473
4.9	323	3.4	266.9	8500				F413_266.9 P63 BN63B4	F413_266.9 P63 BE63B4	481
5.2	310	1.3	256.1	6500	F253_256.1 S05 M05B4	F253_256.1 S05 ME05B4	472	F253_256.1 P63 BN63B4	F253_256.1 P63 BE63B4	473
5.2	307	2.0	253.6	6500				F313_253.6 P63 BN63B4	F313_253.6 P63 BE63B4	477
5.8	276	1.4	227.8	6500	F253_227.8 S05 M05B4	F253_227.8 S05 ME05B4	472	F253_227.8 P63 BN63B4	F253_227.8 P63 BE63B4	473
5.8	277	2.2	228.2	6500				F313_228.2 P63 BN63B4	F313_228.2 P63 BE63B4	477
6.3	254	1.0	209.3	4000	F203_209.3 S05 M05B4	F203_209.3 S05 ME05B4	468	F203_209.3 P63 BN63B4	F203_209.3 P63 BE63B4	469
6.5	245	2.4	202.3	6500				F313_202.3 P63 BN63B4	F313_202.3 P63 BE63B4	477
6.8	235	1.7	193.6	6500	F253_193.6 S05 M05B4	F253_193.6 S05 ME05B4	472	F253_193.6 P63 BN63B4	F253_193.6 P63 BE63B4	473
7.1	224	1.1	184.9	4000	F203_184.9 S05 M05B4	F203_184.9 S05 ME05B4	468	F203_184.9 P63 BN63B4	F203_184.9 P63 BE63B4	469
7.1	225	2.7	185.4	6500				F313_185.4 P63 BN63B4	F313_185.4 P63 BE63B4	477
7.6	209	1.2	172.6	4000	F203_172.6 S05 M05B4	F203_172.6 S05 ME05B4	468	F203_172.6 P63 BN63B4	F203_172.6 P63 BE63B4	469
7.6	211	1.9	174.2	6500	F253_174.2 S05 M05B4	F253_174.2 S05 ME05B4	472	F253_174.2 P63 BN63B4	F253_174.2 P63 BE63B4	473
7.9	202	3.0	166.8	6500				F313_166.8 P63 BN63B4	F313_166.8 P63 BE63B4	477
8.4	189	1.3	156.3	4000	F203_156.3 S05 M05B4	F203_156.3 S05 ME05B4	468	F203_156.3 P63 BN63B4	F203_156.3 P63 BE63B4	469
8.5	189	2.1	155.9	6500	F253_155.9 S05 M05B4	F253_155.9 S05 ME05B4	472	F253_155.9 P63 BN63B4	F253_155.9 P63 BE63B4	473
8.8	183	3.3	150.8	6500				F313_150.8 P63 BN63B4	F313_150.8 P63 BE63B4	477
9.2	173	2.3	143.0	6500	F253_143.0 S05 M05B4	F253_143.0 S05 ME05B4	472	F253_143.0 P63 BN63B4	F253_143.0 P63 BE63B4	473
9.4	171	3.5	140.7	6500				F313_140.7 P63 BN63B4	F313_140.7 P63 BE63B4	477
10.0	164	1.5	132.2	4000	F202_132.2 S05 M05B4	F202_132.2 S05 ME05B4	468	F202_132.2 P63 BN63B4	F202_132.2 P63 BE63B4	469
10.3	155	2.6	127.8	6500	F253_127.8 S05 M05B4	F253_127.8 S05 ME05B4	472	F253_127.8 P63 BN63B4	F253_127.8 P63 BE63B4	473
10.4	157	0.9	127.1	2800	F102_127.1 S05 M05B4	F102_127.1 S05 ME05B4	464	F102_127.1 P63 BN63B4	F102_127.1 P63 BE63B4	465
11.5	142	1.8	114.3	4000	F202_114.3 S05 M05B4	F202_114.3 S05 ME05B4	468	F202_114.3 P63 BN63B4	F202_114.3 P63 BE63B4	469
11.7	137	2.9	113.0	6500	F253_113.0 S05 M05B4	F253_113.0 S05 ME05B4	472	F253_113.0 P63 BN63B4	F253_113.0 P63 BE63B4	473
12.5	131	1.1	106.0	2800	F102_106.0 S05 M05B4	F102_106.0 S05 ME05B4	464	F102_106.0 P63 BN63B4	F102_106.0 P63 BE63B4	465
12.5	128	3.1	105.4	6500	F253_105.4 S05 M05B4	F253_105.4 S05 ME05B4	472	F253_105.4 P63 BN63B4	F253_105.4 P63 BE63B4	473
13.0	126	2.0	101.6	4000	F202_101.6 S05 M05B4	F202_101.6 S05 ME05B4	468	F202_101.6 P63 BN63B4	F202_101.6 P63 BE63B4	469
13.8	116	3.5	95.5	6500	F253_95.5 S05 M05B4	F253_95.5 S05 ME05B4	472	F253_95.5 P63 BN63B4	F253_95.5 P63 BE63B4	473
14.4	113	1.2	91.5	2800	F102_91.5 S05 M05B4	F102_91.5 S05 ME05B4	464	F102_91.5 P63 BN63B4	F102_91.5 P63 BE63B4	465
14.6	112	2.2	90.4	4000	F202_90.4 S05 M05B4	F202_90.4 S05 ME05B4	468	F202_90.4 P63 BN63B4	F202_90.4 P63 BE63B4	469
16.2	101	1.4	81.3	2800	F102_81.3 S05 M05B4	F102_81.3 S05 ME05B4	464	F102_81.3 P63 BN63B4	F102_81.3 P63 BE63B4	465
17.2	95	2.6	76.8	4000	F202_76.8 S05 M05B4	F202_76.8 S05 ME05B4	468	F202_76.8 P63 BN63B4	F202_76.8 P63 BE63B4	469
18.6	88	1.6	71.1	2800	F102_71.1 S05 M05B4	F102_71.1 S05 ME05B4	464	F102_71.1 P63 BN63B4	F102_71.1 P63 BE63B4	465
19.1	86	2.9	69.1	4000	F202_69.1 S05 M05B4	F202_69.1 S05 ME05B4	468	F202_69.1 P63 BN63B4	F202_69.1 P63 BE63B4	469
21.0	78	1.8	63.0	2800	F102_63.0 S05 M05B4	F102_63.0 S05 ME05B4	464	F102_63.0 P63 BN63B4	F102_63.0 P63 BE63B4	465
21.3	77	3.3	61.9	4000	F202_61.9 S05 M05B4	F202_61.9 S05 ME05B4	468	F202_61.9 P63 BN63B4	F202_61.9 P63 BE63B4	469
23.3	70	2.0	56.7	2800	F102_56.7 S05 M05B4	F102_56.7 S05 ME05B4	464	F102_56.7 P63 BN63B4	F102_56.7 P63 BE63B4	465
27.1	60	2.3	48.7	2800	F102_48.7 S05 M05B4	F102_48.7 S05 ME05B4	464	F102_48.7 P63 BN63B4	F102_48.7 P63 BE63B4	465
29.6	55	2.5	44.7	2800	F102_44.7 S05 M05B4	F102_44.7 S05 ME05B4	464	F102_44.7 P63 BN63B4	F102_44.7 P63 BE63B4	465
33	49	2.9	39.6	2800	F102_39.6 S05 M05B4	F102_39.6 S05 ME05B4	464	F102_39.6 P63 BN63B4	F102_39.6 P63 BE63B4	465
37	44	3.2	35.3	2800	F102_35.3 S05 M05B4	F102_35.3 S05 ME05B4	464	F102_35.3 P63 BN63B4	F102_35.3 P63 BE63B4	465
40	41	3.4	33.0	2800	F102_33.0 S05 M05B4	F102_33.0 S05 ME05B4	464	F102_33.0 P63 BN63B4	F102_33.0 P63 BE63B4	465
45	37	3.8	29.6	2800	F102_29.6 S05 M05B4	F102_29.6 S05 ME05B4	464	F102_29.6 P63 BN63B4	F102_29.6 P63 BE63B4	465
51	32	4.4	25.8	2780	F102_25.8 S05 M05B4	F102_25.8 S05 ME05B4	464	F102_25.8 P63 BN63B4	F102_25.8 P63 BE63B4	465
58	28	5.0	22.8	2680	F102_22.8 S05 M05B4	F102_22.8 S05 ME05B4	464	F102_22.8 P63 BN63B4	F102_22.8 P63 BE63B4	465
68	24	5.7	19.3	2540	F102_19.3 S05 M05B4	F102_19.3 S05 ME05B4	464	F102_19.3 P63 BN63B4	F102_19.3 P63 BE63B4	465
78	21	6.1	17.0	2440	F102_17.0 S05 M05B4	F102_17.0 S05 ME05B4	464	F102_17.0 P63 BN63B4	F102_17.0 P63 BE63B4	465
90	18	6.6	14.6	2330	F102_14.6 S05 M05B4	F102_14.6 S05 ME05B4	464	F102_14.6 P63 BN63B4	F102_14.6 P63 BE63B4	465
101	16	6.4	13.0	2240	F102_13.0 S05 M05B4	F102_13.0 S05 ME05B4	464	F102_13.0 P63 BN63B4	F102_13.0 P63 BE63B4	465
114	14	6.7	11.5	2150	F102_11.5 S05 M05B4	F102_11.5 S05 ME05B4	464	F102_11.5 P63 BN63B4	F102_11.5 P63 BE63B4	465
135	12	7.4	9.8	2040	F102_9.8 S05 M05B4	F102_9.8 S05 ME05B4	464	F102_9.8 P63 BN63B4	F102_9.8 P63 BE63B4	465
154	11	7.7	8.6	1960	F102_8.6 S05 M05B4	F102_8.6 S05 ME05B4	464	F102_8.6 P63 BN63B4	F102_8.6 P63 BE63B4	465
178	9	8.3	7.4	1870	F102_7.4 S05 M05B4	F102_7.4 S05 ME05B4	464	F102_7.4 P63 BN63B4	F102_7.4 P63 BE63B4	465



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n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE1	IE2		IE1	IEC IE2	
186	9	10.7	14.6	1860	**F102_14.6 S05 M05A2**		464	**F102_14.6 P63 BN63A2**		465
210	8	10.9	13.0	1790	**F102_13.0 S05 M05A2**		464	**F102_13.0 P63 BN63A2**		465
237	7	11.3	11.5	1720	**F102_11.5 S05 M05A2**		464	**F102_11.5 P63 BN63A2**		465
279	6	12.5	9.8	1630	**F102_9.8 S05 M05A2**		464	**F102_9.8 P63 BN63A2**		465
318	5	13.0	8.6	1560	**F102_8.6 S05 M05A2**		464	**F102_8.6 P63 BN63A2**		465
369	4	14.2	7.4	1490	**F102_7.4 S05 M05A2**		464	**F102_7.4 P63 BN63A2**		465

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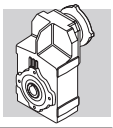
n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE3		IEC IE3	
0.41	3804	1.3	2188	35000				
0.45	3511	1.4	2019	35000				
0.45	3455	2.3	1987	45000				
0.49	3189	2.5	1834	45000				
0.52	2985	1.7	1717	35000				
0.53	2972	2.7	1709	45000				
0.57	2756	1.8	1585	35000				
0.57	2744	2.9	1578	45000				
0.61	2576	1.9	1481	35000				
0.65	2406	3.3	1384	45000				
0.66	2378	2.1	1368	35000				
0.76	2055	2.4	1182	35000				
0.77	2030	0.9	1168	12000				
0.79	1985	1.5	1141	20000				
0.83	1897	2.6	1091	35000				
0.84	1861	1.0	1070	12000				
0.85	1832	1.6	1054	20000				
0.92	1703	1.1	979.4	12000				
0.92	1694	3.0	974.4	35000				
0.94	1667	1.7	958.9	20000				
1.0	1540	1.2	885.5	12000				
1.0	1539	1.9	885.1	20000				
1.0	1564	3.2	899.4	35000				
1.1	1437	1.3	826.4	12000				
1.1	1430	3.5	822.2	35000				
1.2	1286	0.9	739.4	8500				
1.2	1286	0.9	739.4	8500				
1.3	1200	0.9	690.1	8500				
1.3	1200	0.9	690.1	8500				
1.3	1165	0.9	982.4	8500	**F414_982.4 S05 MXN05MB4**	480	**F414_982.4 P63 BXN63MB4**	481
1.5	1068	1.0	900.5	8500	**F414_900.5 S05 MXN05MB4**	480	**F414_900.5 P63 BXN63MB4**	481
1.6	965	1.1	813.8	8500	**F414_813.8 S05 MXN05MB4**	480	**F414_813.8 P63 BXN63MB4**	481
1.8	877	1.3	739.4	8500	**F414_739.4 S05 MXN05MB4**	480	**F414_739.4 P63 BXN63MB4**	481
1.9	818	1.3	690.1	8500	**F414_690.1 S05 MXN05MB4**	480	**F414_690.1 P63 BXN63MB4**	481
2.3	686	0.9	578.6	6500	**F314_578.6 S05 MXN05MB4**	476	**F314_578.6 P63 BXN63MB4**	477
2.4	652	1.7	549.8	8500	**F414_549.8 S05 MXN05MB4**	480	**F414_549.8 P63 BXN63MB4**	481
2.5	626	1.0	527.8	6500	**F314_527.8 S05 MXN05MB4**	476	**F314_527.8 P63 BXN63MB4**	477
2.9	549	1.1	462.6	6500	**F314_462.6 S05 MXN05MB4**	476	**F314_462.6 P63 BXN63MB4**	477
3.0	514	2.1	433.7	8500	**F414_433.7 S05 MXN05MB4**	480	**F414_433.7 P63 BXN63MB4**	481
3.2	497	1.2	418.9	6500	**F314_418.9 S05 MXN05MB4**	476	**F314_418.9 P63 BXN63MB4**	477
3.4	467	0.9	393.9	6500	**F254_393.9 S05 MXN05MB4**	472	**F254_393.9 P63 BXN63MB4**	473
3.5	454	1.3	374.4	6500			**F313_374.4 P63 BXN63MB4**	477
3.8	418	2.6	344.8	8500			**F413_344.8 P63 BXN63MB4**	481
4.0	404	1.0	333.1	6500	**F253_333.1 S05 MXN05MB4**	472	**F253_333.1 P63 BXN63MB4**	473
4.0	403	1.5	332.8	6500			**F313_332.8 P63 BXN63MB4**	477
4.5	356	1.7	293.8	6500			**F313_293.8 P63 BXN63MB4**	477
4.5	359	3.1	296.6	8500			**F413_296.6 P63 BXN63MB4**	481
4.6	349	1.1	288.1	6500	**F253_288.1 S05 MXN05MB4**	472	**F253_288.1 P63 BXN63MB4**	473



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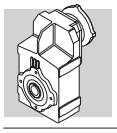
n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE3		IEC IE3	
4.9	323	3.4	266.9	8500			F413_266.9 P63 BXN63MB4	481
5.2	310	1.3	256.1	6500	F253_256.1 S05 MXN05MB4	472	F253_256.1 P63 BXN63MB4	473
5.2	307	2.0	253.6	6500			F313_253.6 P63 BXN63MB4	477
5.8	276	1.4	227.8	6500	F253_227.8 S05 MXN05MB4	472	F253_227.8 P63 BXN63MB4	473
5.8	277	2.2	228.2	6500			F313_228.2 P63 BXN63MB4	477
6.3	254	1.0	209.3	4000	F203_209.3 S05 MXN05MB4	468	F203_209.3 P63 BXN63MB4	469
6.5	245	2.4	202.3	6500			F313_202.3 P63 BXN63MB4	477
6.8	235	1.7	193.6	6500	F253_193.6 S05 MXN05MB4	472	F253_193.6 P63 BXN63MB4	473
7.1	224	1.1	184.9	4000	F203_184.9 S05 MXN05MB4	468	F203_184.9 P63 BXN63MB4	469
7.1	225	2.7	185.4	6500			F313_185.4 P63 BXN63MB4	477
7.6	209	1.2	172.6	4000	F203_172.6 S05 MXN05MB4	468	F203_172.6 P63 BXN63MB4	469
7.6	211	1.9	174.2	6500	F253_174.2 S05 MXN05MB4	472	F253_174.2 P63 BXN63MB4	473
7.9	202	3.0	166.8	6500			F313_166.8 P63 BXN63MB4	477
8.4	189	1.3	156.3	4000	F203_156.3 S05 MXN05MB4	468	F203_156.3 P63 BXN63MB4	469
8.5	189	2.1	155.9	6500	F253_155.9 S05 MXN05MB4	472	F253_155.9 P63 BXN63MB4	473
8.8	183	3.3	150.8	6500			F313_150.8 P63 BXN63MB4	477
9.2	173	2.3	143.0	6500	F253_143.0 S05 MXN05MB4	472	F253_143.0 P63 BXN63MB4	473
9.4	171	3.5	140.7	6500			F313_140.7 P63 BXN63MB4	477
10.0	164	1.5	132.2	4000	F202_132.2 S05 MXN05MB4	468	F202_132.2 P63 BXN63MB4	469
10.3	155	2.6	127.8	6500	F253_127.8 S05 MXN05MB4	472	F253_127.8 P63 BXN63MB4	473
10.4	157	0.9	127.1	2800	F102_127.1 S05 MXN05MB4	464	F102_127.1 P63 BXN63MB4	465
11.5	142	1.8	114.3	4000	F202_114.3 S05 MXN05MB4	468	F202_114.3 P63 BXN63MB4	469
11.7	137	2.9	113.0	6500	F253_113.0 S05 MXN05MB4	472	F253_113.0 P63 BXN63MB4	473
12.5	131	1.1	106.0	2800	F102_106.0 S05 MXN05MB4	464	F102_106.0 P63 BXN63MB4	465
12.5	128	3.1	105.4	6500	F253_105.4 S05 MXN05MB4	472	F253_105.4 P63 BXN63MB4	473
13.0	126	2.0	101.6	4000	F202_101.6 S05 MXN05MB4	468	F202_101.6 P63 BXN63MB4	469
13.8	116	3.5	95.5	6500	F253_95.5 S05 MXN05MB4	472	F253_95.5 P63 BXN63MB4	473
14.4	113	1.2	91.5	2800	F102_91.5 S05 MXN05MB4	464	F102_91.5 P63 BXN63MB4	465
14.6	112	2.2	90.4	4000	F202_90.4 S05 MXN05MB4	468	F202_90.4 P63 BXN63MB4	469
16.2	101	1.4	81.3	2800	F102_81.3 S05 MXN05MB4	464	F102_81.3 P63 BXN63MB4	465
17.2	95	2.6	76.8	4000	F202_76.8 S05 MXN05MB4	468	F202_76.8 P63 BXN63MB4	469
18.6	88	1.6	71.1	2800	F102_71.1 S05 MXN05MB4	464	F102_71.1 P63 BXN63MB4	465
19.1	86	2.9	69.1	4000	F202_69.1 S05 MXN05MB4	468	F202_69.1 P63 BXN63MB4	469
21.0	78	1.8	63.0	2800	F102_63.0 S05 MXN05MB4	464	F102_63.0 P63 BXN63MB4	465
21.3	77	3.3	61.9	4000	F202_61.9 S05 MXN05MB4	468	F202_61.9 P63 BXN63MB4	469
23.3	70	2.0	56.7	2800	F102_56.7 S05 MXN05MB4	464	F102_56.7 P63 BXN63MB4	465
27.1	60	2.3	48.7	2800	F102_48.7 S05 MXN05MB4	464	F102_48.7 P63 BXN63MB4	465
29.6	55	2.5	44.7	2800	F102_44.7 S05 MXN05MB4	464	F102_44.7 P63 BXN63MB4	465
33	49	2.9	39.6	2800	F102_39.6 S05 MXN05MB4	464	F102_39.6 P63 BXN63MB4	465
37	44	3.2	35.3	2800	F102_35.3 S05 MXN05MB4	464	F102_35.3 P63 BXN63MB4	465
40	41	3.4	33.0	2800	F102_33.0 S05 MXN05MB4	464	F102_33.0 P63 BXN63MB4	465
45	37	3.8	29.6	2800	F102_29.6 S05 MXN05MB4	464	F102_29.6 P63 BXN63MB4	465
51	32	4.4	25.8	2780	F102_25.8 S05 MXN05MB4	464	F102_25.8 P63 BXN63MB4	465
58	28	5.0	22.8	2680	F102_22.8 S05 MXN05MB4	464	F102_22.8 P63 BXN63MB4	465
68	24	5.7	19.3	2540	F102_19.3 S05 MXN05MB4	464	F102_19.3 P63 BXN63MB4	465
78	21	6.1	17.0	2440	F102_17.0 S05 MXN05MB4	464	F102_17.0 P63 BXN63MB4	465
90	18	6.6	14.6	2330	F102_14.6 S05 MXN05MB4	464	F102_14.6 P63 BXN63MB4	465
101	16	6.4	13.0	2240	F102_13.0 S05 MXN05MB4	464	F102_13.0 P63 BXN63MB4	465
114	14	6.7	11.5	2150	F102_11.5 S05 MXN05MB4	464	F102_11.5 P63 BXN63MB4	465
135	12	7.4	9.8	2040	F102_9.8 S05 MXN05MB4	464	F102_9.8 P63 BXN63MB4	465
154	11	7.7	8.6	1960	F102_8.6 S05 MXN05MB4	464	F102_8.6 P63 BXN63MB4	465
178	9	8.3	7.4	1870	F102_7.4 S05 MXN05MB4	464	F102_7.4 P63 BXN63MB4	465
186	9	10.7	14.6	1860				
210	8	10.9	13.0	1790				
237	7	11.3	11.5	1720				
279	6	12.5	9.8	1630				
318	5	13.0	8.6	1560				
369	4	14.2	7.4	1490				



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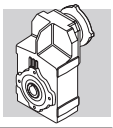
n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE1	IE2		IE1	IEC IE2	
0.41	5283	0.9	2188	35000	**F704_2188 S1 M1SD6**		492	**F704_2188 P71 BN71B6**		493
0.45	4877	1.0	2019	35000	**F704_2019 S1 M1SD6**		492	**F704_2019 P71 BN71B6**		493
0.45	4799	1.7	1987	45000	**F804_1987 S1 M1SD6**		495	**F804_1987 P71 BN71B6**		496
0.49	4430	1.8	1834	45000	**F804_1834 S1 M1SD6**		495	**F804_1834 P71 BN71B6**		496
0.52	4146	1.2	1717	35000	**F704_1717 S1 M1SD6**		492	**F704_1717 P71 BN71B6**		493
0.53	4128	1.9	1709	45000	**F804_1709 S1 M1SD6**		495	**F804_1709 P71 BN71B6**		496
0.57	3827	1.3	1585	35000	**F704_1585 S1 M1SD6**		492	**F704_1585 P71 BN71B6**		493
0.57	3810	2.1	1578	45000	**F804_1578 S1 M1SD6**		495	**F804_1578 P71 BN71B6**		496
0.61	3578	1.4	1481	35000	**F704_1481 S1 M1SD6**		492	**F704_1481 P71 BN71B6**		493
0.65	3342	2.4	1384	45000	**F804_1384 S1 M1SD6**		495	**F804_1384 P71 BN71B6**		496
0.66	3303	1.5	1368	35000	**F704_1368 S1 M1SD6**		492	**F704_1368 P71 BN71B6**		493
0.70	3085	2.6	1277	45000	**F804_1277 S1 M1SD6**		495	**F804_1277 P71 BN71B6**		496
0.76	2854	1.8	1182	35000	**F704_1182 S1 M1SD6**		492	**F704_1182 P71 BN71B6**		493
0.79	2757	1.1	1141	20000	**F604_1141 S1 M1SD6**		488	**F604_1141 P71 BN71B6**		489
0.79	2769	2.9	1146	45000	**F804_1146 S1 M1SD6**		495	**F804_1146 P71 BN71B6**		496
0.83	2635	1.9	1091	35000	**F704_1091 S1 M1SD6**		492	**F704_1091 P71 BN71B6**		493
0.85	2545	1.1	1054	20000	**F604_1054 S1 M1SD6**		488	**F604_1054 P71 BN71B6**		489
0.85	2556	3.1	1058	45000	**F804_1058 S1 M1SD6**		495	**F804_1058 P71 BN71B6**		496
0.92	2353	2.1	974.4	35000	**F704_974.4 S1 M1SD6**		492	**F704_974.4 P71 BN71B6**		493
0.94	2316	1.3	958.9	20000	**F604_958.9 S1 M1SD6**		488	**F604_958.9 P71 BN71B6**		489
1.0	2138	1.4	885.1	20000	**F604_885.1 S1 M1SD6**		488	**F604_885.1 P71 BN71B6**		489
1.0	2172	2.3	899.4	35000	**F704_899.4 S1 M1SD6**		492	**F704_899.4 P71 BN71B6**		493
1.1	1996	0.9	826.4	12000	**F514_826.4 S1 M1SD6**		484	**F514_826.4 P71 BN71B6**		485
1.1	1986	2.5	822.2	35000	**F704_822.2 S1 M1SD6**		492	**F704_822.2 P71 BN71B6**		493
1.3	1633	1.1	676.3	12000	**F514_676.3 S1 M1SD6**		484	**F514_676.3 P71 BN71B6**		485
1.4	1600	1.8	662.4	20000	**F604_662.4 S1 M1SD6**		488	**F604_662.4 P71 BN71B6**		489
1.4	1588	3.1	657.4	35000	**F704_657.4 S1 M1SD6**		492	**F704_657.4 P71 BN71B6**		493
1.5	1477	2.0	611.4	20000	**F604_611.4 S1 M1SD6**		488	**F604_611.4 P71 BN71B6**		489
1.5	1466	3.4	606.8	35000	**F704_606.8 S1 M1SD6**		492	**F704_606.8 P71 BN71B6**		493
1.7	1282	0.9	813.8	8500	**F414_813.8 S05 M05C4**	**F414_813.8 S1 ME1SA4**	480	**F414_813.8 P71 BN71A4**	**F414_813.8 P71 BE71A4**	481
1.8	1199	0.9	739.4	8500	**F414_739.4 S05 M05C4**	**F414_739.4 S1 ME1SA4**	480	**F414_739.4 P71 BN71A4**	**F414_739.4 P71 BE71A4**	481
1.9	1119	1.0	690.1	8500	**F414_690.1 S05 M05C4**	**F414_690.1 S1 ME1SA4**	480	**F414_690.1 P71 BN71A4**	**F414_690.1 P71 BE71A4**	481
2.4	892	1.2	549.8	8500	**F414_549.8 S05 M05C4**	**F414_549.8 S1 ME1SA4**	480	**F414_549.8 P71 BN71A4**	**F414_549.8 P71 BE71A4**	481
2.8	783	2.3	317.3	12000	**F513_317.3 S1 M1SD6**		484	**F513_317.3 P71 BN71B6**		485
3.1	704	1.6	433.7	8500	**F414_433.7 S05 M05C4**	**F414_433.7 S1 ME1SA4**	480	**F414_433.7 P71 BN71A4**	**F414_433.7 P71 BE71A4**	481
3.2	679	0.9	418.9	6500	**F314_418.9 S05 M05C4**	**F314_418.9 S1 ME1SA4**	476	**F314_418.9 P71 BN71A4**	**F314_418.9 P71 BE71A4**	477
3.7	603	1.0	374.4	6500				**F313_374.4 P71 BN71A4**	**F313_374.4 P71 BE71A4**	477
4.0	555	2.0	344.8	8500				**F413_344.8 P71 BN71A4**	**F413_344.8 P71 BE71A4**	481
4.1	536	1.1	332.8	6500				**F313_332.8 P71 BN71A4**	**F313_332.8 P71 BE71A4**	477
4.7	473	1.3	293.8	6500				**F313_293.8 P71 BN71A4**	**F313_293.8 P71 BE71A4**	477
4.7	477	2.3	296.6	8500				**F413_296.6 P71 BN71A4**	**F413_296.6 P71 BE71A4**	481
5.2	425	0.9	256.1	6500	**F253_256.1 S05 M05C4**	**F253_256.1 S1 ME1SA4**	472	**F253_256.1 P71 BN71A4**	**F253_256.1 P71 BE71A4**	473
5.2	430	2.6	266.9	8500				**F413_266.9 P71 BN71A4**	**F413_266.9 P71 BE71A4**	481
5.4	408	1.5	253.6	6500				**F313_253.6 P71 BN71A4**	**F313_253.6 P71 BE71A4**	477
5.7	387	2.8	240.1	8500				**F413_240.1 P71 BN71A4**	**F413_240.1 P71 BE71A4**	481
5.9	378	1.1	227.8	6500	**F253_227.8 S05 M05C4**	**F253_227.8 S1 ME1SA4**	472	**F253_227.8 P71 BN71A4**	**F253_227.8 P71 BE71A4**	473
6.0	367	1.6	228.2	6500				**F313_228.2 P71 BN71A4**	**F313_228.2 P71 BE71A4**	477
6.3	354	3.1	220.1	8500				**F413_220.1 P71 BN71A4**	**F413_220.1 P71 BE71A4**	481
6.8	326	1.8	202.3	6500				**F313_202.3 P71 BN71A4**	**F313_202.3 P71 BE71A4**	477
6.9	321	1.2	193.6	6500	**F253_193.6 S05 M05C4**	**F253_193.6 S1 ME1SA4**	472	**F253_193.6 P71 BN71A4**	**F253_193.6 P71 BE71A4**	473
6.9	320	3.4	198.9	8500				**F413_198.9 P71 BN71A4**	**F413_198.9 P71 BE71A4**	481
7.4	299	2.0	185.4	6500				**F313_185.4 P71 BN71A4**	**F313_185.4 P71 BE71A4**	477
7.7	289	1.4	174.2	6500	**F253_174.2 S05 M05C4**	**F253_174.2 S1 ME1SA4**	472	**F253_174.2 P71 BN71A4**	**F253_174.2 P71 BE71A4**	473
8.0	278	0.9	172.6	4000	**F203_172.6 S05 M05C4**	**F203_172.6 S1 ME1SA4**	468	**F203_172.6 P71 BN71A4**	**F203_172.6 P71 BE71A4**	469
8.3	268	2.2	166.8	6500				**F313_166.8 P71 BN71A4**	**F313_166.8 P71 BE71A4**	477
8.6	259	1.0	156.3	4000	**F203_156.3 S05 M05C4**	**F203_156.3 S1 ME1SA4**	468	**F203_156.3 P71 BN71A4**	**F203_156.3 P71 BE71A4**	469
8.6	259	1.5	155.9	6500	**F253_155.9 S05 M05C4**	**F253_155.9 S1 ME1SA4**	472	**F253_155.9 P71 BN71A4**	**F253_155.9 P71 BE71A4**	473
9.2	243	2.5	150.8	6500				**F313_150.8 P71 BN71A4**	**F313_150.8 P71 BE71A4**	477
9.7	230	1.7	143.0	6500	**F253_143.0 S05 M05C4**	**F253_143.0 S1 ME1SA4**	472	**F253_143.0 P71 BN71A4**	**F253_143.0 P71 BE71A4**	473
9.8	227	2.6	140.7	6500				**F313_140.7 P71 BN71A4**	**F313_140.7 P71 BE71A4**	477



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n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE1	IE2		IEC IE1	IEC IE2	
10.1	224	1.1	132.2	4000	**F202_132.2 S05 M05C4**	**F202_132.2 S1 ME1SA4**	468	**F202_132.2 P71 BN71A4**	**F202_132.2 P71 BE71A4**	469
10.5	212	1.9	127.8	6500	**F253_127.8 S05 M05C4**	**F253_127.8 S1 ME1SA4**	472	**F253_127.8 P71 BN71A4**	**F253_127.8 P71 BE71A4**	473
10.7	207	2.9	128.4	6500				**F313_128.4 P71 BN71A4**	**F313_128.4 P71 BE71A4**	477
11.7	194	1.3	114.3	4000	**F202_114.3 S05 M05C4**	**F202_114.3 S1 ME1SA4**	468	**F202_114.3 P71 BN71A4**	**F202_114.3 P71 BE71A4**	469
12.2	182	2.2	113.0	6500	**F253_113.0 S05 M05C4**	**F253_113.0 S1 ME1SA4**	472	**F253_113.0 P71 BN71A4**	**F253_113.0 P71 BE71A4**	473
12.3	181	3.3	112.5	6500				**F313_112.5 P71 BN71A4**	**F313_112.5 P71 BE71A4**	477
12.7	175	2.3	105.4	6500	**F253_105.4 S05 M05C4**	**F253_105.4 S1 ME1SA4**	472	**F253_105.4 P71 BN71A4**	**F253_105.4 P71 BE71A4**	473
13.2	172	1.5	101.6	4000	**F202_101.6 S05 M05C4**	**F202_101.6 S1 ME1SA4**	468	**F202_101.6 P71 BN71A4**	**F202_101.6 P71 BE71A4**	469
14.0	158	2.5	95.5	6500	**F253_95.5 S05 M05C4**	**F253_95.5 S1 ME1SA4**	472	**F253_95.5 P71 BN71A4**	**F253_95.5 P71 BE71A4**	473
14.6	155	0.9	91.5	2800	**F102_91.5 S05 M05C4**	**F102_91.5 S1 ME1SA4**	464	**F102_91.5 P71 BN71A4**	**F102_91.5 P71 BE71A4**	465
14.8	153	1.6	90.4	4000	**F202_90.4 S05 M05C4**	**F202_90.4 S1 ME1SA4**	468	**F202_90.4 P71 BN71A4**	**F202_90.4 P71 BE71A4**	469
16.1	138	2.9	83.4	6500	**F253_83.4 S05 M05C4**	**F253_83.4 S1 ME1SA4**	472	**F253_83.4 P71 BN71A4**	**F253_83.4 P71 BE71A4**	473
16.5	138	1.0	81.3	2800	**F102_81.3 S05 M05C4**	**F102_81.3 S1 ME1SA4**	464	**F102_81.3 P71 BN71A4**	**F102_81.3 P71 BE71A4**	465
17.4	130	1.9	76.8	4000	**F202_76.8 S05 M05C4**	**F202_76.8 S1 ME1SA4**	468	**F202_76.8 P71 BN71A4**	**F202_76.8 P71 BE71A4**	469
17.5	127	3.2	76.6	6420	**F253_76.6 S05 M05C4**	**F253_76.6 S1 ME1SA4**	472	**F253_76.6 P71 BN71A4**	**F253_76.6 P71 BE71A4**	473
18.8	120	1.2	71.1	2800	**F102_71.1 S05 M05C4**	**F102_71.1 S1 ME1SA4**	464	**F102_71.1 P71 BN71A4**	**F102_71.1 P71 BE71A4**	465
19.4	117	2.1	69.1	4000	**F202_69.1 S05 M05C4**	**F202_69.1 S1 ME1SA4**	468	**F202_69.1 P71 BN71A4**	**F202_69.1 P71 BE71A4**	469
21.3	107	1.3	63.0	2800	**F102_63.0 S05 M05C4**	**F102_63.0 S1 ME1SA4**	464	**F102_63.0 P71 BN71A4**	**F102_63.0 P71 BE71A4**	465
21.7	105	2.4	61.9	4000	**F202_61.9 S05 M05C4**	**F202_61.9 S1 ME1SA4**	468	**F202_61.9 P71 BN71A4**	**F202_61.9 P71 BE71A4**	469
23.6	96	1.5	56.7	2800	**F102_56.7 S05 M05C4**	**F102_56.7 S1 ME1SA4**	464	**F102_56.7 P71 BN71A4**	**F102_56.7 P71 BE71A4**	465
23.6	96	2.6	56.7	4000	**F202_56.7 S05 M05C4**	**F202_56.7 S1 ME1SA4**	468	**F202_56.7 P71 BN71A4**	**F202_56.7 P71 BE71A4**	469
26.4	86	2.9	50.7	4000	**F202_50.7 S05 M05C4**	**F202_50.7 S1 ME1SA4**	468	**F202_50.7 P71 BN71A4**	**F202_50.7 P71 BE71A4**	469
27.5	83	1.7	48.7	2800	**F102_48.7 S05 M05C4**	**F102_48.7 S1 ME1SA4**	464	**F102_48.7 P71 BN71A4**	**F102_48.7 P71 BE71A4**	465
29.9	76	3.3	44.8	3870	**F202_44.8 S05 M05C4**	**F202_44.8 S1 ME1SA4**	468	**F202_44.8 P71 BN71A4**	**F202_44.8 P71 BE71A4**	469
30	76	1.9	44.7	2800	**F102_44.7 S05 M05C4**	**F102_44.7 S1 ME1SA4**	464	**F102_44.7 P71 BN71A4**	**F102_44.7 P71 BE71A4**	465
34	67	2.1	39.6	2800	**F102_39.6 S05 M05C4**	**F102_39.6 S1 ME1SA4**	464	**F102_39.6 P71 BN71A4**	**F102_39.6 P71 BE71A4**	465
38	60	2.3	35.3	2800	**F102_35.3 S05 M05C4**	**F102_35.3 S1 ME1SA4**	464	**F102_35.3 P71 BN71A4**	**F102_35.3 P71 BE71A4**	465
41	56	2.5	33.0	2800	**F102_33.0 S05 M05C4**	**F102_33.0 S1 ME1SA4**	464	**F102_33.0 P71 BN71A4**	**F102_33.0 P71 BE71A4**	465
45	50	2.8	29.6	2800	**F102_29.6 S05 M05C4**	**F102_29.6 S1 ME1SA4**	464	**F102_29.6 P71 BN71A4**	**F102_29.6 P71 BE71A4**	465
52	44	3.2	25.8	2750	**F102_25.8 S05 M05C4**	**F102_25.8 S1 ME1SA4**	464	**F102_25.8 P71 BN71A4**	**F102_25.8 P71 BE71A4**	465
59	39	3.6	22.8	2650	**F102_22.8 S05 M05C4**	**F102_22.8 S1 ME1SA4**	464	**F102_22.8 P71 BN71A4**	**F102_22.8 P71 BE71A4**	465
69	33	4.2	19.3	2520	**F102_19.3 S05 M05C4**	**F102_19.3 S1 ME1SA4**	464	**F102_19.3 P71 BN71A4**	**F102_19.3 P71 BE71A4**	465
81	28	4.6	17.0	2420	**F102_17.0 S05 M05C4**	**F102_17.0 S1 ME1SA4**	464	**F102_17.0 P71 BN71A4**	**F102_17.0 P71 BE71A4**	465
91	25	4.8	14.6	2310	**F102_14.6 S05 M05C4**	**F102_14.6 S1 ME1SA4**	464	**F102_14.6 P71 BN71A4**	**F102_14.6 P71 BE71A4**	465
103	22	4.7	13.0	2230	**F102_13.0 S05 M05C4**	**F102_13.0 S1 ME1SA4**	464	**F102_13.0 P71 BN71A4**	**F102_13.0 P71 BE71A4**	465
120	19	5.1	11.5	2140	**F102_11.5 S05 M05C4**	**F102_11.5 S1 ME1SA4**	464	**F102_11.5 P71 BN71A4**	**F102_11.5 P71 BE71A4**	465
137	17	5.4	9.8	2030	**F102_9.8 S05 M05C4**	**F102_9.8 S1 ME1SA4**	464	**F102_9.8 P71 BN71A4**	**F102_9.8 P71 BE71A4**	465
161	14	5.8	8.6	1950	**F102_8.6 S05 M05C4**	**F102_8.6 S1 ME1SA4**	464	**F102_8.6 P71 BN71A4**	**F102_8.6 P71 BE71A4**	465
181	13	6.1	7.4	1860	**F102_7.4 S05 M05C4**	**F102_7.4 S1 ME1SA4**	464	**F102_7.4 P71 BN71A4**	**F102_7.4 P71 BE71A4**	465
187	12	7.7	14.6	1850	**F102_14.6 S05 M05B2**		464	**F102_14.6 P63 BN63B2**		465
210	11	7.9	13.0	1780	**F102_13.0 S05 M05B2**		464	**F102_13.0 P63 BN63B2**		465
237	10	8.2	11.5	1710	**F102_11.5 S05 M05B2**		464	**F102_11.5 P63 BN63B2**		465
280	8	9.0	9.8	1620	**F102_9.8 S05 M05B2**		464	**F102_9.8 P63 BN63B2**		465
319	7	9.4	8.6	1550	**F102_8.6 S05 M05B2**		464	**F102_8.6 P63 BN63B2**		465
370	6	10.3	7.4	1480	**F102_7.4 S05 M05B2**		464	**F102_7.4 P63 BN63B2**		465

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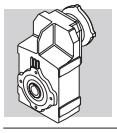
n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE3		IEC IE3	
0.41	5283	0.9	2188	35000				
0.45	4877	1.0	2019	35000				
0.45	4799	1.7	1987	45000				
0.49	4430	1.8	1834	45000				
0.52	4146	1.2	1717	35000				
0.53	4128	1.9	1709	45000				
0.57	3827	1.3	1585	35000				



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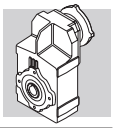
n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE3		IEC IE3	
0.57	3810	2.1	1578	45000				
0.61	3578	1.4	1481	35000				
0.65	3342	2.4	1384	45000				
0.66	3303	1.5	1368	35000				
0.70	3085	2.6	1277	45000				
0.76	2854	1.8	1182	35000				
0.79	2757	1.1	1141	20000				
0.79	2769	2.9	1146	45000				
0.83	2635	1.9	1091	35000				
0.85	2545	1.1	1054	20000				
0.85	2556	3.1	1058	45000				
0.92	2353	2.1	974.4	35000				
0.94	2316	1.3	958.9	20000				
1.0	2138	1.4	885.1	20000				
1.0	2172	2.3	899.4	35000				
1.1	1996	0.9	826.4	12000				
1.1	1986	2.5	822.2	35000				
1.3	1633	1.1	676.3	12000				
1.4	1600	1.8	662.4	20000				
1.4	1588	3.1	657.4	35000				
1.5	1477	2.0	611.4	20000				
1.5	1466	3.4	606.8	35000				
1.7	1282	0.9	813.8	8500	**F414_813.8 S10 MXN10MA4**	480	**F414_813.8 P71 BXN71MA4**	481
1.8	1199	0.9	739.4	8500	**F414_739.4 S10 MXN10MA4**	480	**F414_739.4 P71 BXN71MA4**	481
1.9	1119	1.0	690.1	8500	**F414_690.1 S10 MXN10MA4**	480	**F414_690.1 P71 BXN71MA4**	481
2.4	892	1.2	549.8	8500	**F414_549.8 S10 MXN10MA4**	480	**F414_549.8 P71 BXN71MA4**	481
2.8	783	2.3	317.3	12000				
3.1	704	1.6	433.7	8500	**F414_433.7 S10 MXN10MA4**	480	**F414_433.7 P71 BXN71MA4**	481
3.2	679	0.9	418.9	6500	**F314_418.9 S10 MXN10MA4**	476	**F314_418.9 P71 BXN71MA4**	477
3.7	603	1.0	374.4	6500			**F313_374.4 P71 BXN71MA4**	477
4.0	555	2.0	344.8	8500			**F413_344.8 P71 BXN71MA4**	481
4.1	536	1.1	332.8	6500			**F313_332.8 P71 BXN71MA4**	477
4.7	473	1.3	293.8	6500			**F313_293.8 P71 BXN71MA4**	477
4.7	477	2.3	296.6	8500			**F413_296.6 P71 BXN71MA4**	481
5.2	425	0.9	256.1	6500	**F253_256.1 S10 MXN10MA4**	472	**F253_256.1 P71 BXN71MA4**	473
5.2	430	2.6	266.9	8500			**F413_266.9 P71 BXN71MA4**	481
5.4	408	1.5	253.6	6500			**F313_253.6 P71 BXN71MA4**	477
5.7	387	2.8	240.1	8500			**F413_240.1 P71 BXN71MA4**	481
5.9	378	1.1	227.8	6500	**F253_227.8 S10 MXN10MA4**	472	**F253_227.8 P71 BXN71MA4**	473
6.0	367	1.6	228.2	6500			**F313_228.2 P71 BXN71MA4**	477
6.3	354	3.1	220.1	8500			**F413_220.1 P71 BXN71MA4**	481
6.8	326	1.8	202.3	6500			**F313_202.3 P71 BXN71MA4**	477
6.9	321	1.2	193.6	6500	**F253_193.6 S10 MXN10MA4**	472	**F253_193.6 P71 BXN71MA4**	473
6.9	320	3.4	198.9	8500			**F413_198.9 P71 BXN71MA4**	481
7.4	299	2.0	185.4	6500			**F313_185.4 P71 BXN71MA4**	477
7.7	289	1.4	174.2	6500	**F253_174.2 S10 MXN10MA4**	472	**F253_174.2 P71 BXN71MA4**	473
8.0	278	0.9	172.6	4000	**F203_172.6 S10 MXN10MA4**	468	**F203_172.6 P71 BXN71MA4**	469
8.3	268	2.2	166.8	6500			**F313_166.8 P71 BXN71MA4**	477
8.6	259	1.0	156.3	4000	**F203_156.3 S10 MXN10MA4**	468	**F203_156.3 P71 BXN71MA4**	469
8.6	259	1.5	155.9	6500	**F253_155.9 S10 MXN10MA4**	472	**F253_155.9 P71 BXN71MA4**	473
9.2	243	2.5	150.8	6500			**F313_150.8 P71 BXN71MA4**	477
9.7	230	1.7	143.0	6500	**F253_143.0 S10 MXN10MA4**	472	**F253_143.0 P71 BXN71MA4**	473
9.8	227	2.6	140.7	6500			**F313_140.7 P71 BXN71MA4**	477
10.1	224	1.1	132.2	4000	**F202_132.2 S10 MXN10MA4**	468	**F202_132.2 P71 BXN71MA4**	469
10.5	212	1.9	127.8	6500	**F253_127.8 S10 MXN10MA4**	472	**F253_127.8 P71 BXN71MA4**	473
10.7	207	2.9	128.4	6500			**F313_128.4 P71 BXN71MA4**	477
11.7	194	1.3	114.3	4000	**F202_114.3 S10 MXN10MA4**	468	**F202_114.3 P71 BXN71MA4**	469
12.2	182	2.2	113.0	6500	**F253_113.0 S10 MXN10MA4**	472	**F253_113.0 P71 BXN71MA4**	473
12.3	181	3.3	112.5	6500			**F313_112.5 P71 BXN71MA4**	477
12.7	175	2.3	105.4	6500	**F253_105.4 S10 MXN10MA4**	472	**F253_105.4 P71 BXN71MA4**	473



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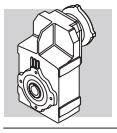
n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE3		IEC IE3	
13.2	172	1.5	101.6	4000	**F202_101.6 S10 MXN10MA4**	468	**F202_101.6 P71 BXN71MA4**	469
14.0	158	2.5	95.5	6500	**F253_95.5 S10 MXN10MA4**	472	**F253_95.5 P71 BXN71MA4**	473
14.6	155	0.9	91.5	2800	**F102_91.5 S10 MXN10MA4**	464	**F102_91.5 P71 BXN71MA4**	465
14.8	153	1.6	90.4	4000	**F202_90.4 S10 MXN10MA4**	468	**F202_90.4 P71 BXN71MA4**	469
16.1	138	2.9	83.4	6500	**F253_83.4 S10 MXN10MA4**	472	**F253_83.4 P71 BXN71MA4**	473
16.5	138	1.0	81.3	2800	**F102_81.3 S10 MXN10MA4**	464	**F102_81.3 P71 BXN71MA4**	465
17.4	130	1.9	76.8	4000	**F202_76.8 S10 MXN10MA4**	468	**F202_76.8 P71 BXN71MA4**	469
17.5	127	3.2	76.6	6420	**F253_76.6 S10 MXN10MA4**	472	**F253_76.6 P71 BXN71MA4**	473
18.8	120	1.2	71.1	2800	**F102_71.1 S10 MXN10MA4**	464	**F102_71.1 P71 BXN71MA4**	465
19.4	117	2.1	69.1	4000	**F202_69.1 S10 MXN10MA4**	468	**F202_69.1 P71 BXN71MA4**	469
21.3	107	1.3	63.0	2800	**F102_63.0 S10 MXN10MA4**	464	**F102_63.0 P71 BXN71MA4**	465
21.7	105	2.4	61.9	4000	**F202_61.9 S10 MXN10MA4**	468	**F202_61.9 P71 BXN71MA4**	469
23.6	96	1.5	56.7	2800	**F102_56.7 S10 MXN10MA4**	464	**F102_56.7 P71 BXN71MA4**	465
23.6	96	2.6	56.7	4000	**F202_56.7 S10 MXN10MA4**	468	**F202_56.7 P71 BXN71MA4**	469
26.4	86	2.9	50.7	4000	**F202_50.7 S10 MXN10MA4**	468	**F202_50.7 P71 BXN71MA4**	469
27.5	83	1.7	48.7	2800	**F102_48.7 S10 MXN10MA4**	464	**F102_48.7 P71 BXN71MA4**	465
29.9	76	3.3	44.8	3870	**F202_44.8 S10 MXN10MA4**	468	**F202_44.8 P71 BXN71MA4**	469
30	76	1.9	44.7	2800	**F102_44.7 S10 MXN10MA4**	464	**F102_44.7 P71 BXN71MA4**	465
34	67	2.1	39.6	2800	**F102_39.6 S10 MXN10MA4**	464	**F102_39.6 P71 BXN71MA4**	465
38	60	2.3	35.3	2800	**F102_35.3 S10 MXN10MA4**	464	**F102_35.3 P71 BXN71MA4**	465
41	56	2.5	33.0	2800	**F102_33.0 S10 MXN10MA4**	464	**F102_33.0 P71 BXN71MA4**	465
45	50	2.8	29.6	2800	**F102_29.6 S10 MXN10MA4**	464	**F102_29.6 P71 BXN71MA4**	465
52	44	3.2	25.8	2750	**F102_25.8 S10 MXN10MA4**	464	**F102_25.8 P71 BXN71MA4**	465
59	39	3.6	22.8	2650	**F102_22.8 S10 MXN10MA4**	464	**F102_22.8 P71 BXN71MA4**	465
69	33	4.2	19.3	2520	**F102_19.3 S10 MXN10MA4**	464	**F102_19.3 P71 BXN71MA4**	465
81	28	4.6	17.0	2420	**F102_17.0 S10 MXN10MA4**	464	**F102_17.0 P71 BXN71MA4**	465
91	25	4.8	14.6	2310	**F102_14.6 S10 MXN10MA4**	464	**F102_14.6 P71 BXN71MA4**	465
103	22	4.7	13.0	2230	**F102_13.0 S10 MXN10MA4**	464	**F102_13.0 P71 BXN71MA4**	465
120	19	5.1	11.5	2140	**F102_11.5 S10 MXN10MA4**	464	**F102_11.5 P71 BXN71MA4**	465
137	17	5.4	9.8	2030	**F102_9.8 S10 MXN10MA4**	464	**F102_9.8 P71 BXN71MA4**	465
161	14	5.8	8.6	1950	**F102_8.6 S10 MXN10MA4**	464	**F102_8.6 P71 BXN71MA4**	465
181	13	6.1	7.4	1860	**F102_7.4 S10 MXN10MA4**	464	**F102_7.4 P71 BXN71MA4**	465
187	12	7.7	14.6	1850				
210	11	7.9	13.0	1780				
237	10	8.2	11.5	1710				
280	8	9.0	9.8	1620				
319	7	9.4	8.6	1550				
370	6	10.3	7.4	1480				

0.37 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE1	IE2		IEC IE1	IE2	
0.46	7024	1.1	1987	45000	**F804_1987 S1 M1LA6**		495	**F804_1987 P80 BN80A6**		496
0.50	6484	1.2	1834	45000	**F804_1834 S1 M1LA6**		495	**F804_1834 P80 BN80A6**		496
0.53	6042	1.3	1709	45000	**F804_1709 S1 M1LA6**		495	**F804_1709 P80 BN80A6**		496
0.57	5602	0.9	1585	35000	**F704_1585 S1 M1LA6**		492	**F704_1585 P80 BN80A6**		493
0.58	5577	1.4	1578	45000	**F804_1578 S1 M1LA6**		495	**F804_1578 P80 BN80A6**		496
0.61	5238	1.0	1481	35000	**F704_1481 S1 M1LA6**		492	**F704_1481 P80 BN80A6**		493
0.63	5137	1.0	2188	35000	**F704_2188 S1 M1SD4**	**F704_2188 S1 ME1SB4**	492	**F704_2188 P71 BN71B4**	**F704_2188 P71 BE71B4**	493
0.68	4742	1.1	2019	35000	**F704_2019 S1 M1SD4**	**F704_2019 S1 ME1SB4**	492	**F704_2019 P71 BN71B4**	**F704_2019 P71 BE71B4**	493
0.69	4666	1.7	1987	45000	**F804_1987 S1 M1SD4**	**F804_1987 S1 ME1SB4**	495	**F804_1987 P71 BN71B4**	**F804_1987 P71 BE71B4**	496
0.75	4307	1.9	1834	45000	**F804_1834 S1 M1SD4**	**F804_1834 S1 ME1SB4**	495	**F804_1834 P71 BN71B4**	**F804_1834 P71 BE71B4**	496
0.80	4031	1.2	1717	35000	**F704_1717 S1 M1SD4**	**F704_1717 S1 ME1SB4**	492	**F704_1717 P71 BN71B4**	**F704_1717 P71 BE71B4**	493
0.80	4013	2.0	1709	45000	**F804_1709 S1 M1SD4**	**F804_1709 S1 ME1SB4**	495	**F804_1709 P71 BN71B4**	**F804_1709 P71 BE71B4**	496
0.86	3721	1.3	1585	35000	**F704_1585 S1 M1SD4**	**F704_1585 S1 ME1SB4**	492	**F704_1585 P71 BN71B4**	**F704_1585 P71 BE71B4**	493
0.87	3705	2.2	1578	45000	**F804_1578 S1 M1SD4**	**F804_1578 S1 ME1SB4**	495	**F804_1578 P71 BN71B4**	**F804_1578 P71 BE71B4**	496
0.92	3479	1.4	1481	35000	**F704_1481 S1 M1SD4**	**F704_1481 S1 ME1SB4**	492	**F704_1481 P71 BN71B4**	**F704_1481 P71 BE71B4**	493
0.99	3250	2.5	1384	45000	**F804_1384 S1 M1SD4**	**F804_1384 S1 ME1SB4**	495	**F804_1384 P71 BN71B4**	**F804_1384 P71 BE71B4**	496
1.0	3211	1.6	1368	35000	**F704_1368 S1 M1SD4**	**F704_1368 S1 ME1SB4**	492	**F704_1368 P71 BN71B4**	**F704_1368 P71 BE71B4**	493



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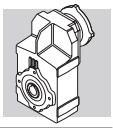
n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE1	IE2		IEC IE1	IEC IE2	
1.1	3000	2.7	1277	45000	F804_1277 S1 M1SD4	F804_1277 S1 ME1SB4	495	F804_1277 P71 BN71B4	F804_1277 P71 BE71B4	496
1.2	2680	1.1	1141	20000	F604_1141 S1 M1SD4	F604_1141 S1 ME1SB4	488	F604_1141 P71 BN71B4	F604_1141 P71 BE71B4	489
1.2	2775	1.8	1182	35000	F704_1182 S1 M1SD4	F704_1182 S1 ME1SB4	492	F704_1182 P71 BN71B4	F704_1182 P71 BE71B4	493
1.2	2692	3.0	1146	45000	F804_1146 S1 M1SD4	F804_1146 S1 ME1SB4	495	F804_1146 P71 BN71B4	F804_1146 P71 BE71B4	496
1.3	2474	1.2	1054	20000	F604_1054 S1 M1SD4	F604_1054 S1 ME1SB4	488	F604_1054 P71 BN71B4	F604_1054 P71 BE71B4	489
1.3	2562	2.0	1091	35000	F704_1091 S1 M1SD4	F704_1091 S1 ME1SB4	492	F704_1091 P71 BN71B4	F704_1091 P71 BE71B4	493
1.3	2485	3.2	1058	45000	F804_1058 S1 M1SD4	F804_1058 S1 ME1SB4	495	F804_1058 P71 BN71B4	F804_1058 P71 BE71B4	496
1.4	2252	1.3	958.9	20000	F604_958.9 S1 M1SD4	F604_958.9 S1 ME1SB4	488	F604_958.9 P71 BN71B4	F604_958.9 P71 BE71B4	489
1.4	2288	2.2	974.4	35000	F704_974.4 S1 M1SD4	F704_974.4 S1 ME1SB4	492	F704_974.4 P71 BN71B4	F704_974.4 P71 BE71B4	493
1.5	2079	0.9	885.5	12000	F514_885.5 S1 M1SD4	F514_885.5 S1 ME1SB4	484	F514_885.5 P71 BN71B4	F514_885.5 P71 BE71B4	485
1.5	2078	1.4	885.1	20000	F604_885.1 S1 M1SD4	F604_885.1 S1 ME1SB4	488	F604_885.1 P71 BN71B4	F604_885.1 P71 BE71B4	489
1.5	2112	2.4	899.4	35000	F704_899.4 S1 M1SD4	F704_899.4 S1 ME1SB4	492	F704_899.4 P71 BN71B4	F704_899.4 P71 BE71B4	493
1.7	1941	0.9	826.4	12000	F514_826.4 S1 M1SD4	F514_826.4 S1 ME1SB4	484	F514_826.4 P71 BN71B4	F514_826.4 P71 BE71B4	485
1.7	1931	2.6	822.2	35000	F704_822.2 S1 M1SD4	F704_822.2 S1 ME1SB4	492	F704_822.2 P71 BN71B4	F704_822.2 P71 BE71B4	493
2.0	1588	1.1	676.3	12000	F514_676.3 S1 M1SD4	F514_676.3 S1 ME1SB4	484	F514_676.3 P71 BN71B4	F514_676.3 P71 BE71B4	485
2.1	1556	1.9	662.4	20000	F604_662.4 S1 M1SD4	F604_662.4 S1 ME1SB4	488	F604_662.4 P71 BN71B4	F604_662.4 P71 BE71B4	489
2.1	1544	3.2	657.4	35000	F704_657.4 S1 M1SD4	F704_657.4 S1 ME1SB4	492	F704_657.4 P71 BN71B4	F704_657.4 P71 BE71B4	493
2.2	1436	2.0	611.4	20000	F604_611.4 S1 M1SD4	F604_611.4 S1 ME1SB4	488	F604_611.4 P71 BN71B4	F604_611.4 P71 BE71B4	489
2.3	1425	3.5	606.8	35000	F704_606.8 S1 M1SD4	F704_606.8 S1 ME1SB4	492	F704_606.8 P71 BN71B4	F704_606.8 P71 BE71B4	493
2.5	1291	0.9	549.8	8500	F414_549.8 S1 M1SD4	F414_549.8 S1 ME1SB4	480	F414_549.8 P71 BN71B4	F414_549.8 P71 BE71B4	481
2.6	1246	1.4	530.5	12000	F514_530.5 S1 M1SD4	F514_530.5 S1 ME1SB4	484	F514_530.5 P71 BN71B4	F514_530.5 P71 BE71B4	485
2.6	1246	2.3	530.7	20000	F604_530.7 S1 M1SD4	F604_530.7 S1 ME1SB4	488	F604_530.7 P71 BN71B4	F604_530.7 P71 BE71B4	489
2.8	1150	2.5	489.8	20000	F604_489.8 S1 M1SD4	F604_489.8 S1 ME1SB4	488	F604_489.8 P71 BN71B4	F604_489.8 P71 BE71B4	489
3.2	1018	1.1	433.7	8500	F414_433.7 S1 M1SD4	F414_433.7 S1 ME1SB4	480	F414_433.7 P71 BN71B4	F414_433.7 P71 BE71B4	481
3.2	1008	1.8	429.1	12000	F514_429.1 S1 M1SD4	F514_429.1 S1 ME1SB4	484	F514_429.1 P71 BN71B4	F514_429.1 P71 BE71B4	485
3.2	1016	2.9	432.6	20000	F604_432.6 S1 M1SD4	F604_432.6 S1 ME1SB4	488	F604_432.6 P71 BN71B4	F604_432.6 P71 BE71B4	489
3.4	938	3.1	399.3	20000	F604_399.3 S1 M1SD4	F604_399.3 S1 ME1SB4	488	F604_399.3 P71 BN71B4	F604_399.3 P71 BE71B4	489
3.9	846	2.1	352.5	12000	F513_352.5 S1 M1SD4	F513_352.5 S1 ME1SB4	484	F513_352.5 P71 BN71B4	F513_352.5 P71 BE71B4	485
4.0	827	1.3	344.8	8500	F413_344.8 S1 M1SD4	F413_344.8 S1 ME1SB4	480	F413_344.8 P71 BN71B4	F413_344.8 P71 BE71B4	481
4.3	761	2.4	317.3	12000	F513_317.3 S1 M1SD4	F513_317.3 S1 ME1SB4	484	F513_317.3 P71 BN71B4	F513_317.3 P71 BE71B4	485
4.6	712	1.5	296.6	8500	F413_296.6 S1 M1SD4	F413_296.6 S1 ME1SB4	480	F413_296.6 P71 BN71B4	F413_296.6 P71 BE71B4	481
4.8	686	2.6	285.9	12000	F513_285.9 S1 M1SD4	F513_285.9 S1 ME1SB4	484	F513_285.9 P71 BN71B4	F513_285.9 P71 BE71B4	485
5.1	641	1.7	266.9	8500	F413_266.9 S1 M1SD4	F413_266.9 S1 ME1SB4	480	F413_266.9 P71 BN71B4	F413_266.9 P71 BE71B4	481
5.2	629	2.9	262.1	12000	F513_262.1 S1 M1SD4	F513_262.1 S1 ME1SB4	484	F513_262.1 P71 BN71B4	F513_262.1 P71 BE71B4	485
5.4	609	1.0	253.6	6500	F313_253.6 S1 M1SD4	F313_253.6 S1 ME1SB4	476	F313_253.6 P71 BN71B4	F313_253.6 P71 BE71B4	477
5.7	576	1.9	240.1	8500	F413_240.1 S1 M1SD4	F413_240.1 S1 ME1SB4	480	F413_240.1 P71 BN71B4	F413_240.1 P71 BE71B4	481
5.7	576	3.1	239.8	12000	F513_239.8 S1 M1SD4	F513_239.8 S1 ME1SB4	484	F513_239.8 P71 BN71B4	F513_239.8 P71 BE71B4	485
6.0	548	1.1	228.2	6500	F313_228.2 S1 M1SD4	F313_228.2 S1 ME1SB4	476	F313_228.2 P71 BN71B4	F313_228.2 P71 BE71B4	477
6.2	528	2.1	220.1	8500	F413_220.1 S1 M1SD4	F413_220.1 S1 ME1SB4	480	F413_220.1 P71 BN71B4	F413_220.1 P71 BE71B4	481
6.3	520	3.5	216.9	12000	F513_216.9 S1 M1SD4	F513_216.9 S1 ME1SB4	484	F513_216.9 P71 BN71B4	F513_216.9 P71 BE71B4	485
6.8	485	1.2	202.3	6500	F313_202.3 S1 M1SD4	F313_202.3 S1 ME1SB4	476	F313_202.3 P71 BN71B4	F313_202.3 P71 BE71B4	477
6.9	477	2.3	198.9	8500	F413_198.9 S1 M1SD4	F413_198.9 S1 ME1SB4	480	F413_198.9 P71 BN71B4	F413_198.9 P71 BE71B4	481
7.4	445	1.3	185.4	6500	F313_185.4 S1 M1SD4	F313_185.4 S1 ME1SB4	476	F313_185.4 P71 BN71B4	F313_185.4 P71 BE71B4	477
7.6	434	2.5	180.7	8500	F413_180.7 S1 M1SD4	F413_180.7 S1 ME1SB4	480	F413_180.7 P71 BN71B4	F413_180.7 P71 BE71B4	481
7.9	418	1.0	174.2	6500	F253_174.2 S1 M1SD4	F253_174.2 S1 ME1SB4	472	F253_174.2 P71 BN71B4	F253_174.2 P71 BE71B4	473
8.1	405	2.7	168.7	8500	F413_168.7 S1 M1SD4	F413_168.7 S1 ME1SB4	480	F413_168.7 P71 BN71B4	F413_168.7 P71 BE71B4	481
8.2	400	1.5	166.8	6500	F313_166.8 S1 M1SD4	F313_166.8 S1 ME1SB4	476	F313_166.8 P71 BN71B4	F313_166.8 P71 BE71B4	477
8.8	374	1.1	155.9	6500	F253_155.9 S1 M1SD4	F253_155.9 S1 ME1SB4	472	F253_155.9 P71 BN71B4	F253_155.9 P71 BE71B4	473
9.1	362	1.7	150.8	6500	F313_150.8 S1 M1SD4	F313_150.8 S1 ME1SB4	476	F313_150.8 P71 BN71B4	F313_150.8 P71 BE71B4	477
9.6	343	1.2	143.0	6500	F253_143.0 S1 M1SD4	F253_143.0 S1 ME1SB4	472	F253_143.0 P71 BN71B4	F253_143.0 P71 BE71B4	473
9.7	338	1.8	140.7	6500	F313_140.7 S1 M1SD4	F313_140.7 S1 ME1SB4	476	F313_140.7 P71 BN71B4	F313_140.7 P71 BE71B4	477
10.2	323	3.4	134.4	8500	F413_134.4 S1 M1SD4	F413_134.4 S1 ME1SB4	480	F413_134.4 P71 BN71B4	F413_134.4 P71 BE71B4	481
10.7	307	1.3	127.8	6500	F253_127.8 S1 M1SD4	F253_127.8 S1 ME1SB4	472	F253_127.8 P71 BN71B4	F253_127.8 P71 BE71B4	473
10.7	308	1.9	128.4	6500	F313_128.4 S1 M1SD4	F313_128.4 S1 ME1SB4	476	F313_128.4 P71 BN71B4	F313_128.4 P71 BE71B4	477
12.1	271	1.5	113.0	6500	F253_113.0 S1 M1SD4	F253_113.0 S1 ME1SB4	472	F253_113.0 P71 BN71B4	F253_113.0 P71 BE71B4	473
12.2	270	2.2	112.5	6500	F313_112.5 S1 M1SD4	F313_112.5 S1 ME1SB4	476	F313_112.5 P71 BN71B4	F313_112.5 P71 BE71B4	477
13.0	253	1.6	105.4	6500	F253_105.4 S1 M1SD4	F253_105.4 S1 ME1SB4	472	F253_105.4 P71 BN71B4	F253_105.4 P71 BE71B4	473
13.4	245	2.5	101.9	6500	F313_101.9 S1 M1SD4	F313_101.9 S1 ME1SB4	476	F313_101.9 P71 BN71B4	F313_101.9 P71 BE71B4	477
13.5	249	1.0	101.6	4000				F202_101.6 P71 BN71B4	F202_101.6 P71 BE71B4	469
14.3	229	1.7	95.5	6490	F253_95.5 S1 M1SD4	F253_95.5 S1 ME1SB4	472	F253_95.5 P71 BN71B4	F253_95.5 P71 BE71B4	473
15.2	222	1.1	90.4	4000	F202_90.4 S1 M1SD4	F202_90.4 S1 ME1SB4	468	F202_90.4 P71 BN71B4	F202_90.4 P71 BE71B4	469
15.7	210	2.9	87.4	6500	F313_87.4 S1 M1SD4	F313_87.4 S1 ME1SB4	476	F313_87.4 P71 BN71B4	F313_87.4 P71 BE71B4	477
16.4	200	2.0	83.4	6280	F253_83.4 S1 M1SD4	F253_83.4 S1 ME1SB4	472	F253_83.4 P71 BN71B4	F253_83.4 P71 BE71B4	473
17.4	189	3.2	78.9	6500	F313_78.9 S1 M1SD4	F313_78.9 S1 ME1SB4	476	F313_78.9 P71 BN71B4	F313_78.9 P71 BE71B4	477
17.8	188	1.3	76.8	4000	F202_76.8 S1 M1SD4	F202_76.8 S1 ME1SB4	468	F202_76.8 P71 BN71B4	F202_76.8 P71 BE71B4	469
17.9	184	2.2	76.6	6160	F253_76.6 S1 M1SD4	F253_76.6 S1 ME1SB4	472	F253_76.6 P71 BN71B4	F253_76.6 P71 BE71B4	473
19.8	169	1.5	69.1	4000	F202_69.1 S1 M1SD4	F202_69.1 S1 ME1SB4	468	F202_69.1 P71 BN71B4	F202_69.1 P71 BE71B4	469
21.0	157	2.6	65.3	5920	F253_65.3 S1 M1SD4	F253_65.3 S1 ME1SB4	472	F253_65.3 P71 BN71B4	F253_65.3 P71 BE71B4	473
21.7	154	0.9	63.0	2800	F102_63.0 S1 M1SD4	F102_63.0 S1 ME1SB4	464	F102_63.0 P71 BN71B4	F102_63.0 P71 BE71B4	465



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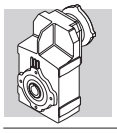
n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE1	IE2		IEC IE1	IEC IE2	
22.1	152	1.6	61.9	4000	**F202_61.9 S1 M1SD4**	**F202_61.9 S1 ME1SB4**	468	**F202_61.9 P71 BN71B4**	**F202_61.9 P71 BE71B4**	469
23.5	140	2.9	58.3	5750	**F253_58.3 S1 M1SD4**	**F253_58.3 S1 ME1SB4**	472	**F253_58.3 P71 BN71B4**	**F253_58.3 P71 BE71B4**	473
24.2	139	1.0	56.7	2800	**F102_56.7 S1 M1SD4**	**F102_56.7 S1 ME1SB4**	464	**F102_56.7 P71 BN71B4**	**F102_56.7 P71 BE71B4**	465
24.2	139	1.8	56.7	4000	**F202_56.7 S1 M1SD4**	**F202_56.7 S1 ME1SB4**	468	**F202_56.7 P71 BN71B4**	**F202_56.7 P71 BE71B4**	469
27.0	124	2.0	50.7	3900	**F202_50.7 S1 M1SD4**	**F202_50.7 S1 ME1SB4**	468	**F202_50.7 P71 BN71B4**	**F202_50.7 P71 BE71B4**	469
27.0	122	3.3	50.8	5540	**F253_50.8 S1 M1SD4**	**F253_50.8 S1 ME1SB4**	472	**F253_50.8 P71 BN71B4**	**F253_50.8 P71 BE71B4**	473
28.1	119	1.2	48.7	2800	**F102_48.7 S1 M1SD4**	**F102_48.7 S1 ME1SB4**	464	**F102_48.7 P71 BN71B4**	**F102_48.7 P71 BE71B4**	465
31	110	1.3	44.7	2800	**F102_44.7 S1 M1SD4**	**F102_44.7 S1 ME1SB4**	464	**F102_44.7 P71 BN71B4**	**F102_44.7 P71 BE71B4**	465
31	110	2.3	44.8	3770	**F202_44.8 S1 M1SD4**	**F202_44.8 S1 ME1SB4**	468	**F202_44.8 P71 BN71B4**	**F202_44.8 P71 BE71B4**	469
31	109	3.5	44.4	5370	**F252_44.4 S1 M1SD4**	**F252_44.4 S1 ME1SB4**	472	**F252_44.4 P71 BN71B4**	**F252_44.4 P71 BE71B4**	473
33	103	2.4	41.8	3700	**F202_41.8 S1 M1SD4**	**F202_41.8 S1 ME1SB4**	468	**F202_41.8 P71 BN71B4**	**F202_41.8 P71 BE71B4**	469
35	97	1.4	39.6	2800	**F102_39.6 S1 M1SD4**	**F102_39.6 S1 ME1SB4**	464	**F102_39.6 P71 BN71B4**	**F102_39.6 P71 BE71B4**	465
36	93	2.7	37.9	3600	**F202_37.9 S1 M1SD4**	**F202_37.9 S1 ME1SB4**	468	**F202_37.9 P71 BN71B4**	**F202_37.9 P71 BE71B4**	469
39	87	1.6	35.3	2800	**F102_35.3 S1 M1SD4**	**F102_35.3 S1 ME1SB4**	464	**F102_35.3 P71 BN71B4**	**F102_35.3 P71 BE71B4**	465
41	81	3.1	33.1	3460	**F202_33.1 S1 M1SD4**	**F202_33.1 S1 ME1SB4**	468	**F202_33.1 P71 BN71B4**	**F202_33.1 P71 BE71B4**	469
42	81	1.7	33.0	2800	**F102_33.0 S1 M1SD4**	**F102_33.0 S1 ME1SB4**	464	**F102_33.0 P71 BN71B4**	**F102_33.0 P71 BE71B4**	465
45	75	3.4	30.4	3380	**F202_30.4 S1 M1SD4**	**F202_30.4 S1 ME1SB4**	468	**F202_30.4 P71 BN71B4**	**F202_30.4 P71 BE71B4**	469
46	73	1.9	29.6	2800	**F102_29.6 S1 M1SD4**	**F102_29.6 S1 ME1SB4**	464	**F102_29.6 P71 BN71B4**	**F102_29.6 P71 BE71B4**	465
53	63	2.2	25.8	2690	**F102_25.8 S1 M1SD4**	**F102_25.8 S1 ME1SB4**	464	**F102_25.8 P71 BN71B4**	**F102_25.8 P71 BE71B4**	465
60	56	2.5	22.8	2600	**F102_22.8 S1 M1SD4**	**F102_22.8 S1 ME1SB4**	464	**F102_22.8 P71 BN71B4**	**F102_22.8 P71 BE71B4**	465
71	47	2.9	19.3	2470	**F102_19.3 S1 M1SD4**	**F102_19.3 S1 ME1SB4**	464	**F102_19.3 P71 BN71B4**	**F102_19.3 P71 BE71B4**	465
81	42	3.1	17.0	2380	**F102_17.0 S1 M1SD4**	**F102_17.0 S1 ME1SB4**	464	**F102_17.0 P71 BN71B4**	**F102_17.0 P71 BE71B4**	465
94	36	3.3	14.6	2280	**F102_14.6 S1 M1SD4**	**F102_14.6 S1 ME1SB4**	464	**F102_14.6 P71 BN71B4**	**F102_14.6 P71 BE71B4**	465
105	32	3.3	13.0	2200	**F102_13.0 S1 M1SD4**	**F102_13.0 S1 ME1SB4**	464	**F102_13.0 P71 BN71B4**	**F102_13.0 P71 BE71B4**	465
119	28	3.4	11.5	2120	**F102_11.5 S1 M1SD4**	**F102_11.5 S1 ME1SB4**	464	**F102_11.5 P71 BN71B4**	**F102_11.5 P71 BE71B4**	465
140	24	3.7	9.8	2010	**F102_9.8 S1 M1SD4**	**F102_9.8 S1 ME1SB4**	464	**F102_9.8 P71 BN71B4**	**F102_9.8 P71 BE71B4**	465
160	21	3.9	8.6	1930	**F102_8.6 S1 M1SD4**	**F102_8.6 S1 ME1SB4**	464	**F102_8.6 P71 BN71B4**	**F102_8.6 P71 BE71B4**	465
185	18	4.2	7.4	1850	**F102_7.4 S1 M1SD4**	**F102_7.4 S1 ME1SB4**	464	**F102_7.4 P71 BN71B4**	**F102_7.4 P71 BE71B4**	465
193	17	5.4	14.6	1830	**F102_14.6 S05 M05C2**		464	**F102_14.6 P71 BN71A2**		465
216	16	5.5	13.0	1760	**F102_13.0 S05 M05C2**		464	**F102_13.0 P71 BN71A2**		465
244	14	5.7	11.5	1690	**F102_11.5 S05 M05C2**		464	**F102_11.5 P71 BN71A2**		465
289	12	6.3	9.8	1610	**F102_9.8 S05 M05C2**		464	**F102_9.8 P71 BN71A2**		465
329	10	6.6	8.6	1540	**F102_8.6 S05 M05C2**		464	**F102_8.6 P71 BN71A2**		465
381	9	7.1	7.4	1470	**F102_7.4 S05 M05C2**		464	**F102_7.4 P71 BN71A2**		465

0.37 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE3		IEC IE3	
0.46	7024	1.1	1987	45000				
0.50	6484	1.2	1834	45000				
0.53	6042	1.3	1709	45000				
0.57	5602	0.9	1585	35000				
0.58	5577	1.4	1578	45000				
0.61	5238	1.0	1481	35000				
0.63	5137	1.0	2188	35000	**F704_2188 S10 MXN10MB4**	492	**F704_2188 P71 BXN71MB4**	493
0.68	4742	1.1	2019	35000	**F704_2019 S10 MXN10MB4**	492	**F704_2019 P71 BXN71MB4**	493
0.69	4666	1.7	1987	45000	**F804_1987 S10 MXN10MB4**	495	**F804_1987 P71 BXN71MB4**	496
0.75	4307	1.9	1834	45000	**F804_1834 S10 MXN10MB4**	495	**F804_1834 P71 BXN71MB4**	496
0.80	4031	1.2	1717	35000	**F704_1717 S10 MXN10MB4**	492	**F704_1717 P71 BXN71MB4**	493
0.80	4013	2.0	1709	45000	**F804_1709 S10 MXN10MB4**	495	**F804_1709 P71 BXN71MB4**	496
0.86	3721	1.3	1585	35000	**F704_1585 S10 MXN10MB4**	492	**F704_1585 P71 BXN71MB4**	493
0.87	3705	2.2	1578	45000	**F804_1578 S10 MXN10MB4**	495	**F804_1578 P71 BXN71MB4**	496
0.92	3479	1.4	1481	35000	**F704_1481 S10 MXN10MB4**	492	**F704_1481 P71 BXN71MB4**	493
0.99	3250	2.5	1384	45000	**F804_1384 S10 MXN10MB4**	495	**F804_1384 P71 BXN71MB4**	496
1.0	3211	1.6	1368	35000			**F704_1368 P71 BXN71MB4**	493
1.1	3000	2.7	1277	45000			**F804_1277 P71 BXN71MB4**	496
1.2	2680	1.1	1141	20000			**F604_1141 P71 BXN71MB4**	489
1.2	2775	1.8	1182	35000			**F704_1182 P71 BXN71MB4**	493
1.2	2692	3.0	1146	45000			**F804_1146 P71 BXN71MB4**	496
1.3	2474	1.2	1054	20000			**F604_1054 P71 BXN71MB4**	489
1.3	2562	2.0	1091	35000			**F704_1091 P71 BXN71MB4**	493
1.3	2485	3.2	1058	45000			**F804_1058 P71 BXN71MB4**	496
1.4	2252	1.3	958.9	20000			**F604_958.9 P71 BXN71MB4**	489
1.4	2288	2.2	974.4	35000			**F704_974.4 P71 BXN71MB4**	493
1.5	2079	0.9	885.5	12000	**F514_885.5 S10 MXN10MB4**	484	**F514_885.5 P71 BXN71MB4**	485



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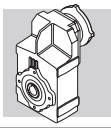
n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE3		IEC IE3	
1.5	2078	1.4	885.1	20000			F604_885.1 P71 BXN71MB4	489
1.5	2112	2.4	899.4	35000			F704_899.4 P71 BXN71MB4	493
1.7	1941	0.9	826.4	12000	F514_826.4 S10 MXN10MB4	484	F514_826.4 P71 BXN71MB4	485
1.7	1931	2.6	822.2	35000			F704_822.2 P71 BXN71MB4	493
2.0	1588	1.1	676.3	12000	F514_676.3 S10 MXN10MB4	484	F514_676.3 P71 BXN71MB4	485
2.1	1556	1.9	662.4	20000			F604_662.4 P71 BXN71MB4	489
2.1	1544	3.2	657.4	35000			F704_657.4 P71 BXN71MB4	493
2.2	1436	2.0	611.4	20000			F604_611.4 P71 BXN71MB4	489
2.3	1425	3.5	606.8	35000			F704_606.8 P71 BXN71MB4	493
2.5	1291	0.9	549.8	8500	F414_549.8 S10 MXN10MB4	480	F414_549.8 P71 BXN71MB4	481
2.6	1246	1.4	530.5	12000	F514_530.5 S10 MXN10MB4	484	F514_530.5 P71 BXN71MB4	485
2.6	1246	2.3	530.7	20000			F604_530.7 P71 BXN71MB4	489
2.8	1150	2.5	489.8	20000			F604_489.8 P71 BXN71MB4	489
3.2	1018	1.1	433.7	8500	F414_433.7 S10 MXN10MB4	480	F414_433.7 P71 BXN71MB4	481
3.2	1008	1.8	429.1	12000	F514_429.1 S10 MXN10MB4	484	F514_429.1 P71 BXN71MB4	485
3.2	1016	2.9	432.6	20000			F604_432.6 P71 BXN71MB4	489
3.4	938	3.1	399.3	20000			F604_399.3 P71 BXN71MB4	489
3.9	846	2.1	352.5	12000			F513_352.5 P71 BXN71MB4	485
4.0	827	1.3	344.8	8500			F413_344.8 P71 BXN71MB4	481
4.3	761	2.4	317.3	12000			F513_317.3 P71 BXN71MB4	485
4.6	712	1.5	296.6	8500			F413_296.6 P71 BXN71MB4	481
4.8	686	2.6	285.9	12000			F513_285.9 P71 BXN71MB4	485
5.1	641	1.7	266.9	8500			F413_266.9 P71 BXN71MB4	481
5.2	629	2.9	262.1	12000			F513_262.1 P71 BXN71MB4	485
5.4	609	1.0	253.6	6500	F313_253.6 S10 MXN10MB4	476	F313_253.6 P71 BXN71MB4	477
5.7	576	1.9	240.1	8500			F413_240.1 P71 BXN71MB4	481
5.7	576	3.1	239.8	12000			F513_239.8 P71 BXN71MB4	485
6.0	548	1.1	228.2	6500	F313_228.2 S10 MXN10MB4	476	F313_228.2 P71 BXN71MB4	477
6.2	528	2.1	220.1	8500			F413_220.1 P71 BXN71MB4	481
6.3	520	3.5	216.9	12000			F513_216.9 P71 BXN71MB4	485
6.8	485	1.2	202.3	6500	F313_202.3 S10 MXN10MB4	476	F313_202.3 P71 BXN71MB4	477
6.9	477	2.3	198.9	8500			F413_198.9 P71 BXN71MB4	481
7.4	445	1.3	185.4	6500	F313_185.4 S10 MXN10MB4	476	F313_185.4 P71 BXN71MB4	477
7.6	434	2.5	180.7	8500			F413_180.7 P71 BXN71MB4	481
7.9	418	1.0	174.2	6500	F253_174.2 S10 MXN10MB4	472	F253_174.2 P71 BXN71MB4	473
8.1	405	2.7	168.7	8500			F413_168.7 P71 BXN71MB4	481
8.2	400	1.5	166.8	6500	F313_166.8 S10 MXN10MB4	476	F313_166.8 P71 BXN71MB4	477
8.8	374	1.1	155.9	6500	F253_155.9 S10 MXN10MB4	472	F253_155.9 P71 BXN71MB4	473
9.1	362	1.7	150.8	6500	F313_150.8 S10 MXN10MB4	476	F313_150.8 P71 BXN71MB4	477
9.6	343	1.2	143.0	6500	F253_143.0 S10 MXN10MB4	472	F253_143.0 P71 BXN71MB4	473
9.7	338	1.8	140.7	6500	F313_140.7 S10 MXN10MB4	476	F313_140.7 P71 BXN71MB4	477
10.2	323	3.4	134.4	8500			F413_134.4 P71 BXN71MB4	481
10.7	307	1.3	127.8	6500	F253_127.8 S10 MXN10MB4	472	F253_127.8 P71 BXN71MB4	473
10.7	308	1.9	128.4	6500	F313_128.4 S10 MXN10MB4	476	F313_128.4 P71 BXN71MB4	477
12.1	271	1.5	113.0	6500	F253_113.0 S10 MXN10MB4	472	F253_113.0 P71 BXN71MB4	473
12.2	270	2.2	112.5	6500	F313_112.5 S10 MXN10MB4	476	F313_112.5 P71 BXN71MB4	477
13.0	253	1.6	105.4	6500	F253_105.4 S10 MXN10MB4	472	F253_105.4 P71 BXN71MB4	473
13.4	245	2.5	101.9	6500	F313_101.9 S10 MXN10MB4	476	F313_101.9 P71 BXN71MB4	477
13.5	249	1.0	101.6	4000			F202_101.6 P71 BXN71MB4	469
14.3	229	1.7	95.5	6490	F253_95.5 S10 MXN10MB4	472	F253_95.5 P71 BXN71MB4	473
15.2	222	1.1	90.4	4000	F202_90.4 S10 MXN10MB4	468	F202_90.4 P71 BXN71MB4	469
15.7	210	2.9	87.4	6500	F313_87.4 S10 MXN10MB4	476	F313_87.4 P71 BXN71MB4	477
16.4	200	2.0	83.4	6280	F253_83.4 S10 MXN10MB4	472	F253_83.4 P71 BXN71MB4	473
17.4	189	3.2	78.9	6500	F313_78.9 S10 MXN10MB4	476	F313_78.9 P71 BXN71MB4	477
17.8	188	1.3	76.8	4000	F202_76.8 S10 MXN10MB4	468	F202_76.8 P71 BXN71MB4	469
17.9	184	2.2	76.6	6160	F253_76.6 S10 MXN10MB4	472	F253_76.6 P71 BXN71MB4	473
19.8	169	1.5	69.1	4000	F202_69.1 S10 MXN10MB4	468	F202_69.1 P71 BXN71MB4	469
21.0	157	2.6	65.3	5920	F253_65.3 S10 MXN10MB4	472	F253_65.3 P71 BXN71MB4	473
21.7	154	0.9	63.0	2800	F102_63.0 S10 MXN10MB4	464	F102_63.0 P71 BXN71MB4	465
22.1	152	1.6	61.9	4000	F202_61.9 S10 MXN10MB4	468	F202_61.9 P71 BXN71MB4	469
23.5	140	2.9	58.3	5750	F253_58.3 S10 MXN10MB4	472	F253_58.3 P71 BXN71MB4	473
24.2	139	1.0	56.7	2800	F102_56.7 S10 MXN10MB4	464	F102_56.7 P71 BXN71MB4	465
24.2	139	1.8	56.7	4000	F202_56.7 S10 MXN10MB4	468	F202_56.7 P71 BXN71MB4	469
27.0	124	2.0	50.7	3900	F202_50.7 S10 MXN10MB4	468	F202_50.7 P71 BXN71MB4	469
27.0	122	3.3	50.8	5540	F253_50.8 S10 MXN10MB4	472	F253_50.8 P71 BXN71MB4	473
28.1	119	1.2	48.7	2800	F102_48.7 S10 MXN10MB4	464	F102_48.7 P71 BXN71MB4	465
31	110	1.3	44.7	2800	F102_44.7 S10 MXN10MB4	464	F102_44.7 P71 BXN71MB4	465
31	110	2.3	44.8	3770	F202_44.8 S10 MXN10MB4	468	F202_44.8 P71 BXN71MB4	469
31	109	3.5	44.4	5370	F252_44.4 S10 MXN10MB4	472	F252_44.4 P71 BXN71MB4	473



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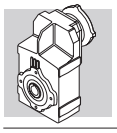
n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE3		IEC IE3	
33	103	2.4	41.8	3700	**F202_41.8 S10 MXN10MB4**	468	**F202_41.8 P71 BXN71MB4**	469
35	97	1.4	39.6	2800	**F102_39.6 S10 MXN10MB4**	464	**F102_39.6 P71 BXN71MB4**	465
36	93	2.7	37.9	3600	**F202_37.9 S10 MXN10MB4**	468	**F202_37.9 P71 BXN71MB4**	469
39	87	1.6	35.3	2800	**F102_35.3 S10 MXN10MB4**	464	**F102_35.3 P71 BXN71MB4**	465
41	81	3.1	33.1	3460	**F202_33.1 S10 MXN10MB4**	468	**F202_33.1 P71 BXN71MB4**	469
42	81	1.7	33.0	2800	**F102_33.0 S10 MXN10MB4**	464	**F102_33.0 P71 BXN71MB4**	465
45	75	3.4	30.4	3380	**F202_30.4 S10 MXN10MB4**	468	**F202_30.4 P71 BXN71MB4**	469
46	73	1.9	29.6	2800	**F102_29.6 S10 MXN10MB4**	464	**F102_29.6 P71 BXN71MB4**	465
53	63	2.2	25.8	2690	**F102_25.8 S10 MXN10MB4**	464	**F102_25.8 P71 BXN71MB4**	465
60	56	2.5	22.8	2600	**F102_22.8 S10 MXN10MB4**	464	**F102_22.8 P71 BXN71MB4**	465
71	47	2.9	19.3	2470	**F102_19.3 S10 MXN10MB4**	464	**F102_19.3 P71 BXN71MB4**	465
81	42	3.1	17.0	2380	**F102_17.0 S10 MXN10MB4**	464	**F102_17.0 P71 BXN71MB4**	465
94	36	3.3	14.6	2280	**F102_14.6 S10 MXN10MB4**	464	**F102_14.6 P71 BXN71MB4**	465
105	32	3.3	13.0	2200	**F102_13.0 S10 MXN10MB4**	464	**F102_13.0 P71 BXN71MB4**	465
119	28	3.4	11.5	2120	**F102_11.5 S10 MXN10MB4**	464	**F102_11.5 P71 BXN71MB4**	465
140	24	3.7	9.8	2010	**F102_9.8 S10 MXN10MB4**	464	**F102_9.8 P71 BXN71MB4**	465
160	21	3.9	8.6	1930	**F102_8.6 S10 MXN10MB4**	464	**F102_8.6 P71 BXN71MB4**	465
185	18	4.2	7.4	1850	**F102_7.4 S10 MXN10MB4**	464	**F102_7.4 P71 BXN71MB4**	465
193	17	5.4	14.6	1830				
216	16	5.5	13.0	1760				
244	14	5.7	11.5	1690				
289	12	6.3	9.8	1610				
329	10	6.6	8.6	1540				
381	9	7.1	7.4	1470				

0.55 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE1	IE2		IEC IE1	IE2	
0.44	10909	1.3	2099	55000	**F904_2099 S2 M2SA6**		498	**F904_2099 P80 BN80B6**		499
0.47	10070	1.4	1937	55000	**F904_1937 S2 M2SA6**		498	**F904_1937 P80 BN80B6**		499
0.54	8884	0.9	1709	45000	**F804_1709 S2 M2SA6**		495	**F804_1709 P80 BN80B6**		496
0.54	8849	1.6	1702	55000	**F904_1702 S2 M2SA6**		498	**F904_1702 P80 BN80B6**		499
0.58	8201	1.0	1578	45000	**F804_1578 S2 M2SA6**		495	**F804_1578 P80 BN80B6**		496
0.59	8168	1.7	1571	55000	**F904_1571 S2 M2SA6**		498	**F904_1571 P80 BN80B6**		499
0.64	7422	1.9	1428	55000	**F904_1428 S2 M2SA6**		498	**F904_1428 P80 BN80B6**		499
0.66	7193	1.1	1384	45000	**F804_1384 S2 M2SA6**		495	**F804_1384 P80 BN80B6**		496
0.69	6885	1.2	1987	45000	**F804_1987 S1 M1LA4**	**F804_1987 S2 ME2SA4**	495	**F804_1987 P80 BN80A4**	**F804_1987 P80 BE80A4**	496
0.75	6356	1.3	1834	45000	**F804_1834 S1 M1LA4**	**F804_1834 S2 ME2SA4**	495	**F804_1834 P80 BN80A4**	**F804_1834 P80 BE80A4**	496
0.81	5923	1.4	1709	45000	**F804_1709 S1 M1LA4**	**F804_1709 S2 ME2SA4**	495	**F804_1709 P80 BN80A4**	**F804_1709 P80 BE80A4**	496
0.87	5491	0.9	1585	35000	**F704_1585 S1 M1LA4**	**F704_1585 S2 ME2SA4**	492	**F704_1585 P80 BN80A4**	**F704_1585 P80 BE80A4**	493
0.87	5467	1.5	1578	45000	**F804_1578 S1 M1LA4**	**F804_1578 S2 ME2SA4**	495	**F804_1578 P80 BN80A4**	**F804_1578 P80 BE80A4**	496
0.93	5134	1.0	1481	35000	**F704_1481 S1 M1LA4**	**F704_1481 S2 ME2SA4**	492	**F704_1481 P80 BN80A4**	**F704_1481 P80 BE80A4**	493
1.0	4739	1.1	1368	35000	**F704_1368 S1 M1LA4**	**F704_1368 S2 ME2SA4**	492	**F704_1368 P80 BN80A4**	**F704_1368 P80 BE80A4**	493
1.0	4795	1.7	1384	45000	**F804_1384 S1 M1LA4**	**F804_1384 S2 ME2SA4**	495	**F804_1384 P80 BN80A4**	**F804_1384 P80 BE80A4**	496
1.1	4427	1.8	1277	45000	**F804_1277 S1 M1LA4**	**F804_1277 S2 ME2SA4**	495	**F804_1277 P80 BN80A4**	**F804_1277 P80 BE80A4**	496
1.2	4095	1.2	1182	35000	**F704_1182 S1 M1LA4**	**F704_1182 S2 ME2SA4**	492	**F704_1182 P80 BN80A4**	**F704_1182 P80 BE80A4**	493
1.2	3972	2.0	1146	45000	**F804_1146 S1 M1LA4**	**F804_1146 S2 ME2SA4**	495	**F804_1146 P80 BN80A4**	**F804_1146 P80 BE80A4**	496
1.3	3780	1.3	1091	35000	**F704_1091 S1 M1LA4**	**F704_1091 S2 ME2SA4**	492	**F704_1091 P80 BN80A4**	**F704_1091 P80 BE80A4**	493
1.3	3667	2.2	1058	45000	**F804_1058 S1 M1LA4**	**F804_1058 S2 ME2SA4**	495	**F804_1058 P80 BN80A4**	**F804_1058 P80 BE80A4**	496
1.4	3323	0.9	958.9	20000	**F604_958.9 S1 M1LA4**	**F604_958.9 S2 ME2SA4**	488	**F604_958.9 P80 BN80A4**	**F604_958.9 P80 BE80A4**	489
1.4	3377	1.5	974.4	35000	**F704_974.4 S1 M1LA4**	**F704_974.4 S2 ME2SA4**	492	**F704_974.4 P80 BN80A4**	**F704_974.4 P80 BE80A4**	493
1.5	3117	1.6	899.4	35000	**F704_899.4 S1 M1LA4**	**F704_899.4 S2 ME2SA4**	492	**F704_899.4 P80 BN80A4**	**F704_899.4 P80 BE80A4**	493
1.5	3109	2.6	897.3	45000	**F804_897.3 S1 M1LA4**	**F804_897.3 S2 ME2SA4**	495	**F804_897.3 P80 BN80A4**	**F804_897.3 P80 BE80A4**	496
1.6	3067	0.9	885.1	20000	**F604_885.1 S1 M1LA4**	**F604_885.1 S2 ME2SA4**	488	**F604_885.1 P80 BN80A4**	**F604_885.1 P80 BE80A4**	489
1.7	2849	1.8	822.2	35000	**F704_822.2 S1 M1LA4**	**F704_822.2 S2 ME2SA4**	492	**F704_822.2 P80 BN80A4**	**F704_822.2 P80 BE80A4**	493
1.8	2684	3.0	774.4	45000	**F804_774.4 S1 M1LA4**	**F804_774.4 S2 ME2SA4**	495	**F804_774.4 P80 BN80A4**	**F804_774.4 P80 BE80A4**	496
1.9	2477	3.2	714.9	45000	**F804_714.9 S1 M1LA4**	**F804_714.9 S2 ME2SA4**	495	**F804_714.9 P80 BN80A4**	**F804_714.9 P80 BE80A4**	496
2.1	2295	1.3	662.4	20000	**F604_662.4 S1 M1LA4**	**F604_662.4 S2 ME2SA4**	488	**F604_662.4 P80 BN80A4**	**F604_662.4 P80 BE80A4**	489
2.1	2278	2.2	657.4	35000	**F704_657.4 S1 M1LA4**	**F704_657.4 S2 ME2SA4**	492	**F704_657.4 P80 BN80A4**	**F704_657.4 P80 BE80A4**	493
2.3	2119	1.4	611.4	20000	**F604_611.4 S1 M1LA4**	**F604_611.4 S2 ME2SA4**	488	**F604_611.4 P80 BN80A4**	**F604_611.4 P80 BE80A4**	489
2.3	2103	2.4	606.8	35000	**F704_606.8 S1 M1LA4**	**F704_606.8 S2 ME2SA4**	492	**F704_606.8 P80 BN80A4**	**F704_606.8 P80 BE80A4**	493
2.6	1838	1.0	530.5	12000	**F514_530.5 S1 M1LA4**	**F514_530.5 S2 ME2SA4**	484	**F514_530.5 P80 BN80A4**	**F514_530.5 P80 BE80A4**	485
2.6	1839	1.6	530.7	20000	**F604_530.7 S1 M1LA4**	**F604_530.7 S2 ME2SA4**	488	**F604_530.7 P80 BN80A4**	**F604_530.7 P80 BE80A4**	489
2.7	1769	2.8	510.4	35000	**F704_510.4 S1 M1LA4**	**F704_510.4 S2 ME2SA4**	492	**F704_510.4 P80 BN80A4**	**F704_510.4 P80 BE80A4**	493



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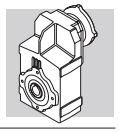
n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE1	IE2		IEC IE1	IEC IE2	
2.8	1698	1.7	489.8	20000	F604_489.8 S1 M1LA4	F604_489.8 S2 ME2SA4	488	F604_489.8 P80 BN80A4	F604_489.8 P80 BE80A4	489
2.9	1633	3.1	471.2	35000	F704_471.2 S1 M1LA4	F704_471.2 S2 ME2SA4	492	F704_471.2 P80 BN80A4	F704_471.2 P80 BE80A4	493
3.2	1487	1.2	429.1	12000	F514_429.1 S1 M1LA4	F514_429.1 S2 ME2SA4	484	F514_429.1 P80 BN80A4	F514_429.1 P80 BE80A4	485
3.2	1499	1.9	432.6	20000	F604_432.6 S1 M1LA4	F604_432.6 S2 ME2SA4	488	F604_432.6 P80 BN80A4	F604_432.6 P80 BE80A4	489
3.5	1384	2.1	399.3	20000	F604_399.3 S1 M1LA4	F604_399.3 S2 ME2SA4	488	F604_399.3 P80 BN80A4	F604_399.3 P80 BE80A4	489
3.9	1248	1.4	352.5	12000	F513_352.5 S1 M1LA4	F513_352.5 S2 ME2SA4	484	F513_352.5 P80 BN80A4	F513_352.5 P80 BE80A4	485
4.0	1221	0.9	344.8	8500	F413_344.8 S1 M1LA4	F413_344.8 S2 ME2SA4	480	F413_344.8 P80 BN80A4	F413_344.8 P80 BE80A4	481
4.0	1184	2.4	341.7	20000	F604_341.7 S1 M1LA4	F604_341.7 S2 ME2SA4	488	F604_341.7 P80 BN80A4	F604_341.7 P80 BE80A4	489
4.3	1124	1.6	317.3	12000	F513_317.3 S1 M1LA4	F513_317.3 S2 ME2SA4	484	F513_317.3 P80 BN80A4	F513_317.3 P80 BE80A4	485
4.4	1093	2.7	315.4	20000	F604_315.4 S1 M1LA4	F604_315.4 S2 ME2SA4	488	F604_315.4 P80 BN80A4	F604_315.4 P80 BE80A4	489
4.7	1050	1.0	296.6	8500	F413_296.6 S1 M1LA4	F413_296.6 S2 ME2SA4	480	F413_296.6 P80 BN80A4	F413_296.6 P80 BE80A4	481
4.8	1013	1.8	285.9	12000	F513_285.9 S1 M1LA4	F513_285.9 S2 ME2SA4	484	F513_285.9 P80 BN80A4	F513_285.9 P80 BE80A4	485
5.2	945	1.2	266.9	8500	F413_266.9 S1 M1LA4	F413_266.9 S2 ME2SA4	480	F413_266.9 P80 BN80A4	F413_266.9 P80 BE80A4	481
5.3	928	1.9	262.1	12000	F513_262.1 S1 M1LA4	F513_262.1 S2 ME2SA4	484	F513_262.1 P80 BN80A4	F513_262.1 P80 BE80A4	485
5.7	850	1.3	240.1	8500	F413_240.1 S1 M1LA4	F413_240.1 S2 ME2SA4	480	F413_240.1 P80 BN80A4	F413_240.1 P80 BE80A4	481
5.8	849	2.1	239.8	12000	F513_239.8 S1 M1LA4	F513_239.8 S2 ME2SA4	484	F513_239.8 P80 BN80A4	F513_239.8 P80 BE80A4	485
6.3	780	1.4	220.1	8500	F413_220.1 S1 M1LA4	F413_220.1 S2 ME2SA4	480	F413_220.1 P80 BN80A4	F413_220.1 P80 BE80A4	481
6.4	768	2.3	216.9	12000	F513_216.9 S1 M1LA4	F513_216.9 S2 ME2SA4	484	F513_216.9 P80 BN80A4	F513_216.9 P80 BE80A4	485
6.8	717	2.5	202.4	12000	F513_202.4 S1 M1LA4	F513_202.4 S2 ME2SA4	484	F513_202.4 P80 BN80A4	F513_202.4 P80 BE80A4	485
6.9	704	1.6	198.9	8500	F413_198.9 S1 M1LA4	F413_198.9 S2 ME2SA4	480	F413_198.9 P80 BN80A4	F413_198.9 P80 BE80A4	481
7.4	657	0.9	185.4	6500	F313_185.4 S1 M1LA4	F313_185.4 S2 ME2SA4	476	F313_185.4 P80 BN80A4	F313_185.4 P80 BE80A4	477
7.6	640	1.7	180.7	8500	F413_180.7 S1 M1LA4	F413_180.7 S2 ME2SA4	480	F413_180.7 P80 BN80A4	F413_180.7 P80 BE80A4	481
8.2	597	1.8	168.7	8500	F413_168.7 S1 M1LA4	F413_168.7 S2 ME2SA4	480	F413_168.7 P80 BN80A4	F413_168.7 P80 BE80A4	481
8.3	591	1.0	166.8	6500	F313_166.8 S1 M1LA4	F313_166.8 S2 ME2SA4	476	F313_166.8 P80 BN80A4	F313_166.8 P80 BE80A4	477
8.3	587	3.1	165.6	12000	F513_165.6 S1 M1LA4	F513_165.6 S2 ME2SA4	484	F513_165.6 P80 BN80A4	F513_165.6 P80 BE80A4	485
9.2	534	1.1	150.8	6500	F313_150.8 S1 M1LA4	F313_150.8 S2 ME2SA4	476	F313_150.8 P80 BN80A4	F313_150.8 P80 BE80A4	477
9.8	498	1.2	140.7	6500	F313_140.7 S1 M1LA4	F313_140.7 S2 ME2SA4	476	F313_140.7 P80 BN80A4	F313_140.7 P80 BE80A4	477
10.3	476	2.3	134.4	8500	F413_134.4 S1 M1LA4	F413_134.4 S2 ME2SA4	480	F413_134.4 P80 BN80A4	F413_134.4 P80 BE80A4	481
10.7	455	1.3	128.4	6500	F313_128.4 S1 M1LA4	F313_128.4 S2 ME2SA4	476	F313_128.4 P80 BN80A4	F313_128.4 P80 BE80A4	477
12.2	400	1.0	113.0	6130	F253_113.0 S1 M1LA4	F253_113.0 S2 ME2SA4	472	F253_113.0 P80 BN80A4	F253_113.0 P80 BE80A4	473
12.3	399	1.5	112.5	6500	F313_112.5 S1 M1LA4	F313_112.5 S2 ME2SA4	476	F313_112.5 P80 BN80A4	F313_112.5 P80 BE80A4	477
13.0	375	2.9	106.0	8500	F413_106.0 S1 M1LA4	F413_106.0 S2 ME2SA4	480	F413_106.0 P80 BN80A4	F413_106.0 P80 BE80A4	481
13.1	373	1.1	105.4	6070	F253_105.4 S1 M1LA4	F253_105.4 S2 ME2SA4	472	F253_105.4 P80 BN80A4	F253_105.4 P80 BE80A4	473
13.5	361	1.7	101.9	6500	F313_101.9 S1 M1LA4	F313_101.9 S2 ME2SA4	476	F313_101.9 P80 BN80A4	F313_101.9 P80 BE80A4	477
14.5	338	1.2	95.5	5980	F253_95.5 S1 M1LA4	F253_95.5 S2 ME2SA4	472	F253_95.5 P80 BN80A4	F253_95.5 P80 BE80A4	473
15.8	309	1.9	87.4	6500	F313_87.4 S1 M1LA4	F313_87.4 S2 ME2SA4	476	F313_87.4 P80 BN80A4	F313_87.4 P80 BE80A4	477
16.5	295	1.4	83.4	5840	F253_83.4 S1 M1LA4	F253_83.4 S2 ME2SA4	472	F253_83.4 P80 BN80A4	F253_83.4 P80 BE80A4	473
17.5	279	2.1	78.9	6500	F313_78.9 S1 M1LA4	F313_78.9 S2 ME2SA4	476	F313_78.9 P80 BN80A4	F313_78.9 P80 BE80A4	477
18.0	278	0.9	76.8	4000	F202_76.8 S1 M1LA4	F202_76.8 S2 ME2SA4	468	F202_76.8 P80 BN80A4	F202_76.8 P80 BE80A4	469
18.0	271	1.5	76.6	5750	F253_76.6 S1 M1LA4	F253_76.6 S2 ME2SA4	472	F253_76.6 P80 BN80A4	F253_76.6 P80 BE80A4	473
20.0	250	1.0	69.1	3980	F202_69.1 S1 M1LA4	F202_69.1 S2 ME2SA4	468	F202_69.1 P80 BN80A4	F202_69.1 P80 BE80A4	469
20.0	245	2.5	69.1	6500	F313_69.1 S1 M1LA4	F313_69.1 S2 ME2SA4	476	F313_69.1 P80 BN80A4	F313_69.1 P80 BE80A4	477
21.1	231	1.7	65.3	5570	F253_65.3 S1 M1LA4	F253_65.3 S2 ME2SA4	472	F253_65.3 P80 BN80A4	F253_65.3 P80 BE80A4	473
22.1	221	2.7	62.8	6500				F313_62.8 P80 BN80A4	F313_62.8 P80 BE80A4	477
22.3	224	1.1	61.9	3890	F202_61.9 S1 M1LA4	F202_61.9 S2 ME2SA4	468	F202_61.9 P80 BN80A4	F202_61.9 P80 BE80A4	469
23.7	207	1.9	58.3	5430	F253_58.3 S1 M1LA4	F253_58.3 S2 ME2SA4	472	F253_58.3 P80 BN80A4	F253_58.3 P80 BE80A4	473
24.3	205	1.2	56.7	3810	F202_56.7 S1 M1LA4	F202_56.7 S2 ME2SA4	468	F202_56.7 P80 BN80A4	F202_56.7 P80 BE80A4	469
26.7	183	3.3	52.1	6500				F313_52.1 P80 BN80A4	F313_52.1 P80 BE80A4	477
27.2	184	1.4	50.7	3720	F202_50.7 S1 M1LA4	F202_50.7 S2 ME2SA4	468	F202_50.7 P80 BN80A4	F202_50.7 P80 BE80A4	469
27.2	180	2.2	50.8	5270	F253_50.8 S1 M1LA4	F253_50.8 S2 ME2SA4	472	F253_50.8 P80 BN80A4	F253_50.8 P80 BE80A4	473
29.2	167	3.5	47.5	6500				F313_47.5 P80 BN80A4	F313_47.5 P80 BE80A4	477
31	162	1.5	44.8	3610	F202_44.8 S1 M1LA4	F202_44.8 S2 ME2SA4	468	F202_44.8 P80 BN80A4	F202_44.8 P80 BE80A4	469
31	161	2.4	44.4	5140	F252_44.4 S1 M1LA4	F252_44.4 S2 ME2SA4	472	F252_44.4 P80 BN80A4	F252_44.4 P80 BE80A4	473
31	160	2.5	45.6	5130				F253_45.6 P80 BN80A4	F253_45.6 P80 BE80A4	473
33	151	1.7	41.8	3550	F202_41.8 S1 M1LA4	F202_41.8 S2 ME2SA4	468	F202_41.8 P80 BN80A4	F202_41.8 P80 BE80A4	469
34	147	2.5	40.7	5030	F252_40.7 S1 M1LA4	F252_40.7 S2 ME2SA4	472	F252_40.7 P80 BN80A4	F252_40.7 P80 BE80A4	473
35	143	1.0	39.6	2800	F102_39.6 S1 M1LA4	F102_39.6 S2 ME2SA4	464	F102_39.6 P80 BN80A4	F102_39.6 P80 BE80A4	465
36	137	1.8	37.9	3460	F202_37.9 S1 M1LA4	F202_37.9 S2 ME2SA4	468	F202_37.9 P80 BN80A4	F202_37.9 P80 BE80A4	469
38	132	3.0	36.4	4890	F252_36.4 S1 M1LA4	F252_36.4 S2 ME2SA4	472	F252_36.4 P80 BN80A4	F252_36.4 P80 BE80A4	473
39	128	1.1	35.3	2800	F102_35.3 S1 M1LA4	F102_35.3 S2 ME2SA4	464	F102_35.3 P80 BN80A4	F102_35.3 P80 BE80A4	465
42	119	1.2	33.0	2750	F102_33.0 S1 M1LA4	F102_33.0 S2 ME2SA4	464	F102_33.0 P80 BN80A4	F102_33.0 P80 BE80A4	465
42	120	2.1	33.1	3340	F202_33.1 S1 M1LA4	F202_33.1 S2 ME2SA4	468	F202_33.1 P80 BN80A4	F202_33.1 P80 BE80A4	469
43	116	3.4	32.2	4730	F252_32.2 S1 M1LA4	F252_32.2 S2 ME2SA4	472	F252_32.2 P80 BN80A4	F252_32.2 P80 BE80A4	473
45	110	2.3	30.4	3260	F202_30.4 S1 M1LA4	F202_30.4 S2 ME2SA4	468	F202_30.4 P80 BN80A4	F202_30.4 P80 BE80A4	469
47	107	1.3	29.6	2680	F102_29.6 S1 M1LA4	F102_29.6 S2 ME2SA4	464	F102_29.6 P80 BN80A4	F102_29.6 P80 BE80A4	465



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n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE1	IE2		IEC IE1	IEC IE2	
53	94	2.6	25.9	3130	**F202_25.9 S1 M1LA4**	**F202_25.9 S2 ME2SA4**	468	**F202_25.9 P80 BN80A4**	**F202_25.9 P80 BE80A4**	469
54	93	1.5	25.8	2590	**F102_25.8 S1 M1LA4**	**F102_25.8 S2 ME2SA4**	464	**F102_25.8 P80 BN80A4**	**F102_25.8 P80 BE80A4**	465
60	83	1.7	22.8	2510	**F102_22.8 S1 M1LA4**	**F102_22.8 S2 ME2SA4**	464	**F102_22.8 P80 BN80A4**	**F102_22.8 P80 BE80A4**	465
60	84	2.8	23.1	3030	**F202_23.1 S1 M1LA4**	**F202_23.1 S2 ME2SA4**	468	**F202_23.1 P80 BN80A4**	**F202_23.1 P80 BE80A4**	469
68	73	3.1	20.2	2910	**F202_20.2 S1 M1LA4**	**F202_20.2 S2 ME2SA4**	468	**F202_20.2 P80 BN80A4**	**F202_20.2 P80 BE80A4**	469
71	70	1.9	19.3	2400	**F102_19.3 S1 M1LA4**	**F102_19.3 S2 ME2SA4**	464	**F102_19.3 P80 BN80A4**	**F102_19.3 P80 BE80A4**	465
77	65	3.3	18.1	2820	**F202_18.1 S1 M1LA4**	**F202_18.1 S2 ME2SA4**	468	**F202_18.1 P80 BN80A4**	**F202_18.1 P80 BE80A4**	469
81	61	2.1	17.0	2310	**F102_17.0 S1 M1LA4**	**F102_17.0 S2 ME2SA4**	464	**F102_17.0 P80 BN80A4**	**F102_17.0 P80 BE80A4**	465
94	53	2.2	14.6	2220	**F102_14.6 S1 M1LA4**	**F102_14.6 S2 ME2SA4**	464	**F102_14.6 P80 BN80A4**	**F102_14.6 P80 BE80A4**	465
106	47	2.2	13.0	2140	**F102_13.0 S1 M1LA4**	**F102_13.0 S2 ME2SA4**	464	**F102_13.0 P80 BN80A4**	**F102_13.0 P80 BE80A4**	465
120	42	2.3	11.5	2070	**F102_11.5 S1 M1LA4**	**F102_11.5 S2 ME2SA4**	464	**F102_11.5 P80 BN80A4**	**F102_11.5 P80 BE80A4**	465
141	35	2.5	9.8	1970	**F102_9.8 S1 M1LA4**	**F102_9.8 S2 ME2SA4**	464	**F102_9.8 P80 BN80A4**	**F102_9.8 P80 BE80A4**	465
161	31	2.6	8.6	1890	**F102_8.6 S1 M1LA4**	**F102_8.6 S2 ME2SA4**	464	**F102_8.6 P80 BN80A4**	**F102_8.6 P80 BE80A4**	465
186	27	2.8	7.4	1810	**F102_7.4 S1 M1LA4**	**F102_7.4 S2 ME2SA4**	464	**F102_7.4 P80 BN80A4**	**F102_7.4 P80 BE80A4**	465
193	26	3.6	14.6	1800	**F102_14.6 S1 M1SD2**		464	**F102_14.6 P71 BN71B2**		465
216	23	3.7	13.0	1730	**F102_13.0 S1 M1SD2**		464	**F102_13.0 P71 BN71B2**		465
244	20	3.8	11.5	1670	**F102_11.5 S1 M1SD2**		464	**F102_11.5 P71 BN71B2**		465
289	17	4.2	9.8	1590	**F102_9.8 S1 M1SD2**		464	**F102_9.8 P71 BN71B2**		465
329	15	4.4	8.6	1530	**F102_8.6 S1 M1SD2**		464	**F102_8.6 P71 BN71B2**		465
381	13	4.8	7.4	1460	**F102_7.4 S1 M1SD2**		464	**F102_7.4 P71 BN71B2**		465

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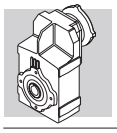
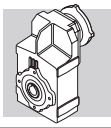
n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE3		IEC IE3	
0.44	10909	1.3	2099	55000				
0.47	10070	1.4	1937	55000				
0.54	8884	0.9	1709	45000				
0.54	8849	1.6	1702	55000				
0.58	8201	1.0	1578	45000				
0.59	8168	1.7	1571	55000				
0.64	7422	1.9	1428	55000				
0.66	7193	1.1	1384	45000				
0.69	6885	1.2	1987	45000			**F804_1987 P80 BXN80MA4**	496
0.75	6356	1.3	1834	45000			**F804_1834 P80 BXN80MA4**	496
0.81	5923	1.4	1709	45000			**F804_1709 P80 BXN80MA4**	496
0.87	5491	0.9	1585	35000			**F704_1585 P80 BXN80MA4**	493
0.87	5467	1.5	1578	45000			**F804_1578 P80 BXN80MA4**	496
0.93	5134	1.0	1481	35000			**F704_1481 P80 BXN80MA4**	493
1.0	4739	1.1	1368	35000			**F704_1368 P80 BXN80MA4**	493
1.0	4795	1.7	1384	45000			**F804_1384 P80 BXN80MA4**	496
1.1	4427	1.8	1277	45000			**F804_1277 P80 BXN80MA4**	496
1.2	4095	1.2	1182	35000			**F704_1182 P80 BXN80MA4**	493
1.2	3972	2.0	1146	45000			**F804_1146 P80 BXN80MA4**	496
1.3	3780	1.3	1091	35000			**F704_1091 P80 BXN80MA4**	493
1.3	3667	2.2	1058	45000			**F804_1058 P80 BXN80MA4**	496
1.4	3323	0.9	958.9	20000			**F604_958.9 P80 BXN80MA4**	489
1.4	3377	1.5	974.4	35000			**F704_974.4 P80 BXN80MA4**	493
1.5	3117	1.6	899.4	35000			**F704_899.4 P80 BXN80MA4**	493
1.5	3109	2.6	897.3	45000			**F804_897.3 P80 BXN80MA4**	496
1.6	3067	0.9	885.1	20000			**F604_885.1 P80 BXN80MA4**	489
1.7	2849	1.8	822.2	35000			**F704_822.2 P80 BXN80MA4**	493
1.8	2684	3.0	774.4	45000			**F804_774.4 P80 BXN80MA4**	496
1.9	2477	3.2	714.9	45000			**F804_714.9 P80 BXN80MA4**	496
2.1	2295	1.3	662.4	20000			**F604_662.4 P80 BXN80MA4**	489
2.1	2278	2.2	657.4	35000			**F704_657.4 P80 BXN80MA4**	493
2.3	2119	1.4	611.4	20000			**F604_611.4 P80 BXN80MA4**	489
2.3	2103	2.4	606.8	35000			**F704_606.8 P80 BXN80MA4**	493
2.6	1838	1.0	530.5	12000			**F514_530.5 P80 BXN80MA4**	485
2.6	1839	1.6	530.7	20000			**F604_530.7 P80 BXN80MA4**	489
2.7	1769	2.8	510.4	35000			**F704_510.4 P80 BXN80MA4**	493
2.8	1698	1.7	489.8	20000			**F604_489.8 P80 BXN80MA4**	489



0.55 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE3		IEC IE3	
2.9	1633	3.1	471.2	35000			F704_471.2 P80 BXN80MA4	493
3.2	1487	1.2	429.1	12000			F514_429.1 P80 BXN80MA4	485
3.2	1499	1.9	432.6	20000			F604_432.6 P80 BXN80MA4	489
3.5	1384	2.1	399.3	20000			F604_399.3 P80 BXN80MA4	489
3.9	1248	1.4	352.5	12000			F513_352.5 P80 BXN80MA4	485
4.0	1221	0.9	344.8	8500			F413_344.8 P80 BXN80MA4	481
4.0	1184	2.4	341.7	20000			F604_341.7 P80 BXN80MA4	489
4.3	1124	1.6	317.3	12000			F513_317.3 P80 BXN80MA4	485
4.4	1093	2.7	315.4	20000			F604_315.4 P80 BXN80MA4	489
4.7	1050	1.0	296.6	8500			F413_296.6 P80 BXN80MA4	481
4.8	1013	1.8	285.9	12000			F513_285.9 P80 BXN80MA4	485
5.2	945	1.2	266.9	8500			F413_266.9 P80 BXN80MA4	481
5.3	928	1.9	262.1	12000			F513_262.1 P80 BXN80MA4	485
5.7	850	1.3	240.1	8500			F413_240.1 P80 BXN80MA4	481
5.8	849	2.1	239.8	12000			F513_239.8 P80 BXN80MA4	485
6.3	780	1.4	220.1	8500			F413_220.1 P80 BXN80MA4	481
6.4	768	2.3	216.9	12000			F513_216.9 P80 BXN80MA4	485
6.8	717	2.5	202.4	12000			F513_202.4 P80 BXN80MA4	485
6.9	704	1.6	198.9	8500			F413_198.9 P80 BXN80MA4	481
7.4	657	0.9	185.4	6500			F313_185.4 P80 BXN80MA4	477
7.6	640	1.7	180.7	8500			F413_180.7 P80 BXN80MA4	481
8.2	597	1.8	168.7	8500			F413_168.7 P80 BXN80MA4	481
8.3	591	1.0	166.8	6500			F313_166.8 P80 BXN80MA4	477
8.3	587	3.1	165.6	12000			F513_165.6 P80 BXN80MA4	485
9.2	534	1.1	150.8	6500			F313_150.8 P80 BXN80MA4	477
9.8	498	1.2	140.7	6500			F313_140.7 P80 BXN80MA4	477
10.3	476	2.3	134.4	8500			F413_134.4 P80 BXN80MA4	481
10.7	455	1.3	128.4	6500			F313_128.4 P80 BXN80MA4	477
12.2	400	1.0	113.0	6130	F253_113.0 S20 MXN20MA4	472	F253_113.0 P80 BXN80MA4	473
12.3	399	1.5	112.5	6500			F313_112.5 P80 BXN80MA4	477
13.0	375	2.9	106.0	8500			F413_106.0 P80 BXN80MA4	481
13.1	373	1.1	105.4	6070	F253_105.4 S20 MXN20MA4	472	F253_105.4 P80 BXN80MA4	473
13.5	361	1.7	101.9	6500			F313_101.9 P80 BXN80MA4	477
14.5	338	1.2	95.5	5980	F253_95.5 S20 MXN20MA4	472	F253_95.5 P80 BXN80MA4	473
15.8	309	1.9	87.4	6500			F313_87.4 P80 BXN80MA4	477
16.5	295	1.4	83.4	5840	F253_83.4 S20 MXN20MA4	472	F253_83.4 P80 BXN80MA4	473
17.5	279	2.1	78.9	6500			F313_78.9 P80 BXN80MA4	477
18.0	278	0.9	76.8	4000	F202_76.8 S20 MXN20MA4	468	F202_76.8 P80 BXN80MA4	469
18.0	271	1.5	76.6	5750	F253_76.6 S20 MXN20MA4	472	F253_76.6 P80 BXN80MA4	473
20.0	250	1.0	69.1	3980	F202_69.1 S20 MXN20MA4	468	F202_69.1 P80 BXN80MA4	469
20.0	245	2.5	69.1	6500			F313_69.1 P80 BXN80MA4	477
21.1	231	1.7	65.3	5570	F253_65.3 S20 MXN20MA4	472	F253_65.3 P80 BXN80MA4	473
22.1	221	2.7	62.8	6500			F313_62.8 P80 BXN80MA4	477
22.3	224	1.1	61.9	3890	F202_61.9 S20 MXN20MA4	468	F202_61.9 P80 BXN80MA4	469
23.7	207	1.9	58.3	5430	F253_58.3 S20 MXN20MA4	472	F253_58.3 P80 BXN80MA4	473
24.3	205	1.2	56.7	3810	F202_56.7 S20 MXN20MA4	468	F202_56.7 P80 BXN80MA4	469
26.7	183	3.3	52.1	6500			F313_52.1 P80 BXN80MA4	477
27.2	184	1.4	50.7	3720	F202_50.7 S20 MXN20MA4	468	F202_50.7 P80 BXN80MA4	469
27.2	180	2.2	50.8	5270	F253_50.8 S20 MXN20MA4	472	F253_50.8 P80 BXN80MA4	473
29.2	167	3.5	47.5	6500			F313_47.5 P80 BXN80MA4	477
31	162	1.5	44.8	3610	F202_44.8 S20 MXN20MA4	468	F202_44.8 P80 BXN80MA4	469
31	161	2.4	44.4	5140	F252_44.4 S20 MXN20MA4	472	F252_44.4 P80 BXN80MA4	473
31	160	2.5	45.6	5130			F253_45.6 P80 BXN80MA4	473
33	151	1.7	41.8	3550	F202_41.8 S20 MXN20MA4	468	F202_41.8 P80 BXN80MA4	469
34	147	2.5	40.7	5030	F252_40.7 S20 MXN20MA4	472	F252_40.7 P80 BXN80MA4	473
35	143	1.0	39.6	2800	F102_39.6 S20 MXN20MA4	464	F102_39.6 P80 BXN80MA4	465
36	137	1.8	37.9	3460	F202_37.9 S20 MXN20MA4	468	F202_37.9 P80 BXN80MA4	469
38	132	3.0	36.4	4890	F252_36.4 S20 MXN20MA4	472	F252_36.4 P80 BXN80MA4	473
39	128	1.1	35.3	2800	F102_35.3 S20 MXN20MA4	464	F102_35.3 P80 BXN80MA4	465
42	119	1.2	33.0	2750	F102_33.0 S20 MXN20MA4	464	F102_33.0 P80 BXN80MA4	465
42	120	2.1	33.1	3340	F202_33.1 S20 MXN20MA4	468	F202_33.1 P80 BXN80MA4	469
43	116	3.4	32.2	4730	F252_32.2 S20 MXN20MA4	472	F252_32.2 P80 BXN80MA4	473
45	110	2.3	30.4	3260	F202_30.4 S20 MXN20MA4	468	F202_30.4 P80 BXN80MA4	469
47	107	1.3	29.6	2680	F102_29.6 S20 MXN20MA4	464	F102_29.6 P80 BXN80MA4	465
53	94	2.6	25.9	3130	F202_25.9 S20 MXN20MA4	468	F202_25.9 P80 BXN80MA4	469



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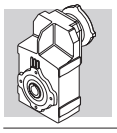
n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE3		IEC IE3	
54	93	1.5	25.8	2590	**F102_25.8 S20 MXN20MA4**	464	**F102_25.8 P80 BXN80MA4**	465
60	83	1.7	22.8	2510	**F102_22.8 S20 MXN20MA4**	464	**F102_22.8 P80 BXN80MA4**	465
60	84	2.8	23.1	3030	**F202_23.1 S20 MXN20MA4**	468	**F202_23.1 P80 BXN80MA4**	469
68	73	3.1	20.2	2910	**F202_20.2 S20 MXN20MA4**	468	**F202_20.2 P80 BXN80MA4**	469
71	70	1.9	19.3	2400	**F102_19.3 S20 MXN20MA4**	464	**F102_19.3 P80 BXN80MA4**	465
77	65	3.3	18.1	2820	**F202_18.1 S20 MXN20MA4**	468	**F202_18.1 P80 BXN80MA4**	469
81	61	2.1	17.0	2310	**F102_17.0 S20 MXN20MA4**	464	**F102_17.0 P80 BXN80MA4**	465
94	53	2.2	14.6	2220	**F102_14.6 S20 MXN20MA4**	464	**F102_14.6 P80 BXN80MA4**	465
106	47	2.2	13.0	2140	**F102_13.0 S20 MXN20MA4**	464	**F102_13.0 P80 BXN80MA4**	465
120	42	2.3	11.5	2070	**F102_11.5 S20 MXN20MA4**	464	**F102_11.5 P80 BXN80MA4**	465
141	35	2.5	9.8	1970	**F102_9.8 S20 MXN20MA4**	464	**F102_9.8 P80 BXN80MA4**	465
161	31	2.6	8.6	1890	**F102_8.6 S20 MXN20MA4**	464	**F102_8.6 P80 BXN80MA4**	465
186	27	2.8	7.4	1810	**F102_7.4 S20 MXN20MA4**	464	**F102_7.4 P80 BXN80MA4**	465
193	26	3.6	14.6	1800				
216	23	3.7	13.0	1730				
244	20	3.8	11.5	1670				
289	17	4.2	9.8	1590				
329	15	4.4	8.6	1530				
381	13	4.8	7.4	1460				

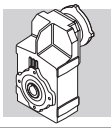
0.75 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IEC IE2	IEC IE3	
0.45	14391	1.0	2098.7	55000	**F904_2099 S3 ME3SA6**		498	**F904_2099 P90 BE90S6**		499
0.49	13284	1.1	1937.3	55000	**F904_1937 S3 ME3SA6**		498	**F904_1937 P90 BE90S6**		499
0.55	11673	1.2	1702.3	55000	**F904_1702 S3 ME3SA6**		498	**F904_1702 P90 BE90S6**		499
0.60	10775	1.3	1571.4	55000	**F904_1571 S3 ME3SA6**		498	**F904_1571 P90 BE90S6**		499
0.66	9791	1.4	1427.9	55000	**F904_1428 S3 ME3SA6**		498	**F904_1428 P90 BE90S6**		499
0.68	9444	1.5	2098.7	55000	**F904_2099 S2 ME2SB4**	**F904_2099 S2 MX2SB4**	498	**F904_2099 P80 BE80B4**	**F904_2099 P80 BX80B4**	499
0.72	8941	0.9	1986.8	45000	**F804_1987 S2 ME2SB4**	**F804_1987 S2 MX2SB4**	495	**F804_1987 P80 BE80B4**	**F804_1987 P80 BX80B4**	496
0.74	8718	1.6	1937.3	55000	**F904_1937 S2 ME2SB4**	**F904_1937 S2 MX2SB4**	498	**F904_1937 P80 BE80B4**	**F904_1937 P80 BX80B4**	499
0.78	8253	1.0	1834.0	45000	**F804_1834 S2 ME2SB4**	**F804_1834 S2 MX2SB4**	495	**F804_1834 P80 BE80B4**	**F804_1834 P80 BX80B4**	496
0.84	7691	1.0	1709.1	45000	**F804_1709 S2 ME2SB4**	**F804_1709 S2 MX2SB4**	495	**F804_1709 P80 BE80B4**	**F804_1709 P80 BX80B4**	496
0.84	7660	1.8	1702.3	55000	**F904_1702 S2 ME2SB4**	**F904_1702 S2 MX2SB4**	498	**F904_1702 P80 BE80B4**	**F904_1702 P80 BX80B4**	499
0.91	7099	1.1	1577.6	45000	**F804_1578 S2 ME2SB4**	**F804_1578 S2 MX2SB4**	495	**F804_1578 P80 BE80B4**	**F804_1578 P80 BX80B4**	496
0.91	7071	2.0	1571.4	55000	**F904_1571 S2 ME2SB4**	**F904_1571 S2 MX2SB4**	498	**F904_1571 P80 BE80B4**	**F904_1571 P80 BX80B4**	499
1.0	6426	2.2	1427.9	55000	**F904_1428 S2 ME2SB4**	**F904_1428 S2 MX2SB4**	498	**F904_1428 P80 BE80B4**	**F904_1428 P80 BX80B4**	499
1.0	6227	1.3	1383.8	45000	**F804_1384 S2 ME2SB4**	**F804_1384 S2 MX2SB4**	495	**F804_1384 P80 BE80B4**	**F804_1384 P80 BX80B4**	496
1.1	5931	2.4	1318.1	55000	**F904_1318 S2 ME2SB4**	**F904_1318 S2 MX2SB4**	498	**F904_1318 P80 BE80B4**	**F904_1318 P80 BX80B4**	499
1.1	5748	1.4	1277.3	45000	**F804_1277 S2 ME2SB4**	**F804_1277 S2 MX2SB4**	495	**F804_1277 P80 BE80B4**	**F804_1277 P80 BX80B4**	496
1.2	5422	2.6	1204.9	55000	**F904_1205 S2 ME2SB4**	**F904_1205 S2 MX2SB4**	498	**F904_1205 P80 BE80B4**	**F904_1205 P80 BX80B4**	499
1.2	5318	0.9	1181.8	35000	**F704_1182 S2 ME2SB4**	**F704_1182 S2 MX2SB4**	492	**F704_1182 P80 BE80B4**	**F704_1182 P80 BX80B4**	493
1.2	5158	1.6	1146.2	45000	**F804_1146 S2 ME2SB4**	**F804_1146 S2 MX2SB4**	495	**F804_1146 P80 BE80B4**	**F804_1146 P80 BX80B4**	496
1.3	5005	2.8	1112.3	55000	**F904_1112 S2 ME2SB4**	**F904_1112 S2 MX2SB4**	498	**F904_1112 P80 BE80B4**	**F904_1112 P80 BX80B4**	499
1.3	4909	1.0	1090.9	35000	**F704_1091 S2 ME2SB4**	**F704_1091 S2 MX2SB4**	492	**F704_1091 P80 BE80B4**	**F704_1091 P80 BX80B4**	493
1.4	4761	1.7	1058.1	45000	**F804_1058 S2 ME2SB4**	**F804_1058 S2 MX2SB4**	495	**F804_1058 P80 BE80B4**	**F804_1058 P80 BX80B4**	496
1.5	4437	3.2	986.0	55000	**F904_986.0 S2 ME2SB4**	**F904_986.0 S2 MX2SB4**	498	**F904_986.0 P80 BE80B4**	**F904_986.0 P80 BX80B4**	499
1.5	4385	1.1	974.4	35000	**F704_974.4 S2 ME2SB4**	**F704_974.4 S2 MX2SB4**	492	**F704_974.4 P80 BE80B4**	**F704_974.4 P80 BX80B4**	493
1.5	4374	1.8	972.0	45000	**F804_972.0 S2 ME2SB4**	**F804_972.0 S2 MX2SB4**	495	**F804_972.0 P80 BE80B4**	**F804_972.0 P80 BX80B4**	496
1.6	4096	3.4	910.2	55000	**F904_910.2 S2 ME2SB4**	**F904_910.2 S2 MX2SB4**	498	**F904_910.2 P80 BE80B4**	**F904_910.2 P80 BX80B4**	499
1.6	4047	1.2	899.4	35000	**F704_899.4 S2 ME2SB4**	**F704_899.4 S2 MX2SB4**	492	**F704_899.4 P80 BE80B4**	**F704_899.4 P80 BX80B4**	493
1.6	4038	2.0	897.3	45000	**F804_897.3 S2 ME2SB4**	**F804_897.3 S2 MX2SB4**	495	**F804_897.3 P80 BE80B4**	**F804_897.3 P80 BX80B4**	496
1.7	3700	1.4	822.2	35000	**F704_822.2 S2 ME2SB4**	**F704_822.2 S2 MX2SB4**	492	**F704_822.2 P80 BE80B4**	**F704_822.2 P80 BX80B4**	493
1.8	3485	2.3	774.4	45000	**F804_774.4 S2 ME2SB4**	**F804_774.4 S2 MX2SB4**	495	**F804_774.4 P80 BE80B4**	**F804_774.4 P80 BX80B4**	496
1.9	3415	1.5	759.0	35000	**F704_759.0 S2 ME2SB4**	**F704_759.0 S2 MX2SB4**	492	**F704_759.0 P80 BE80B4**	**F704_759.0 P80 BX80B4**	493
2.0	3217	2.5	714.9	45000	**F804_714.9 S2 ME2SB4**	**F804_714.9 S2 MX2SB4**	495	**F804_714.9 P80 BE80B4**	**F804_714.9 P80 BX80B4**	496
2.2	2981	1.0	662.4	20000	**F604_662.4 S2 ME2SB4**	**F604_662.4 S2 MX2SB4**	488	**F604_662.4 P80 BE80B4**	**F604_662.4 P80 BX80B4**	489
2.2	2958	1.7	657.4	35000	**F704_657.4 S2 ME2SB4**	**F704_657.4 S2 MX2SB4**	492	**F704_657.4 P80 BE80B4**	**F704_657.4 P80 BX80B4**	493



0.75 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IE2	IE3	
2.3	2751	1.1	611.4	20000	F604_611.4 S2 ME2SB4	F604_611.4 S2 MX2SB4	488	F604_611.4 P80 BE80B4	F604_611.4 P80 BX80B4	489
2.3	2749	2.9	610.9	45000	F804_610.9 S2 ME2SB4	F804_610.9 S2 MX2SB4	495	F804_610.9 P80 BE80B4	F804_610.9 P80 BX80B4	496
2.4	2731	1.8	606.8	35000	F704_606.8 S2 ME2SB4	F704_606.8 S2 MX2SB4	492	F704_606.8 P80 BE80B4	F704_606.8 P80 BX80B4	493
2.5	2537	3.2	563.9	45000	F804_563.9 S2 ME2SB4	F804_563.9 S2 MX2SB4	495	F804_563.9 P80 BE80B4	F804_563.9 P80 BX80B4	496
2.7	2388	1.2	530.7	20000	F604_530.7 S2 ME2SB4	F604_530.7 S2 MX2SB4	488	F604_530.7 P80 BE80B4	F604_530.7 P80 BX80B4	489
2.8	2297	2.2	510.4	35000	F704_510.4 S2 ME2SB4	F704_510.4 S2 MX2SB4	492	F704_510.4 P80 BE80B4	F704_510.4 P80 BX80B4	493
2.9	2204	1.3	489.8	20000	F604_489.8 S2 ME2SB4	F604_489.8 S2 MX2SB4	488	F604_489.8 P80 BE80B4	F604_489.8 P80 BX80B4	489
3.0	2120	2.4	471.2	35000	F704_471.2 S2 ME2SB4	F704_471.2 S2 MX2SB4	492	F704_471.2 P80 BE80B4	F704_471.2 P80 BX80B4	493
3.3	1947	1.5	432.6	20000	F604_432.6 S2 ME2SB4	F604_432.6 S2 MX2SB4	488	F604_432.6 P80 BE80B4	F604_432.6 P80 BX80B4	489
3.3	1931	0.9	429.1	12000	F514_429.1 S2 ME2SB4	F514_429.1 S2 MX2SB4	484	F514_429.1 P80 BE80B4	F514_429.1 P80 BX80B4	485
3.5	1816	2.8	403.5	35000	F704_403.5 S2 ME2SB4	F704_403.5 S2 MX2SB4	492	F704_403.5 P80 BE80B4	F704_403.5 P80 BX80B4	493
3.6	1797	1.6	399.3	20000	F604_399.3 S2 ME2SB4	F604_399.3 S2 MX2SB4	488	F604_399.3 P80 BE80B4	F604_399.3 P80 BX80B4	489
3.8	1676	3.0	372.5	35000	F704_372.5 S2 ME2SB4	F704_372.5 S2 MX2SB4	492	F704_372.5 P80 BE80B4	F704_372.5 P80 BX80B4	493
4.1	1639	1.1	352.5	12000	F513_352.5 S2 ME2SB4	F513_352.5 S2 MX2SB4	484	F513_352.5 P80 BE80B4	F513_352.5 P80 BX80B4	485
4.2	1538	1.9	341.7	20000	F604_341.7 S2 ME2SB4	F604_341.7 S2 MX2SB4	488	F604_341.7 P80 BE80B4	F604_341.7 P80 BX80B4	489
4.5	1475	1.2	317.3	12000	F513_317.3 S2 ME2SB4	F513_317.3 S2 MX2SB4	484	F513_317.3 P80 BE80B4	F513_317.3 P80 BX80B4	485
4.5	1419	2.0	315.4	20000	F604_315.4 S2 ME2SB4	F604_315.4 S2 MX2SB4	488	F604_315.4 P80 BE80B4	F604_315.4 P80 BX80B4	489
4.7	1370	3.7	304.3	35000	F704_304.3 S2 ME2SB4	F704_304.3 S2 MX2SB4	492	F704_304.3 P80 BE80B4	F704_304.3 P80 BX80B4	493
5.0	1330	1.4	285.9	12000	F513_285.9 S2 ME2SB4	F513_285.9 S2 MX2SB4	484	F513_285.9 P80 BE80B4	F513_285.9 P80 BX80B4	485
5.1	1305	2.2	280.7	20000	F603_280.7 S2 ME2SB4	F603_280.7 S2 MX2SB4	488	F603_280.7 P80 BE80B4	F603_280.7 P80 BX80B4	489
5.5	1219	1.5	262.1	12000	F513_262.1 S2 ME2SB4	F513_262.1 S2 MX2SB4	484	F513_262.1 P80 BE80B4	F513_262.1 P80 BX80B4	485
5.5	1205	2.4	259.1	20000	F603_259.1 S2 ME2SB4	F603_259.1 S2 MX2SB4	488	F603_259.1 P80 BE80B4	F603_259.1 P80 BX80B4	489
6.0	1117	1.0	240.1	8500	F413_240.1 S2 ME2SB4	F413_240.1 S2 MX2SB4	480	F413_240.1 P80 BE80B4	F413_240.1 P80 BX80B4	481
6.0	1115	1.6	239.8	12000	F513_239.8 S2 ME2SB4	F513_239.8 S2 MX2SB4	484	F513_239.8 P80 BE80B4	F513_239.8 P80 BX80B4	485
6.1	1096	2.6	235.8	20000	F603_235.8 S2 ME2SB4	F603_235.8 S2 MX2SB4	488	F603_235.8 P80 BE80B4	F603_235.8 P80 BX80B4	489
6.5	1024	1.1	220.1	8500	F413_220.1 S2 ME2SB4	F413_220.1 S2 MX2SB4	480	F413_220.1 P80 BE80B4	F413_220.1 P80 BX80B4	481
6.6	1012	2.9	217.6	20000	F603_217.6 S2 ME2SB4	F603_217.6 S2 MX2SB4	488	F603_217.6 P80 BE80B4	F603_217.6 P80 BX80B4	489
6.6	1008	1.8	216.9	12000	F513_216.9 S2 ME2SB4	F513_216.9 S2 MX2SB4	484	F513_216.9 P80 BE80B4	F513_216.9 P80 BX80B4	485
7.1	941	1.9	202.4	12000	F513_202.4 S2 ME2SB4	F513_202.4 S2 MX2SB4	484	F513_202.4 P80 BE80B4	F513_202.4 P80 BX80B4	485
7.1	936	3.1	201.4	20000	F603_201.4 S2 ME2SB4	F603_201.4 S2 MX2SB4	488	F603_201.4 P80 BE80B4	F603_201.4 P80 BX80B4	489
7.2	925	1.2	198.9	8500	F413_198.9 S2 ME2SB4	F413_198.9 S2 MX2SB4	480	F413_198.9 P80 BE80B4	F413_198.9 P80 BX80B4	481
7.7	864	3.4	185.9	20000	F603_185.9 S2 ME2SB4	F603_185.9 S2 MX2SB4	488	F603_185.9 P80 BE80B4	F603_185.9 P80 BX80B4	489
7.9	840	1.3	180.7	8500	F413_180.7 S2 ME2SB4	F413_180.7 S2 MX2SB4	480	F413_180.7 P80 BE80B4	F413_180.7 P80 BX80B4	481
8.5	784	1.4	168.7	8500	F413_168.7 S2 ME2SB4	F413_168.7 S2 MX2SB4	480	F413_168.7 P80 BE80B4	F413_168.7 P80 BX80B4	481
8.6	770	2.3	165.6	12000	F513_165.6 S2 ME2SB4	F513_165.6 S2 MX2SB4	484	F513_165.6 P80 BE80B4	F513_165.6 P80 BX80B4	485
8.8	757	3.8	162.9	20000	F603_162.9 S2 ME2SB4	F603_162.9 S2 MX2SB4	488	F603_162.9 P80 BE80B4	F603_162.9 P80 BX80B4	489
10.2	654	0.9	140.7	6500	F313_140.7 S2 ME2SB4	F313_140.7 S2 MX2SB4	476	F313_140.7 P80 BE80B4	F313_140.7 P80 BX80B4	477
10.6	625	1.8	134.4	8500	F413_134.4 S2 ME2SB4	F413_134.4 S2 MX2SB4	480	F413_134.4 P80 BE80B4	F413_134.4 P80 BX80B4	481
11.0	604	3.0	129.9	12000	F513_129.9 S2 ME2SB4	F513_129.9 S2 MX2SB4	484	F513_129.9 P80 BE80B4	F513_129.9 P80 BX80B4	485
11.1	597	1.0	128.4	6500	F313_128.4 S2 ME2SB4	F313_128.4 S2 MX2SB4	476	F313_128.4 P80 BE80B4	F313_128.4 P80 BX80B4	477
12.7	523	1.1	112.5	6500	F313_112.5 S2 ME2SB4	F313_112.5 S2 MX2SB4	476	F313_112.5 P80 BE80B4	F313_112.5 P80 BX80B4	477
13.5	493	2.2	106.0	8500	F413_106.0 S2 ME2SB4	F413_106.0 S2 MX2SB4	480	F413_106.0 P80 BE80B4	F413_106.0 P80 BX80B4	481
14.0	474	1.3	101.9	6500	F313_101.9 S2 ME2SB4	F313_101.9 S2 MX2SB4	476	F313_101.9 P80 BE80B4	F313_101.9 P80 BX80B4	477
15.0	444	0.9	95.5	5450	F253_95.5 S2 ME2SB4	F253_95.5 S2 MX2SB4	472	F253_95.5 P80 BE80B4	F253_95.5 P80 BX80B4	473
16.4	406	1.5	87.4	6500	F313_87.4 S2 ME2SB4	F313_87.4 S2 MX2SB4	476	F313_87.4 P80 BE80B4	F313_87.4 P80 BX80B4	477
16.8	395	2.8	84.9	8500	F413_84.9 S2 ME2SB4	F413_84.9 S2 MX2SB4	480	F413_84.9 P80 BE80B4	F413_84.9 P80 BX80B4	481
17.1	388	1.0	83.4	5350	F253_83.4 S2 ME2SB4	F253_83.4 S2 MX2SB4	472	F253_83.4 P80 BE80B4	F253_83.4 P80 BX80B4	473
18.1	367	1.6	78.9	6500	F313_78.9 S2 ME2SB4	F313_78.9 S2 MX2SB4	476	F313_78.9 P80 BE80B4	F313_78.9 P80 BX80B4	477
18.7	356	1.1	76.6	5300	F253_76.6 S2 ME2SB4	F253_76.6 S2 MX2SB4	472	F253_76.6 P80 BE80B4	F253_76.6 P80 BX80B4	473
20.7	321	1.9	69.1	6500	F313_69.1 S2 ME2SB4	F313_69.1 S2 MX2SB4	476	F313_69.1 P80 BE80B4	F313_69.1 P80 BX80B4	477
21.5	309	3.6	66.5	8500	F413_66.5 S2 ME2SB4	F413_66.5 S2 MX2SB4	480	F413_66.5 P80 BE80B4	F413_66.5 P80 BX80B4	481
21.9	304	1.3	65.3	5180	F253_65.3 S2 ME2SB4	F253_65.3 S2 MX2SB4	472	F253_65.3 P80 BE80B4	F253_65.3 P80 BX80B4	473
22.8	292	2.1	62.8	6500	F313_62.8 S2 ME2SB4	F313_62.8 S2 MX2SB4	476	F313_62.8 P80 BE80B4	F313_62.8 P80 BX80B4	477
24.5	271	1.5	58.3	5080	F253_58.3 S2 ME2SB4	F253_58.3 S2 MX2SB4	472	F253_58.3 P80 BE80B4	F253_58.3 P80 BX80B4	473
25.2	269	0.9	56.7	3590	F202_56.7 S2 ME2SB4	F202_56.7 S2 MX2SB4	468	F202_56.7 P80 BE80B4	F202_56.7 P80 BX80B4	469
27.5	242	2.5	52.1	6500	F313_52.1 S2 ME2SB4	F313_52.1 S2 MX2SB4	476	F313_52.1 P80 BE80B4	F313_52.1 P80 BX80B4	477
28.2	236	1.7	50.8	4960	F253_50.8 S2 ME2SB4	F253_50.8 S2 MX2SB4	472	F253_50.8 P80 BE80B4	F253_50.8 P80 BX80B4	473
28.2	241	1.0	50.7	3510	F202_50.7 S2 ME2SB4	F202_50.7 S2 MX2SB4	468	F202_50.7 P80 BE80B4	F202_50.7 P80 BX80B4	469
30	221	2.6	47.5	6500	F313_47.5 S2 ME2SB4	F313_47.5 S2 MX2SB4	476	F313_47.5 P80 BE80B4	F313_47.5 P80 BX80B4	477
31	212	1.9	45.6	4860	F253_45.6 S2 ME2SB4	F253_45.6 S2 MX2SB4	472	F253_45.6 P80 BE80B4	F253_45.6 P80 BX80B4	473

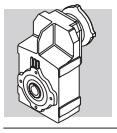


0.75 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IEC IE2	IEC IE3	
32	213	1.2	44.8	3420	**F202_44.8 S2 ME2SB4**	**F202_44.8 S2 MX2SB4**	468	**F202_44.8 P80 BE80B4**	**F202_44.8 P80 BX80B4**	469
32	212	2.8	44.6	6500	**F312_44.6 S2 ME2SB4**	**F312_44.6 S2 MX2SB4**	476	**F312_44.6 P80 BE80B4**	**F312_44.6 P80 BX80B4**	477
32	211	1.8	44.4	4890	**F252_44.4 S2 ME2SB4**	**F252_44.4 S2 MX2SB4**	472	**F252_44.4 P80 BE80B4**	**F252_44.4 P80 BX80B4**	473
34	199	1.3	41.8	3370	**F202_41.8 S2 ME2SB4**	**F202_41.8 S2 MX2SB4**	468	**F202_41.8 P80 BE80B4**	**F202_41.8 P80 BX80B4**	469
35	193	1.9	40.7	4790	**F252_40.7 S2 ME2SB4**	**F252_40.7 S2 MX2SB4**	472	**F252_40.7 P80 BE80B4**	**F252_40.7 P80 BX80B4**	473
35	192	3.1	40.4	6500	**F312_40.4 S2 ME2SB4**	**F312_40.4 S2 MX2SB4**	476	**F312_40.4 P80 BE80B4**	**F312_40.4 P80 BX80B4**	477
38	180	1.4	37.9	3300	**F202_37.9 S2 ME2SB4**	**F202_37.9 S2 MX2SB4**	468	**F202_37.9 P80 BE80B4**	**F202_37.9 P80 BX80B4**	469
38	179	3.4	37.7	6500	**F312_37.7 S2 ME2SB4**	**F312_37.7 S2 MX2SB4**	476	**F312_37.7 P80 BE80B4**	**F312_37.7 P80 BX80B4**	477
39	173	2.3	36.4	4680	**F252_36.4 S2 ME2SB4**	**F252_36.4 S2 MX2SB4**	472	**F252_36.4 P80 BE80B4**	**F252_36.4 P80 BX80B4**	473
43	157	1.6	33.1	3200	**F202_33.1 S2 ME2SB4**	**F202_33.1 S2 MX2SB4**	468	**F202_33.1 P80 BE80B4**	**F202_33.1 P80 BX80B4**	469
44	153	2.6	32.2	4540	**F252_32.2 S2 ME2SB4**	**F252_32.2 S2 MX2SB4**	472	**F252_32.2 P80 BE80B4**	**F252_32.2 P80 BX80B4**	473
47	144	1.7	30.4	3140	**F202_30.4 S2 ME2SB4**	**F202_30.4 S2 MX2SB4**	468	**F202_30.4 P80 BE80B4**	**F202_30.4 P80 BX80B4**	469
48	143	2.8	30.0	4470	**F252_30.0 S2 ME2SB4**	**F252_30.0 S2 MX2SB4**	472	**F252_30.0 P80 BE80B4**	**F252_30.0 P80 BX80B4**	473
48	141	1.0	29.6	2550	**F102_29.6 S2 ME2SB4**	**F102_29.6 S2 MX2SB4**	464	**F102_29.6 P80 BE80B4**	**F102_29.6 P80 BX80B4**	465
53	129	3.1	27.2	4360	**F252_27.2 S2 ME2SB4**	**F252_27.2 S2 MX2SB4**	472	**F252_27.2 P80 BE80B4**	**F252_27.2 P80 BX80B4**	473
55	123	1.9	25.9	3020	**F202_25.9 S2 ME2SB4**	**F202_25.9 S2 MX2SB4**	468	**F202_25.9 P80 BE80B4**	**F202_25.9 P80 BX80B4**	469
55	122	1.1	25.8	2470	**F102_25.8 S2 ME2SB4**	**F102_25.8 S2 MX2SB4**	464	**F102_25.8 P80 BE80B4**	**F102_25.8 P80 BX80B4**	465
60	113	3.5	23.8	4210	**F252_23.8 S2 ME2SB4**	**F252_23.8 S2 MX2SB4**	472	**F252_23.8 P80 BE80B4**	**F252_23.8 P80 BX80B4**	473
62	110	2.1	23.1	2930	**F202_23.1 S2 ME2SB4**	**F202_23.1 S2 MX2SB4**	468	**F202_23.1 P80 BE80B4**	**F202_23.1 P80 BX80B4**	469
63	108	1.3	22.8	2400	**F102_22.8 S2 ME2SB4**	**F102_22.8 S2 MX2SB4**	464	**F102_22.8 P80 BE80B4**	**F102_22.8 P80 BX80B4**	465
71	96	2.3	20.2	2830	**F202_20.2 S2 ME2SB4**	**F202_20.2 S2 MX2SB4**	468	**F202_20.2 P80 BE80B4**	**F202_20.2 P80 BX80B4**	469
74	92	1.5	19.3	2310	**F102_19.3 S2 ME2SB4**	**F102_19.3 S2 MX2SB4**	464	**F102_19.3 P80 BE80B4**	**F102_19.3 P80 BX80B4**	465
79	86	2.5	18.1	2740	**F202_18.1 S2 ME2SB4**	**F202_18.1 S2 MX2SB4**	468	**F202_18.1 P80 BE80B4**	**F202_18.1 P80 BX80B4**	469
84	81	1.6	17.0	2230	**F102_17.0 S2 ME2SB4**	**F102_17.0 S2 MX2SB4**	464	**F102_17.0 P80 BE80B4**	**F102_17.0 P80 BX80B4**	465
97	70	2.9	14.8	2600	**F202_14.8 S2 ME2SB4**	**F202_14.8 S2 MX2SB4**	468	**F202_14.8 P80 BE80B4**	**F202_14.8 P80 BX80B4**	469
98	70	1.7	14.6	2150	**F102_14.6 S2 ME2SB4**	**F102_14.6 S2 MX2SB4**	464	**F102_14.6 P80 BE80B4**	**F102_14.6 P80 BX80B4**	465
110	62	1.7	13.0	2070	**F102_13.0 S2 ME2SB4**	**F102_13.0 S2 MX2SB4**	464	**F102_13.0 P80 BE80B4**	**F102_13.0 P80 BX80B4**	465
124	55	1.8	11.5	2010	**F102_11.5 S2 ME2SB4**	**F102_11.5 S2 MX2SB4**	464	**F102_11.5 P80 BE80B4**	**F102_11.5 P80 BX80B4**	465
146	46	1.9	9.8	1920	**F102_9.8 S2 ME2SB4**	**F102_9.8 S2 MX2SB4**	464	**F102_9.8 P80 BE80B4**	**F102_9.8 P80 BX80B4**	465
167	41	2.0	8.6	1850	**F102_8.6 S2 ME2SB4**	**F102_8.6 S2 MX2SB4**	464	**F102_8.6 P80 BE80B4**	**F102_8.6 P80 BX80B4**	465
193	35	2.2	7.4	1770	**F102_7.4 S2 ME2SB4**	**F102_7.4 S2 MX2SB4**	464	**F102_7.4 P80 BE80B4**	**F102_7.4 P80 BX80B4**	465
195	35	2.7	14.6	1770	**F102_14.6 S2 ME2SA2**		464	**F102_14.6 P80 BE80A2**		465
219	31	2.7	13.0	1710	**F102_13.0 S2 ME2SA2**		464	**F102_13.0 P80 BE80A2**		465
247	28	2.8	11.5	1650	**F102_11.5 S2 ME2SA2**		464	**F102_11.5 P80 BE80A2**		465
292	23	3.1	9.8	1570	**F102_9.8 S2 ME2SA2**		464	**F102_9.8 P80 BE80A2**		465
332	20.5	3.2	8.6	1510	**F102_8.6 S2 ME2SA2**		464	**F102_8.6 P80 BE80A2**		465
385	17.7	3.6	7.4	1440	**F102_7.4 S2 ME2SA2**		464	**F102_7.4 P80 BE80A2**		465

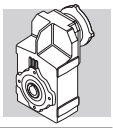
0.75 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE3		IEC IE3	
0.45	14391	1.0	2098.7	55000				
0.49	13284	1.1	1937.3	55000				
0.55	11673	1.2	1702.3	55000				
0.60	10775	1.3	1571.4	55000				
0.66	9791	1.4	1427.9	55000				
0.68	9444	1.5	2098.7	55000			**F904_2099 P80 BXN80MB4**	499
0.72	8941	0.9	1986.8	45000			**F804_1987 P80 BXN80MB4**	496
0.74	8718	1.6	1937.3	55000			**F904_1937 P80 BXN80MB4**	499
0.78	8253	1.0	1834.0	45000			**F804_1834 P80 BXN80MB4**	496
0.84	7691	1.0	1709.1	45000			**F804_1709 P80 BXN80MB4**	496
0.84	7660	1.8	1702.3	55000			**F904_1702 P80 BXN80MB4**	499
0.91	7099	1.1	1577.6	45000			**F804_1578 P80 BXN80MB4**	496
0.91	7071	2.0	1571.4	55000			**F904_1571 P80 BXN80MB4**	499
1.0	6426	2.2	1427.9	55000			**F904_1428 P80 BXN80MB4**	499
1.0	6227	1.3	1383.8	45000			**F804_1384 P80 BXN80MB4**	496



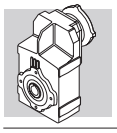
0.75 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE3		IEC IE3	
1.1	5931	2.4	1318.1	55000			**F904_1318 P80 BXN80MB4**	499
1.1	5748	1.4	1277.3	45000			**F804_1277 P80 BXN80MB4**	496
1.2	5422	2.6	1204.9	55000			**F904_1205 P80 BXN80MB4**	499
1.2	5318	0.9	1181.8	35000			**F704_1182 P80 BXN80MB4**	493
1.2	5158	1.6	1146.2	45000			**F804_1146 P80 BXN80MB4**	496
1.3	5005	2.8	1112.3	55000			**F904_1112 P80 BXN80MB4**	499
1.3	4909	1.0	1090.9	35000			**F704_1091 P80 BXN80MB4**	493
1.4	4761	1.7	1058.1	45000			**F804_1058 P80 BXN80MB4**	496
1.5	4437	3.2	986.0	55000			**F904_986.0 P80 BXN80MB4**	499
1.5	4385	1.1	974.4	35000			**F704_974.4 P80 BXN80MB4**	493
1.5	4374	1.8	972.0	45000			**F804_972.0 P80 BXN80MB4**	496
1.6	4096	3.4	910.2	55000			**F904_910.2 P80 BXN80MB4**	499
1.6	4047	1.2	899.4	35000			**F704_899.4 P80 BXN80MB4**	493
1.6	4038	2.0	897.3	45000			**F804_897.3 P80 BXN80MB4**	496
1.7	3700	1.4	822.2	35000			**F704_822.2 P80 BXN80MB4**	493
1.8	3485	2.3	774.4	45000			**F804_774.4 P80 BXN80MB4**	496
1.9	3415	1.5	759.0	35000			**F704_759.0 P80 BXN80MB4**	493
2.0	3217	2.5	714.9	45000			**F804_714.9 P80 BXN80MB4**	496
2.2	2981	1.0	662.4	20000			**F604_662.4 P80 BXN80MB4**	489
2.2	2958	1.7	657.4	35000			**F704_657.4 P80 BXN80MB4**	493
2.3	2751	1.1	611.4	20000			**F604_611.4 P80 BXN80MB4**	489
2.3	2749	2.9	610.9	45000			**F804_610.9 P80 BXN80MB4**	496
2.4	2731	1.8	606.8	35000			**F704_606.8 P80 BXN80MB4**	493
2.5	2537	3.2	563.9	45000			**F804_563.9 P80 BXN80MB4**	496
2.7	2388	1.2	530.7	20000			**F604_530.7 P80 BXN80MB4**	489
2.8	2297	2.2	510.4	35000			**F704_510.4 P80 BXN80MB4**	493
2.9	2204	1.3	489.8	20000			**F604_489.8 P80 BXN80MB4**	489
3.0	2120	2.4	471.2	35000			**F704_471.2 P80 BXN80MB4**	493
3.3	1947	1.5	432.6	20000			**F604_432.6 P80 BXN80MB4**	489
3.3	1931	0.9	429.1	12000			**F514_429.1 P80 BXN80MB4**	485
3.5	1816	2.8	403.5	35000			**F704_403.5 P80 BXN80MB4**	493
3.6	1797	1.6	399.3	20000			**F604_399.3 P80 BXN80MB4**	489
3.8	1676	3.0	372.5	35000			**F704_372.5 P80 BXN80MB4**	493
4.1	1639	1.1	352.5	12000			**F513_352.5 P80 BXN80MB4**	485
4.2	1538	1.9	341.7	20000			**F604_341.7 P80 BXN80MB4**	489
4.5	1475	1.2	317.3	12000			**F513_317.3 P80 BXN80MB4**	485
4.5	1419	2.0	315.4	20000			**F604_315.4 P80 BXN80MB4**	489
4.7	1370	3.7	304.3	35000			**F704_304.3 P80 BXN80MB4**	493
5.0	1330	1.4	285.9	12000			**F513_285.9 P80 BXN80MB4**	485
5.1	1305	2.2	280.7	20000			**F603_280.7 P80 BXN80MB4**	489
5.5	1219	1.5	262.1	12000			**F513_262.1 P80 BXN80MB4**	485
5.5	1205	2.4	259.1	20000			**F603_259.1 P80 BXN80MB4**	489
6.0	1117	1.0	240.1	8500			**F413_240.1 P80 BXN80MB4**	481
6.0	1115	1.6	239.8	12000			**F513_239.8 P80 BXN80MB4**	485
6.1	1096	2.6	235.8	20000			**F603_235.8 P80 BXN80MB4**	489
6.5	1024	1.1	220.1	8500			**F413_220.1 P80 BXN80MB4**	481
6.6	1012	2.9	217.6	20000			**F603_217.6 P80 BXN80MB4**	489
6.6	1008	1.8	216.9	12000			**F513_216.9 P80 BXN80MB4**	485
7.1	941	1.9	202.4	12000			**F513_202.4 P80 BXN80MB4**	485
7.1	936	3.1	201.4	20000			**F603_201.4 P80 BXN80MB4**	489
7.2	925	1.2	198.9	8500			**F413_198.9 P80 BXN80MB4**	481
7.7	864	3.4	185.9	20000			**F603_185.9 P80 BXN80MB4**	489
7.9	840	1.3	180.7	8500			**F413_180.7 P80 BXN80MB4**	481
8.5	784	1.4	168.7	8500			**F413_168.7 P80 BXN80MB4**	481
8.6	770	2.3	165.6	12000			**F513_165.6 P80 BXN80MB4**	485
8.8	757	3.8	162.9	20000			**F603_162.9 P80 BXN80MB4**	489
10.2	654	0.9	140.7	6500			**F313_140.7 P80 BXN80MB4**	477
10.6	625	1.8	134.4	8500			**F413_134.4 P80 BXN80MB4**	481
11.0	604	3.0	129.9	12000			**F513_129.9 P80 BXN80MB4**	485
11.1	597	1.0	128.4	6500			**F313_128.4 P80 BXN80MB4**	477
12.7	523	1.1	112.5	6500			**F313_112.5 P80 BXN80MB4**	477
13.5	493	2.2	106.0	8500			**F413_106.0 P80 BXN80MB4**	481
14.0	474	1.3	101.9	6500			**F313_101.9 P80 BXN80MB4**	477



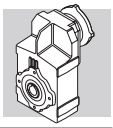
0.75 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE3		IEC IE3	
15.0	444	0.9	95.5	5450			**F253_95.5 P80 BXN80MB4**	473
16.4	406	1.5	87.4	6500			**F313_87.4 P80 BXN80MB4**	477
16.8	395	2.8	84.9	8500			**F413_84.9 P80 BXN80MB4**	481
17.1	388	1.0	83.4	5350	**F253_83.4 S20 MXN20MB4**	472	**F253_83.4 P80 BXN80MB4**	473
18.1	367	1.6	78.9	6500			**F313_78.9 P80 BXN80MB4**	477
18.7	356	1.1	76.6	5300	**F253_76.6 S20 MXN20MB4**	472	**F253_76.6 P80 BXN80MB4**	473
20.7	321	1.9	69.1	6500			**F313_69.1 P80 BXN80MB4**	477
21.5	309	3.6	66.5	8500			**F413_66.5 P80 BXN80MB4**	481
21.9	304	1.3	65.3	5180	**F253_65.3 S20 MXN20MB4**	472	**F253_65.3 P80 BXN80MB4**	473
22.8	292	2.1	62.8	6500			**F313_62.8 P80 BXN80MB4**	477
24.5	271	1.5	58.3	5080	**F253_58.3 S20 MXN20MB4**	472	**F253_58.3 P80 BXN80MB4**	473
25.2	269	0.9	56.7	3590	**F202_56.7 S20 MXN20MB4**	468	**F202_56.7 P80 BXN80MB4**	469
27.5	242	2.5	52.1	6500			**F313_52.1 P80 BXN80MB4**	477
28.2	236	1.7	50.8	4960	**F253_50.8 S20 MXN20MB4**	472	**F253_50.8 P80 BXN80MB4**	473
28.2	241	1.0	50.7	3510	**F202_50.7 S20 MXN20MB4**	468	**F202_50.7 P80 BXN80MB4**	469
30	221	2.6	47.5	6500			**F313_47.5 P80 BXN80MB4**	477
31	212	1.9	45.6	4860	**F253_45.6 S20 MXN20MB4**	472	**F253_45.6 P80 BXN80MB4**	473
32	213	1.2	44.8	3420	**F202_44.8 S20 MXN20MB4**	468	**F202_44.8 P80 BXN80MB4**	469
32	212	2.8	44.6	6500			**F312_44.6 P80 BXN80MB4**	477
32	211	1.8	44.4	4890	**F252_44.4 S20 MXN20MB4**	472	**F252_44.4 P80 BXN80MB4**	473
34	199	1.3	41.8	3370	**F202_41.8 S20 MXN20MB4**	468	**F202_41.8 P80 BXN80MB4**	469
35	193	1.9	40.7	4790	**F252_40.7 S20 MXN20MB4**	472	**F252_40.7 P80 BXN80MB4**	473
35	192	3.1	40.4	6500			**F312_40.4 P80 BXN80MB4**	477
38	180	1.4	37.9	3300	**F202_37.9 S20 MXN20MB4**	468	**F202_37.9 P80 BXN80MB4**	469
38	179	3.4	37.7	6500			**F312_37.7 P80 BXN80MB4**	477
39	173	2.3	36.4	4680	**F252_36.4 S20 MXN20MB4**	472	**F252_36.4 P80 BXN80MB4**	473
43	157	1.6	33.1	3200	**F202_33.1 S20 MXN20MB4**	468	**F202_33.1 P80 BXN80MB4**	469
44	153	2.6	32.2	4540	**F252_32.2 S20 MXN20MB4**	472	**F252_32.2 P80 BXN80MB4**	473
47	144	1.7	30.4	3140	**F202_30.4 S20 MXN20MB4**	468	**F202_30.4 P80 BXN80MB4**	469
48	143	2.8	30.0	4470	**F252_30.0 S20 MXN20MB4**	472	**F252_30.0 P80 BXN80MB4**	473
48	141	1.0	29.6	2550	**F102_29.6 S20 MXN20MB4**	464	**F102_29.6 P80 BXN80MB4**	465
53	129	3.1	27.2	4360	**F252_27.2 S20 MXN20MB4**	472	**F252_27.2 P80 BXN80MB4**	473
55	123	1.9	25.9	3020	**F202_25.9 S20 MXN20MB4**	468	**F202_25.9 P80 BXN80MB4**	469
55	122	1.1	25.8	2470	**F102_25.8 S20 MXN20MB4**	464	**F102_25.8 P80 BXN80MB4**	465
60	113	3.5	23.8	4210	**F252_23.8 S20 MXN20MB4**	472	**F252_23.8 P80 BXN80MB4**	473
62	110	2.1	23.1	2930	**F202_23.1 S20 MXN20MB4**	468	**F202_23.1 P80 BXN80MB4**	469
63	108	1.3	22.8	2400	**F102_22.8 S20 MXN20MB4**	464	**F102_22.8 P80 BXN80MB4**	465
71	96	2.3	20.2	2830	**F202_20.2 S20 MXN20MB4**	468	**F202_20.2 P80 BXN80MB4**	469
74	92	1.5	19.3	2310	**F102_19.3 S20 MXN20MB4**	464	**F102_19.3 P80 BXN80MB4**	465
79	86	2.5	18.1	2740	**F202_18.1 S20 MXN20MB4**	468	**F202_18.1 P80 BXN80MB4**	469
84	81	1.6	17.0	2230	**F102_17.0 S20 MXN20MB4**	464	**F102_17.0 P80 BXN80MB4**	465
97	70	2.9	14.8	2600	**F202_14.8 S20 MXN20MB4**	468	**F202_14.8 P80 BXN80MB4**	469
98	70	1.7	14.6	2150	**F102_14.6 S20 MXN20MB4**	464	**F102_14.6 P80 BXN80MB4**	465
110	62	1.7	13.0	2070	**F102_13.0 S20 MXN20MB4**	464	**F102_13.0 P80 BXN80MB4**	465
124	55	1.8	11.5	2010	**F102_11.5 S20 MXN20MB4**	464	**F102_11.5 P80 BXN80MB4**	465
146	46	1.9	9.8	1920	**F102_9.8 S20 MXN20MB4**	464	**F102_9.8 P80 BXN80MB4**	465
167	41	2.0	8.6	1850	**F102_8.6 S20 MXN20MB4**	464	**F102_8.6 P80 BXN80MB4**	465
193	35	2.2	7.4	1770	**F102_7.4 S20 MXN20MB4**	464	**F102_7.4 P80 BXN80MB4**	465
195	35	2.7	14.6	1770				
219	31	2.7	13.0	1710				
247	28	2.8	11.5	1650				
292	23	3.1	9.8	1570				
332	20.5	3.2	8.6	1510				
385	17.7	3.6	7.4	1440				



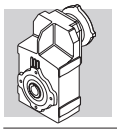
1.1 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IEC IE2	IE3	
0.60	15694	0.9	1571.4	55000	**F904_1571 S3 ME3LA6**		498	**F904_1571 P100 BE100M6**		499
0.66	14285	1.0	1427.9	55000	**F904_1428 S3 ME3LA6**		498	**F904_1428 P100 BE100M6**		499
0.68	13977	1.0	2098.7	55000	**F904_2099 S3 ME3SA4**	**F904_2099 S3 MX3SA4**	498	**F904_2099 P90 BE90S4**	**F904_2099 P90 BX90S4**	499
0.74	12902	1.1	1937.3	55000	**F904_1937 S3 ME3SA4**	**F904_1937 S3 MX3SA4**	498	**F904_1937 P90 BE90S4**	**F904_1937 P90 BX90S4**	499
0.84	11337	1.2	1702.3	55000	**F904_1702 S3 ME3SA4**	**F904_1702 S3 MX3SA4**	498	**F904_1702 P90 BE90S4**	**F904_1702 P90 BX90S4**	499
0.91	10465	1.3	1571.4	55000	**F904_1571 S3 ME3SA4**	**F904_1571 S3 MX3SA4**	498	**F904_1571 P90 BE90S4**	**F904_1571 P90 BX90S4**	499
1.0	9510	1.5	1427.9	55000	**F904_1428 S3 ME3SA4**	**F904_1428 S3 MX3SA4**	498	**F904_1428 P90 BE90S4**	**F904_1428 P90 BX90S4**	499
1.1	8778	1.6	1318.1	55000	**F904_1318 S3 ME3SA4**	**F904_1318 S3 MX3SA4**	498	**F904_1318 P90 BE90S4**	**F904_1318 P90 BX90S4**	499
1.1	8507	0.9	1277.3	45000	**F804_1277 S3 ME3SA4**	**F804_1277 S3 MX3SA4**	495	**F804_1277 P90 BE90S4**	**F804_1277 P90 BX90S4**	496
1.2	8025	1.7	1204.9	55000	**F904_1205 S3 ME3SA4**	**F904_1205 S3 MX3SA4**	498	**F904_1205 P90 BE90S4**	**F904_1205 P90 BX90S4**	499
1.2	7634	1.0	1146.2	45000	**F804_1146 S3 ME3SA4**	**F804_1146 S3 MX3SA4**	495	**F804_1146 P90 BE90S4**	**F804_1146 P90 BX90S4**	496
1.3	7408	1.9	1112.3	55000	**F904_1112 S3 ME3SA4**	**F904_1112 S3 MX3SA4**	498	**F904_1112 P90 BE90S4**	**F904_1112 P90 BX90S4**	499
1.4	7047	1.1	1058.1	45000	**F804_1058 S3 ME3SA4**	**F804_1058 S3 MX3SA4**	495	**F804_1058 P90 BE90S4**	**F804_1058 P90 BX90S4**	496
1.5	6567	2.1	986.0	55000	**F904_986.0 S3 ME3SA4**	**F904_986.0 S3 MX3SA4**	498	**F904_986.0 P90 BE90S4**	**F904_986.0 P90 BX90S4**	499
1.5	6474	1.2	972.0	45000	**F804_972.0 S3 ME3SA4**	**F804_972.0 S3 MX3SA4**	495	**F804_972.0 P90 BE90S4**	**F804_972.0 P90 BX90S4**	496
1.6	6062	2.3	910.2	55000	**F904_910.2 S3 ME3SA4**	**F904_910.2 S3 MX3SA4**	498	**F904_910.2 P90 BE90S4**	**F904_910.2 P90 BX90S4**	499
1.6	5976	1.3	897.3	45000	**F804_897.3 S3 ME3SA4**	**F804_897.3 S3 MX3SA4**	495	**F804_897.3 P90 BE90S4**	**F804_897.3 P90 BX90S4**	496
1.7	5476	0.9	822.2	35000	**F704_822.2 S3 ME3SA4**	**F704_822.2 S3 MX3SA4**	492	**F704_822.2 P90 BE90S4**	**F704_822.2 P90 BX90S4**	493
1.8	5158	1.6	774.4	45000	**F804_774.4 S3 ME3SA4**	**F804_774.4 S3 MX3SA4**	495	**F804_774.4 P90 BE90S4**	**F804_774.4 P90 BX90S4**	496
1.8	5151	2.7	773.4	55000	**F904_773.4 S3 ME3SA4**	**F904_773.4 S3 MX3SA4**	498	**F904_773.4 P90 BE90S4**	**F904_773.4 P90 BX90S4**	499
1.9	5055	1.0	759.0	35000	**F704_759.0 S3 ME3SA4**	**F704_759.0 S3 MX3SA4**	492	**F704_759.0 P90 BE90S4**	**F704_759.0 P90 BX90S4**	493
1.9	4893	1.6	489.1	45000	**F804_489.1 S3 ME3LA6**		495	**F804_489.1 P100 BE100M6**		496
2.0	4761	1.7	714.9	45000	**F804_714.9 S3 ME3SA4**	**F804_714.9 S3 MX3SA4**	495	**F804_714.9 P90 BE90S4**	**F804_714.9 P90 BX90S4**	496
2.0	4755	2.9	714.0	55000	**F904_714.0 S3 ME3SA4**	**F904_714.0 S3 MX3SA4**	498	**F904_714.0 P90 BE90S4**	**F904_714.0 P90 BX90S4**	499
2.1	4517	1.8	451.5	45000	**F804_451.5 S3 ME3LA6**		495	**F804_451.5 P100 BE100M6**		496
2.2	4378	1.1	657.4	35000	**F704_657.4 S3 ME3SA4**	**F704_657.4 S3 MX3SA4**	492	**F704_657.4 P90 BE90S4**	**F704_657.4 P90 BX90S4**	493
2.3	4167	3.4	625.6	55000	**F904_625.6 S3 ME3SA4**	**F904_625.6 S3 MX3SA4**	498	**F904_625.6 P90 BE90S4**	**F904_625.6 P90 BX90S4**	499
2.3	4068	2.0	610.9	45000	**F804_610.9 S3 ME3SA4**	**F804_610.9 S3 MX3SA4**	495	**F804_610.9 P90 BE90S4**	**F804_610.9 P90 BX90S4**	496
2.4	4042	1.2	606.8	35000	**F704_606.8 S3 ME3SA4**	**F704_606.8 S3 MX3SA4**	492	**F704_606.8 P90 BE90S4**	**F704_606.8 P90 BX90S4**	493
2.5	3846	3.6	577.5	55000	**F904_577.5 S3 ME3SA4**	**F904_577.5 S3 MX3SA4**	498	**F904_577.5 P90 BE90S4**	**F904_577.5 P90 BX90S4**	499
2.5	3755	2.1	563.9	45000	**F804_563.9 S3 ME3SA4**	**F804_563.9 S3 MX3SA4**	495	**F804_563.9 P90 BE90S4**	**F804_563.9 P90 BX90S4**	496
2.8	3399	1.5	510.4	35000	**F704_510.4 S3 ME3SA4**	**F704_510.4 S3 MX3SA4**	492	**F704_510.4 P90 BE90S4**	**F704_510.4 P90 BX90S4**	493
2.9	3262	0.9	489.8	20000	**F604_489.8 S3 ME3SA4**	**F604_489.8 S3 MX3SA4**	488	**F604_489.8 P90 BE90S4**	**F604_489.8 P90 BX90S4**	489
2.9	3258	2.5	489.1	45000	**F804_489.1 S3 ME3SA4**	**F804_489.1 S3 MX3SA4**	495	**F804_489.1 P90 BE90S4**	**F804_489.1 P90 BX90S4**	496
3.0	3138	1.6	471.2	35000	**F704_471.2 S3 ME3SA4**	**F704_471.2 S3 MX3SA4**	492	**F704_471.2 P90 BE90S4**	**F704_471.2 P90 BX90S4**	493
3.2	3007	2.7	451.5	45000	**F804_451.5 S3 ME3SA4**	**F804_451.5 S3 MX3SA4**	495	**F804_451.5 P90 BE90S4**	**F804_451.5 P90 BX90S4**	496
3.3	2881	1.0	432.6	20000	**F604_432.6 S3 ME3SA4**	**F604_432.6 S3 MX3SA4**	488	**F604_432.6 P90 BE90S4**	**F604_432.6 P90 BX90S4**	489
3.5	2687	1.9	403.5	35000	**F704_403.5 S3 ME3SA4**	**F704_403.5 S3 MX3SA4**	492	**F704_403.5 P90 BE90S4**	**F704_403.5 P90 BX90S4**	493
3.6	2660	1.1	399.3	20000	**F604_399.3 S3 ME3SA4**	**F604_399.3 S3 MX3SA4**	488	**F604_399.3 P90 BE90S4**	**F604_399.3 P90 BX90S4**	489
3.7	2552	3.1	383.2	45000	**F804_383.2 S3 ME3SA4**	**F804_383.2 S3 MX3SA4**	495	**F804_383.2 P90 BE90S4**	**F804_383.2 P90 BX90S4**	496
3.8	2481	2.0	372.5	35000	**F704_372.5 S3 ME3SA4**	**F704_372.5 S3 MX3SA4**	492	**F704_372.5 P90 BE90S4**	**F704_372.5 P90 BX90S4**	493
4.0	2356	3.4	353.7	45000	**F804_353.7 S3 ME3SA4**	**F804_353.7 S3 MX3SA4**	495	**F804_353.7 P90 BE90S4**	**F804_353.7 P90 BX90S4**	496
4.2	2276	1.3	341.7	20000	**F604_341.7 S3 ME3SA4**	**F604_341.7 S3 MX3SA4**	488	**F604_341.7 P90 BE90S4**	**F604_341.7 P90 BX90S4**	489
4.5	2100	1.4	315.4	20000	**F604_315.4 S3 ME3SA4**	**F604_315.4 S3 MX3SA4**	488	**F604_315.4 P90 BE90S4**	**F604_315.4 P90 BX90S4**	489
4.7	2027	2.5	304.3	35000	**F704_304.3 S3 ME3SA4**	**F704_304.3 S3 MX3SA4**	492	**F704_304.3 P90 BE90S4**	**F704_304.3 P90 BX90S4**	493
5.0	1968	0.9	285.9	12000	**F513_285.9 S3 ME3SA4**	**F513_285.9 S3 MX3SA4**	484	**F513_285.9 P90 BE90S4**	**F513_285.9 P90 BX90S4**	485
5.1	1871	2.7	280.9	35000	**F704_280.9 S3 ME3SA4**	**F704_280.9 S3 MX3SA4**	492	**F704_280.9 P90 BE90S4**	**F704_280.9 P90 BX90S4**	493
5.1	1932	1.5	280.7	20000	**F603_280.7 S3 ME3SA4**	**F603_280.7 S3 MX3SA4**	488	**F603_280.7 P90 BE90S4**	**F603_280.7 P90 BX90S4**	489
5.5	1804	1.0	262.1	12000	**F513_262.1 S3 ME3SA4**	**F513_262.1 S3 MX3SA4**	484	**F513_262.1 P90 BE90S4**	**F513_262.1 P90 BX90S4**	485
5.5	1783	1.6	259.1	20000	**F603_259.1 S3 ME3SA4**	**F603_259.1 S3 MX3SA4**	488	**F603_259.1 P90 BE90S4**	**F603_259.1 P90 BX90S4**	489
6.0	1651	1.1	239.8	12000	**F513_239.8 S3 ME3SA4**	**F513_239.8 S3 MX3SA4**	484	**F513_239.8 P90 BE90S4**	**F513_239.8 P90 BX90S4**	485
6.1	1623	1.8	235.8	20000	**F603_235.8 S3 ME3SA4**	**F603_235.8 S3 MX3SA4**	488	**F603_235.8 P90 BE90S4**	**F603_235.8 P90 BX90S4**	489
6.1	1562	3.2	234.6	35000	**F704_234.6 S3 ME3SA4**	**F704_234.6 S3 MX3SA4**	492	**F704_234.6 P90 BE90S4**	**F704_234.6 P90 BX90S4**	493
6.6	1498	1.9	217.6	20000	**F603_217.6 S3 ME3SA4**	**F603_217.6 S3 MX3SA4**	488	**F603_217.6 P90 BE90S4**	**F603_217.6 P90 BX90S4**	489
6.6	1492	1.2	216.9	12000	**F513_216.9 S3 ME3SA4**	**F513_216.9 S3 MX3SA4**	484	**F513_216.9 P90 BE90S4**	**F513_216.9 P90 BX90S4**	485
6.6	1442	3.5	216.5	35000	**F704_216.5 S3 ME3SA4**	**F704_216.5 S3 MX3SA4**	492	**F704_216.5 P90 BE90S4**	**F704_216.5 P90 BX90S4**	493
7.1	1393	1.3	202.4	12000	**F513_202.4 S3 ME3SA4**	**F513_202.4 S3 MX3SA4**	484	**F513_202.4 P90 BE90S4**	**F513_202.4 P90 BX90S4**	485



1.1 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IEC IE2	IEC IE3	
7.1	1386	2.1	201.4	20000	**F603_201.4 S3 ME3SA4**	**F603_201.4 S3 MX3SA4**	488	**F603_201.4 P90 BE90S4**	**F603_201.4 P90 BX90S4**	489
7.7	1279	2.3	185.9	20000	**F603_185.9 S3 ME3SA4**	**F603_185.9 S3 MX3SA4**	488	**F603_185.9 P90 BE90S4**	**F603_185.9 P90 BX90S4**	489
7.9	1244	0.9	180.7	8500	**F413_180.7 S3 ME3SA4**	**F413_180.7 S3 MX3SA4**	480	**F413_180.7 P90 BE90S4**	**F413_180.7 P90 BX90S4**	481
8.5	1161	0.9	168.7	8500	**F413_168.7 S3 ME3SA4**	**F413_168.7 S3 MX3SA4**	480	**F413_168.7 P90 BE90S4**	**F413_168.7 P90 BX90S4**	481
8.6	1140	1.6	165.6	12000	**F513_165.6 S3 ME3SA4**	**F513_165.6 S3 MX3SA4**	484	**F513_165.6 P90 BE90S4**	**F513_165.6 P90 BX90S4**	485
8.8	1121	2.6	162.9	20000	**F603_162.9 S3 ME3SA4**	**F603_162.9 S3 MX3SA4**	488	**F603_162.9 P90 BE90S4**	**F603_162.9 P90 BX90S4**	489
9.5	1035	2.8	150.4	20000	**F603_150.4 S3 ME3SA4**	**F603_150.4 S3 MX3SA4**	488	**F603_150.4 P90 BE90S4**	**F603_150.4 P90 BX90S4**	489
10.6	925	1.2	134.4	8500	**F413_134.4 S3 ME3SA4**	**F413_134.4 S3 MX3SA4**	480	**F413_134.4 P90 BE90S4**	**F413_134.4 P90 BX90S4**	481
11.0	894	2.0	129.9	12000	**F513_129.9 S3 ME3SA4**	**F513_129.9 S3 MX3SA4**	484	**F513_129.9 P90 BE90S4**	**F513_129.9 P90 BX90S4**	485
13.5	730	1.5	106.0	8500	**F413_106.0 S3 ME3SA4**	**F413_106.0 S3 MX3SA4**	480	**F413_106.0 P90 BE90S4**	**F413_106.0 P90 BX90S4**	481
13.6	723	2.5	105.1	12000	**F513_105.1 S3 ME3SA4**	**F513_105.1 S3 MX3SA4**	484	**F513_105.1 P90 BE90S4**	**F513_105.1 P90 BX90S4**	485
16.4	601	1.0	87.4	6500	**F313_87.4 S3 ME3SA4**	**F313_87.4 S3 MX3SA4**	476	**F313_87.4 P90 BE90S4**	**F313_87.4 P90 BX90S4**	477
16.8	584	1.9	84.9	8500	**F413_84.9 S3 ME3SA4**	**F413_84.9 S3 MX3SA4**	480	**F413_84.9 P90 BE90S4**	**F413_84.9 P90 BX90S4**	481
17.2	573	3.1	83.2	12000	**F513_83.2 S3 ME3SA4**	**F513_83.2 S3 MX3SA4**	484	**F513_83.2 P90 BE90S4**	**F513_83.2 P90 BX90S4**	485
18.1	543	1.1	78.9	6500	**F313_78.9 S3 ME3SA4**	**F313_78.9 S3 MX3SA4**	476	**F313_78.9 P90 BE90S4**	**F313_78.9 P90 BX90S4**	477
20.7	475	1.3	69.1	6500	**F313_69.1 S3 ME3SA4**	**F313_69.1 S3 MX3SA4**	476	**F313_69.1 P90 BE90S4**	**F313_69.1 P90 BX90S4**	477
21.5	458	2.4	66.5	8500	**F413_66.5 S3 ME3SA4**	**F413_66.5 S3 MX3SA4**	480	**F413_66.5 P90 BE90S4**	**F413_66.5 P90 BX90S4**	481
21.9	450	0.9	65.3	4610	**F253_65.3 S3 ME3SA4**	**F253_65.3 S3 MX3SA4**	472	**F253_65.3 P90 BE90S4**	**F253_65.3 P90 BX90S4**	473
22.8	432	1.4	62.8	6500	**F313_62.8 S3 ME3SA4**	**F313_62.8 S3 MX3SA4**	476	**F313_62.8 P90 BE90S4**	**F313_62.8 P90 BX90S4**	477
23.7	415	2.7	60.2	8500	**F413_60.2 S3 ME3SA4**	**F413_60.2 S3 MX3SA4**	480	**F413_60.2 P90 BE90S4**	**F413_60.2 P90 BX90S4**	481
24.5	401	1.0	58.3	4500	**F253_58.3 S3 ME3SA4**	**F253_58.3 S3 MX3SA4**	472	**F253_58.3 P90 BE90S4**	**F253_58.3 P90 BX90S4**	473
27.5	359	1.7	52.1	6500	**F313_52.1 S3 ME3SA4**	**F313_52.1 S3 MX3SA4**	476	**F313_52.1 P90 BE90S4**	**F313_52.1 P90 BX90S4**	477
27.8	354	3.1	51.5	8500	**F413_51.5 S3 ME3SA4**	**F413_51.5 S3 MX3SA4**	480	**F413_51.5 P90 BE90S4**	**F413_51.5 P90 BX90S4**	481
28.2	350	1.1	50.8	4450	**F253_50.8 S3 ME3SA4**	**F253_50.8 S3 MX3SA4**	472	**F253_50.8 P90 BE90S4**	**F253_50.8 P90 BX90S4**	473
29.8	337	3.2	47.9	8500	**F412_47.9 S3 ME3SA4**	**F412_47.9 S3 MX3SA4**	480	**F412_47.9 P90 BE90S4**	**F412_47.9 P90 BX90S4**	481
30	327	1.8	47.5	6500	**F313_47.5 S3 ME3SA4**	**F313_47.5 S3 MX3SA4**	476	**F313_47.5 P90 BE90S4**	**F313_47.5 P90 BX90S4**	477
31	314	1.3	45.6	4400	**F253_45.6 S3 ME3SA4**	**F253_45.6 S3 MX3SA4**	472	**F253_45.6 P90 BE90S4**	**F253_45.6 P90 BX90S4**	473
32	314	1.9	44.6	6500	**F312_44.6 S3 ME3SA4**	**F312_44.6 S3 MX3SA4**	476	**F312_44.6 P90 BE90S4**	**F312_44.6 P90 BX90S4**	477
32	312	1.2	44.4	4470	**F252_44.4 S3 ME3SA4**	**F252_44.4 S3 MX3SA4**	472	**F252_44.4 P90 BE90S4**	**F252_44.4 P90 BX90S4**	473
35	286	1.3	40.7	4410	**F252_40.7 S3 ME3SA4**	**F252_40.7 S3 MX3SA4**	472	**F252_40.7 P90 BE90S4**	**F252_40.7 P90 BX90S4**	473
35	284	2.1	40.4	6500	**F312_40.4 S3 ME3SA4**	**F312_40.4 S3 MX3SA4**	476	**F312_40.4 P90 BE90S4**	**F312_40.4 P90 BX90S4**	477
38	266	0.9	37.9	3050	**F202_37.9 S3 ME3SA4**	**F202_37.9 S3 MX3SA4**	468	**F202_37.9 P90 BE90S4**	**F202_37.9 P90 BX90S4**	469
38	265	2.3	37.7	6500	**F312_37.7 S3 ME3SA4**	**F312_37.7 S3 MX3SA4**	476	**F312_37.7 P90 BE90S4**	**F312_37.7 P90 BX90S4**	477
39	256	1.6	36.4	4330	**F252_36.4 S3 ME3SA4**	**F252_36.4 S3 MX3SA4**	472	**F252_36.4 P90 BE90S4**	**F252_36.4 P90 BX90S4**	473
42	242	2.5	34.4	6500	**F312_34.4 S3 ME3SA4**	**F312_34.4 S3 MX3SA4**	476	**F312_34.4 P90 BE90S4**	**F312_34.4 P90 BX90S4**	477
43	233	1.1	33.1	2980	**F202_33.1 S3 ME3SA4**	**F202_33.1 S3 MX3SA4**	468	**F202_33.1 P90 BE90S4**	**F202_33.1 P90 BX90S4**	469
44	226	1.8	32.2	4240	**F252_32.2 S3 ME3SA4**	**F252_32.2 S3 MX3SA4**	472	**F252_32.2 P90 BE90S4**	**F252_32.2 P90 BX90S4**	473
47	214	1.2	30.4	2930	**F202_30.4 S3 ME3SA4**	**F202_30.4 S3 MX3SA4**	468	**F202_30.4 P90 BE90S4**	**F202_30.4 P90 BX90S4**	469
47	212	2.8	30.1	6500	**F312_30.1 S3 ME3SA4**	**F312_30.1 S3 MX3SA4**	476	**F312_30.1 P90 BE90S4**	**F312_30.1 P90 BX90S4**	477
48	211	1.9	30.0	4190	**F252_30.0 S3 ME3SA4**	**F252_30.0 S3 MX3SA4**	472	**F252_30.0 P90 BE90S4**	**F252_30.0 P90 BX90S4**	473
52	192	3.1	27.3	6500	**F312_27.3 S3 ME3SA4**	**F312_27.3 S3 MX3SA4**	476	**F312_27.3 P90 BE90S4**	**F312_27.3 P90 BX90S4**	477
53	191	2.1	27.2	4100	**F252_27.2 S3 ME3SA4**	**F252_27.2 S3 MX3SA4**	472	**F252_27.2 P90 BE90S4**	**F252_27.2 P90 BX90S4**	473
55	182	1.3	25.9	2840	**F202_25.9 S3 ME3SA4**	**F202_25.9 S3 MX3SA4**	468	**F202_25.9 P90 BE90S4**	**F202_25.9 P90 BX90S4**	469
60	167	2.4	23.8	3990	**F252_23.8 S3 ME3SA4**	**F252_23.8 S3 MX3SA4**	472	**F252_23.8 P90 BE90S4**	**F252_23.8 P90 BX90S4**	473
62	163	1.4	23.1	2780	**F202_23.1 S3 ME3SA4**	**F202_23.1 S3 MX3SA4**	468	**F202_23.1 P90 BE90S4**	**F202_23.1 P90 BX90S4**	469
66	153	2.6	21.8	3920	**F252_21.8 S3 ME3SA4**	**F252_21.8 S3 MX3SA4**	472	**F252_21.8 P90 BE90S4**	**F252_21.8 P90 BX90S4**	473
71	142	1.6	20.2	2690	**F202_20.2 S3 ME3SA4**	**F202_20.2 S3 MX3SA4**	468	**F202_20.2 P90 BE90S4**	**F202_20.2 P90 BX90S4**	469
74	136	1.0	19.3	2170	**F102_19.3 S3 ME3SA4**	**F102_19.3 S3 MX3SA4**	464	**F102_19.3 P90 BE90S4**	**F102_19.3 P90 BX90S4**	465
77	131	3.1	18.6	3780	**F252_18.6 S3 ME3SA4**	**F252_18.6 S3 MX3SA4**	472	**F252_18.6 P90 BE90S4**	**F252_18.6 P90 BX90S4**	473
79	127	1.7	18.1	2620	**F202_18.1 S3 ME3SA4**	**F202_18.1 S3 MX3SA4**	468	**F202_18.1 P90 BE90S4**	**F202_18.1 P90 BX90S4**	469
84	119	1.1	17.0	2110	**F102_17.0 S3 ME3SA4**	**F102_17.0 S3 MX3SA4**	464	**F102_17.0 P90 BE90S4**	**F102_17.0 P90 BX90S4**	465
86	117	3.4	16.6	3670	**F252_16.6 S3 ME3SA4**	**F252_16.6 S3 MX3SA4**	472	**F252_16.6 P90 BE90S4**	**F252_16.6 P90 BX90S4**	473
97	104	2.0	14.8	2500	**F202_14.8 S3 ME3SA4**	**F202_14.8 S3 MX3SA4**	468	**F202_14.8 P90 BE90S4**	**F202_14.8 P90 BX90S4**	469
98	103	1.2	14.6	2050	**F102_14.6 S3 ME3SA4**	**F102_14.6 S3 MX3SA4**	464	**F102_14.6 P90 BE90S4**	**F102_14.6 P90 BX90S4**	465
110	92	1.1	13.0	1980	**F102_13.0 S3 ME3SA4**	**F102_13.0 S3 MX3SA4**	464	**F102_13.0 P90 BE90S4**	**F102_13.0 P90 BX90S4**	465
124	81	1.2	11.5	1920	**F102_11.5 S3 ME3SA4**	**F102_11.5 S3 MX3SA4**	464	**F102_11.5 P90 BE90S4**	**F102_11.5 P90 BX90S4**	465
127	79	2.2	11.2	2310	**F202_11.2 S3 ME3SA4**	**F202_11.2 S3 MX3SA4**	468	**F202_11.2 P90 BE90S4**	**F202_11.2 P90 BX90S4**	469

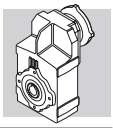


1.1 kW

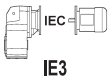
n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IEC IE2	IEC IE3	
143	71	2.3	10.0	2200	**F202_10.0 S3 ME3SA4**	**F202_10.0 S3 MX3SA4**	468	**F202_10.0 P90 BE90S4**	**F202_10.0 P90 BX90S4**	469
146	69	1.3	9.8	1840	**F102_9.8 S3 ME3SA4**	**F102_9.8 S3 MX3SA4**	464	**F102_9.8 P90 BE90S4**	**F102_9.8 P90 BX90S4**	465
164	61	2.5	8.7	2160	**F202_8.7 S3 ME3SA4**	**F202_8.7 S3 MX3SA4**	468	**F202_8.7 P90 BE90S4**	**F202_8.7 P90 BX90S4**	469
167	60	1.4	8.6	1780	**F102_8.6 S3 ME3SA4**	**F102_8.6 S3 MX3SA4**	464	**F102_8.6 P90 BE90S4**	**F102_8.6 P90 BX90S4**	465
183	55	2.6	7.8	2100	**F202_7.8 S3 ME3SA4**	**F202_7.8 S3 MX3SA4**	468	**F202_7.8 P90 BE90S4**	**F202_7.8 P90 BX90S4**	469
193	52	1.5	7.4	1720	**F102_7.4 S3 ME3SA4**	**F102_7.4 S3 MX3SA4**	464	**F102_7.4 P90 BE90S4**	**F102_7.4 P90 BX90S4**	465
223	45	2.9	6.4	1980	**F202_6.4 S3 ME3SA4**	**F202_6.4 S3 MX3SA4**	468	**F202_6.4 P90 BE90S4**	**F202_6.4 P90 BX90S4**	469
245	41	1.9	11.5	1600	**F102_11.5S2ME2SB2**		464	**F102_11.5 P80 BE80B2**		465
252	40	3.6	11.2	1910	**F202_11.2S2ME2SB2**		468	**F202_11.2 P80 BE80B2**		469
290	34	2.1	9.8	1530	**F102_9.8S2ME2SB2**		464	**F102_9.8 P80 BE80B2**		465
330	30	2.2	8.6	1480	**F102_8.6S2ME2SB2**		464	**F102_8.6 P80 BE80B2**		465
382	26	2.4	7.4	1410	**F102_7.4S2ME2SB2**		464	**F102_7.4 P80 BE80B2**		465

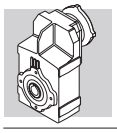
1.1 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE3		IEC IE3	
0.60	15694	0.9	1571.4	55000				
0.66	14285	1.0	1427.9	55000				
0.68	13977	1.0	2098.7	55000			**F904_2099 P90 BXN90S4**	499
0.74	12902	1.1	1937.3	55000			**F904_1937 P90 BXN90S4**	499
0.84	11337	1.2	1702.3	55000			**F904_1702 P90 BXN90S4**	499
0.91	10465	1.3	1571.4	55000			**F904_1571 P90 BXN90S4**	499
1.0	9510	1.5	1427.9	55000			**F904_1428 P90 BXN90S4**	499
1.1	8778	1.6	1318.1	55000			**F904_1318 P90 BXN90S4**	499
1.1	8507	0.9	1277.3	45000			**F804_1277 P90 BXN90S4**	496
1.2	8025	1.7	1204.9	55000			**F904_1205 P90 BXN90S4**	499
1.2	7634	1.0	1146.2	45000			**F804_1146 P90 BXN90S4**	496
1.3	7408	1.9	1112.3	55000			**F904_1112 P90 BXN90S4**	499
1.4	7047	1.1	1058.1	45000			**F804_1058 P90 BXN90S4**	496
1.5	6567	2.1	986.0	55000			**F904_986.0 P90 BXN90S4**	499
1.5	6474	1.2	972.0	45000			**F804_972.0 P90 BXN90S4**	496
1.6	6062	2.3	910.2	55000			**F904_910.2 P90 BXN90S4**	499
1.6	5976	1.3	897.3	45000			**F804_897.3 P90 BXN90S4**	496
1.7	5476	0.9	822.2	35000			**F704_822.2 P90 BXN90S4**	493
1.8	5158	1.6	774.4	45000			**F804_774.4 P90 BXN90S4**	496
1.8	5151	2.7	773.4	55000			**F904_773.4 P90 BXN90S4**	499
1.9	5055	1.0	759.0	35000			**F704_759.0 P90 BXN90S4**	493
1.9	4893	1.6	489.1	45000				
2.0	4761	1.7	714.9	45000			**F804_714.9 P90 BXN90S4**	496
2.0	4755	2.9	714.0	55000			**F904_714.0 P90 BXN90S4**	499
2.1	4517	1.8	451.5	45000				
2.2	4378	1.1	657.4	35000			**F704_657.4 P90 BXN90S4**	493
2.3	4167	3.4	625.6	55000			**F904_625.6 P90 BXN90S4**	499
2.3	4068	2.0	610.9	45000			**F804_610.9 P90 BXN90S4**	496
2.4	4042	1.2	606.8	35000			**F704_606.8 P90 BXN90S4**	493
2.5	3846	3.6	577.5	55000			**F904_577.5 P90 BXN90S4**	499
2.5	3755	2.1	563.9	45000			**F804_563.9 P90 BXN90S4**	496
2.8	3399	1.5	510.4	35000			**F704_510.4 P90 BXN90S4**	493
2.9	3262	0.9	489.8	20000			**F604_489.8 P90 BXN90S4**	489
2.9	3258	2.5	489.1	45000			**F804_489.1 P90 BXN90S4**	496
3.0	3138	1.6	471.2	35000			**F704_471.2 P90 BXN90S4**	493
3.2	3007	2.7	451.5	45000			**F804_451.5 P90 BXN90S4**	496
3.3	2881	1.0	432.6	20000			**F604_432.6 P90 BXN90S4**	489
3.5	2687	1.9	403.5	35000			**F704_403.5 P90 BXN90S4**	493



1.1 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE3		 IE3	
3.6	2660	1.1	399.3	20000			**F604_399.3 P90 BXN90S4**	489
3.7	2552	3.1	383.2	45000			**F804_383.2 P90 BXN90S4**	496
3.8	2481	2.0	372.5	35000			**F704_372.5 P90 BXN90S4**	493
4.0	2356	3.4	353.7	45000			**F804_353.7 P90 BXN90S4**	496
4.2	2276	1.3	341.7	20000			**F604_341.7 P90 BXN90S4**	489
4.5	2100	1.4	315.4	20000			**F604_315.4 P90 BXN90S4**	489
4.7	2027	2.5	304.3	35000			**F704_304.3 P90 BXN90S4**	493
5.0	1968	0.9	285.9	12000			**F513_285.9 P90 BXN90S4**	485
5.1	1871	2.7	280.9	35000			**F704_280.9 P90 BXN90S4**	493
5.1	1932	1.5	280.7	20000			**F603_280.7 P90 BXN90S4**	489
5.5	1804	1.0	262.1	12000			**F513_262.1 P90 BXN90S4**	485
5.5	1783	1.6	259.1	20000			**F603_259.1 P90 BXN90S4**	489
6.0	1651	1.1	239.8	12000			**F513_239.8 P90 BXN90S4**	485
6.1	1623	1.8	235.8	20000			**F603_235.8 P90 BXN90S4**	489
6.1	1562	3.2	234.6	35000			**F704_234.6 P90 BXN90S4**	493
6.6	1498	1.9	217.6	20000			**F603_217.6 P90 BXN90S4**	489
6.6	1492	1.2	216.9	12000			**F513_216.9 P90 BXN90S4**	485
6.6	1442	3.5	216.5	35000			**F704_216.5 P90 BXN90S4**	493
7.1	1393	1.3	202.4	12000			**F513_202.4 P90 BXN90S4**	485
7.1	1386	2.1	201.4	20000			**F603_201.4 P90 BXN90S4**	489
7.7	1279	2.3	185.9	20000			**F603_185.9 P90 BXN90S4**	489
7.9	1244	0.9	180.7	8500			**F413_180.7 P90 BXN90S4**	481
8.5	1161	0.9	168.7	8500			**F413_168.7 P90 BXN90S4**	481
8.6	1140	1.6	165.6	12000			**F513_165.6 P90 BXN90S4**	485
8.8	1121	2.6	162.9	20000			**F603_162.9 P90 BXN90S4**	489
9.5	1035	2.8	150.4	20000			**F603_150.4 P90 BXN90S4**	489
10.6	925	1.2	134.4	8500			**F413_134.4 P90 BXN90S4**	481
11.0	894	2.0	129.9	12000			**F513_129.9 P90 BXN90S4**	485
13.5	730	1.5	106.0	8500			**F413_106.0 P90 BXN90S4**	481
13.6	723	2.5	105.1	12000			**F513_105.1 P90 BXN90S4**	485
16.4	601	1.0	87.4	6500			**F313_87.4 P90 BXN90S4**	477
16.8	584	1.9	84.9	8500			**F413_84.9 P90 BXN90S4**	481
17.2	573	3.1	83.2	12000			**F513_83.2 P90 BXN90S4**	485
18.1	543	1.1	78.9	6500			**F313_78.9 P90 BXN90S4**	477
20.7	475	1.3	69.1	6500			**F313_69.1 P90 BXN90S4**	477
21.5	458	2.4	66.5	8500			**F413_66.5 P90 BXN90S4**	481
21.9	450	0.9	65.3	4610			**F253_65.3 P90 BXN90S4**	473
22.8	432	1.4	62.8	6500			**F313_62.8 P90 BXN90S4**	477
23.7	415	2.7	60.2	8500			**F413_60.2 P90 BXN90S4**	481
24.5	401	1.0	58.3	4500			**F253_58.3 P90 BXN90S4**	473
27.5	359	1.7	52.1	6500			**F313_52.1 P90 BXN90S4**	477
27.8	354	3.1	51.5	8500			**F413_51.5 P90 BXN90S4**	481
28.2	350	1.1	50.8	4450			**F253_50.8 P90 BXN90S4**	473
29.8	337	3.2	47.9	8500			**F412_47.9 P90 BXN90S4**	481
30	327	1.8	47.5	6500			**F313_47.5 P90 BXN90S4**	477
31	314	1.3	45.6	4400			**F253_45.6 P90 BXN90S4**	473
32	314	1.9	44.6	6500			**F312_44.6 P90 BXN90S4**	477
32	312	1.2	44.4	4470			**F252_44.4 P90 BXN90S4**	473
35	286	1.3	40.7	4410			**F252_40.7 P90 BXN90S4**	473
35	284	2.1	40.4	6500			**F312_40.4 P90 BXN90S4**	477
38	266	0.9	37.9	3050			**F202_37.9 P90 BXN90S4**	469
38	265	2.3	37.7	6500			**F312_37.7 P90 BXN90S4**	477
39	256	1.6	36.4	4330			**F252_36.4 P90 BXN90S4**	473
42	242	2.5	34.4	6500			**F312_34.4 P90 BXN90S4**	477
43	233	1.1	33.1	2980			**F202_33.1 P90 BXN90S4**	469
44	226	1.8	32.2	4240			**F252_32.2 P90 BXN90S4**	473
47	214	1.2	30.4	2930			**F202_30.4 P90 BXN90S4**	469

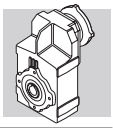


1.1 kW

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**	477
48	211	1.9	30.0	4190			**F252_30.0 P90 BXN90S4**	473
52	192	3.1	27.3	6500			**F312_27.3 P90 BXN90S4**	477
53	191	2.1	27.2	4100			**F252_27.2 P90 BXN90S4**	473
55	182	1.3	25.9	2840			**F202_25.9 P90 BXN90S4**	469
60	167	2.4	23.8	3990			**F252_23.8 P90 BXN90S4**	473
62	163	1.4	23.1	2780			**F202_23.1 P90 BXN90S4**	469
66	153	2.6	21.8	3920			**F252_21.8 P90 BXN90S4**	473
71	142	1.6	20.2	2690			**F202_20.2 P90 BXN90S4**	469
74	136	1.0	19.3	2170			**F102_19.3 P90 BXN90S4**	465
77	131	3.1	18.6	3780			**F252_18.6 P90 BXN90S4**	473
79	127	1.7	18.1	2620			**F202_18.1 P90 BXN90S4**	469
84	119	1.1	17.0	2110			**F102_17.0 P90 BXN90S4**	465
86	117	3.4	16.6	3670			**F252_16.6 P90 BXN90S4**	473
97	104	2.0	14.8	2500			**F202_14.8 P90 BXN90S4**	469
98	103	1.2	14.6	2050			**F102_14.6 P90 BXN90S4**	465
110	92	1.1	13.0	1980			**F102_13.0 P90 BXN90S4**	465
124	81	1.2	11.5	1920			**F102_11.5 P90 BXN90S4**	465
127	79	2.2	11.2	2310			**F202_11.2 P90 BXN90S4**	469
143	71	2.3	10.0	2200			**F202_10.0 P90 BXN90S4**	469
146	69	1.3	9.8	1840			**F102_9.8 P90 BXN90S4**	465
164	61	2.5	8.7	2160			**F202_8.7 P90 BXN90S4**	469
167	60	1.4	8.6	1780			**F102_8.6 P90 BXN90S4**	465
183	55	2.6	7.8	2100			**F202_7.8 P90 BXN90S4**	469
193	52	1.5	7.4	1720			**F102_7.4 P90 BXN90S4**	465
223	45	2.9	6.4	1980			**F202_6.4 P90 BXN90S4**	469
245	41	1.9	11.5	1600				
252	40	3.6	11.2	1910				
290	34	2.1	9.8	1530				
330	30	2.2	8.6	1480				
382	26	2.4	7.4	1410				

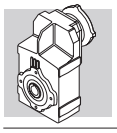
1.5 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IEC IE2	IEC IE3	
0.8	15321	0.9	1702.3	55000	**F904_1702 S3 ME3SB4**	**F904_1702 S3 MX3SB4**	498	**F904_1702 P90 BE90LA4**	**F904_1702 P90 BX90LA4**	499
0.9	14142	1.0	1571.4	55000	**F904_1571 S3 ME3SB4**	**F904_1571 S3 MX3SB4**	498	**F904_1571 P90 BE90LA4**	**F904_1571 P90 BX90LA4**	499
1.0	12851	1.1	1427.9	55000	**F904_1428 S3 ME3SB4**	**F904_1428 S3 MX3SB4**	498	**F904_1428 P90 BE90LA4**	**F904_1428 P90 BX90LA4**	499
1.1	11863	1.2	1318.1	55000	**F904_1318 S3 ME3SB4**	**F904_1318 S3 MX3SB4**	498	**F904_1318 P90 BE90LA4**	**F904_1318 P90 BX90LA4**	499
1.2	10845	1.3	1204.9	55000	**F904_1205 S3 ME3SB4**	**F904_1205 S3 MX3SB4**	498	**F904_1205 P90 BE90LA4**	**F904_1205 P90 BX90LA4**	499
1.3	10010	1.4	1112.3	55000	**F904_1112 S3 ME3SB4**	**F904_1112 S3 MX3SB4**	498	**F904_1112 P90 BE90LA4**	**F904_1112 P90 BX90LA4**	499
1.5	8874	1.6	986.0	55000	**F904_986.0 S3 ME3SB4**	**F904_986.0 S3 MX3SB4**	498	**F904_986.0 P90 BE90LA4**	**F904_986.0 P90 BX90LA4**	499
1.5	8748	0.9	972.0	45000	**F804_972.0 S3 ME3SB4**	**F804_972.0 S3 MX3SB4**	495	**F804_972.0 P90 BE90LA4**	**F804_972.0 P90 BX90LA4**	496
1.6	8192	1.7	910.2	55000	**F904_910.2 S3 ME3SB4**	**F904_910.2 S3 MX3SB4**	498	**F904_910.2 P90 BE90LA4**	**F904_910.2 P90 BX90LA4**	499
1.6	8075	1.0	897.3	45000	**F804_897.3 S3 ME3SB4**	**F804_897.3 S3 MX3SB4**	495	**F804_897.3 P90 BE90LA4**	**F804_897.3 P90 BX90LA4**	496
1.8	6970	1.1	774.4	45000	**F804_774.4 S3 ME3SB4**	**F804_774.4 S3 MX3SB4**	495	**F804_774.4 P90 BE90LA4**	**F804_774.4 P90 BX90LA4**	496
1.8	6961	2.0	773.4	55000	**F904_773.4 S3 ME3SB4**	**F904_773.4 S3 MX3SB4**	498	**F904_773.4 P90 BE90LA4**	**F904_773.4 P90 BX90LA4**	499
2.0	6434	1.2	714.9	45000	**F804_714.9 S3 ME3SB4**	**F804_714.9 S3 MX3SB4**	495	**F804_714.9 P90 BE90LA4**	**F804_714.9 P90 BX90LA4**	496
2.0	6426	2.2	714.0	55000	**F904_714.0 S3 ME3SB4**	**F904_714.0 S3 MX3SB4**	498	**F904_714.0 P90 BE90LA4**	**F904_714.0 P90 BX90LA4**	499
2.3	5631	2.5	625.6	55000	**F904_625.6 S3 ME3SB4**	**F904_625.6 S3 MX3SB4**	498	**F904_625.6 P90 BE90LA4**	**F904_625.6 P90 BX90LA4**	499
2.3	5498	1.5	610.9	45000	**F804_610.9 S3 ME3SB4**	**F804_610.9 S3 MX3SB4**	495	**F804_610.9 P90 BE90LA4**	**F804_610.9 P90 BX90LA4**	496
2.4	5462	0.9	606.8	35000	**F704_606.8 S3 ME3SB4**	**F704_606.8 S3 MX3SB4**	492	**F704_606.8 P90 BE90LA4**	**F704_606.8 P90 BX90LA4**	493
2.5	5197	2.7	577.5	55000	**F904_577.5 S3 ME3SB4**	**F904_577.5 S3 MX3SB4**	498	**F904_577.5 P90 BE90LA4**	**F904_577.5 P90 BX90LA4**	499
2.5	5075	1.6	563.9	45000	**F804_563.9 S3 ME3SB4**	**F804_563.9 S3 MX3SB4**	495	**F804_563.9 P90 BE90LA4**	**F804_563.9 P90 BX90LA4**	496



1.5 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IEC IE2	IEC IE3	
2.8	4594	1.1	510.4	35000	F704_510.4 S3 ME3SB4	F704_510.4 S3 MX3SB4	492	F704_510.4 P90 BE90LA4	F704_510.4 P90 BX90LA4	493
2.9	4460	3.1	495.6	55000	F904_495.6 S3 ME3SB4	F904_495.6 S3 MX3SB4	498	F904_495.6 P90 BE90LA4	F904_495.6 P90 BX90LA4	499
2.9	4402	1.8	489.1	45000	F804_489.1 S3 ME3SB4	F804_489.1 S3 MX3SB4	495	F804_489.1 P90 BE90LA4	F804_489.1 P90 BX90LA4	496
3.0	4240	1.2	471.2	35000	F704_471.2 S3 ME3SB4	F704_471.2 S3 MX3SB4	492	F704_471.2 P90 BE90LA4	F704_471.2 P90 BX90LA4	493
3.1	4117	3.4	457.5	55000	F904_457.5 S3 ME3SB4	F904_457.5 S3 MX3SB4	498	F904_457.5 P90 BE90LA4	F904_457.5 P90 BX90LA4	499
3.2	4063	2.0	451.5	45000	F804_451.5 S3 ME3SB4	F804_451.5 S3 MX3SB4	495	F804_451.5 P90 BE90LA4	F804_451.5 P90 BX90LA4	496
3.5	3632	1.4	403.5	35000	F704_403.5 S3 ME3SB4	F704_403.5 S3 MX3SB4	492	F704_403.5 P90 BE90LA4	F704_403.5 P90 BX90LA4	493
3.7	3448	2.3	383.2	45000	F804_383.2 S3 ME3SB4	F804_383.2 S3 MX3SB4	495	F804_383.2 P90 BE90LA4	F804_383.2 P90 BX90LA4	496
3.8	3352	1.5	372.5	35000	F704_372.5 S3 ME3SB4	F704_372.5 S3 MX3SB4	492	F704_372.5 P90 BE90LA4	F704_372.5 P90 BX90LA4	493
4.0	3183	2.5	353.7	45000	F804_353.7 S3 ME3SB4	F804_353.7 S3 MX3SB4	495	F804_353.7 P90 BE90LA4	F804_353.7 P90 BX90LA4	496
4.2	3075	0.9	341.7	20000	F604_341.7 S3 ME3SB4	F604_341.7 S3 MX3SB4	488	F604_341.7 P90 BE90LA4	F604_341.7 P90 BX90LA4	489
4.5	2839	1.0	315.4	20000	F604_315.4 S3 ME3SB4	F604_315.4 S3 MX3SB4	488	F604_315.4 P90 BE90LA4	F604_315.4 P90 BX90LA4	489
4.7	2739	1.8	304.3	35000	F704_304.3 S3 ME3SB4	F704_304.3 S3 MX3SB4	492	F704_304.3 P90 BE90LA4	F704_304.3 P90 BX90LA4	493
4.8	2670	3.0	296.7	45000	F804_296.7 S3 ME3SB4	F804_296.7 S3 MX3SB4	495	F804_296.7 P90 BE90LA4	F804_296.7 P90 BX90LA4	496
5.1	2528	2.0	280.9	35000	F704_280.9 S3 ME3SB4	F704_280.9 S3 MX3SB4	492	F704_280.9 P90 BE90LA4	F704_280.9 P90 BX90LA4	493
5.1	2610	1.1	280.7	20000	F603_280.7 S3 ME3SB4	F603_280.7 S3 MX3SB4	488	F603_280.7 P90 BE90LA4	F603_280.7 P90 BX90LA4	489
5.2	2465	3.2	273.9	45000	F804_273.9 S3 ME3SB4	F804_273.9 S3 MX3SB4	495	F804_273.9 P90 BE90LA4	F804_273.9 P90 BX90LA4	496
5.5	2409	1.2	259.1	20000	F603_259.1 S3 ME3SB4	F603_259.1 S3 MX3SB4	488	F603_259.1 P90 BE90LA4	F603_259.1 P90 BX90LA4	489
6.1	2193	1.3	235.8	20000	F603_235.8 S3 ME3SB4	F603_235.8 S3 MX3SB4	488	F603_235.8 P90 BE90LA4	F603_235.8 P90 BX90LA4	489
6.1	2111	2.4	234.6	35000	F704_234.6 S3 ME3SB4	F704_234.6 S3 MX3SB4	492	F704_234.6 P90 BE90LA4	F704_234.6 P90 BX90LA4	493
6.6	2024	1.4	217.6	20000	F603_217.6 S3 ME3SB4	F603_217.6 S3 MX3SB4	488	F603_217.6 P90 BE90LA4	F603_217.6 P90 BX90LA4	489
6.6	1949	2.6	216.5	35000	F704_216.5 S3 ME3SB4	F704_216.5 S3 MX3SB4	492	F704_216.5 P90 BE90LA4	F704_216.5 P90 BX90LA4	493
7.1	1882	1.0	202.4	12000	F513_202.4 S3 ME3SB4	F513_202.4 S3 MX3SB4	484	F513_202.4 P90 BE90LA4	F513_202.4 P90 BX90LA4	485
7.1	1873	1.5	201.4	20000	F603_201.4 S3 ME3SB4	F603_201.4 S3 MX3SB4	488	F603_201.4 P90 BE90LA4	F603_201.4 P90 BX90LA4	489
7.3	1823	2.7	196.0	35000	F703_196.0 S3 ME3SB4	F703_196.0 S3 MX3SB4	492	F703_196.0 P90 BE90LA4	F703_196.0 P90 BX90LA4	493
7.7	1729	1.7	185.9	20000	F603_185.9 S3 ME3SB4	F603_185.9 S3 MX3SB4	488	F603_185.9 P90 BE90LA4	F603_185.9 P90 BX90LA4	489
7.9	1683	3.0	180.9	35000	F703_180.9 S3 ME3SB4	F703_180.9 S3 MX3SB4	492	F703_180.9 P90 BE90LA4	F703_180.9 P90 BX90LA4	493
8.6	1550	3.2	166.7	35000	F703_166.7 S3 ME3SB4	F703_166.7 S3 MX3SB4	492	F703_166.7 P90 BE90LA4	F703_166.7 P90 BX90LA4	493
8.6	1540	1.2	165.6	12000	F513_165.6 S3 ME3SB4	F513_165.6 S3 MX3SB4	484	F513_165.6 P90 BE90LA4	F513_165.6 P90 BX90LA4	485
8.8	1515	1.9	162.9	20000	F603_162.9 S3 ME3SB4	F603_162.9 S3 MX3SB4	488	F603_162.9 P90 BE90LA4	F603_162.9 P90 BX90LA4	489
9.3	1431	3.5	153.8	35000	F703_153.8 S3 ME3SB4	F703_153.8 S3 MX3SB4	492	F703_153.8 P90 BE90LA4	F703_153.8 P90 BX90LA4	493
9.5	1398	2.1	150.4	20000	F603_150.4 S3 ME3SB4	F603_150.4 S3 MX3SB4	488	F603_150.4 P90 BE90LA4	F603_150.4 P90 BX90LA4	489
10.6	1250	0.9	134.4	8500	F413_134.4 S3 ME3SB4	F413_134.4 S3 MX3SB4	480	F413_134.4 P90 BE90LA4	F413_134.4 P90 BX90LA4	481
11.0	1214	2.4	130.5	20000	F603_130.5 S3 ME3SB4	F603_130.5 S3 MX3SB4	488	F603_130.5 P90 BE90LA4	F603_130.5 P90 BX90LA4	489
11.0	1208	1.5	129.9	12000	F513_129.9 S3 ME3SB4	F513_129.9 S3 MX3SB4	484	F513_129.9 P90 BE90LA4	F513_129.9 P90 BX90LA4	485
11.9	1120	2.6	120.5	20000	F603_120.5 S3 ME3SB4	F603_120.5 S3 MX3SB4	488	F603_120.5 P90 BE90LA4	F603_120.5 P90 BX90LA4	489
13.4	989	2.9	106.4	20000	F603_106.4 S3 ME3SB4	F603_106.4 S3 MX3SB4	488	F603_106.4 P90 BE90LA4	F603_106.4 P90 BX90LA4	489
13.5	986	1.1	106.0	8500	F413_106.0 S3 ME3SB4	F413_106.0 S3 MX3SB4	480	F413_106.0 P90 BE90LA4	F413_106.0 P90 BX90LA4	481
13.6	977	1.8	105.1	12000	F513_105.1 S3 ME3SB4	F513_105.1 S3 MX3SB4	484	F513_105.1 P90 BE90LA4	F513_105.1 P90 BX90LA4	485
14.6	913	3.2	98.2	20000	F603_98.2 S3 ME3SB4	F603_98.2 S3 MX3SB4	488	F603_98.2 P90 BE90LA4	F603_98.2 P90 BX90LA4	489
16.8	789	1.4	84.9	8500	F413_84.9 S3 ME3SB4	F413_84.9 S3 MX3SB4	480	F413_84.9 P90 BE90LA4	F413_84.9 P90 BX90LA4	481
17.2	774	2.3	83.2	12000	F513_83.2 S3 ME3SB4	F513_83.2 S3 MX3SB4	484	F513_83.2 P90 BE90LA4	F513_83.2 P90 BX90LA4	485
20.7	642	0.9	69.1	6500	F313_69.1 S3 ME3SB4	F313_69.1 S3 MX3SB4	476	F313_69.1 P90 BE90LA4	F313_69.1 P90 BX90LA4	477
21.5	618	1.8	66.5	8500	F413_66.5 S3 ME3SB4	F413_66.5 S3 MX3SB4	480	F413_66.5 P90 BE90LA4	F413_66.5 P90 BX90LA4	481
21.7	612	2.9	65.8	12000	F513_65.8 S3 ME3SB4	F513_65.8 S3 MX3SB4	484	F513_65.8 P90 BE90LA4	F513_65.8 P90 BX90LA4	485
22.8	584	1.0	62.8	6500	F313_62.8 S3 ME3SB4	F313_62.8 S3 MX3SB4	476	F313_62.8 P90 BE90LA4	F313_62.8 P90 BX90LA4	477
23.7	560	2.0	60.2	8500	F413_60.2 S3 ME3SB4	F413_60.2 S3 MX3SB4	480	F413_60.2 P90 BE90LA4	F413_60.2 P90 BX90LA4	481
27.5	484	1.2	52.1	6500	F313_52.1 S3 ME3SB4	F313_52.1 S3 MX3SB4	476	F313_52.1 P90 BE90LA4	F313_52.1 P90 BX90LA4	477
27.8	479	2.3	51.5	8500	F413_51.5 S3 ME3SB4	F413_51.5 S3 MX3SB4	480	F413_51.5 P90 BE90LA4	F413_51.5 P90 BX90LA4	481
29.8	455	2.4	47.9	8500	F412_47.9 S3 ME3SB4	F412_47.9 S3 MX3SB4	480	F412_47.9 P90 BE90LA4	F412_47.9 P90 BX90LA4	481
30	442	1.3	47.5	6500	F313_47.5 S3 ME3SB4	F313_47.5 S3 MX3SB4	476	F313_47.5 P90 BE90LA4	F313_47.5 P90 BX90LA4	477
31	424	0.9	45.6	3880	F253_45.6 S3 ME3SB4	F253_45.6 S3 MX3SB4	472	F253_45.6 P90 BE90LA4	F253_45.6 P90 BX90LA4	473
32	424	1.4	44.6	6500	F312_44.6 S3 ME3SB4	F312_44.6 S3 MX3SB4	476	F312_44.6 P90 BE90LA4	F312_44.6 P90 BX90LA4	477
32	422	0.9	44.4	4180	F252_44.4 S3 ME3SB4	F252_44.4 S3 MX3SB4	472	F252_44.4 P90 BE90LA4	F252_44.4 P90 BX90LA4	473
35	387	1.0	40.7	3970	F252_40.7 S3 ME3SB4	F252_40.7 S3 MX3SB4	472	F252_40.7 P90 BE90LA4	F252_40.7 P90 BX90LA4	473
35	383	1.6	40.4	6500	F312_40.4 S3 ME3SB4	F312_40.4 S3 MX3SB4	476	F312_40.4 P90 BE90LA4	F312_40.4 P90 BX90LA4	477
37	363	3.0	38.2	8500	F412_38.2 S3 ME3SB4	F412_38.2 S3 MX3SB4	480	F412_38.2 P90 BE90LA4	F412_38.2 P90 BX90LA4	481

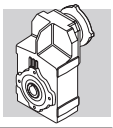


1.5 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IEC IE2	IEC IE3	
38	358	1.7	37.7	6500	**F312_37.7 S3 ME3SB4**	**F312_37.7 S3 MX3SB4**	476	**F312_37.7 P90 BE90LA4**	**F312_37.7 P90 BX90LA4**	477
39	346	1.2	36.4	3940	**F252_36.4 S3 ME3SB4**	**F252_36.4 S3 MX3SB4**	472	**F252_36.4 P90 BE90LA4**	**F252_36.4 P90 BX90LA4**	473
42	326	1.8	34.4	6500	**F312_34.4 S3 ME3SB4**	**F312_34.4 S3 MX3SB4**	476	**F312_34.4 P90 BE90LA4**	**F312_34.4 P90 BX90LA4**	477
44	306	1.3	32.2	3890	**F252_32.2 S3 ME3SB4**	**F252_32.2 S3 MX3SB4**	472	**F252_32.2 P90 BE90LA4**	**F252_32.2 P90 BX90LA4**	473
47	286	2.1	30.1	6500	**F312_30.1 S3 ME3SB4**	**F312_30.1 S3 MX3SB4**	476	**F312_30.1 P90 BE90LA4**	**F312_30.1 P90 BX90LA4**	477
48	285	1.4	30.0	3860	**F252_30.0 S3 ME3SB4**	**F252_30.0 S3 MX3SB4**	472	**F252_30.0 P90 BE90LA4**	**F252_30.0 P90 BX90LA4**	473
52	259	2.3	27.3	6500	**F312_27.3 S3 ME3SB4**	**F312_27.3 S3 MX3SB4**	476	**F312_27.3 P90 BE90LA4**	**F312_27.3 P90 BX90LA4**	477
53	258	1.5	27.2	3810	**F252_27.2 S3 ME3SB4**	**F252_27.2 S3 MX3SB4**	472	**F252_27.2 P90 BE90LA4**	**F252_27.2 P90 BX90LA4**	473
55	246	1.0	25.9	2640	**F202_25.9 S3 ME3SB4**	**F202_25.9 S3 MX3SB4**	468	**F202_25.9 P90 BE90LA4**	**F202_25.9 P90 BX90LA4**	469
60	226	1.8	23.8	3730	**F252_23.8 S3 ME3SB4**	**F252_23.8 S3 MX3SB4**	472	**F252_23.8 P90 BE90LA4**	**F252_23.8 P90 BX90LA4**	473
61	222	2.7	23.4	6480	**F312_23.4 S3 ME3SB4**	**F312_23.4 S3 MX3SB4**	476	**F312_23.4 P90 BE90LA4**	**F312_23.4 P90 BX90LA4**	477
62	220	1.1	23.1	2600	**F202_23.1 S3 ME3SB4**	**F202_23.1 S3 MX3SB4**	468	**F202_23.1 P90 BE90LA4**	**F202_23.1 P90 BX90LA4**	469
66	207	1.9	21.8	3680	**F252_21.8 S3 ME3SB4**	**F252_21.8 S3 MX3SB4**	472	**F252_21.8 P90 BE90LA4**	**F252_21.8 P90 BX90LA4**	473
68	201	3.0	21.1	6320	**F312_21.1 S3 ME3SB4**	**F312_21.1 S3 MX3SB4**	476	**F312_21.1 P90 BE90LA4**	**F312_21.1 P90 BX90LA4**	477
71	191	1.2	20.2	2530	**F202_20.2 S3 ME3SB4**	**F202_20.2 S3 MX3SB4**	468	**F202_20.2 P90 BE90LA4**	**F202_20.2 P90 BX90LA4**	469
77	177	2.3	18.6	3570	**F252_18.6 S3 ME3SB4**	**F252_18.6 S3 MX3SB4**	472	**F252_18.6 P90 BE90LA4**	**F252_18.6 P90 BX90LA4**	473
77	176	3.4	18.5	6110	**F312_18.5 S3 ME3SB4**	**F312_18.5 S3 MX3SB4**	476	**F312_18.5 P90 BE90LA4**	**F312_18.5 P90 BX90LA4**	477
79	172	1.2	18.1	2480	**F202_18.1 S3 ME3SB4**	**F202_18.1 S3 MX3SB4**	468	**F202_18.1 P90 BE90LA4**	**F202_18.1 P90 BX90LA4**	469
86	158	2.5	16.6	3490	**F252_16.6 S3 ME3SB4**	**F252_16.6 S3 MX3SB4**	472	**F252_16.6 P90 BE90LA4**	**F252_16.6 P90 BX90LA4**	473
97	141	1.4	14.8	2380	**F202_14.8 S3 ME3SB4**	**F202_14.8 S3 MX3SB4**	468	**F202_14.8 P90 BE90LA4**	**F202_14.8 P90 BX90LA4**	469
99	137	2.9	14.5	3390	**F252_14.5 S3 ME3SB4**	**F252_14.5 S3 MX3SB4**	472	**F252_14.5 P90 BE90LA4**	**F252_14.5 P90 BX90LA4**	473
110	123	3.2	13.0	3310	**F252_13.0 S3 ME3SB4**	**F252_13.0 S3 MX3SB4**	472	**F252_13.0 P90 BE90LA4**	**F252_13.0 P90 BX90LA4**	473
124	110	0.9	11.5	1160	**F102_11.5 S3 ME3SB4**	**F102_11.5 S3 MX3SB4**	464	**F102_11.5 P90 BE90LA4**	**F102_11.5 P90 BX90LA4**	465
127	107	1.7	11.2	2220	**F202_11.2 S3 ME3SB4**	**F202_11.2 S3 MX3SB4**	468	**F202_11.2 P90 BE90LA4**	**F202_11.2 P90 BX90LA4**	469
143	95	1.7	10.0	2160	**F202_10.0 S3 ME3SB4**	**F202_10.0 S3 MX3SB4**	468	**F202_10.0 P90 BE90LA4**	**F202_10.0 P90 BX90LA4**	469
146	93	1.0	9.8	1760	**F102_9.8 S3 ME3SB4**	**F102_9.8 S3 MX3SB4**	464	**F102_9.8 P90 BE90LA4**	**F102_9.8 P90 BX90LA4**	465
153	89	3.0	9.4	3070	**F252_9.4 S3 ME3SB4**	**F252_9.4 S3 MX3SB4**	472	**F252_9.4 P90 BE90LA4**	**F252_9.4 P90 BX90LA4**	473
164	83	1.9	8.7	2090	**F202_8.7 S3 ME3SB4**	**F202_8.7 S3 MX3SB4**	468	**F202_8.7 P90 BE90LA4**	**F202_8.7 P90 BX90LA4**	469
167	82	1.0	8.6	1710	**F102_8.6 S3 ME3SB4**	**F102_8.6 S3 MX3SB4**	464	**F102_8.6 P90 BE90LA4**	**F102_8.6 P90 BX90LA4**	465
170	80	3.3	8.4	2980	**F252_8.4 S3 ME3SB4**	**F252_8.4 S3 MX3SB4**	472	**F252_8.4 P90 BE90LA4**	**F252_8.4 P90 BX90LA4**	473
183	74	1.9	7.8	2030	**F202_7.8 S3 ME3SB4**	**F202_7.8 S3 MX3SB4**	468	**F202_7.8 P90 BE90LA4**	**F202_7.8 P90 BX90LA4**	469
193	70	1.1	7.4	1650	**F102_7.4 S3 ME3SB4**	**F102_7.4 S3 MX3SB4**	464	**F102_7.4 P90 BE90LA4**	**F102_7.4 P90 BX90LA4**	465
223	61	2.1	6.4	1930	**F202_6.4 S3 ME3SB4**	**F202_6.4 S3 MX3SB4**	468	**F202_6.4 P90 BE90LA4**	**F202_6.4 P90 BX90LA4**	469
247	55	1.4	11.5	1560	**F102_11.5 S3 ME3SA2**		464	**F102_11.5 P90 BE90SA2**		465
254	54	2.6	11.2	1860	**F202_11.2 S3 ME3SA2**		468	**F202_11.2 P90 BE90SA2**		469
292	47	1.6	9.8	1490	**F102_9.8 S3 ME3SA2**		464	**F102_9.8 P90 BE90SA2**		465
327	42	3.0	8.7	1740	**F202_8.7 S3 ME3SA2**		468	**F202_8.7 P90 BE90SA2**		469
333	41	1.6	8.6	1440	**F102_8.6 S3 ME3SA2**		464	**F102_8.6 P90 BE90SA2**		465
364	37	3.1	7.8	1680	**F202_7.8 S3 ME3SA2**		468	**F202_7.8 P90 BE90SA2**		469
386	35	1.8	7.4	1380	**F102_7.4 S3 ME3SA2**		464	**F102_7.4 P90 BE90SA2**		465
445	31	3.4	6.4	1590	**F202_6.4 S3 ME3SA2**		468	**F202_6.4 P90 BE90SA2**		469

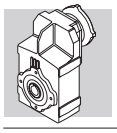
1.5 kW

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**	499
0.9	14142	1.0	1571.4	55000			**F904_1571 P90 BXN90L4**	499
1.0	12851	1.1	1427.9	55000			**F904_1428 P90 BXN90L4**	499
1.1	11863	1.2	1318.1	55000			**F904_1318 P90 BXN90L4**	499
1.2	10845	1.3	1204.9	55000			**F904_1205 P90 BXN90L4**	499
1.3	10010	1.4	1112.3	55000			**F904_1112 P90 BXN90L4**	499
1.5	8874	1.6	986.0	55000			**F904_986.0 P90 BXN90L4**	499
1.5	8748	0.9	972.0	45000			**F804_972.0 P90 BXN90L4**	496
1.6	8192	1.7	910.2	55000			**F904_910.2 P90 BXN90L4**	499



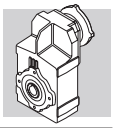
1.5 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE3		IEC IE3	
1.6	8075	1.0	897.3	45000			F804_897.3 P90 BXN90L4	496
1.8	6970	1.1	774.4	45000			F804_774.4 P90 BXN90L4	496
1.8	6961	2.0	773.4	55000			F904_773.4 P90 BXN90L4	499
2.0	6434	1.2	714.9	45000			F804_714.9 P90 BXN90L4	496
2.0	6426	2.2	714.0	55000			F904_714.0 P90 BXN90L4	499
2.3	5631	2.5	625.6	55000			F904_625.6 P90 BXN90L4	499
2.3	5498	1.5	610.9	45000			F804_610.9 P90 BXN90L4	496
2.4	5462	0.9	606.8	35000			F704_606.8 P90 BXN90L4	493
2.5	5197	2.7	577.5	55000			F904_577.5 P90 BXN90L4	499
2.5	5075	1.6	563.9	45000			F804_563.9 P90 BXN90L4	496
2.8	4594	1.1	510.4	35000			F704_510.4 P90 BXN90L4	493
2.9	4460	3.1	495.6	55000			F904_495.6 P90 BXN90L4	499
2.9	4402	1.8	489.1	45000			F804_489.1 P90 BXN90L4	496
3.0	4240	1.2	471.2	35000			F704_471.2 P90 BXN90L4	493
3.1	4117	3.4	457.5	55000			F904_457.5 P90 BXN90L4	499
3.2	4063	2.0	451.5	45000			F804_451.5 P90 BXN90L4	496
3.5	3632	1.4	403.5	35000			F704_403.5 P90 BXN90L4	493
3.7	3448	2.3	383.2	45000			F804_383.2 P90 BXN90L4	496
3.8	3352	1.5	372.5	35000			F704_372.5 P90 BXN90L4	493
4.0	3183	2.5	353.7	45000			F804_353.7 P90 BXN90L4	496
4.2	3075	0.9	341.7	20000			F604_341.7 P90 BXN90L4	489
4.5	2839	1.0	315.4	20000			F604_315.4 P90 BXN90L4	489
4.7	2739	1.8	304.3	35000			F704_304.3 P90 BXN90L4	493
4.8	2670	3.0	296.7	45000			F804_296.7 P90 BXN90L4	496
5.1	2528	2.0	280.9	35000			F704_280.9 P90 BXN90L4	493
5.1	2610	1.1	280.7	20000			F603_280.7 P90 BXN90L4	489
5.2	2465	3.2	273.9	45000			F804_273.9 P90 BXN90L4	496
5.5	2409	1.2	259.1	20000			F603_259.1 P90 BXN90L4	489
6.1	2193	1.3	235.8	20000			F603_235.8 P90 BXN90L4	489
6.1	2111	2.4	234.6	35000			F704_234.6 P90 BXN90L4	493
6.6	2024	1.4	217.6	20000			F603_217.6 P90 BXN90L4	489
6.6	1949	2.6	216.5	35000			F704_216.5 P90 BXN90L4	493
7.1	1882	1.0	202.4	12000			F513_202.4 P90 BXN90L4	485
7.1	1873	1.5	201.4	20000			F603_201.4 P90 BXN90L4	489
7.3	1823	2.7	196.0	35000			F703_196.0 P90 BXN90L4	493
7.7	1729	1.7	185.9	20000			F603_185.9 P90 BXN90L4	489
7.9	1683	3.0	180.9	35000			F703_180.9 P90 BXN90L4	493
8.6	1550	3.2	166.7	35000			F703_166.7 P90 BXN90L4	493
8.6	1540	1.2	165.6	12000			F513_165.6 P90 BXN90L4	485
8.8	1515	1.9	162.9	20000			F603_162.9 P90 BXN90L4	489
9.3	1431	3.5	153.8	35000			F703_153.8 P90 BXN90L4	493
9.5	1398	2.1	150.4	20000			F603_150.4 P90 BXN90L4	489
10.6	1250	0.9	134.4	8500			F413_134.4 P90 BXN90L4	481
11.0	1214	2.4	130.5	20000			F603_130.5 P90 BXN90L4	489
11.0	1208	1.5	129.9	12000			F513_129.9 P90 BXN90L4	485
11.9	1120	2.6	120.5	20000			F603_120.5 P90 BXN90L4	489
13.4	989	2.9	106.4	20000			F603_106.4 P90 BXN90L4	489
13.5	986	1.1	106.0	8500			F413_106.0 P90 BXN90L4	481
13.6	977	1.8	105.1	12000			F513_105.1 P90 BXN90L4	485
14.6	913	3.2	98.2	20000			F603_98.2 P90 BXN90L4	489
16.8	789	1.4	84.9	8500			F413_84.9 P90 BXN90L4	481
17.2	774	2.3	83.2	12000			F513_83.2 P90 BXN90L4	485
20.7	642	0.9	69.1	6500			F313_69.1 P90 BXN90L4	477
21.5	618	1.8	66.5	8500			F413_66.5 P90 BXN90L4	481
21.7	612	2.9	65.8	12000			F513_65.8 P90 BXN90L4	485
22.8	584	1.0	62.8	6500			F313_62.8 P90 BXN90L4	477
23.7	560	2.0	60.2	8500			F413_60.2 P90 BXN90L4	481



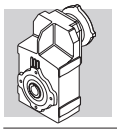
2.2 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IEC IE2	IEC IE3	
1.2	15941	0.9	1204.9	55000	F904_1205 S3 ME3LA4	F904_1205 S3 MX3LA4	498	F904_1205 P100 BE100LA4	F904_1205 P100 BX100LA4	499
1.3	14715	1.0	1112.3	55000	F904_1112 S3 ME3LA4	F904_1112 S3 MX3LA4	498	F904_1112 P100 BE100LA4	F904_1112 P100 BX100LA4	499
1.5	13045	1.1	986.0	55000	F904_986.0 S3 ME3LA4	F904_986.0 S3 MX3LA4	498	F904_986.0 P100 BE100LA4	F904_986.0 P100 BX100LA4	499
1.6	12042	1.2	910.2	55000	F904_910.2 S3 ME3LA4	F904_910.2 S3 MX3LA4	498	F904_910.2 P100 BE100LA4	F904_910.2 P100 BX100LA4	499
1.8	10233	1.4	773.4	55000	F904_773.4 S3 ME3LA4	F904_773.4 S3 MX3LA4	498	F904_773.4 P100 BE100LA4	F904_773.4 P100 BX100LA4	499
2.0	9446	1.5	714.0	55000	F904_714.0 S3 ME3LA4	F904_714.0 S3 MX3LA4	498	F904_714.0 P100 BE100LA4	F904_714.0 P100 BX100LA4	499
2.3	8277	1.7	625.6	55000	F904_625.6 S3 ME3LA4	F904_625.6 S3 MX3LA4	498	F904_625.6 P100 BE100LA4	F904_625.6 P100 BX100LA4	499
2.3	8082	1.0	610.9	45000	F804_610.9 S3 ME3LA4	F804_610.9 S3 MX3LA4	495	F804_610.9 P100 BE100LA4	F804_610.9 P100 BX100LA4	496
2.5	7640	1.8	577.5	55000	F904_577.5 S3 ME3LA4	F904_577.5 S3 MX3LA4	498	F904_577.5 P100 BE100LA4	F904_577.5 P100 BX100LA4	499
2.5	7460	1.1	563.9	45000	F804_563.9 S3 ME3LA4	F804_563.9 S3 MX3LA4	495	F804_563.9 P100 BE100LA4	F804_563.9 P100 BX100LA4	496
2.9	6556	2.1	495.6	55000	F904_495.6 S3 ME3LA4	F904_495.6 S3 MX3LA4	498	F904_495.6 P100 BE100LA4	F904_495.6 P100 BX100LA4	499
2.9	6471	1.2	489.1	45000	F804_489.1 S3 ME3LA4	F804_489.1 S3 MX3LA4	495	F804_489.1 P100 BE100LA4	F804_489.1 P100 BX100LA4	496
3.1	6052	2.3	457.5	55000	F904_457.5 S3 ME3LA4	F904_457.5 S3 MX3LA4	498	F904_457.5 P100 BE100LA4	F904_457.5 P100 BX100LA4	499
3.2	5973	1.3	451.5	45000	F804_451.5 S3 ME3LA4	F804_451.5 S3 MX3LA4	495	F804_451.5 P100 BE100LA4	F804_451.5 P100 BX100LA4	496
3.5	5338	0.9	403.5	35000	F704_403.5 S3 ME3LA4	F704_403.5 S3 MX3LA4	492	F704_403.5 P100 BE100LA4	F704_403.5 P100 BX100LA4	493
3.6	5186	2.7	392.0	55000	F904_392.0 S3 ME3LA4	F904_392.0 S3 MX3LA4	498	F904_392.0 P100 BE100LA4	F904_392.0 P100 BX100LA4	499
3.7	5069	1.6	383.2	45000	F804_383.2 S3 ME3LA4	F804_383.2 S3 MX3LA4	495	F804_383.2 P100 BE100LA4	F804_383.2 P100 BX100LA4	496
3.8	4928	1.0	372.5	35000	F704_372.5 S3 ME3LA4	F704_372.5 S3 MX3LA4	492	F704_372.5 P100 BE100LA4	F704_372.5 P100 BX100LA4	493
4.0	4787	2.9	361.8	55000	F904_361.8 S3 ME3LA4	F904_361.8 S3 MX3LA4	498	F904_361.8 P100 BE100LA4	F904_361.8 P100 BX100LA4	499
4.0	4679	1.7	353.7	45000	F804_353.7 S3 ME3LA4	F804_353.7 S3 MX3LA4	495	F804_353.7 P100 BE100LA4	F804_353.7 P100 BX100LA4	496
4.7	4027	1.2	304.3	35000	F704_304.3 S3 ME3LA4	F704_304.3 S3 MX3LA4	492	F704_304.3 P100 BE100LA4	F704_304.3 P100 BX100LA4	493
4.8	3926	2.0	296.7	45000	F804_296.7 S3 ME3LA4	F804_296.7 S3 MX3LA4	495	F804_296.7 P100 BE100LA4	F804_296.7 P100 BX100LA4	496
4.9	3852	3.6	291.1	55000	F904_291.1 S3 ME3LA4	F904_291.1 S3 MX3LA4	498	F904_291.1 P100 BE100LA4	F904_291.1 P100 BX100LA4	499
5.1	3717	1.3	280.9	35000	F704_280.9 S3 ME3LA4	F704_280.9 S3 MX3LA4	492	F704_280.9 P100 BE100LA4	F704_280.9 P100 BX100LA4	493
5.2	3624	2.2	273.9	45000	F804_273.9 S3 ME3LA4	F804_273.9 S3 MX3LA4	495	F804_273.9 P100 BE100LA4	F804_273.9 P100 BX100LA4	496
6.1	3223	0.9	235.8	20000	F603_235.8 S3 ME3LA4	F603_235.8 S3 MX3LA4	488	F603_235.8 P100 BE100LA4	F603_235.8 P100 BX100LA4	489
6.1	3103	1.6	234.6	35000	F704_234.6 S3 ME3LA4	F704_234.6 S3 MX3LA4	492	F704_234.6 P100 BE100LA4	F704_234.6 P100 BX100LA4	493
6.5	2891	2.8	218.5	45000	F804_218.5 S3 ME3LA4	F804_218.5 S3 MX3LA4	495	F804_218.5 P100 BE100LA4	F804_218.5 P100 BX100LA4	496
6.6	2975	1.0	217.6	20000	F603_217.6 S3 ME3LA4	F603_217.6 S3 MX3LA4	488	F603_217.6 P100 BE100LA4	F603_217.6 P100 BX100LA4	489
6.6	2865	1.7	216.5	35000	F704_216.5 S3 ME3LA4	F704_216.5 S3 MX3LA4	492	F704_216.5 P100 BE100LA4	F704_216.5 P100 BX100LA4	493
7.1	2753	1.1	201.4	20000	F603_201.4 S3 ME3LA4	F603_201.4 S3 MX3LA4	488	F603_201.4 P100 BE100LA4	F603_201.4 P100 BX100LA4	489
7.2	2734	2.9	200.0	45000	F803_200.0 S3 ME3LA4	F803_200.0 S3 MX3LA4	495	F803_200.0 P100 BE100LA4	F803_200.0 P100 BX100LA4	496
7.3	2680	1.9	196.0	35000	F703_196.0 S3 ME3LA4	F703_196.0 S3 MX3LA4	492	F703_196.0 P100 BE100LA4	F703_196.0 P100 BX100LA4	493
7.7	2541	1.1	185.9	20000	F603_185.9 S3 ME3LA4	F603_185.9 S3 MX3LA4	488	F603_185.9 P100 BE100LA4	F603_185.9 P100 BX100LA4	489
7.7	2524	3.2	184.6	45000	F803_184.6 S3 ME3LA4	F803_184.6 S3 MX3LA4	495	F803_184.6 P100 BE100LA4	F803_184.6 P100 BX100LA4	496
7.9	2474	2.0	180.9	35000	F703_180.9 S3 ME3LA4	F703_180.9 S3 MX3LA4	492	F703_180.9 P100 BE100LA4	F703_180.9 P100 BX100LA4	493
8.6	2279	2.2	166.7	35000	F703_166.7 S3 ME3LA4	F703_166.7 S3 MX3LA4	492	F703_166.7 P100 BE100LA4	F703_166.7 P100 BX100LA4	493
8.8	2227	1.3	162.9	20000	F603_162.9 S3 ME3LA4	F603_162.9 S3 MX3LA4	488	F603_162.9 P100 BE100LA4	F603_162.9 P100 BX100LA4	489
9.3	2103	2.4	153.8	35000	F703_153.8 S3 ME3LA4	F703_153.8 S3 MX3LA4	492	F703_153.8 P100 BE100LA4	F703_153.8 P100 BX100LA4	493
9.5	2056	1.4	150.4	20000	F603_150.4 S3 ME3LA4	F603_150.4 S3 MX3LA4	488	F603_150.4 P100 BE100LA4	F603_150.4 P100 BX100LA4	489
10.8	1818	2.8	133.0	35000	F703_133.0 S3 ME3LA4	F703_133.0 S3 MX3LA4	492	F703_133.0 P100 BE100LA4	F703_133.0 P100 BX100LA4	493
11.0	1784	1.6	130.5	20000	F603_130.5 S3 ME3LA4	F603_130.5 S3 MX3LA4	488	F603_130.5 P100 BE100LA4	F603_130.5 P100 BX100LA4	489
11.0	1776	1.0	129.9	12000	F513_129.9 S3 ME3LA4	F513_129.9 S3 MX3LA4	484	F513_129.9 P100 BE100LA4	F513_129.9 P100 BX100LA4	485
11.7	1678	3.0	122.7	35000	F703_122.7 S3 ME3LA4	F703_122.7 S3 MX3LA4	492	F703_122.7 P100 BE100LA4	F703_122.7 P100 BX100LA4	493
11.9	1647	1.8	120.5	20000	F603_120.5 S3 ME3LA4	F603_120.5 S3 MX3LA4	488	F603_120.5 P100 BE100LA4	F603_120.5 P100 BX100LA4	489
13.0	1499	3.3	109.6	35000	F703_109.6 S3 ME3LA4	F703_109.6 S3 MX3LA4	492	F703_109.6 P100 BE100LA4	F703_109.6 P100 BX100LA4	493
13.4	1454	2.0	106.4	20000	F603_106.4 S3 ME3LA4	F603_106.4 S3 MX3LA4	488	F603_106.4 P100 BE100LA4	F603_106.4 P100 BX100LA4	489
13.6	1437	1.3	105.1	12000	F513_105.1 S3 ME3LA4	F513_105.1 S3 MX3LA4	484	F513_105.1 P100 BE100LA4	F513_105.1 P100 BX100LA4	485
14.1	1383	3.6	101.2	35000	F703_101.2 S3 ME3LA4	F703_101.2 S3 MX3LA4	492	F703_101.2 P100 BE100LA4	F703_101.2 P100 BX100LA4	493
14.6	1342	2.2	98.2	20000	F603_98.2 S3 ME3LA4	F603_98.2 S3 MX3LA4	488	F603_98.2 P100 BE100LA4	F603_98.2 P100 BX100LA4	489
16.8	1160	0.9	84.9	8500	F413_84.9 S3 ME3LA4	F413_84.9 S3 MX3LA4	480	F413_84.9 P100 BE100LA4	F413_84.9 P100 BX100LA4	481
17.0	1149	2.5	84.0	20000	F603_84.0 S3 ME3LA4	F603_84.0 S3 MX3LA4	488	F603_84.0 P100 BE100LA4	F603_84.0 P100 BX100LA4	489
17.2	1138	1.6	83.2	12000	F513_83.2 S3 ME3LA4	F513_83.2 S3 MX3LA4	484	F513_83.2 P100 BE100LA4	F513_83.2 P100 BX100LA4	485
18.4	1060	2.7	77.6	20000	F603_77.6 S3 ME3LA4	F603_77.6 S3 MX3LA4	488	F603_77.6 P100 BE100LA4	F603_77.6 P100 BX100LA4	489
20.9	933	3.1	68.3	20000	F603_68.3 S3 ME3LA4	F603_68.3 S3 MX3LA4	488	F603_68.3 P100 BE100LA4	F603_68.3 P100 BX100LA4	489
21.5	909	1.2	66.5	8500	F413_66.5 S3 ME3LA4	F413_66.5 S3 MX3LA4	480	F413_66.5 P100 BE100LA4	F413_66.5 P100 BX100LA4	481
21.7	900	2.0	65.8	12000	F513_65.8 S3 ME3LA4	F513_65.8 S3 MX3LA4	484	F513_65.8 P100 BE100LA4	F513_65.8 P100 BX100LA4	485



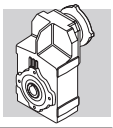
2.2 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IEC IE2	IEC IE3	
1.2	15941	0.9	1204.9	55000	F904_1205 S3 ME3LA4	F904_1205 S3 MX3LA4	498	F904_1205 P100 BE100LA4	F904_1205 P100 BX100LA4	499
1.3	14715	1.0	1112.3	55000	F904_1112 S3 ME3LA4	F904_1112 S3 MX3LA4	498	F904_1112 P100 BE100LA4	F904_1112 P100 BX100LA4	499
1.5	13045	1.1	986.0	55000	F904_986.0 S3 ME3LA4	F904_986.0 S3 MX3LA4	498	F904_986.0 P100 BE100LA4	F904_986.0 P100 BX100LA4	499
1.6	12042	1.2	910.2	55000	F904_910.2 S3 ME3LA4	F904_910.2 S3 MX3LA4	498	F904_910.2 P100 BE100LA4	F904_910.2 P100 BX100LA4	499
1.8	10233	1.4	773.4	55000	F904_773.4 S3 ME3LA4	F904_773.4 S3 MX3LA4	498	F904_773.4 P100 BE100LA4	F904_773.4 P100 BX100LA4	499
2.0	9446	1.5	714.0	55000	F904_714.0 S3 ME3LA4	F904_714.0 S3 MX3LA4	498	F904_714.0 P100 BE100LA4	F904_714.0 P100 BX100LA4	499
2.3	8277	1.7	625.6	55000	F904_625.6 S3 ME3LA4	F904_625.6 S3 MX3LA4	498	F904_625.6 P100 BE100LA4	F904_625.6 P100 BX100LA4	499
2.3	8082	1.0	610.9	45000	F804_610.9 S3 ME3LA4	F804_610.9 S3 MX3LA4	495	F804_610.9 P100 BE100LA4	F804_610.9 P100 BX100LA4	496
2.5	7640	1.8	577.5	55000	F904_577.5 S3 ME3LA4	F904_577.5 S3 MX3LA4	498	F904_577.5 P100 BE100LA4	F904_577.5 P100 BX100LA4	499
2.5	7460	1.1	563.9	45000	F804_563.9 S3 ME3LA4	F804_563.9 S3 MX3LA4	495	F804_563.9 P100 BE100LA4	F804_563.9 P100 BX100LA4	496
2.9	6556	2.1	495.6	55000	F904_495.6 S3 ME3LA4	F904_495.6 S3 MX3LA4	498	F904_495.6 P100 BE100LA4	F904_495.6 P100 BX100LA4	499
2.9	6471	1.2	489.1	45000	F804_489.1 S3 ME3LA4	F804_489.1 S3 MX3LA4	495	F804_489.1 P100 BE100LA4	F804_489.1 P100 BX100LA4	496
3.1	6052	2.3	457.5	55000	F904_457.5 S3 ME3LA4	F904_457.5 S3 MX3LA4	498	F904_457.5 P100 BE100LA4	F904_457.5 P100 BX100LA4	499
3.2	5973	1.3	451.5	45000	F804_451.5 S3 ME3LA4	F804_451.5 S3 MX3LA4	495	F804_451.5 P100 BE100LA4	F804_451.5 P100 BX100LA4	496
3.5	5338	0.9	403.5	35000	F704_403.5 S3 ME3LA4	F704_403.5 S3 MX3LA4	492	F704_403.5 P100 BE100LA4	F704_403.5 P100 BX100LA4	493
3.6	5186	2.7	392.0	55000	F904_392.0 S3 ME3LA4	F904_392.0 S3 MX3LA4	498	F904_392.0 P100 BE100LA4	F904_392.0 P100 BX100LA4	499
3.7	5069	1.6	383.2	45000	F804_383.2 S3 ME3LA4	F804_383.2 S3 MX3LA4	495	F804_383.2 P100 BE100LA4	F804_383.2 P100 BX100LA4	496
3.8	4928	1.0	372.5	35000	F704_372.5 S3 ME3LA4	F704_372.5 S3 MX3LA4	492	F704_372.5 P100 BE100LA4	F704_372.5 P100 BX100LA4	493
4.0	4787	2.9	361.8	55000	F904_361.8 S3 ME3LA4	F904_361.8 S3 MX3LA4	498	F904_361.8 P100 BE100LA4	F904_361.8 P100 BX100LA4	499
4.0	4679	1.7	353.7	45000	F804_353.7 S3 ME3LA4	F804_353.7 S3 MX3LA4	495	F804_353.7 P100 BE100LA4	F804_353.7 P100 BX100LA4	496
4.7	4027	1.2	304.3	35000	F704_304.3 S3 ME3LA4	F704_304.3 S3 MX3LA4	492	F704_304.3 P100 BE100LA4	F704_304.3 P100 BX100LA4	493
4.8	3926	2.0	296.7	45000	F804_296.7 S3 ME3LA4	F804_296.7 S3 MX3LA4	495	F804_296.7 P100 BE100LA4	F804_296.7 P100 BX100LA4	496
4.9	3852	3.6	291.1	55000	F904_291.1 S3 ME3LA4	F904_291.1 S3 MX3LA4	498	F904_291.1 P100 BE100LA4	F904_291.1 P100 BX100LA4	499
5.1	3717	1.3	280.9	35000	F704_280.9 S3 ME3LA4	F704_280.9 S3 MX3LA4	492	F704_280.9 P100 BE100LA4	F704_280.9 P100 BX100LA4	493
5.2	3624	2.2	273.9	45000	F804_273.9 S3 ME3LA4	F804_273.9 S3 MX3LA4	495	F804_273.9 P100 BE100LA4	F804_273.9 P100 BX100LA4	496
6.1	3223	0.9	235.8	20000	F603_235.8 S3 ME3LA4	F603_235.8 S3 MX3LA4	488	F603_235.8 P100 BE100LA4	F603_235.8 P100 BX100LA4	489
6.1	3103	1.6	234.6	35000	F704_234.6 S3 ME3LA4	F704_234.6 S3 MX3LA4	492	F704_234.6 P100 BE100LA4	F704_234.6 P100 BX100LA4	493
6.5	2891	2.8	218.5	45000	F804_218.5 S3 ME3LA4	F804_218.5 S3 MX3LA4	495	F804_218.5 P100 BE100LA4	F804_218.5 P100 BX100LA4	496
6.6	2975	1.0	217.6	20000	F603_217.6 S3 ME3LA4	F603_217.6 S3 MX3LA4	488	F603_217.6 P100 BE100LA4	F603_217.6 P100 BX100LA4	489
6.6	2865	1.7	216.5	35000	F704_216.5 S3 ME3LA4	F704_216.5 S3 MX3LA4	492	F704_216.5 P100 BE100LA4	F704_216.5 P100 BX100LA4	493
7.1	2753	1.1	201.4	20000	F603_201.4 S3 ME3LA4	F603_201.4 S3 MX3LA4	488	F603_201.4 P100 BE100LA4	F603_201.4 P100 BX100LA4	489
7.2	2734	2.9	200.0	45000	F803_200.0 S3 ME3LA4	F803_200.0 S3 MX3LA4	495	F803_200.0 P100 BE100LA4	F803_200.0 P100 BX100LA4	496
7.3	2680	1.9	196.0	35000	F703_196.0 S3 ME3LA4	F703_196.0 S3 MX3LA4	492	F703_196.0 P100 BE100LA4	F703_196.0 P100 BX100LA4	493
7.7	2541	1.1	185.9	20000	F603_185.9 S3 ME3LA4	F603_185.9 S3 MX3LA4	488	F603_185.9 P100 BE100LA4	F603_185.9 P100 BX100LA4	489
7.7	2524	3.2	184.6	45000	F803_184.6 S3 ME3LA4	F803_184.6 S3 MX3LA4	495	F803_184.6 P100 BE100LA4	F803_184.6 P100 BX100LA4	496
7.9	2474	2.0	180.9	35000	F703_180.9 S3 ME3LA4	F703_180.9 S3 MX3LA4	492	F703_180.9 P100 BE100LA4	F703_180.9 P100 BX100LA4	493
8.6	2279	2.2	166.7	35000	F703_166.7 S3 ME3LA4	F703_166.7 S3 MX3LA4	492	F703_166.7 P100 BE100LA4	F703_166.7 P100 BX100LA4	493
8.8	2227	1.3	162.9	20000	F603_162.9 S3 ME3LA4	F603_162.9 S3 MX3LA4	488	F603_162.9 P100 BE100LA4	F603_162.9 P100 BX100LA4	489
9.3	2103	2.4	153.8	35000	F703_153.8 S3 ME3LA4	F703_153.8 S3 MX3LA4	492	F703_153.8 P100 BE100LA4	F703_153.8 P100 BX100LA4	493
9.5	2056	1.4	150.4	20000	F603_150.4 S3 ME3LA4	F603_150.4 S3 MX3LA4	488	F603_150.4 P100 BE100LA4	F603_150.4 P100 BX100LA4	489
10.8	1818	2.8	133.0	35000	F703_133.0 S3 ME3LA4	F703_133.0 S3 MX3LA4	492	F703_133.0 P100 BE100LA4	F703_133.0 P100 BX100LA4	493
11.0	1784	1.6	130.5	20000	F603_130.5 S3 ME3LA4	F603_130.5 S3 MX3LA4	488	F603_130.5 P100 BE100LA4	F603_130.5 P100 BX100LA4	489
11.0	1776	1.0	129.9	12000	F513_129.9 S3 ME3LA4	F513_129.9 S3 MX3LA4	484	F513_129.9 P100 BE100LA4	F513_129.9 P100 BX100LA4	485
11.7	1678	3.0	122.7	35000	F703_122.7 S3 ME3LA4	F703_122.7 S3 MX3LA4	492	F703_122.7 P100 BE100LA4	F703_122.7 P100 BX100LA4	493
11.9	1647	1.8	120.5	20000	F603_120.5 S3 ME3LA4	F603_120.5 S3 MX3LA4	488	F603_120.5 P100 BE100LA4	F603_120.5 P100 BX100LA4	489
13.0	1499	3.3	109.6	35000	F703_109.6 S3 ME3LA4	F703_109.6 S3 MX3LA4	492	F703_109.6 P100 BE100LA4	F703_109.6 P100 BX100LA4	493
13.4	1454	2.0	106.4	20000	F603_106.4 S3 ME3LA4	F603_106.4 S3 MX3LA4	488	F603_106.4 P100 BE100LA4	F603_106.4 P100 BX100LA4	489
13.6	1437	1.3	105.1	12000	F513_105.1 S3 ME3LA4	F513_105.1 S3 MX3LA4	484	F513_105.1 P100 BE100LA4	F513_105.1 P100 BX100LA4	485
14.1	1383	3.6	101.2	35000	F703_101.2 S3 ME3LA4	F703_101.2 S3 MX3LA4	492	F703_101.2 P100 BE100LA4	F703_101.2 P100 BX100LA4	493
14.6	1342	2.2	98.2	20000	F603_98.2 S3 ME3LA4	F603_98.2 S3 MX3LA4	488	F603_98.2 P100 BE100LA4	F603_98.2 P100 BX100LA4	489
16.8	1160	0.9	84.9	8500	F413_84.9 S3 ME3LA4	F413_84.9 S3 MX3LA4	480	F413_84.9 P100 BE100LA4	F413_84.9 P100 BX100LA4	481
17.0	1149	2.5	84.0	20000	F603_84.0 S3 ME3LA4	F603_84.0 S3 MX3LA4	488	F603_84.0 P100 BE100LA4	F603_84.0 P100 BX100LA4	489
17.2	1138	1.6	83.2	12000	F513_83.2 S3 ME3LA4	F513_83.2 S3 MX3LA4	484	F513_83.2 P100 BE100LA4	F513_83.2 P100 BX100LA4	485
18.4	1060	2.7	77.6	20000	F603_77.6 S3 ME3LA4	F603_77.6 S3 MX3LA4	488	F603_77.6 P100 BE100LA4	F603_77.6 P100 BX100LA4	489
20.9	933	3.1	68.3	20000	F603_68.3 S3 ME3LA4	F603_68.3 S3 MX3LA4	488	F603_68.3 P100 BE100LA4	F603_68.3 P100 BX100LA4	489
21.5	909	1.2	66.5	8500	F413_66.5 S3 ME3LA4	F413_66.5 S3 MX3LA4	480	F413_66.5 P100 BE100LA4	F413_66.5 P100 BX100LA4	481
21.7	900	2.0	65.8	12000	F513_65.8 S3 ME3LA4	F513_65.8 S3 MX3LA4	484	F513_65.8 P100 BE100LA4	F513_65.8 P100 BX100LA4	485



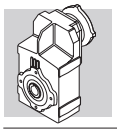
2.2 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IEC IE2	IEC IE3	
22.7	862	3.4	63.0	20000	**F603_63.0 S3 ME3LA4**	**F603_63.0 S3 MX3LA4**	488	**F603_63.0 P100 BE100LA4**	**F603_63.0 P100 BX100LA4**	489
23.7	824	1.3	60.2	8500	**F413_60.2 S3 ME3LA4**	**F413_60.2 S3 MX3LA4**	480	**F413_60.2 P100 BE100LA4**	**F413_60.2 P100 BX100LA4**	481
27.8	704	1.5	51.5	8500	**F413_51.5 S3 ME3LA4**	**F413_51.5 S3 MX3LA4**	480	**F413_51.5 P100 BE100LA4**	**F413_51.5 P100 BX100LA4**	481
29.2	669	2.7	48.9	12000	**F513_48.9 S3 ME3LA4**	**F513_48.9 S3 MX3LA4**	484	**F513_48.9 P100 BE100LA4**	**F513_48.9 P100 BX100LA4**	485
29.8	669	1.6	47.9	8500	**F412_47.9 S3 ME3LA4**	**F412_47.9 S3 MX3LA4**	480	**F412_47.9 P100 BE100LA4**	**F412_47.9 P100 BX100LA4**	481
30	650	0.9	47.5	6500	**F313_47.5 S3 ME3LA4**	**F313_47.5 S3 MX3LA4**	476	**F313_47.5 P100 BE100LA4**	**F313_47.5 P100 BX100LA4**	477
32	623	1.0	44.6	6500	**F312_44.6 S3 ME3LA4**	**F312_44.6 S3 MX3LA4**	476	**F312_44.6 P100 BE100LA4**	**F312_44.6 P100 BX100LA4**	477
35	564	1.1	40.4	6500	**F312_40.4 S3 ME3LA4**	**F312_40.4 S3 MX3LA4**	476	**F312_40.4 P100 BE100LA4**	**F312_40.4 P100 BX100LA4**	477
37	533	2.1	38.2	8500	**F412_38.2 S3 ME3LA4**	**F412_38.2 S3 MX3LA4**	480	**F412_38.2 P100 BE100LA4**	**F412_38.2 P100 BX100LA4**	481
38	526	1.1	37.7	6500	**F312_37.7 S3 ME3LA4**	**F312_37.7 S3 MX3LA4**	476	**F312_37.7 P100 BE100LA4**	**F312_37.7 P100 BX100LA4**	477
39	519	3.3	37.1	12000	**F512_37.1 S3 ME3LA4**	**F512_37.1 S3 MX3LA4**	484	**F512_37.1 P100 BE100LA4**	**F512_37.1 P100 BX100LA4**	485
42	480	1.3	34.4	6490	**F312_34.4 S3 ME3LA4**	**F312_34.4 S3 MX3LA4**	476	**F312_34.4 P100 BE100LA4**	**F312_34.4 P100 BX100LA4**	477
44	449	0.9	32.2	3620	**F252_32.2 S3 ME3LA4**	**F252_32.2 S3 MX3LA4**	472	**F252_32.2 P100 BE100LA4**	**F252_32.2 P100 BX100LA4**	473
47	421	1.4	30.1	6360	**F312_30.1 S3 ME3LA4**	**F312_30.1 S3 MX3LA4**	476	**F312_30.1 P100 BE100LA4**	**F312_30.1 P100 BX100LA4**	477
47	421	2.6	30.1	8500	**F412_30.1 S3 ME3LA4**	**F412_30.1 S3 MX3LA4**	480	**F412_30.1 P100 BE100LA4**	**F412_30.1 P100 BX100LA4**	481
48	419	1.0	30.0	3300	**F252_30.0 S3 ME3LA4**	**F252_30.0 S3 MX3LA4**	472	**F252_30.0 P100 BE100LA4**	**F252_30.0 P100 BX100LA4**	473
52	381	1.6	27.3	6250	**F312_27.3 S3 ME3LA4**	**F312_27.3 S3 MX3LA4**	476	**F312_27.3 P100 BE100LA4**	**F312_27.3 P100 BX100LA4**	477
53	380	1.1	27.2	3300	**F252_27.2 S3 ME3LA4**	**F252_27.2 S3 MX3LA4**	472	**F252_27.2 P100 BE100LA4**	**F252_27.2 P100 BX100LA4**	473
59	337	3.3	24.1	8400	**F412_24.1 S3 ME3LA4**	**F412_24.1 S3 MX3LA4**	480	**F412_24.1 P100 BE100LA4**	**F412_24.1 P100 BX100LA4**	481
60	332	1.2	23.8	3290	**F252_23.8 S3 ME3LA4**	**F252_23.8 S3 MX3LA4**	472	**F252_23.8 P100 BE100LA4**	**F252_23.8 P100 BX100LA4**	473
61	327	1.8	23.4	6080	**F312_23.4 S3 ME3LA4**	**F312_23.4 S3 MX3LA4**	476	**F312_23.4 P100 BE100LA4**	**F312_23.4 P100 BX100LA4**	477
66	305	1.3	21.8	3270	**F252_21.8 S3 ME3LA4**	**F252_21.8 S3 MX3LA4**	472	**F252_21.8 P100 BE100LA4**	**F252_21.8 P100 BX100LA4**	473
68	295	2.0	21.1	5960	**F312_21.1 S3 ME3LA4**	**F312_21.1 S3 MX3LA4**	476	**F312_21.1 P100 BE100LA4**	**F312_21.1 P100 BX100LA4**	477
77	260	1.5	18.6	3220	**F252_18.6 S3 ME3LA4**	**F252_18.6 S3 MX3LA4**	472	**F252_18.6 P100 BE100LA4**	**F252_18.6 P100 BX100LA4**	473
77	258	2.3	18.5	5790	**F312_18.5 S3 ME3LA4**	**F312_18.5 S3 MX3LA4**	476	**F312_18.5 P100 BE100LA4**	**F312_18.5 P100 BX100LA4**	477
85	235	2.6	16.8	5670	**F312_16.8 S3 ME3LA4**	**F312_16.8 S3 MX3LA4**	476	**F312_16.8 P100 BE100LA4**	**F312_16.8 P100 BX100LA4**	477
86	232	1.7	16.6	3180	**F252_16.6 S3 ME3LA4**	**F252_16.6 S3 MX3LA4**	472	**F252_16.6 P100 BE100LA4**	**F252_16.6 P100 BX100LA4**	473
97	207	1.0	14.8	2190	**F202_14.8 S3 ME3LA4**	**F202_14.8 S3 MX3LA4**	468	**F202_14.8 P100 BE100LA4**	**F202_14.8 P100 BX100LA4**	469
99	202	2.0	14.5	3120	**F252_14.5 S3 ME3LA4**	**F252_14.5 S3 MX3LA4**	472	**F252_14.5 P100 BE100LA4**	**F252_14.5 P100 BX100LA4**	473
103	195	3.1	13.9	5430	**F312_13.9 S3 ME3LA4**	**F312_13.9 S3 MX3LA4**	476	**F312_13.9 P100 BE100LA4**	**F312_13.9 P100 BX100LA4**	477
110	181	2.2	13.0	3070	**F252_13.0 S3 ME3LA4**	**F252_13.0 S3 MX3LA4**	472	**F252_13.0 P100 BE100LA4**	**F252_13.0 P100 BX100LA4**	473
112	178	3.4	12.7	5310	**F312_12.7 S3 ME3LA4**	**F312_12.7 S3 MX3LA4**	476	**F312_12.7 P100 BE100LA4**	**F312_12.7 P100 BX100LA4**	477
127	157	1.1	11.2	2060	**F202_11.2 S3 ME3LA4**	**F202_11.2 S3 MX3LA4**	468	**F202_11.2 P100 BE100LA4**	**F202_11.2 P100 BX100LA4**	469
135	148	2.7	10.6	2960	**F252_10.6 S3 ME3LA4**	**F252_10.6 S3 MX3LA4**	472	**F252_10.6 P100 BE100LA4**	**F252_10.6 P100 BX100LA4**	473
143	140	1.2	10.0	2000	**F202_10.0 S3 ME3LA4**	**F202_10.0 S3 MX3LA4**	468	**F202_10.0 P100 BE100LA4**	**F202_10.0 P100 BX100LA4**	469
153	131	2.0	9.4	2900	**F252_9.4 S3 ME3LA4**	**F252_9.4 S3 MX3LA4**	472	**F252_9.4 P100 BE100LA4**	**F252_9.4 P100 BX100LA4**	473
159	126	3.1	9.0	4830	**F312_9.0 S3 ME3LA4**	**F312_9.0 S3 MX3LA4**	476	**F312_9.0 P100 BE100LA4**	**F312_9.0 P100 BX100LA4**	477
164	122	1.3	8.7	1960	**F202_8.7 S3 ME3LA4**	**F202_8.7 S3 MX3LA4**	468	**F202_8.7 P100 BE100LA4**	**F202_8.7 P100 BX100LA4**	469
170	117	2.2	8.4	2830	**F252_8.4 S3 ME3LA4**	**F252_8.4 S3 MX3LA4**	472	**F252_8.4 P100 BE100LA4**	**F252_8.4 P100 BX100LA4**	473
174	115	3.4	8.2	4720	**F312_8.2 S3 ME3LA4**	**F312_8.2 S3 MX3LA4**	476	**F312_8.2 P100 BE100LA4**	**F312_8.2 P100 BX100LA4**	477
183	109	1.3	7.8	1920	**F202_7.8 S3 ME3LA4**	**F202_7.8 S3 MX3LA4**	468	**F202_7.8 P100 BE100LA4**	**F202_7.8 P100 BX100LA4**	469
208	96	2.7	6.9	2710	**F252_6.9 S3 ME3LA4**	**F252_6.9 S3 MX3LA4**	472	**F252_6.9 P100 BE100LA4**	**F252_6.9 P100 BX100LA4**	473
223	90	1.5	6.4	1840	**F202_6.4 S3 ME3LA4**	**F202_6.4 S3 MX3LA4**	468	**F202_6.4 P100 BE100LA4**	**F202_6.4 P100 BX100LA4**	469
248	80	1.0	11.5	1470	**F102_11.5 S3 ME3LA2**		464	**F102_11.5 P90 BE90L2**		465
255	78	1.8	11.2	1780	**F202_11.2 S3 ME3LA2**		468	**F202_11.2 P90 BE90L2**		469
293	68	1.1	9.8	1410	**F102_9.8 S3 ME3LA2**		464	**F102_9.8 P90 BE90L2**		465
328	61	2.0	8.7	1670	**F202_8.7 S3 ME3LA2**		468	**F202_8.7 P90 BE90L2**		469
334	60	1.1	8.6	1370	**F102_8.6 S3 ME3LA2**		464	**F102_8.6 P90 BE90L2**		465
366	55	2.1	7.8	1630	**F202_7.8 S3 ME3LA2**		468	**F202_7.8 P90 BE90L2**		469
387	52	1.2	7.4	1330	**F102_7.4 S3 ME3LA2**		464	**F102_7.4 P90 BE90L2**		465
447	45	2.3	6.4	1540	**F202_6.4 S3 ME3LA2**		468	**F202_6.4 P90 BE90L2**		469



3 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IEC IE2	IEC IE3	
1.9	13922	1.0	773.4	55000	**F904_773.4 S3 ME3LB4**	**F904_773.4 S3 MX3LB4**	498	**F904_773.4 P100 BE100LB4**	**F904_773.4 P100 BX100LB4**	499
2.0	12851	1.1	714.0	55000	**F904_714.0 S3 ME3LB4**	**F904_714.0 S3 MX3LB4**	498	**F904_714.0 P100 BE100LB4**	**F904_714.0 P100 BX100LB4**	499
2.3	11261	1.2	625.6	55000	**F904_625.6 S3 ME3LB4**	**F904_625.6 S3 MX3LB4**	498	**F904_625.6 P100 BE100LB4**	**F904_625.6 P100 BX100LB4**	499
2.5	10395	1.3	577.5	55000	**F904_577.5 S3 ME3LB4**	**F904_577.5 S3 MX3LB4**	498	**F904_577.5 P100 BE100LB4**	**F904_577.5 P100 BX100LB4**	499
2.9	8920	1.6	495.6	55000	**F904_495.6 S3 ME3LB4**	**F904_495.6 S3 MX3LB4**	498	**F904_495.6 P100 BE100LB4**	**F904_495.6 P100 BX100LB4**	499
2.9	8804	0.9	489.1	45000	**F804_489.1 S3 ME3LB4**	**F804_489.1 S3 MX3LB4**	495	**F804_489.1 P100 BE100LB4**	**F804_489.1 P100 BX100LB4**	496
3.1	8234	1.7	457.5	55000	**F904_457.5 S3 ME3LB4**	**F904_457.5 S3 MX3LB4**	498	**F904_457.5 P100 BE100LB4**	**F904_457.5 P100 BX100LB4**	499
3.2	8127	1.0	451.5	45000	**F804_451.5 S3 ME3LB4**	**F804_451.5 S3 MX3LB4**	495	**F804_451.5 P100 BE100LB4**	**F804_451.5 P100 BX100LB4**	496
3.7	7056	2.0	392.0	55000	**F904_392.0 S3 ME3LB4**	**F904_392.0 S3 MX3LB4**	498	**F904_392.0 P100 BE100LB4**	**F904_392.0 P100 BX100LB4**	499
3.8	6897	1.2	383.2	45000	**F804_383.2 S3 ME3LB4**	**F804_383.2 S3 MX3LB4**	495	**F804_383.2 P100 BE100LB4**	**F804_383.2 P100 BX100LB4**	496
4.0	6513	2.1	361.8	55000	**F904_361.8 S3 ME3LB4**	**F904_361.8 S3 MX3LB4**	498	**F904_361.8 P100 BE100LB4**	**F904_361.8 P100 BX100LB4**	499
4.1	6366	1.3	353.7	45000	**F804_353.7 S3 ME3LB4**	**F804_353.7 S3 MX3LB4**	495	**F804_353.7 P100 BE100LB4**	**F804_353.7 P100 BX100LB4**	496
4.7	5478	0.9	304.3	35000	**F704_304.3 S3 ME3LB4**	**F704_304.3 S3 MX3LB4**	492	**F704_304.3 P100 BE100LB4**	**F704_304.3 P100 BX100LB4**	493
4.9	5341	1.5	296.7	45000	**F804_296.7 S3 ME3LB4**	**F804_296.7 S3 MX3LB4**	495	**F804_296.7 P100 BE100LB4**	**F804_296.7 P100 BX100LB4**	496
4.9	5240	2.7	291.1	55000	**F904_291.1 S3 ME3LB4**	**F904_291.1 S3 MX3LB4**	498	**F904_291.1 P100 BE100LB4**	**F904_291.1 P100 BX100LB4**	499
5.1	5057	1.0	280.9	35000	**F704_280.9 S3 ME3LB4**	**F704_280.9 S3 MX3LB4**	492	**F704_280.9 P100 BE100LB4**	**F704_280.9 P100 BX100LB4**	493
5.3	4930	1.6	273.9	45000	**F804_273.9 S3 ME3LB4**	**F804_273.9 S3 MX3LB4**	495	**F804_273.9 P100 BE100LB4**	**F804_273.9 P100 BX100LB4**	496
5.4	4837	2.9	268.7	55000	**F904_268.7 S3 ME3LB4**	**F904_268.7 S3 MX3LB4**	498	**F904_268.7 P100 BE100LB4**	**F904_268.7 P100 BX100LB4**	499
6.1	4222	1.2	234.6	35000	**F704_234.6 S3 ME3LB4**	**F704_234.6 S3 MX3LB4**	492	**F704_234.6 P100 BE100LB4**	**F704_234.6 P100 BX100LB4**	493
6.2	4165	3.4	231.4	55000	**F904_231.4 S3 ME3LB4**	**F904_231.4 S3 MX3LB4**	498	**F904_231.4 P100 BE100LB4**	**F904_231.4 P100 BX100LB4**	499
6.6	3933	2.0	218.5	45000	**F804_218.5 S3 ME3LB4**	**F804_218.5 S3 MX3LB4**	495	**F804_218.5 P100 BE100LB4**	**F804_218.5 P100 BX100LB4**	496
6.7	3897	1.3	216.5	35000	**F704_216.5 S3 ME3LB4**	**F704_216.5 S3 MX3LB4**	492	**F704_216.5 P100 BE100LB4**	**F704_216.5 P100 BX100LB4**	493
6.7	3845	3.6	213.6	55000	**F904_213.6 S3 ME3LB4**	**F904_213.6 S3 MX3LB4**	498	**F904_213.6 P100 BE100LB4**	**F904_213.6 P100 BX100LB4**	499
7.2	3720	2.2	200.0	45000	**F803_200.0 S3 ME3LB4**	**F803_200.0 S3 MX3LB4**	495	**F803_200.0 P100 BE100LB4**	**F803_200.0 P100 BX100LB4**	496
7.3	3646	1.4	196.0	35000	**F703_196.0 S3 ME3LB4**	**F703_196.0 S3 MX3LB4**	492	**F703_196.0 P100 BE100LB4**	**F703_196.0 P100 BX100LB4**	493
7.8	3434	2.3	184.6	45000	**F803_184.6 S3 ME3LB4**	**F803_184.6 S3 MX3LB4**	495	**F803_184.6 P100 BE100LB4**	**F803_184.6 P100 BX100LB4**	496
8.0	3366	1.5	180.9	35000	**F703_180.9 S3 ME3LB4**	**F703_180.9 S3 MX3LB4**	492	**F703_180.9 P100 BE100LB4**	**F703_180.9 P100 BX100LB4**	493
8.6	3100	1.6	166.7	35000	**F703_166.7 S3 ME3LB4**	**F703_166.7 S3 MX3LB4**	492	**F703_166.7 P100 BE100LB4**	**F703_166.7 P100 BX100LB4**	493
8.8	3030	1.0	162.9	20000	**F603_162.9 S3 ME3LB4**	**F603_162.9 S3 MX3LB4**	488	**F603_162.9 P100 BE100LB4**	**F603_162.9 P100 BX100LB4**	489
9.0	2980	2.7	160.2	45000	**F803_160.2 S3 ME3LB4**	**F803_160.2 S3 MX3LB4**	495	**F803_160.2 P100 BE100LB4**	**F803_160.2 P100 BX100LB4**	496
9.4	2862	1.7	153.8	35000	**F703_153.8 S3 ME3LB4**	**F703_153.8 S3 MX3LB4**	492	**F703_153.8 P100 BE100LB4**	**F703_153.8 P100 BX100LB4**	493
9.6	2797	1.0	150.4	20000	**F603_150.4 S3 ME3LB4**	**F603_150.4 S3 MX3LB4**	488	**F603_150.4 P100 BE100LB4**	**F603_150.4 P100 BX100LB4**	489
9.7	2751	2.9	147.9	45000	**F803_147.9 S3 ME3LB4**	**F803_147.9 S3 MX3LB4**	495	**F803_147.9 P100 BE100LB4**	**F803_147.9 P100 BX100LB4**	496
10.8	2473	2.0	133.0	35000	**F703_133.0 S3 ME3LB4**	**F703_133.0 S3 MX3LB4**	492	**F703_133.0 P100 BE100LB4**	**F703_133.0 P100 BX100LB4**	493
10.9	2468	3.2	132.7	45000	**F803_132.7 S3 ME3LB4**	**F803_132.7 S3 MX3LB4**	495	**F803_132.7 P100 BE100LB4**	**F803_132.7 P100 BX100LB4**	496
11.0	2427	1.2	130.5	20000	**F603_130.5 S3 ME3LB4**	**F603_130.5 S3 MX3LB4**	488	**F603_130.5 P100 BE100LB4**	**F603_130.5 P100 BX100LB4**	489
11.7	2283	2.2	122.7	35000	**F703_122.7 S3 ME3LB4**	**F703_122.7 S3 MX3LB4**	492	**F703_122.7 P100 BE100LB4**	**F703_122.7 P100 BX100LB4**	493
12.0	2240	1.3	120.5	20000	**F603_120.5 S3 ME3LB4**	**F603_120.5 S3 MX3LB4**	488	**F603_120.5 P100 BE100LB4**	**F603_120.5 P100 BX100LB4**	489
13.1	2039	2.5	109.6	35000	**F703_109.6 S3 ME3LB4**	**F703_109.6 S3 MX3LB4**	492	**F703_109.6 P100 BE100LB4**	**F703_109.6 P100 BX100LB4**	493
13.5	1979	1.5	106.4	20000	**F603_106.4 S3 ME3LB4**	**F603_106.4 S3 MX3LB4**	488	**F603_106.4 P100 BE100LB4**	**F603_106.4 P100 BX100LB4**	489
13.7	1955	0.9	105.1	12000	**F513_105.1 S3 ME3LB4**	**F513_105.1 S3 MX3LB4**	484	**F513_105.1 P100 BE100LB4**	**F513_105.1 P100 BX100LB4**	485
14.2	1882	2.7	101.2	35000	**F703_101.2 S3 ME3LB4**	**F703_101.2 S3 MX3LB4**	492	**F703_101.2 P100 BE100LB4**	**F703_101.2 P100 BX100LB4**	493
14.7	1826	1.6	98.2	20000	**F603_98.2 S3 ME3LB4**	**F603_98.2 S3 MX3LB4**	488	**F603_98.2 P100 BE100LB4**	**F603_98.2 P100 BX100LB4**	489
15.6	1721	2.9	92.5	35000	**F703_92.5 S3 ME3LB4**	**F703_92.5 S3 MX3LB4**	492	**F703_92.5 P100 BE100LB4**	**F703_92.5 P100 BX100LB4**	493
16.9	1588	3.1	85.4	35000	**F703_85.4 S3 ME3LB4**	**F703_85.4 S3 MX3LB4**	492	**F703_85.4 P100 BE100LB4**	**F703_85.4 P100 BX100LB4**	493
17.1	1563	1.9	84.0	20000	**F603_84.0 S3 ME3LB4**	**F603_84.0 S3 MX3LB4**	488	**F603_84.0 P100 BE100LB4**	**F603_84.0 P100 BX100LB4**	489
17.3	1548	1.2	83.2	12000	**F513_83.2 S3 ME3LB4**	**F513_83.2 S3 MX3LB4**	484	**F513_83.2 P100 BE100LB4**	**F513_83.2 P100 BX100LB4**	485
18.6	1443	2.0	77.6	20000	**F603_77.6 S3 ME3LB4**	**F603_77.6 S3 MX3LB4**	488	**F603_77.6 P100 BE100LB4**	**F603_77.6 P100 BX100LB4**	489
19.6	1368	3.7	73.6	35000	**F703_73.6 S3 ME3LB4**	**F703_73.6 S3 MX3LB4**	492	**F703_73.6 P100 BE100LB4**	**F703_73.6 P100 BX100LB4**	493
21.1	1270	2.3	68.3	20000	**F603_68.3 S3 ME3LB4**	**F603_68.3 S3 MX3LB4**	488	**F603_68.3 P100 BE100LB4**	**F603_68.3 P100 BX100LB4**	489
21.9	1225	1.5	65.8	12000	**F513_65.8 S3 ME3LB4**	**F513_65.8 S3 MX3LB4**	484	**F513_65.8 P100 BE100LB4**	**F513_65.8 P100 BX100LB4**	485
22.8	1172	2.5	63.0	20000	**F603_63.0 S3 ME3LB4**	**F603_63.0 S3 MX3LB4**	488	**F603_63.0 P100 BE100LB4**	**F603_63.0 P100 BX100LB4**	489
23.9	1121	1.0	60.2	8500	**F413_60.2 S3 ME3LB4**	**F413_60.2 S3 MX3LB4**	480	**F413_60.2 P100 BE100LB4**	**F413_60.2 P100 BX100LB4**	481
27.8	964	3.0	51.8	20000	**F603_51.8 S3 ME3LB4**	**F603_51.8 S3 MX3LB4**	488	**F603_51.8 P100 BE100LB4**	**F603_51.8 P100 BX100LB4**	489
28.0	958	1.1	51.5	8500	**F413_51.5 S3 ME3LB4**	**F413_51.5 S3 MX3LB4**	480	**F413_51.5 P100 BE100LB4**	**F413_51.5 P100 BX100LB4**	481
29.4	910	2.0	48.9	12000	**F513_48.9 S3 ME3LB4**	**F513_48.9 S3 MX3LB4**	484	**F513_48.9 P100 BE100LB4**	**F513_48.9 P100 BX100LB4**	485
30	911	1.2	47.9	8500	**F412_47.9 S3 ME3LB4**	**F412_47.9 S3 MX3LB4**	480	**F412_47.9 P100 BE100LB4**	**F412_47.9 P100 BX100LB4**	481
30	890	3.3	47.8	20000	**F603_47.8 S3 ME3LB4**	**F603_47.8 S3 MX3LB4**	488	**F603_47.8 P100 BE100LB4**	**F603_47.8 P100 BX100LB4**	489
38	725	1.5	38.2	8500	**F412_38.2 S3 ME3LB4**	**F412_38.2 S3 MX3LB4**	480	**F412_38.2 P100 BE100LB4**	**F412_38.2 P100 BX100LB4**	481
39	706	2.4	37.1	11800	**F512_37.1 S3 ME3LB4**	**F512_37.1 S3 MX3LB4**	484	**F512_37.1 P100 BE100LB4**	**F512_37.1 P100 BX100LB4**	485
42	653	0.9	34.4	5810	**F312_34.4 S3 ME3LB4**	**F312_34.4 S3 MX3LB4**	476	**F312_34.4 P100 BE100LB4**	**F312_34.4 P100 BX100LB4**	477
48	572	1.0	30.1	5770	**F312_30.1 S3 ME3LB4**	**F312_30.1 S3 MX3LB4**	476	**F312_30.1 P100 BE100LB4**	**F312_30.1 P100 BX100LB4**	477
48	572	1.9	30.1	8290	**F412_30.1 S3 ME3LB4**	**F412_30.1 S3 MX3LB4**	480	**F412_30.1 P100 BE100LB4**	**F412_30.1 P100 BX100LB4**	481
48	571	3.0	30.0	11200	**F512_30.0 S3 ME3LB4**	**F512_30.0 S3 MX3LB4**	484	**F512_30.0 P100 BE100LB4**	**F512_30.0 P100 BX100LB4**	485
53	518	1.2	27.3	5720	**F312_27.3 S3 ME3LB4**	**F312_27.3 S3 MX3LB4**	476	**F312_27.3 P100 BE100LB4**	**F312_27.3 P100 BX100LB4**	477

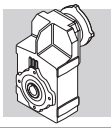


3 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IEC IE2	IEC IE3	
60	458	2.4	24.1	7960	**F412_24.1 S3 ME3LB4**	**F412_24.1 S3 MX3LB4**	480	**F412_24.1 P100 BE100LB4**	**F412_24.1 P100 BX100LB4**	481
61	451	0.9	23.8	3100	**F252_23.8 S3 ME3LB4**	**F252_23.8 S3 MX3LB4**	472	**F252_23.8 P100 BE100LB4**	**F252_23.8 P100 BX100LB4**	473
62	444	1.4	23.4	5620	**F312_23.4 S3 ME3LB4**	**F312_23.4 S3 MX3LB4**	476	**F312_23.4 P100 BE100LB4**	**F312_23.4 P100 BX100LB4**	477
66	415	1.0	21.8	2800	**F252_21.8 S3 ME3LB4**	**F252_21.8 S3 MX3LB4**	472	**F252_21.8 P100 BE100LB4**	**F252_21.8 P100 BX100LB4**	473
68	401	1.5	21.1	5540	**F312_21.1 S3 ME3LB4**	**F312_21.1 S3 MX3LB4**	476	**F312_21.1 P100 BE100LB4**	**F312_21.1 P100 BX100LB4**	477
76	359	3.0	18.9	7560	**F412_18.9 S3 ME3LB4**	**F412_18.9 S3 MX3LB4**	480	**F412_18.9 P100 BE100LB4**	**F412_18.9 P100 BX100LB4**	481
77	354	1.1	18.6	2830	**F252_18.6 S3 ME3LB4**	**F252_18.6 S3 MX3LB4**	472	**F252_18.6 P100 BE100LB4**	**F252_18.6 P100 BX100LB4**	473
78	351	1.7	18.5	5430	**F312_18.5 S3 ME3LB4**	**F312_18.5 S3 MX3LB4**	476	**F312_18.5 P100 BE100LB4**	**F312_18.5 P100 BX100LB4**	477
84	325	3.2	17.1	7400	**F412_17.1 S3 ME3LB4**	**F412_17.1 S3 MX3LB4**	480	**F412_17.1 P100 BE100LB4**	**F412_17.1 P100 BX100LB4**	481
86	319	1.9	16.8	5340	**F312_16.8 S3 ME3LB4**	**F312_16.8 S3 MX3LB4**	476	**F312_16.8 P100 BE100LB4**	**F312_16.8 P100 BX100LB4**	477
87	316	1.3	16.6	2830	**F252_16.6 S3 ME3LB4**	**F252_16.6 S3 MX3LB4**	472	**F252_16.6 P100 BE100LB4**	**F252_16.6 P100 BX100LB4**	473
100	275	1.5	14.5	2810	**F252_14.5 S3 ME3LB4**	**F252_14.5 S3 MX3LB4**	472	**F252_14.5 P100 BE100LB4**	**F252_14.5 P100 BX100LB4**	473
103	265	2.3	13.9	5150	**F312_13.9 S3 ME3LB4**	**F312_13.9 S3 MX3LB4**	476	**F312_13.9 P100 BE100LB4**	**F312_13.9 P100 BX100LB4**	477
111	247	1.6	13.0	2790	**F252_13.0 S3 ME3LB4**	**F252_13.0 S3 MX3LB4**	472	**F252_13.0 P100 BE100LB4**	**F252_13.0 P100 BX100LB4**	473
113	242	2.5	12.7	5060	**F312_12.7 S3 ME3LB4**	**F312_12.7 S3 MX3LB4**	476	**F312_12.7 P100 BE100LB4**	**F312_12.7 P100 BX100LB4**	477
134	204	2.9	10.7	4880	**F312_10.7 S3 ME3LB4**	**F312_10.7 S3 MX3LB4**	476	**F312_10.7 P100 BE100LB4**	**F312_10.7 P100 BX100LB4**	477
136	202	2.0	10.6	2730	**F252_10.6 S3 ME3LB4**	**F252_10.6 S3 MX3LB4**	472	**F252_10.6 P100 BE100LB4**	**F252_10.6 P100 BX100LB4**	473
154	178	1.5	9.4	2710	**F252_9.4 S3 ME3LB4**	**F252_9.4 S3 MX3LB4**	472	**F252_9.4 P100 BE100LB4**	**F252_9.4 P100 BX100LB4**	473
160	171	2.3	9.0	4650	**F312_9.0 S3 ME3LB4**	**F312_9.0 S3 MX3LB4**	476	**F312_9.0 P100 BE100LB4**	**F312_9.0 P100 BX100LB4**	477
165	166	0.9	8.7	1820	**F202_8.7 S3 ME3LB4**	**F202_8.7 S3 MX3LB4**	468	**F202_8.7 P100 BE100LB4**	**F202_8.7 P100 BX100LB4**	469
172	159	1.6	8.4	2660	**F252_8.4 S3 ME3LB4**	**F252_8.4 S3 MX3LB4**	472	**F252_8.4 P100 BE100LB4**	**F252_8.4 P100 BX100LB4**	473
175	156	2.5	8.2	4550	**F312_8.2 S3 ME3LB4**	**F312_8.2 S3 MX3LB4**	476	**F312_8.2 P100 BE100LB4**	**F312_8.2 P100 BX100LB4**	477
184	149	1.0	7.8	1790	**F202_7.8 S3 ME3LB4**	**F202_7.8 S3 MX3LB4**	468	**F202_7.8 P100 BE100LB4**	**F202_7.8 P100 BX100LB4**	469
207	132	3.0	6.9	4360	**F312_6.9 S3 ME3LB4**	**F312_6.9 S3 MX3LB4**	476	**F312_6.9 P100 BE100LB4**	**F312_6.9 P100 BX100LB4**	477
210	131	2.0	6.9	2560	**F252_6.9 S3 ME3LB4**	**F252_6.9 S3 MX3LB4**	472	**F252_6.9 P100 BE100LB4**	**F252_6.9 P100 BX100LB4**	473
222	123	2.9	13.0	2510	**F252_13.0 S3 ME3LB2**		472	**F252_13.0 P100 BE100L2**		473
225	122	1.1	6.4	1730	**F202_6.4 S3 ME3LB4**	**F202_6.4 S3 MX3LB4**	468	**F202_6.4 P100 BE100LB4**	**F202_6.4 P100 BX100LB4**	469
256	106	1.3	11.2	1680	**F202_11.2 S3 ME3LB2**		468	**F202_11.2 P100 BE100L2**		469
271	100	3.2	10.6	2410	**F252_10.6 S3 ME3LB2**		472	**F252_10.6 P100 BE100L2**		473
308	88	3.0	9.4	2350	**F252_9.4 S3 ME3LB2**		472	**F252_9.4 P100 BE100L2**		473
330	83	1.5	8.7	1600	**F202_8.7 S3 ME3LB2**		468	**F202_8.7 P100 BE100L2**		469
343	79	3.3	8.4	2290	**F252_8.4 S3 ME3LB2**		472	**F252_8.4 P100 BE100L2**		473
368	74	1.6	7.8	1560	**F202_7.8 S3 ME3LB2**		468	**F202_7.8 P100 BE100L2**		469
449	61	1.7	6.4	1480	**F202_6.4 S3 ME3LB2**		468	**F202_6.4 P100 BE100L2**		469

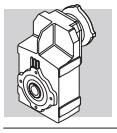
4 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IEC IE2	IEC IE3	
2.3	15202	0.9	625.6	55000	**F904_625.6 S4 ME4SA4**	**F904_625.6 S4 MX4SA4**	498	**F904_625.6 P112 BE112M4**	**F904_625.6 P112 BX112M4**	499
2.5	14033	1.0	577.5	55000	**F904_577.5 S4 ME4SA4**	**F904_577.5 S4 MX4SA4**	498	**F904_577.5 P112 BE112M4**	**F904_577.5 P112 BX112M4**	499
2.9	12042	1.2	495.6	55000	**F904_495.6 S4 ME4SA4**	**F904_495.6 S4 MX4SA4**	498	**F904_495.6 P112 BE112M4**	**F904_495.6 P112 BX112M4**	499
3.1	11116	1.3	457.5	55000	**F904_457.5 S4 ME4SA4**	**F904_457.5 S4 MX4SA4**	498	**F904_457.5 P112 BE112M4**	**F904_457.5 P112 BX112M4**	499
3.7	9526	1.5	392.0	55000	**F904_392.0 S4 ME4SA4**	**F904_392.0 S4 MX4SA4**	498	**F904_392.0 P112 BE112M4**	**F904_392.0 P112 BX112M4**	499
4.0	8793	1.6	361.8	55000	**F904_361.8 S4 ME4SA4**	**F904_361.8 S4 MX4SA4**	498	**F904_361.8 P112 BE112M4**	**F904_361.8 P112 BX112M4**	499
4.1	8594	0.9	353.7	45000	**F804_353.7 S4 ME4SA4**	**F804_353.7 S4 MX4SA4**	495	**F804_353.7 P112 BE112M4**	**F804_353.7 P112 BX112M4**	496
4.9	7210	1.1	296.7	45000	**F804_296.7 S4 ME4SA4**	**F804_296.7 S4 MX4SA4**	495	**F804_296.7 P112 BE112M4**	**F804_296.7 P112 BX112M4**	496
4.9	7074	2.0	291.1	55000	**F904_291.1 S4 ME4SA4**	**F904_291.1 S4 MX4SA4**	498	**F904_291.1 P112 BE112M4**	**F904_291.1 P112 BX112M4**	499
5.3	6656	1.2	273.9	45000	**F804_273.9 S4 ME4SA4**	**F804_273.9 S4 MX4SA4**	495	**F804_273.9 P112 BE112M4**	**F804_273.9 P112 BX112M4**	496
5.4	6530	2.1	268.7	55000	**F904_268.7 S4 ME4SA4**	**F904_268.7 S4 MX4SA4**	498	**F904_268.7 P112 BE112M4**	**F904_268.7 P112 BX112M4**	499
6.1	5700	0.9	234.6	35000	**F704_234.6 S4 ME4SA4**	**F704_234.6 S4 MX4SA4**	492	**F704_234.6 P112 BE112M4**	**F704_234.6 P112 BX112M4**	493
6.2	5623	2.5	231.4	55000	**F904_231.4 S4 ME4SA4**	**F904_231.4 S4 MX4SA4**	498	**F904_231.4 P112 BE112M4**	**F904_231.4 P112 BX112M4**	499
6.6	5309	1.5	218.5	45000	**F804_218.5 S4 ME4SA4**	**F804_218.5 S4 MX4SA4**	495	**F804_218.5 P112 BE112M4**	**F804_218.5 P112 BX112M4**	496
6.7	5262	1.0	216.5	35000	**F704_216.5 S4 ME4SA4**	**F704_216.5 S4 MX4SA4**	492	**F704_216.5 P112 BE112M4**	**F704_216.5 P112 BX112M4**	493
6.7	5190	2.7	213.6	55000	**F904_213.6 S4 ME4SA4**	**F904_213.6 S4 MX4SA4**	498	**F904_213.6 P112 BE112M4**	**F904_213.6 P112 BX112M4**	499
7.2	5022	1.6	200.0	45000	**F803_200.0 S4 ME4SA4**	**F803_200.0 S4 MX4SA4**	495	**F803_200.0 P112 BE112M4**	**F803_200.0 P112 BX112M4**	496
7.3	4922	1.0	196.0	35000	**F703_196.0 S4 ME4SA4**	**F703_196.0 S4 MX4SA4**	492	**F703_196.0 P112 BE112M4**	**F703_196.0 P112 BX112M4**	493
7.4	4875	2.9	194.2	55000	**F903_194.2 S4 ME4SA4**	**F903_194.2 S4 MX4SA4**	498	**F903_194.2 P112 BE112M4**	**F903_194.2 P112 BX112M4**	499
7.8	4636	1.7	184.6	45000	**F803_184.6 S4 ME4SA4**	**F803_184.6 S4 MX4SA4**	495	**F803_184.6 P112 BE112M4**	**F803_184.6 P112 BX112M4**	496
8.0	4544	1.1	180.9	35000	**F703_180.9 S4 ME4SA4**	**F703_180.9 S4 MX4SA4**	492	**F703_180.9 P112 BE112M4**	**F703_180.9 P112 BX112M4**	493
8.0	4500	3.1	179.2	55000	**F903_179.2 S4 ME4SA4**	**F903_179.2 S4 MX4SA4**	498	**F903_179.2 P112 BE112M4**	**F903_179.2 P112 BX112M4**	499
8.6	4185	1.2	166.7	35000	**F703_166.7 S4 ME4SA4**	**F703_166.7 S4 MX4SA4**	492	**F703_166.7 P112 BE112M4**	**F703_166.7 P112 BX112M4**	493



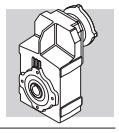
4 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IEC IE2	IEC IE3	
8.8	4089	3.4	162.8	55000	F903_162.8 S4 ME4SA4	F903_162.8 S4 MX4SA4	498	F903_162.8 P112 BE112M4	F903_162.8 P112 BX112M4	499
9.0	4023	2.0	160.2	45000	F803_160.2 S4 ME4SA4	F803_160.2 S4 MX4SA4	495	F803_160.2 P112 BE112M4	F803_160.2 P112 BX112M4	496
9.4	3863	1.3	153.8	35000	F703_153.8 S4 ME4SA4	F703_153.8 S4 MX4SA4	492	F703_153.8 P112 BE112M4	F703_153.8 P112 BX112M4	493
9.7	3714	2.2	147.9	45000	F803_147.9 S4 ME4SA4	F803_147.9 S4 MX4SA4	495	F803_147.9 P112 BE112M4	F803_147.9 P112 BX112M4	496
10.8	3338	1.5	133.0	35000	F703_133.0 S4 ME4SA4	F703_133.0 S4 MX4SA4	492	F703_133.0 P112 BE112M4	F703_133.0 P112 BX112M4	493
10.9	3332	2.4	132.7	45000	F803_132.7 S4 ME4SA4	F803_132.7 S4 MX4SA4	495	F803_132.7 P112 BE112M4	F803_132.7 P112 BX112M4	496
11.0	3277	0.9	130.5	20000	F603_130.5 S4 ME4SA4	F603_130.5 S4 MX4SA4	488	F603_130.5 P112 BE112M4	F603_130.5 P112 BX112M4	489
11.7	3082	1.6	122.7	35000	F703_122.7 S4 ME4SA4	F703_122.7 S4 MX4SA4	492	F703_122.7 P112 BE112M4	F703_122.7 P112 BX112M4	493
11.8	3076	2.6	122.5	45000	F803_122.5 S4 ME4SA4	F803_122.5 S4 MX4SA4	495	F803_122.5 P112 BE112M4	F803_122.5 P112 BX112M4	496
12.0	3025	1.0	120.5	20000	F603_120.5 S4 ME4SA4	F603_120.5 S4 MX4SA4	488	F603_120.5 P112 BE112M4	F603_120.5 P112 BX112M4	489
12.7	2856	2.8	113.8	45000	F803_113.8 S4 ME4SA4	F803_113.8 S4 MX4SA4	495	F803_113.8 P112 BE112M4	F803_113.8 P112 BX112M4	496
13.1	2752	1.8	109.6	35000	F703_109.6 S4 ME4SA4	F703_109.6 S4 MX4SA4	492	F703_109.6 P112 BE112M4	F703_109.6 P112 BX112M4	493
13.5	2671	1.1	106.4	20000	F603_106.4 S4 ME4SA4	F603_106.4 S4 MX4SA4	488	F603_106.4 P112 BE112M4	F603_106.4 P112 BX112M4	489
13.7	2637	3.0	105.0	45000	F803_105.0 S4 ME4SA4	F803_105.0 S4 MX4SA4	495	F803_105.0 P112 BE112M4	F803_105.0 P112 BX112M4	496
14.2	2541	2.0	101.2	35000	F703_101.2 S4 ME4SA4	F703_101.2 S4 MX4SA4	492	F703_101.2 P112 BE112M4	F703_101.2 P112 BX112M4	493
14.7	2466	1.2	98.2	20000	F603_98.2 S4 ME4SA4	F603_98.2 S4 MX4SA4	488	F603_98.2 P112 BE112M4	F603_98.2 P112 BX112M4	489
15.6	2323	2.2	92.5	35000	F703_92.5 S4 ME4SA4	F703_92.5 S4 MX4SA4	492	F703_92.5 P112 BE112M4	F703_92.5 P112 BX112M4	493
16.9	2144	2.3	85.4	35000	F703_85.4 S4 ME4SA4	F703_85.4 S4 MX4SA4	492	F703_85.4 P112 BE112M4	F703_85.4 P112 BX112M4	493
17.1	2110	1.4	84.0	20000	F603_84.0 S4 ME4SA4	F603_84.0 S4 MX4SA4	488	F603_84.0 P112 BE112M4	F603_84.0 P112 BX112M4	489
18.6	1947	1.5	77.6	20000	F603_77.6 S4 ME4SA4	F603_77.6 S4 MX4SA4	488	F603_77.6 P112 BE112M4	F603_77.6 P112 BX112M4	489
19.6	1847	2.7	73.6	35000	F703_73.6 S4 ME4SA4	F703_73.6 S4 MX4SA4	492	F703_73.6 P112 BE112M4	F703_73.6 P112 BX112M4	493
21.1	1715	1.7	68.3	20000	F603_68.3 S4 ME4SA4	F603_68.3 S4 MX4SA4	488	F603_68.3 P112 BE112M4	F603_68.3 P112 BX112M4	489
21.2	1705	2.9	67.9	35000	F703_67.9 S4 ME4SA4	F703_67.9 S4 MX4SA4	492	F703_67.9 P112 BE112M4	F703_67.9 P112 BX112M4	493
21.9	1653	1.1	65.8	12000	F513_65.8 S4 ME4SA4	F513_65.8 S4 MX4SA4	484	F513_65.8 P112 BE112M4	F513_65.8 P112 BX112M4	485
22.8	1583	1.8	63.0	20000	F603_63.0 S4 ME4SA4	F603_63.0 S4 MX4SA4	488	F603_63.0 P112 BE112M4	F603_63.0 P112 BX112M4	489
23.0	1569	3.2	62.5	35000	F703_62.5 S4 ME4SA4	F703_62.5 S4 MX4SA4	492	F703_62.5 P112 BE112M4	F703_62.5 P112 BX112M4	493
25.0	1449	3.5	57.7	35000	F703_57.7 S4 ME4SA4	F703_57.7 S4 MX4SA4	492	F703_57.7 P112 BE112M4	F703_57.7 P112 BX112M4	493
27.8	1301	2.2	51.8	20000	F603_51.8 S4 ME4SA4	F603_51.8 S4 MX4SA4	488	F603_51.8 P112 BE112M4	F603_51.8 P112 BX112M4	489
29.4	1228	1.5	48.9	11600	F513_48.9 S4 ME4SA4	F513_48.9 S4 MX4SA4	484	F513_48.9 P112 BE112M4	F513_48.9 P112 BX112M4	485
30	1201	2.4	47.8	20000	F603_47.8 S4 ME4SA4	F603_47.8 S4 MX4SA4	488	F603_47.8 P112 BE112M4	F603_47.8 P112 BX112M4	489
34	1057	2.7	42.1	20000	F603_42.1 S4 ME4SA4	F603_42.1 S4 MX4SA4	488	F603_42.1 P112 BE112M4	F603_42.1 P112 BX112M4	489
37	975	3.0	38.8	20000	F603_38.8 S4 ME4SA4	F603_38.8 S4 MX4SA4	488	F603_38.8 P112 BE112M4	F603_38.8 P112 BX112M4	489
38	979	1.1	38.2	7720	F412_38.2 S4 ME4SA4	F412_38.2 S4 MX4SA4	480	F412_38.2 P112 BE112M4	F412_38.2 P112 BX112M4	481
39	953	1.8	37.1	11200	F512_37.1 S4 ME4SA4	F512_37.1 S4 MX4SA4	484	F512_37.1 P112 BE112M4	F512_37.1 P112 BX112M4	485
45	806	3.6	32.1	20000	F603_32.1 S4 ME4SA4	F603_32.1 S4 MX4SA4	488			
48	773	1.4	30.1	7610	F412_30.1 S4 ME4SA4	F412_30.1 S4 MX4SA4	480	F412_30.1 P112 BE112M4	F412_30.1 P112 BX112M4	481
48	770	2.2	30.0	10700	F512_30.0 S4 ME4SA4	F512_30.0 S4 MX4SA4	484	F512_30.0 P112 BE112M4	F512_30.0 P112 BX112M4	485
57	638	3.0	25.4	20000	F603_25.4 S4 ME4SA4	F603_25.4 S4 MX4SA4	488	F603_25.4 P112 BE112M4	F603_25.4 P112 BX112M4	489
60	619	1.8	24.1	7420	F412_24.1 S4 ME4SA4	F412_24.1 S4 MX4SA4	480	F412_24.1 P112 BE112M4	F412_24.1 P112 BX112M4	481
61	610	2.7	23.8	10200	F512_23.8 S4 ME4SA4	F512_23.8 S4 MX4SA4	484	F512_23.8 P112 BE112M4	F512_23.8 P112 BX112M4	485
61	589	3.2	23.5	20000	F603_23.5 S4 ME4SA4	F603_23.5 S4 MX4SA4	488	F603_23.5 P112 BE112M4	F603_23.5 P112 BX112M4	489
62	600	1.0	23.4	5040	F312_23.4 S4 ME4SA4	F312_23.4 S4 MX4SA4	476	F312_23.4 P112 BE112M4	F312_23.4 P112 BX112M4	477
68	542	1.1	21.1	5020	F312_21.1 S4 ME4SA4	F312_21.1 S4 MX4SA4	476	F312_21.1 P112 BE112M4	F312_21.1 P112 BX112M4	477
76	485	2.2	18.9	7150	F412_18.9 S4 ME4SA4	F412_18.9 S4 MX4SA4	480	F412_18.9 P112 BE112M4	F412_18.9 P112 BX112M4	481
77	483	3.2	18.8	9640	F512_18.8 S4 ME4SA4	F512_18.8 S4 MX4SA4	484	F512_18.8 P112 BE112M4	F512_18.8 P112 BX112M4	485
78	474	1.3	18.5	4980	F312_18.5 S4 ME4SA4	F312_18.5 S4 MX4SA4	476	F312_18.5 P112 BE112M4	F312_18.5 P112 BX112M4	477
84	439	2.4	17.1	7030	F412_17.1 S4 ME4SA4	F412_17.1 S4 MX4SA4	480	F412_17.1 P112 BE112M4	F412_17.1 P112 BX112M4	481
86	431	1.4	16.8	4930	F312_16.8 S4 ME4SA4	F312_16.8 S4 MX4SA4	476	F312_16.8 P112 BE112M4	F312_16.8 P112 BX112M4	477
98	375	2.7	14.6	6820	F412_14.6 S4 ME4SA4	F412_14.6 S4 MX4SA4	480	F412_14.6 P112 BE112M4	F412_14.6 P112 BX112M4	481
103	358	1.7	13.9	4820	F312_13.9 S4 ME4SA4	F312_13.9 S4 MX4SA4	476	F312_13.9 P112 BE112M4	F312_13.9 P112 BX112M4	477
113	326	1.8	12.7	4750	F312_12.7 S4 ME4SA4	F312_12.7 S4 MX4SA4	476	F312_12.7 P112 BE112M4	F312_12.7 P112 BX112M4	477
134	276	3.3	10.8	6380	F412_10.8 S4 ME4SA4	F412_10.8 S4 MX4SA4	480	F412_10.8 P112 BE112M4	F412_10.8 P112 BX112M4	481
134	276	2.2	10.7	4620	F312_10.7 S4 ME4SA4	F312_10.7 S4 MX4SA4	476	F312_10.7 P112 BE112M4	F312_10.7 P112 BX112M4	477
158	234	3.0	9.1	6160	F412_9.1 S4 ME4SA4	F412_9.1 S4 MX4SA4	480	F412_9.1 P112 BE112M4	F412_9.1 P112 BX112M4	481
160	231	1.7	9.0	4420	F312_9.0 S4 ME4SA4	F312_9.0 S4 MX4SA4	476	F312_9.0 P112 BE112M4	F312_9.0 P112 BX112M4	477
175	211	1.8	8.2	4350	F312_8.2 S4 ME4SA4	F312_8.2 S4 MX4SA4	476	F312_8.2 P112 BE112M4	F312_8.2 P112 BX112M4	477
207	178	2.2	6.9	4200	F312_6.9 S4 ME4SA4	F312_6.9 S4 MX4SA4	476	F312_6.9 P112 BE112M4	F312_6.9 P112 BX112M4	477
228	159	3.5	12.7	4120	F312_12.7 S4 ME4SA2		476	F312_12.7 P112 BE112M2		477
322	113	3.4	9.0	3760	F312_9.0 S4 ME4SA2		476	F312_9.0 P112 BE112M2		477



5.5 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IEC IE2	IEC IE3	
2.9	16057	0.9	495.6	55000	**F904_495.6 S4 ME4SB4**	**F904_495.6 S4 MX4SB4**	498	**F904_495.6 P132 BE132S4**	**F904_495.6 P132 BX132SB4**	499
3.2	14821	0.9	457.5	55000	**F904_457.5 S4 ME4SB4**	**F904_457.5 S4 MX4SB4**	498	**F904_457.5 P132 BE132S4**	**F904_457.5 P132 BX132SB4**	499
3.7	12701	1.1	392.0	55000	**F904_392.0 S4 ME4SB4**	**F904_392.0 S4 MX4SB4**	498	**F904_392.0 P132 BE132S4**	**F904_392.0 P132 BX132SB4**	499
4.0	11724	1.2	361.8	55000	**F904_361.8 S4 ME4SB4**	**F904_361.8 S4 MX4SB4**	498	**F904_361.8 P132 BE132S4**	**F904_361.8 P132 BX132SB4**	499
5.0	9432	1.5	291.1	55000	**F904_291.1 S4 ME4SB4**	**F904_291.1 S4 MX4SB4**	498	**F904_291.1 P132 BE132S4**	**F904_291.1 P132 BX132SB4**	499
5.3	8874	0.9	273.9	45000	**F804_273.9 S4 ME4SB4**	**F804_273.9 S4 MX4SB4**	495	**F804_273.9 P132 BE132S4**	**F804_273.9 P132 BX132SB4**	496
5.4	8707	1.6	268.7	55000	**F904_268.7 S4 ME4SB4**	**F904_268.7 S4 MX4SB4**	498	**F904_268.7 P132 BE132S4**	**F904_268.7 P132 BX132SB4**	499
6.3	7497	1.9	231.4	55000	**F904_231.4 S4 ME4SB4**	**F904_231.4 S4 MX4SB4**	498	**F904_231.4 P132 BE132S4**	**F904_231.4 P132 BX132SB4**	499
6.7	7079	1.1	218.5	45000	**F804_218.5 S4 ME4SB4**	**F804_218.5 S4 MX4SB4**	495	**F804_218.5 P132 BE132S4**	**F804_218.5 P132 BX132SB4**	496
6.8	6920	2.0	213.6	55000	**F904_213.6 S4 ME4SB4**	**F904_213.6 S4 MX4SB4**	498	**F904_213.6 P132 BE132S4**	**F904_213.6 P132 BX132SB4**	499
7.3	6696	1.2	200.0	45000	**F803_200.0 S4 ME4SB4**	**F803_200.0 S4 MX4SB4**	495	**F803_200.0 P132 BE132S4**	**F803_200.0 P132 BX132SB4**	496
7.5	6500	2.2	194.2	55000	**F903_194.2 S4 ME4SB4**	**F903_194.2 S4 MX4SB4**	498	**F903_194.2 P132 BE132S4**	**F903_194.2 P132 BX132SB4**	499
7.9	6181	1.3	184.6	45000	**F803_184.6 S4 ME4SB4**	**F803_184.6 S4 MX4SB4**	495	**F803_184.6 P132 BE132S4**	**F803_184.6 P132 BX132SB4**	496
8.1	6000	2.3	179.2	55000	**F903_179.2 S4 ME4SB4**	**F903_179.2 S4 MX4SB4**	498	**F903_179.2 P132 BE132S4**	**F903_179.2 P132 BX132SB4**	499
8.8	5580	0.9	166.7	35000	**F703_166.7 S4 ME4SB4**	**F703_166.7 S4 MX4SB4**	492	**F703_166.7 P132 BE132S4**	**F703_166.7 P132 BX132SB4**	493
9.0	5452	2.6	162.8	55000	**F903_162.8 S4 ME4SB4**	**F903_162.8 S4 MX4SB4**	498	**F903_162.8 P132 BE132S4**	**F903_162.8 P132 BX132SB4**	499
9.1	5364	1.5	160.2	45000	**F803_160.2 S4 ME4SB4**	**F803_160.2 S4 MX4SB4**	495	**F803_160.2 P132 BE132S4**	**F803_160.2 P132 BX132SB4**	496
9.5	5151	1.0	153.8	35000	**F703_153.8 S4 ME4SB4**	**F703_153.8 S4 MX4SB4**	492	**F703_153.8 P132 BE132S4**	**F703_153.8 P132 BX132SB4**	493
9.7	5032	2.8	150.3	55000	**F903_150.3 S4 ME4SB4**	**F903_150.3 S4 MX4SB4**	498	**F903_150.3 P132 BE132S4**	**F903_150.3 P132 BX132SB4**	499
9.9	4952	1.6	147.9	45000	**F803_147.9 S4 ME4SB4**	**F803_147.9 S4 MX4SB4**	495	**F803_147.9 P132 BE132S4**	**F803_147.9 P132 BX132SB4**	496
10.6	4598	3.0	137.3	55000	**F903_137.3 S4 ME4SB4**	**F903_137.3 S4 MX4SB4**	498	**F903_137.3 P132 BE132S4**	**F903_137.3 P132 BX132SB4**	499
11.0	4451	1.1	133.0	35000	**F703_133.0 S4 ME4SB4**	**F703_133.0 S4 MX4SB4**	492	**F703_133.0 P132 BE132S4**	**F703_133.0 P132 BX132SB4**	493
11.0	4443	1.8	132.7	45000	**F803_132.7 S4 ME4SB4**	**F803_132.7 S4 MX4SB4**	495	**F803_132.7 P132 BE132S4**	**F803_132.7 P132 BX132SB4**	496
11.5	4244	3.3	126.8	55000	**F903_126.8 S4 ME4SB4**	**F903_126.8 S4 MX4SB4**	498	**F903_126.8 P132 BE132S4**	**F903_126.8 P132 BX132SB4**	499
11.9	4109	1.2	122.7	35000	**F703_122.7 S4 ME4SB4**	**F703_122.7 S4 MX4SB4**	492	**F703_122.7 P132 BE132S4**	**F703_122.7 P132 BX132SB4**	493
11.9	4101	2.0	122.5	45000	**F803_122.5 S4 ME4SB4**	**F803_122.5 S4 MX4SB4**	495	**F803_122.5 P132 BE132S4**	**F803_122.5 P132 BX132SB4**	496
12.8	3808	2.1	113.8	45000	**F803_113.8 S4 ME4SB4**	**F803_113.8 S4 MX4SB4**	495	**F803_113.8 P132 BE132S4**	**F803_113.8 P132 BX132SB4**	496
13.3	3670	1.4	109.6	35000	**F703_109.6 S4 ME4SB4**	**F703_109.6 S4 MX4SB4**	492	**F703_109.6 P132 BE132S4**	**F703_109.6 P132 BX132SB4**	493
13.9	3515	2.3	105.0	45000	**F803_105.0 S4 ME4SB4**	**F803_105.0 S4 MX4SB4**	495	**F803_105.0 P132 BE132S4**	**F803_105.0 P132 BX132SB4**	496
14.4	3388	1.5	101.2	35000	**F703_101.2 S4 ME4SB4**	**F703_101.2 S4 MX4SB4**	492	**F703_101.2 P132 BE132S4**	**F703_101.2 P132 BX132SB4**	493
15.8	3097	1.6	92.5	35000	**F703_92.5 S4 ME4SB4**	**F703_92.5 S4 MX4SB4**	492	**F703_92.5 P132 BE132S4**	**F703_92.5 P132 BX132SB4**	493
15.8	3090	2.6	92.3	45000	**F803_92.3 S4 ME4SB4**	**F803_92.3 S4 MX4SB4**	495	**F803_92.3 P132 BE132S4**	**F803_92.3 P132 BX132SB4**	496
17.1	2859	1.7	85.4	35000	**F703_85.4 S4 ME4SB4**	**F703_85.4 S4 MX4SB4**	492	**F703_85.4 P132 BE132S4**	**F703_85.4 P132 BX132SB4**	493
17.1	2853	2.8	85.2	45000	**F803_85.2 S4 ME4SB4**	**F803_85.2 S4 MX4SB4**	495	**F803_85.2 P132 BE132S4**	**F803_85.2 P132 BX132SB4**	496
17.4	2813	1.0	84.0	20000	**F603_84.0 S4 ME4SB4**	**F603_84.0 S4 MX4SB4**	488	**F603_84.0 P132 BE132S4**	**F603_84.0 P132 BX132SB4**	489
18.8	2597	1.1	77.6	20000	**F603_77.6 S4 ME4SB4**	**F603_77.6 S4 MX4SB4**	488	**F603_77.6 P132 BE132S4**	**F603_77.6 P132 BX132SB4**	489
19.1	2553	3.1	76.3	45000	**F803_76.3 S4 ME4SB4**	**F803_76.3 S4 MX4SB4**	495	**F803_76.3 P132 BE132S4**	**F803_76.3 P132 BX132SB4**	496
19.8	2463	2.0	73.6	35000	**F703_73.6 S4 ME4SB4**	**F703_73.6 S4 MX4SB4**	492	**F703_73.6 P132 BE132S4**	**F703_73.6 P132 BX132SB4**	493
20.7	2356	3.4	70.4	45000	**F803_70.4 S4 ME4SB4**	**F803_70.4 S4 MX4SB4**	495	**F803_70.4 P132 BE132S4**	**F803_70.4 P132 BX132SB4**	496
21.4	2286	1.3	68.3	20000	**F603_68.3 S4 ME4SB4**	**F603_68.3 S4 MX4SB4**	488	**F603_68.3 P132 BE132S4**	**F603_68.3 P132 BX132SB4**	489
21.5	2273	2.2	67.9	35000	**F703_67.9 S4 ME4SB4**	**F703_67.9 S4 MX4SB4**	492	**F703_67.9 P132 BE132S4**	**F703_67.9 P132 BX132SB4**	493
23.2	2110	1.4	63.0	20000	**F603_63.0 S4 ME4SB4**	**F603_63.0 S4 MX4SB4**	488	**F603_63.0 P132 BE132S4**	**F603_63.0 P132 BX132SB4**	489
23.4	2093	2.4	62.5	35000	**F703_62.5 S4 ME4SB4**	**F703_62.5 S4 MX4SB4**	492	**F703_62.5 P132 BE132S4**	**F703_62.5 P132 BX132SB4**	493
25.3	1932	2.6	57.7	35000	**F703_57.7 S4 ME4SB4**	**F703_57.7 S4 MX4SB4**	492	**F703_57.7 P132 BE132S4**	**F703_57.7 P132 BX132SB4**	493
28.2	1735	1.7	51.8	20000	**F603_51.8 S4 ME4SB4**	**F603_51.8 S4 MX4SB4**	488	**F603_51.8 P132 BE132S4**	**F603_51.8 P132 BX132SB4**	489
30	1639	3.1	49.0	35000	**F703_49.0 S4 ME4SB4**	**F703_49.0 S4 MX4SB4**	492	**F703_49.0 P132 BE132S4**	**F703_49.0 P132 BX132SB4**	493
30	1637	1.1	48.9	10300	**F513_48.9 S4 ME4SB4**	**F513_48.9 S4 MX4SB4**	484	**F513_48.9 P132 BE132S4**	**F513_48.9 P132 BX132SB4**	485
31	1602	1.8	47.8	20000	**F603_47.8 S4 ME4SB4**	**F603_47.8 S4 MX4SB4**	488	**F603_47.8 P132 BE132S4**	**F603_47.8 P132 BX132SB4**	489
32	1513	3.3	45.2	34300	**F703_45.2 S4 ME4SB4**	**F703_45.2 S4 MX4SB4**	492	**F703_45.2 P132 BE132S4**	**F703_45.2 P132 BX132SB4**	493
35	1409	2.1	42.1	20000	**F603_42.1 S4 ME4SB4**	**F603_42.1 S4 MX4SB4**	488	**F603_42.1 P132 BE132S4**	**F603_42.1 P132 BX132SB4**	489
38	1301	2.2	38.8	20000	**F603_38.8 S4 ME4SB4**	**F603_38.8 S4 MX4SB4**	488	**F603_38.8 P132 BE132S4**	**F603_38.8 P132 BX132SB4**	489
39	1270	1.3	37.1	10300	**F512_37.1 S4 ME4SB4**	**F512_37.1 S4 MX4SB4**	484	**F512_37.1 P132 BE132S4**	**F512_37.1 P132 BX132SB4**	485
46	1074	2.7	32.1	20000	**F603_32.1 S4 ME4SB4**	**F603_32.1 S4 MX4SB4**	488	**F603_32.1 P132 BE132S4**	**F603_32.1 P132 BX132SB4**	489
48	1030	1.1	30.1	6580	**F412_30.1 S4 ME4SB4**	**F412_30.1 S4 MX4SB4**	480	**F412_30.1 P132 BE132S4**	**F412_30.1 P132 BX132SB4**	481
49	1027	1.7	30.0	9950	**F512_30.0 S4 ME4SB4**	**F512_30.0 S4 MX4SB4**	484	**F512_30.0 P132 BE132S4**	**F512_30.0 P132 BX132SB4**	485
49	992	2.9	29.6	20000	**F603_29.6 S4 ME4SB4**	**F603_29.6 S4 MX4SB4**	488	**F603_29.6 P132 BE132S4**	**F603_29.6 P132 BX132SB4**	489
57	851	2.2	25.4	20000	**F603_25.4 S4 ME4SB4**	**F603_25.4 S4 MX4SB4**	488	**F603_25.4 P132 BE132S4**	**F603_25.4 P132 BX132SB4**	489
61	825	1.3	24.1	6580	**F412_24.1 S4 ME4SB4**	**F412_24.1 S4 MX4SB4**	480	**F412_24.1 P132 BE132S4**	**F412_24.1 P132 BX132SB4**	481
61	814	2.0	23.8	9560	**F512_23.8 S4 ME4SB4**	**F512_23.8 S4 MX4SB4**	484	**F512_23.8 P132 BE132S4**	**F512_23.8 P132 BX132SB4**	485
62	786	2.4	23.5	20000	**F603_23.5 S4 ME4SB4**	**F603_23.5 S4 MX4SB4**	488	**F603_23.5 P132 BE132S4**	**F603_23.5 P132 BX132SB4**	489
71	692	2.7	20.7	20000	**F603_20.7 S4 ME4SB4**	**F603_20.7 S4 MX4SB4**	488	**F603_20.7 P132 BE132S4**	**F603_20.7 P132 BX132SB4**	489
77	638	3.0	19.1	20000	**F603_19.1 S4 ME4SB4**	**F603_19.1 S4 MX4SB4**	488	**F603_19.1 P132 BE132S4**	**F603_19.1 P132 BX132SB4**	489
77	646	1.7	18.9	6480	**F412_18.9 S4 ME4SB4**	**F412_18.9 S4 MX4SB4**	480	**F412_18.9 P132 BE132S4**	**F412_18.9 P132 BX132SB4**	481
78	644	2.4	18.8	9110	**F512_18.8 S4 ME4SB4**	**F512_18.8 S4 MX4SB4**	484	**F512_18.8 P132 BE132S4**	**F512_18.8 P132 BX132SB4**	485
79	632	0.9	18.5	4480	**F312_18.5 S4 ME4SB4**	**F312_18.5 S4 MX4SB4**	476	**F312_18.5 P132 BE132S4**	**F312_18.5 P132 BX132SB4**	477

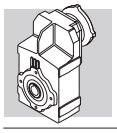


5.5 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IEC IE2	IEC IE3	
85	585	1.8	17.1	6410	**F412_17.1 S4 ME4SB4**	**F412_17.1 S4 MX4SB4**	480	**F412_17.1 P132 BE132S4**	**F412_17.1 P132 BX132SB4**	481
87	575	1.0	16.8	4300	**F312_16.8 S4 ME4SB4**	**F312_16.8 S4 MX4SB4**	476	**F312_16.8 P132 BE132S4**	**F312_16.8 P132 BX132SB4**	477
100	500	2.0	14.6	6280	**F412_14.6 S4 ME4SB4**	**F412_14.6 S4 MX4SB4**	480	**F412_14.6 P132 BE132S4**	**F412_14.6 P132 BX132SB4**	481
104	478	3.0	14.0	8520	**F512_14.0 S4 ME4SB4**	**F512_14.0 S4 MX4SB4**	484	**F512_14.0 P132 BE132S4**	**F512_14.0 P132 BX132SB4**	485
105	477	1.3	13.9	4180	**F312_13.9 S4 ME4SB4**	**F312_13.9 S4 MX4SB4**	476	**F312_13.9 P132 BE132S4**	**F312_13.9 P132 BX132SB4**	477
115	435	1.4	12.7	3980	**F312_12.7 S4 ME4SB4**	**F312_12.7 S4 MX4SB4**	476	**F312_12.7 P132 BE132S4**	**F312_12.7 P132 BX132SB4**	477
131	380	3.5	11.1	8050	**F512_11.1 S4 ME4SB4**	**F512_11.1 S4 MX4SB4**	484	**F512_11.1 P132 BE132S4**	**F512_11.1 P132 BX132SB4**	485
136	368	2.4	10.8	5970	**F412_10.8 S4 ME4SB4**	**F412_10.8 S4 MX4SB4**	480	**F412_10.8 P132 BE132S4**	**F412_10.8 P132 BX132SB4**	481
136	368	1.6	10.7	3880	**F312_10.7 S4 ME4SB4**	**F312_10.7 S4 MX4SB4**	476	**F312_10.7 P132 BE132S4**	**F312_10.7 P132 BX132SB4**	477
160	312	2.2	9.1	5810	**F412_9.1 S4 ME4SB4**	**F412_9.1 S4 MX4SB4**	480	**F412_9.1 P132 BE132S4**	**F412_9.1 P132 BX132SB4**	481
161	310	3.6	9.1	7590	**F512_9.1 S4 ME4SB4**	**F512_9.1 S4 MX4SB4**	484	**F512_9.1 P132 BE132S4**	**F512_9.1 P132 BX132SB4**	485
162	308	1.3	9.0	3850	**F312_9.0 S4 ME4SB4**	**F312_9.0 S4 MX4SB4**	476	**F312_9.0 P132 BE132S4**	**F312_9.0 P132 BX132SB4**	477
177	281	1.4	8.2	3750	**F312_8.2 S4 ME4SB4**	**F312_8.2 S4 MX4SB4**	476	**F312_8.2 P132 BE132S4**	**F312_8.2 P132 BX132SB4**	477
200	250	3.3	14.6	5510	**F412_14.6 S4 ME4SB2**		480	**F412_14.6 P132 BE132SA2**		481
210	238	1.6	6.9	3610	**F312_6.9 S4 ME4SB4**	**F312_6.9 S4 MX4SB4**	476	**F312_6.9 P132 BE132S4**	**F312_6.9 P132 BX132SB4**	477
217	230	2.8	6.7	5430	**F412_6.7 S4 ME4SB4**	**F412_6.7 S4 MX4SB4**	480	**F412_6.7 P132 BE132S4**	**F412_6.7 P132 BX132SB4**	481
272	184	4.0	10.8	5120	**F412_10.8 S4 ME4SB2**		480	**F412_10.8 P132 BE132SA2**		481
320	156	3.9	9.1	4930	**F412_9.1 S4 ME4SB2**		480	**F412_9.1 P132 BE132SA2**		481

7.5 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IEC IE2	IEC IE3	
4.0	15957	0.9	361.8	55000	**F904_361.8 S4 ME4LA4**	**F904_361.8 S4 MX4LA4**	498	**F904_361.8 P132 BE132MA4**	**F904_361.8 P132 BX132MA4**	499
5.0	12838	1.1	291.1	55000	**F904_291.1 S4 ME4LA4**	**F904_291.1 S4 MX4LA4**	498	**F904_291.1 P132 BE132MA4**	**F904_291.1 P132 BX132MA4**	499
5.4	11851	1.2	268.7	55000	**F904_268.7 S4 ME4LA4**	**F904_268.7 S4 MX4LA4**	498	**F904_268.7 P132 BE132MA4**	**F904_268.7 P132 BX132MA4**	499
6.3	10204	1.4	231.4	55000	**F904_231.4 S4 ME4LA4**	**F904_231.4 S4 MX4LA4**	498	**F904_231.4 P132 BE132MA4**	**F904_231.4 P132 BX132MA4**	499
6.8	9419	1.5	213.6	55000	**F904_213.6 S4 ME4LA4**	**F904_213.6 S4 MX4LA4**	498	**F904_213.6 P132 BE132MA4**	**F904_213.6 P132 BX132MA4**	499
7.3	9114	0.9	200.0	45000	**F803_200.0 S4 ME4LA4**	**F803_200.0 S4 MX4LA4**	495	**F803_200.0 P132 BE132MA4**	**F803_200.0 P132 BX132MA4**	496
7.5	8848	1.6	194.2	55000	**F903_194.2 S4 ME4LA4**	**F903_194.2 S4 MX4LA4**	498	**F903_194.2 P132 BE132MA4**	**F903_194.2 P132 BX132MA4**	499
7.9	8413	1.0	184.6	45000	**F803_184.6 S4 ME4LA4**	**F803_184.6 S4 MX4LA4**	495	**F803_184.6 P132 BE132MA4**	**F803_184.6 P132 BX132MA4**	496
8.1	8167	1.7	179.2	55000	**F903_179.2 S4 ME4LA4**	**F903_179.2 S4 MX4LA4**	498	**F903_179.2 P132 BE132MA4**	**F903_179.2 P132 BX132MA4**	499
8.9	7420	1.9	162.8	55000	**F903_162.8 S4 ME4LA4**	**F903_162.8 S4 MX4LA4**	498	**F903_162.8 P132 BE132MA4**	**F903_162.8 P132 BX132MA4**	499
9.1	7302	1.1	160.2	45000	**F803_160.2 S4 ME4LA4**	**F803_160.2 S4 MX4LA4**	495	**F803_160.2 P132 BE132MA4**	**F803_160.2 P132 BX132MA4**	496
9.7	6849	2.0	150.3	55000	**F903_150.3 S4 ME4LA4**	**F903_150.3 S4 MX4LA4**	498	**F903_150.3 P132 BE132MA4**	**F903_150.3 P132 BX132MA4**	499
9.8	6740	1.2	147.9	45000	**F803_147.9 S4 ME4LA4**	**F803_147.9 S4 MX4LA4**	495	**F803_147.9 P132 BE132MA4**	**F803_147.9 P132 BX132MA4**	496
10.6	6259	2.2	137.3	55000	**F903_137.3 S4 ME4LA4**	**F903_137.3 S4 MX4LA4**	498	**F903_137.3 P132 BE132MA4**	**F903_137.3 P132 BX132MA4**	499
11.0	6047	1.3	132.7	45000	**F803_132.7 S4 ME4LA4**	**F803_132.7 S4 MX4LA4**	495	**F803_132.7 P132 BE132MA4**	**F803_132.7 P132 BX132MA4**	496
11.5	5777	2.4	126.8	55000	**F903_126.8 S4 ME4LA4**	**F903_126.8 S4 MX4LA4**	498	**F903_126.8 P132 BE132MA4**	**F903_126.8 P132 BX132MA4**	499
11.9	5593	0.9	122.7	35000	**F703_122.7 S4 ME4LA4**	**F703_122.7 S4 MX4LA4**	492	**F703_122.7 P132 BE132MA4**	**F703_122.7 P132 BX132MA4**	493
11.9	5582	1.4	122.5	45000	**F803_122.5 S4 ME4LA4**	**F803_122.5 S4 MX4LA4**	495	**F803_122.5 P132 BE132MA4**	**F803_122.5 P132 BX132MA4**	496
12.8	5184	1.5	113.8	45000	**F803_113.8 S4 ME4LA4**	**F803_113.8 S4 MX4LA4**	495	**F803_113.8 P132 BE132MA4**	**F803_113.8 P132 BX132MA4**	496
13.0	5101	2.7	111.9	55000	**F903_111.9 S4 ME4LA4**	**F903_111.9 S4 MX4LA4**	498	**F903_111.9 P132 BE132MA4**	**F903_111.9 P132 BX132MA4**	499
13.3	4995	1.0	109.6	35000	**F703_109.6 S4 ME4LA4**	**F703_109.6 S4 MX4LA4**	492	**F703_109.6 P132 BE132MA4**	**F703_109.6 P132 BX132MA4**	493
13.9	4785	1.7	105.0	45000	**F803_105.0 S4 ME4LA4**	**F803_105.0 S4 MX4LA4**	495	**F803_105.0 P132 BE132MA4**	**F803_105.0 P132 BX132MA4**	496
14.1	4709	3.0	103.3	55000	**F903_103.3 S4 ME4LA4**	**F903_103.3 S4 MX4LA4**	498	**F903_103.3 P132 BE132MA4**	**F903_103.3 P132 BX132MA4**	499
14.4	4611	1.1	101.2	35000	**F703_101.2 S4 ME4LA4**	**F703_101.2 S4 MX4LA4**	492	**F703_101.2 P132 BE132MA4**	**F703_101.2 P132 BX132MA4**	493
15.2	4364	3.2	95.8	55000	**F903_95.8 S4 ME4LA4**	**F903_95.8 S4 MX4LA4**	498	**F903_95.8 P132 BE132MA4**	**F903_95.8 P132 BX132MA4**	499
15.7	4215	1.2	92.5	35000	**F703_92.5 S4 ME4LA4**	**F703_92.5 S4 MX4LA4**	492	**F703_92.5 P132 BE132MA4**	**F703_92.5 P132 BX132MA4**	493
15.8	4206	1.9	92.3	45000	**F803_92.3 S4 ME4LA4**	**F803_92.3 S4 MX4LA4**	495	**F803_92.3 P132 BE132MA4**	**F803_92.3 P132 BX132MA4**	496
16.5	4028	3.5	88.4	55000	**F903_88.4 S4 ME4LA4**	**F903_88.4 S4 MX4LA4**	498	**F903_88.4 P132 BE132MA4**	**F903_88.4 P132 BX132MA4**	499
17.0	3891	1.3	85.4	35000	**F703_85.4 S4 ME4LA4**	**F703_85.4 S4 MX4LA4**	492	**F703_85.4 P132 BE132MA4**	**F703_85.4 P132 BX132MA4**	493
17.1	3883	2.1	85.2	45000	**F803_85.2 S4 ME4LA4**	**F803_85.2 S4 MX4LA4**	495	**F803_85.2 P132 BE132MA4**	**F803_85.2 P132 BX132MA4**	496
19.1	3475	2.3	76.3	45000	**F803_76.3 S4 ME4LA4**	**F803_76.3 S4 MX4LA4**	495	**F803_76.3 P132 BE132MA4**	**F803_76.3 P132 BX132MA4**	496
19.8	3352	1.5	73.6	35000	**F703_73.6 S4 ME4LA4**	**F703_73.6 S4 MX4LA4**	492	**F703_73.6 P132 BE132MA4**	**F703_73.6 P132 BX132MA4**	493
20.7	3207	2.5	70.4	44700	**F803_70.4 S4 ME4LA4**	**F803_70.4 S4 MX4LA4**	495	**F803_70.4 P132 BE132MA4**	**F803_70.4 P132 BX132MA4**	496
21.3	3112	0.9	68.3	20000	**F603_68.3 S4 ME4LA4**	**F603_68.3 S4 MX4LA4**	488	**F603_68.3 P132 BE132MA4**	**F603_68.3 P132 BX132MA4**	489
21.4	3094	1.6	67.9	35000	**F703_67.9 S4 ME4LA4**	**F703_67.9 S4 MX4LA4**	492	**F703_67.9 P132 BE132MA4**	**F703_67.9 P132 BX132MA4**	493
23.1	2872	1.0	63.0	20000	**F603_63.0 S4 ME4LA4**	**F603_63.0 S4 MX4LA4**	488	**F603_63.0 P132 BE132MA4**	**F603_63.0 P132 BX132MA4**	489
23.3	2848	1.8	62.5	35000	**F703_62.5 S4 ME4LA4**	**F703_62.5 S4 MX4LA4**	492	**F703_62.5 P132 BE132MA4**	**F703_62.5 P132 BX132MA4**	493
23.7	2801	2.9	61.5	43500	**F803_61.5 S4 ME4LA4**	**F803_61.5 S4 MX4LA4**	495	**F803_61.5 P132 BE132MA4**	**F803_61.5 P132 BX132MA4**	496
25.2	2629	1.9	57.7	34900	**F703_57.7 S4 ME4LA4**	**F703_57.7 S4 MX4LA4**	492	**F703_57.7 P132 BE132MA4**	**F703_57.7 P132 BX132MA4**	493

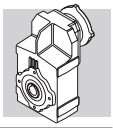


7.5 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IEC IE2	IEC IE3	
25.6	2585	3.1	56.7	42600	**F803_56.7 S4 ME4LA4**	**F803_56.7 S4 MX4LA4**	495	**F803_56.7 P132 BE132MA4**	**F803_56.7 P132 BX132MA4**	496
28.1	2362	1.2	51.8	20000	**F603_51.8 S4 ME4LA4**	**F603_51.8 S4 MX4LA4**	488	**F603_51.8 P132 BE132MA4**	**F603_51.8 P132 BX132MA4**	489
29.7	2231	2.2	49.0	33800	**F703_49.0 S4 ME4LA4**	**F703_49.0 S4 MX4LA4**	492	**F703_49.0 P132 BE132MA4**	**F703_49.0 P132 BX132MA4**	493
30	2180	1.3	47.8	20000	**F603_47.8 S4 ME4LA4**	**F603_47.8 S4 MX4LA4**	488	**F603_47.8 P132 BE132MA4**	**F603_47.8 P132 BX132MA4**	489
32	2059	2.4	45.2	33200	**F703_45.2 S4 ME4LA4**	**F703_45.2 S4 MX4LA4**	492	**F703_45.2 P132 BE132MA4**	**F703_45.2 P132 BX132MA4**	493
35	1918	1.5	42.1	20000	**F603_42.1 S4 ME4LA4**	**F603_42.1 S4 MX4LA4**	488	**F603_42.1 P132 BE132MA4**	**F603_42.1 P132 BX132MA4**	489
37	1770	1.6	38.8	20000	**F603_38.8 S4 ME4LA4**	**F603_38.8 S4 MX4LA4**	488	**F603_38.8 P132 BE132MA4**	**F603_38.8 P132 BX132MA4**	489
39	1729	1.0	37.1	9090	**F512_37.1 S4 ME4LA4**	**F512_37.1 S4 MX4LA4**	484	**F512_37.1 P132 BE132MA4**	**F512_37.1 P132 BX132MA4**	485
45	1462	2.0	32.1	20000	**F603_32.1 S4 ME4LA4**	**F603_32.1 S4 MX4LA4**	488	**F603_32.1 P132 BE132MA4**	**F603_32.1 P132 BX132MA4**	489
48	1398	1.2	30.0	9010	**F512_30.0 S4 ME4LA4**	**F512_30.0 S4 MX4LA4**	484	**F512_30.0 P132 BE132MA4**	**F512_30.0 P132 BX132MA4**	485
49	1350	2.1	29.6	20000	**F603_29.6 S4 ME4LA4**	**F603_29.6 S4 MX4LA4**	488	**F603_29.6 P132 BE132MA4**	**F603_29.6 P132 BX132MA4**	489
57	1158	1.6	25.4	20000	**F603_25.4 S4 ME4LA4**	**F603_25.4 S4 MX4LA4**	488	**F603_25.4 P132 BE132MA4**	**F603_25.4 P132 BX132MA4**	489
60	1123	1.0	24.1	5500	**F412_24.1 S4 ME4LA4**	**F412_24.1 S4 MX4LA4**	480	**F412_24.1 P132 BE132MA4**	**F412_24.1 P132 BX132MA4**	481
61	1108	1.5	23.8	8810	**F512_23.8 S4 ME4LA4**	**F512_23.8 S4 MX4LA4**	484	**F512_23.8 P132 BE132MA4**	**F512_23.8 P132 BX132MA4**	485
62	1069	1.8	23.5	20000	**F603_23.5 S4 ME4LA4**	**F603_23.5 S4 MX4LA4**	488	**F603_23.5 P132 BE132MA4**	**F603_23.5 P132 BX132MA4**	489
70	941	2.0	20.7	20000	**F603_20.7 S4 ME4LA4**	**F603_20.7 S4 MX4LA4**	488	**F603_20.7 P132 BE132MA4**	**F603_20.7 P132 BX132MA4**	489
76	869	2.2	19.1	20000	**F603_19.1 S4 ME4LA4**	**F603_19.1 S4 MX4LA4**	488	**F603_19.1 P132 BE132MA4**	**F603_19.1 P132 BX132MA4**	489
77	879	1.2	18.9	5630	**F412_18.9 S4 ME4LA4**	**F412_18.9 S4 MX4LA4**	480	**F412_18.9 P132 BE132MA4**	**F412_18.9 P132 BX132MA4**	481
77	876	1.8	18.8	8520	**F512_18.8 S4 ME4LA4**	**F512_18.8 S4 MX4LA4**	484	**F512_18.8 P132 BE132MA4**	**F512_18.8 P132 BX132MA4**	485
85	797	1.3	17.1	5650	**F412_17.1 S4 ME4LA4**	**F412_17.1 S4 MX4LA4**	480	**F412_17.1 P132 BE132MA4**	**F412_17.1 P132 BX132MA4**	481
93	715	2.7	15.7	20000	**F603_15.7 S4 ME4LA4**	**F603_15.7 S4 MX4LA4**	488	**F603_15.7 P132 BE132MA4**	**F603_15.7 P132 BX132MA4**	489
99	681	1.5	14.6	5630	**F412_14.6 S4 ME4LA4**	**F412_14.6 S4 MX4LA4**	480	**F412_14.6 P132 BE132MA4**	**F412_14.6 P132 BX132MA4**	481
101	660	2.9	14.5	20000	**F603_14.5 S4 ME4LA4**	**F603_14.5 S4 MX4LA4**	488	**F603_14.5 P132 BE132MA4**	**F603_14.5 P132 BX132MA4**	489
104	651	2.2	14.0	8080	**F512_14.0 S4 ME4LA4**	**F512_14.0 S4 MX4LA4**	484	**F512_14.0 P132 BE132MA4**	**F512_14.0 P132 BX132MA4**	485
104	649	0.9	13.9	3980	**F312_13.9 S4 ME4LA4**	**F312_13.9 S4 MX4LA4**	476	**F312_13.9 P132 BE132MA4**	**F312_13.9 P132 BX132MA4**	477
114	580	3.3	12.7	19900	**F603_12.7 S4 ME4LA4**	**F603_12.7 S4 MX4LA4**	488	**F603_12.7 P132 BE132MA4**	**F603_12.7 P132 BX132MA4**	489
114	592	1.0	12.7	3880	**F312_12.7 S4 ME4LA4**	**F312_12.7 S4 MX4LA4**	476	**F312_12.7 P132 BE132MA4**	**F312_12.7 P132 BX132MA4**	477
124	536	3.5	11.8	19500	**F603_11.8 S4 ME4LA4**	**F603_11.8 S4 MX4LA4**	488	**F603_11.8 P132 BE132MA4**	**F603_11.8 P132 BX132MA4**	489
131	517	2.6	11.1	7700	**F512_11.1 S4 ME4LA4**	**F512_11.1 S4 MX4LA4**	484	**F512_11.1 P132 BE132MA4**	**F512_11.1 P132 BX132MA4**	485
135	501	1.8	10.8	5490	**F412_10.8 S4 ME4LA4**	**F412_10.8 S4 MX4LA4**	480	**F412_10.8 P132 BE132MA4**	**F412_10.8 P132 BX132MA4**	481
135	500	1.2	10.7	3730	**F312_10.7 S4 ME4LA4**	**F312_10.7 S4 MX4LA4**	476	**F312_10.7 P132 BE132MA4**	**F312_10.7 P132 BX132MA4**	477
159	425	1.6	9.1	5410	**F412_9.1 S4 ME4LA4**	**F412_9.1 S4 MX4LA4**	480	**F412_9.1 P132 BE132MA4**	**F412_9.1 P132 BX132MA4**	481
161	421	2.6	9.1	7290	**F512_9.1 S4 ME4LA4**	**F512_9.1 S4 MX4LA4**	484	**F512_9.1 P132 BE132MA4**	**F512_9.1 P132 BX132MA4**	485
161	420	0.9	9.0	3770	**F312_9.0 S4 ME4LA4**	**F312_9.0 S4 MX4LA4**	476	**F312_9.0 P132 BE132MA4**	**F312_9.0 P132 BX132MA4**	477
177	383	1.0	8.2	3680	**F312_8.2 S4 ME4LA4**	**F312_8.2 S4 MX4LA4**	476	**F312_8.2 P132 BE132MA4**	**F312_8.2 P132 BX132MA4**	477
202	335	2.9	7.2	6900	**F512_7.2 S4 ME4LA4**	**F512_7.2 S4 MX4LA4**	484	**F512_7.2 P132 BE132MA4**	**F512_7.2 P132 BX132MA4**	485
209	323	1.2	6.9	3520	**F312_6.9 S4 ME4LA4**	**F312_6.9 S4 MX4LA4**	476	**F312_6.9 P132 BE132MA4**	**F312_6.9 P132 BX132MA4**	477
216	313	2.0	6.7	5140	**F412_6.7 S4 ME4LA4**	**F412_6.7 S4 MX4LA4**	480	**F412_6.7 P132 BE132MA4**	**F412_6.7 P132 BX132MA4**	481
272	251	2.9	10.8	4880	**F412_10.8 S4 ME4LA2**		480	**F412_10.8 P132 BE132SB2**		481
320	213	2.9	9.1	4730	**F412_9.1 S4 ME4LA2**		480	**F412_9.1 P132 BE132SB2**		481
435	156	3.3	6.7	4390	**F412_6.7 S4 ME4LA2**		480	**F412_6.7 P132 BE132SB2**		481

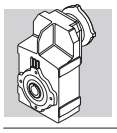
9.2 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IEC IE2	IEC IE3	
5.0	15983	0.9	291.1	55000	**F904_291.1 S4 ME4LB4**		498	**F904_291.1 P132 BE132MB4**	**F904_291.1 P160 BX160MA4**	499
5.4	14753	0.9	268.7	55000	**F904_268.7 S4 ME4LB4**		498	**F904_268.7 P132 BE132MB4**	**F904_268.7 P160 BX160MA4**	499
6.3	12703	1.1	231.4	55000	**F904_231.4 S4 ME4LB4**		498	**F904_231.4 P132 BE132MB4**	**F904_231.4 P160 BX160MA4**	499
6.8	11726	1.2	213.6	55000	**F904_213.6 S4 ME4LB4**		498	**F904_213.6 P132 BE132MB4**	**F904_213.6 P160 BX160MA4**	499
7.5	11014	1.3	194.2	55000	**F903_194.2 S4 ME4LB4**	**F903_194.2 S5 MX5SA4**	498	**F903_194.2 P132 BE132MB4**	**F903_194.2 P160 BX160MA4**	499
8.1	10167	1.4	179.2	55000	**F903_179.2 S4 ME4LB4**	**F903_179.2 S5 MX5SA4**	498	**F903_179.2 P132 BE132MB4**	**F903_179.2 P160 BX160MA4**	499
8.9	9237	1.5	162.8	55000	**F903_162.8 S4 ME4LB4**	**F903_162.8 S5 MX5SA4**	498	**F903_162.8 P132 BE132MB4**	**F903_162.8 P160 BX160MA4**	499
9.0	9090	0.9	160.2	45000	**F803_160.2 S4 ME4LB4**	**F803_160.2 S5 MX5SA4**	495	**F803_160.2 P132 BE132MB4**	**F803_160.2 P160 BX160MA4**	496
9.6	8527	1.6	150.3	55000	**F903_150.3 S4 ME4LB4**	**F903_150.3 S5 MX5SA4**	498	**F903_150.3 P132 BE132MB4**	**F903_150.3 P160 BX160MA4**	499
9.8	8390	1.0	147.9	45000	**F803_147.9 S4 ME4LB4**	**F803_147.9 S5 MX5SA4**	495	**F803_147.9 P132 BE132MB4**	**F803_147.9 P160 BX160MA4**	496
10.6	7791	1.8	137.3	55000	**F903_137.3 S4 ME4LB4**	**F903_137.3 S5 MX5SA4**	498	**F903_137.3 P132 BE132MB4**	**F903_137.3 P160 BX160MA4**	499
10.9	7528	1.1	132.7	45000	**F803_132.7 S4 ME4LB4**	**F803_132.7 S5 MX5SA4**	495	**F803_132.7 P132 BE132MB4**	**F803_132.7 P160 BX160MA4**	496
11.4	7192	1.9	126.8	55000	**F903_126.8 S4 ME4LB4**	**F903_126.8 S5 MX5SA4**	498	**F903_126.8 P132 BE132MB4**	**F903_126.8 P160 BX160MA4**	499
11.8	6949	1.2	122.5	45000	**F803_122.5 S4 ME4LB4**	**F803_122.5 S5 MX5SA4**	495	**F803_122.5 P132 BE132MB4**	**F803_122.5 P160 BX160MA4**	496
12.7	6453	1.2	113.8	45000	**F803_113.8 S4 ME4LB4**	**F803_113.8 S5 MX5SA4**	495	**F803_113.8 P132 BE132MB4**	**F803_113.8 P160 BX160MA4**	496



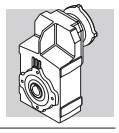
9.2 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IEC IE2	IEC IE3	
13.0	6351	2.2	111.9	55000	**F903_111.9 S4 ME4LB4**	**F903_111.9 S5 MX5SA4**	498	**F903_111.9 P132 BE132MB4**	**F903_111.9 P160 BX160MA4**	499
13.8	5957	1.3	105.0	45000	**F803_105.0 S4 ME4LB4**	**F803_105.0 S5 MX5SA4**	495	**F803_105.0 P132 BE132MB4**	**F803_105.0 P160 BX160MA4**	496
14.0	5862	2.4	103.3	55000	**F903_103.3 S4 ME4LB4**	**F903_103.3 S5 MX5SA4**	498	**F903_103.3 P132 BE132MB4**	**F903_103.3 P160 BX160MA4**	499
15.1	5432	2.6	95.8	55000	**F903_95.8 S4 ME4LB4**	**F903_95.8 S5 MX5SA4**	498	**F903_95.8 P132 BE132MB4**	**F903_95.8 P160 BX160MA4**	499
15.7	5248	1.0	92.5	35000	**F703_92.5 S4 ME4LB4**	**F703_92.5 S5 MX5SA4**	492	**F703_92.5 P132 BE132MB4**	**F703_92.5 P160 BX160MA4**	493
15.7	5237	1.5	92.3	45000	**F803_92.3 S4 ME4LB4**	**F803_92.3 S5 MX5SA4**	495	**F803_92.3 P132 BE132MB4**	**F803_92.3 P160 BX160MA4**	496
16.4	5015	2.8	88.4	55000	**F903_88.4 S4 ME4LB4**	**F903_88.4 S5 MX5SA4**	498	**F903_88.4 P132 BE132MB4**	**F903_88.4 P160 BX160MA4**	499
17.0	4844	1.0	85.4	35000	**F703_85.4 S4 ME4LB4**	**F703_85.4 S5 MX5SA4**	492	**F703_85.4 P132 BE132MB4**	**F703_85.4 P160 BX160MA4**	493
17.0	4834	1.7	85.2	45000	**F803_85.2 S4 ME4LB4**	**F803_85.2 S5 MX5SA4**	495	**F803_85.2 P132 BE132MB4**	**F803_85.2 P160 BX160MA4**	496
18.9	4348	3.2	76.7	55000	**F903_76.7 S4 ME4LB4**	**F903_76.7 S5 MX5SA4**	498	**F903_76.7 P132 BE132MB4**	**F903_76.7 P160 BX160MA4**	499
19.0	4326	1.8	76.3	44100	**F803_76.3 S4 ME4LB4**	**F803_76.3 S5 MX5SA4**	495	**F803_76.3 P132 BE132MB4**	**F803_76.3 P160 BX160MA4**	496
19.7	4173	1.2	73.6	35000	**F703_73.6 S4 ME4LB4**	**F703_73.6 S5 MX5SA4**	492	**F703_73.6 P132 BE132MB4**	**F703_73.6 P160 BX160MA4**	493
20.5	4014	3.5	70.8	55000	**F903_70.8 S4 ME4LB4**	**F903_70.8 S5 MX5SA4**	498	**F903_70.8 P132 BE132MB4**	**F903_70.8 P160 BX160MA4**	499
20.6	3993	2.0	70.4	43700	**F803_70.4 S4 ME4LB4**	**F803_70.4 S5 MX5SA4**	495	**F803_70.4 P132 BE132MB4**	**F803_70.4 P160 BX160MA4**	496
21.4	3852	1.3	67.9	34600	**F703_67.9 S4 ME4LB4**	**F703_67.9 S5 MX5SA4**	492	**F703_67.9 P132 BE132MB4**	**F703_67.9 P160 BX160MA4**	493
23.2	3546	1.4	62.5	34200	**F703_62.5 S4 ME4LB4**	**F703_62.5 S5 MX5SA4**	492	**F703_62.5 P132 BE132MB4**	**F703_62.5 P160 BX160MA4**	493
23.6	3487	2.3	61.5	42200	**F803_61.5 S4 ME4LB4**	**F803_61.5 S5 MX5SA4**	495	**F803_61.5 P132 BE132MB4**	**F803_61.5 P160 BX160MA4**	496
25.1	3273	1.5	57.7	33700	**F703_57.7 S4 ME4LB4**	**F703_57.7 S5 MX5SA4**	492	**F703_57.7 P132 BE132MB4**	**F703_57.7 P160 BX160MA4**	493
25.6	3218	2.5	56.7	41400	**F803_56.7 S4 ME4LB4**	**F803_56.7 S5 MX5SA4**	495	**F803_56.7 P132 BE132MB4**	**F803_56.7 P160 BX160MA4**	496
28.0	2940	1.0	51.8	20000	**F603_51.8 S4 ME4LB4**	**F603_51.8 S5 MX5SA4**	488	**F603_51.8 P132 BE132MB4**	**F603_51.8 P160 BX160MA4**	489
29.6	2777	1.8	49.0	32800	**F703_49.0 S4 ME4LB4**	**F703_49.0 S5 MX5SA4**	492	**F703_49.0 P132 BE132MB4**	**F703_49.0 P160 BX160MA4**	493
30	2714	1.1	47.8	20000	**F603_47.8 S4 ME4LB4**	**F603_47.8 S5 MX5SA4**	488	**F603_47.8 P132 BE132MB4**	**F603_47.8 P160 BX160MA4**	489
32	2564	2.0	45.2	32300	**F703_45.2 S4 ME4LB4**	**F703_45.2 S5 MX5SA4**	492	**F703_45.2 P132 BE132MB4**	**F703_45.2 P160 BX160MA4**	493
34	2387	1.2	42.1	20000	**F603_42.1 S4 ME4LB4**	**F603_42.1 S5 MX5SA4**	488	**F603_42.1 P132 BE132MB4**	**F603_42.1 P160 BX160MA4**	489
37	2204	1.3	38.8	20000	**F603_38.8 S4 ME4LB4**	**F603_38.8 S5 MX5SA4**	488	**F603_38.8 P132 BE132MB4**	**F603_38.8 P160 BX160MA4**	489
45	1820	1.6	32.1	20000	**F603_32.1 S4 ME4LB4**	**F603_32.1 S5 MX5SA4**	488	**F603_32.1 P132 BE132MB4**	**F603_32.1 P160 BX160MA4**	489
48	1741	1.0	30.0	8210	**F512_30.0 S4 ME4LB4**	**F512_30.0 S5 MX5SA4**	484	**F512_30.0 P132 BE132MB4**	**F512_30.0 P160 BX160MA4**	485
49	1680	1.7	29.6	20000	**F603_29.6 S4 ME4LB4**	**F603_29.6 S5 MX5SA4**	488	**F603_29.6 P132 BE132MB4**	**F603_29.6 P160 BX160MA4**	489
57	1442	1.3	25.4	20000	**F603_25.4 S4 ME4LB4**	**F603_25.4 S5 MX5SA4**	488	**F603_25.4 P132 BE132MB4**	**F603_25.4 P160 BX160MA4**	489
59	1393	2.9	24.6	28300	**F703_24.6 S4 ME4LB4**	**F703_24.6 S5 MX5SA4**	492	**F703_24.6 P132 BE132MB4**	**F703_24.6 P160 BX160MA4**	493
61	1379	1.2	23.8	8170	**F512_23.8 S4 ME4LB4**	**F512_23.8 S5 MX5SA4**	484	**F512_23.8 P132 BE132MB4**	**F512_23.8 P160 BX160MA4**	485
62	1331	1.4	23.5	20000	**F603_23.5 S4 ME4LB4**	**F603_23.5 S5 MX5SA4**	488	**F603_23.5 P132 BE132MB4**	**F603_23.5 P160 BX160MA4**	489
64	1282	3.4	22.6	27800	**F703_22.6 S4 ME4LB4**	**F703_22.6 S5 MX5SA4**	492	**F703_22.6 P132 BE132MB4**	**F703_22.6 P160 BX160MA4**	493
69	1184	3.4	20.9	27200	**F703_20.9 S4 ME4LB4**	**F703_20.9 S5 MX5SA4**	492	**F703_20.9 P132 BE132MB4**	**F703_20.9 P160 BX160MA4**	493
70	1172	1.6	20.7	20000	**F603_20.7 S4 ME4LB4**	**F603_20.7 S5 MX5SA4**	488	**F603_20.7 P132 BE132MB4**	**F603_20.7 P160 BX160MA4**	489
76	1082	1.8	19.1	20000	**F603_19.1 S4 ME4LB4**	**F603_19.1 S5 MX5SA4**	488	**F603_19.1 P132 BE132MB4**	**F603_19.1 P160 BX160MA4**	489
77	1095	1.0	18.9	4920	**F412_18.9 S4 ME4LB4**		480	**F412_18.9 P132 BE132MB4**		481
77	1091	1.4	18.8	8020	**F512_18.8 S4 ME4LB4**	**F512_18.8 S5 MX5SA4**	484	**F512_18.8 P132 BE132MB4**	**F512_18.8 P160 BX160MA4**	485
85	992	1.1	17.1	5000	**F412_17.1 S4 ME4LB4**		480	**F412_17.1 P132 BE132MB4**		481
92	890	2.1	15.7	20000	**F603_15.7 S4 ME4LB4**	**F603_15.7 S5 MX5SA4**	488	**F603_15.7 P132 BE132MB4**	**F603_15.7 P160 BX160MA4**	489
99	848	1.2	14.6	5070	**F412_14.6 S4 ME4LB4**		480	**F412_14.6 P132 BE132MB4**		481
100	821	2.3	14.5	20000	**F603_14.5 S4 ME4LB4**	**F603_14.5 S5 MX5SA4**	488	**F603_14.5 P132 BE132MB4**	**F603_14.5 P160 BX160MA4**	489
104	810	1.8	14.0	7700	**F512_14.0 S4 ME4LB4**	**F512_14.0 S5 MX5SA4**	484	**F512_14.0 P132 BE132MB4**	**F512_14.0 P160 BX160MA4**	485
114	722	2.6	12.7	19700	**F603_12.7 S4 ME4LB4**	**F603_12.7 S5 MX5SA4**	488	**F603_12.7 P132 BE132MB4**	**F603_12.7 P160 BX160MA4**	489
123	667	2.8	11.8	19300	**F603_11.8 S4 ME4LB4**	**F603_11.8 S5 MX5SA4**	488	**F603_11.8 P132 BE132MB4**	**F603_11.8 P160 BX160MA4**	489
131	644	2.1	11.1	7400	**F512_11.1 S4 ME4LB4**	**F512_11.1 S5 MX5SA4**	484	**F512_11.1 P132 BE132MB4**	**F512_11.1 P160 BX160MA4**	485
135	624	1.4	10.8	5080	**F412_10.8 S4 ME4LB4**		480	**F412_10.8 P132 BE132MB4**		481
135	623	1.0	10.7	3660	**F312_10.7 S4 ME4LB4**		476	**F312_10.7 P132 BE132MB4**		477
149	551	3.5	9.7	18400	**F603_9.7 S4 ME4LB4**	**F603_9.7 S5 MX5SA4**	488	**F603_9.7 P132 BE132MB4**	**F603_9.7 P160 BX160MA4**	489
159	529	1.3	9.1	5080	**F412_9.1 S4 ME4LB4**		480	**F412_9.1 P132 BE132MB4**		481
160	525	2.1	9.1	7040	**F512_9.1 S4 ME4LB4**	**F512_9.1 S5 MX5SA4**	484	**F512_9.1 P132 BE132MB4**	**F512_9.1 P160 BX160MA4**	485
202	417	2.3	7.2	6700	**F512_7.2 S4 ME4LB4**	**F512_7.2 S5 MX5SA4**	484	**F512_7.2 P132 BE132MB4**	**F512_7.2 P160 BX160MA4**	485
209	403	1.0	6.9	3450	**F312_6.9 S4 ME4LB4**		476	**F312_6.9 P132 BE132MB4**		477
216	390	1.6	6.7	4890	**F412_6.7 S4 ME4LB4**		480	**F412_6.7 P132 BE132MB4**		481
263	318	3.4	11.1	6340	**F512_11.1 S4 ME4LB2**		484	**F512_11.1 P132 BE132MB2**		485
271	308	2.4	10.8	4680	**F412_10.8 S4 ME4LB2**		480	**F412_10.8 P132 BE132MB2**		481
320	261	2.3	9.1	4560	**F412_9.1 S4 ME4LB2**		480	**F412_9.1 P132 BE132MB2**		481
323	259	3.5	9.1	5980	**F512_9.1 S4 ME4LB2**		484	**F512_9.1 P132 BE132MB2**		485
434	192	2.7	6.7	4270	**F412_6.7 S4 ME4LB2**		480	**F412_6.7 P132 BE132MB2**		481



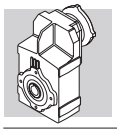
11 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IEC IE2	IEC IE3	
6.4	14994	0.9	231.4	55000	**F904_231.4 S5 ME5SA4**	**F904_231.4 S5 MX5SB4**	498	**F904_231.4 P160 BE160M4**	**F904_231.4 P160 BX160MB4**	499
6.9	13841	1.0	213.6	55000	**F904_213.6 S5 ME5SA4**	**F904_213.6 S5 MX5SB4**	498	**F904_213.6 P160 BE160M4**	**F904_213.6 P160 BX160MB4**	499
7.6	13001	1.1	194.2	55000	**F903_194.2 S5 ME5SA4**	**F903_194.2 S5 MX5SB4**	498	**F903_194.2 P160 BE160M4**	**F903_194.2 P160 BX160MB4**	499
8.2	12001	1.2	179.2	55000	**F903_179.2 S5 ME5SA4**	**F903_179.2 S5 MX5SB4**	498	**F903_179.2 P160 BE160M4**	**F903_179.2 P160 BX160MB4**	499
9.0	10903	1.3	162.8	55000	**F903_162.8 S5 ME5SA4**	**F903_162.8 S5 MX5SB4**	498	**F903_162.8 P160 BE160M4**	**F903_162.8 P160 BX160MB4**	499
9.8	10064	1.4	150.3	55000	**F903_150.3 S5 ME5SA4**	**F903_150.3 S5 MX5SB4**	498	**F903_150.3 P160 BE160M4**	**F903_150.3 P160 BX160MB4**	499
10.7	9196	1.5	137.3	55000	**F903_137.3 S5 ME5SA4**	**F903_137.3 S5 MX5SB4**	498	**F903_137.3 P160 BE160M4**	**F903_137.3 P160 BX160MB4**	499
11.1	8885	0.9	132.7	45000	**F803_132.7 S5 ME5SA4**	**F803_132.7 S5 MX5SB4**	495	**F803_132.7 P160 BE160M4**	**F803_132.7 P160 BX160MB4**	496
11.6	8489	1.6	126.8	55000	**F903_126.8 S5 ME5SA4**	**F903_126.8 S5 MX5SB4**	498	**F903_126.8 P160 BE160M4**	**F903_126.8 P160 BX160MB4**	499
12.0	8202	1.0	122.5	45000	**F803_122.5 S5 ME5SA4**	**F803_122.5 S5 MX5SB4**	495	**F803_122.5 P160 BE160M4**	**F803_122.5 P160 BX160MB4**	496
12.9	7617	1.1	113.8	45000	**F803_113.8 S5 ME5SA4**	**F803_113.8 S5 MX5SB4**	495	**F803_113.8 P160 BE160M4**	**F803_113.8 P160 BX160MB4**	496
13.1	7496	1.9	111.9	55000	**F903_111.9 S5 ME5SA4**	**F903_111.9 S5 MX5SB4**	498	**F903_111.9 P160 BE160M4**	**F903_111.9 P160 BX160MB4**	499
14.0	7031	1.1	105.0	44400	**F803_105.0 S5 ME5SA4**	**F803_105.0 S5 MX5SB4**	495	**F803_105.0 P160 BE160M4**	**F803_105.0 P160 BX160MB4**	496
14.2	6919	2.0	103.3	55000	**F903_103.3 S5 ME5SA4**	**F903_103.3 S5 MX5SB4**	498	**F903_103.3 P160 BE160M4**	**F903_103.3 P160 BX160MB4**	499
15.4	6412	2.2	95.8	55000	**F903_95.8 S5 ME5SA4**	**F903_95.8 S5 MX5SB4**	498	**F903_95.8 P160 BE160M4**	**F903_95.8 P160 BX160MB4**	499
15.9	6181	1.3	92.3	44100	**F803_92.3 S5 ME5SA4**	**F803_92.3 S5 MX5SB4**	495	**F803_92.3 P160 BE160M4**	**F803_92.3 P160 BX160MB4**	496
16.6	5919	2.4	88.4	55000	**F903_88.4 S5 ME5SA4**	**F903_88.4 S5 MX5SB4**	498	**F903_88.4 P160 BE160M4**	**F903_88.4 P160 BX160MB4**	499
17.3	5705	1.4	85.2	44000	**F803_85.2 S5 ME5SA4**	**F803_85.2 S5 MX5SB4**	495	**F803_85.2 P160 BE160M4**	**F803_85.2 P160 BX160MB4**	496
19.2	5132	2.7	76.7	55000	**F903_76.7 S5 ME5SA4**	**F903_76.7 S5 MX5SB4**	498	**F903_76.7 P160 BE160M4**	**F903_76.7 P160 BX160MB4**	499
19.3	5106	1.6	76.3	42800	**F803_76.3 S5 ME5SA4**	**F803_76.3 S5 MX5SB4**	495	**F803_76.3 P160 BE160M4**	**F803_76.3 P160 BX160MB4**	496
20.0	4925	1.0	73.6	33500	**F703_73.6 S5 ME5SA4**	**F703_73.6 S5 MX5SB4**	492	**F703_73.6 P160 BE160M4**	**F703_73.6 P160 BX160MB4**	493
20.8	4738	3.0	70.8	55000	**F903_70.8 S5 ME5SA4**	**F903_70.8 S5 MX5SB4**	498	**F903_70.8 P160 BE160M4**	**F903_70.8 P160 BX160MB4**	499
20.9	4713	1.7	70.4	42500	**F803_70.4 S5 ME5SA4**	**F803_70.4 S5 MX5SB4**	495	**F803_70.4 P160 BE160M4**	**F803_70.4 P160 BX160MB4**	496
21.6	4547	1.1	67.9	33100	**F703_67.9 S5 ME5SA4**	**F703_67.9 S5 MX5SB4**	492	**F703_67.9 P160 BE160M4**	**F703_67.9 P160 BX160MB4**	493
23.5	4185	1.2	62.5	32900	**F703_62.5 S5 ME5SA4**	**F703_62.5 S5 MX5SB4**	492	**F703_62.5 P160 BE160M4**	**F703_62.5 P160 BX160MB4**	493
23.7	4158	3.4	62.1	55000				**F903_62.1 P160 BE160M4**	**F903_62.1 P160 BX160MB4**	499
23.9	4115	1.9	61.5	41100	**F803_61.5 S5 ME5SA4**	**F803_61.5 S5 MX5SB4**	495	**F803_61.5 P160 BE160M4**	**F803_61.5 P160 BX160MB4**	496
25.5	3863	1.3	57.7	32500	**F703_57.7 S5 ME5SA4**	**F703_57.7 S5 MX5SB4**	492	**F703_57.7 P160 BE160M4**	**F703_57.7 P160 BX160MB4**	493
25.9	3799	2.1	56.7	40800	**F803_56.7 S5 ME5SA4**	**F803_56.7 S5 MX5SB4**	495	**F803_56.7 P160 BE160M4**	**F803_56.7 P160 BX160MB4**	496
29.9	3288	2.4	49.1	39100				**F803_49.1 P160 BE160M4**	**F803_49.1 P160 BX160MB4**	496
30	3278	1.5	49.0	31800	**F703_49.0 S5 ME5SA4**	**F703_49.0 S5 MX5SB4**	492	**F703_49.0 P160 BE160M4**	**F703_49.0 P160 BX160MB4**	493
31	3203	0.9	47.8	20000	**F603_47.8 S5 ME5SA4**	**F603_47.8 S5 MX5SB4**	488	**F603_47.8 P160 BE160M4**	**F603_47.8 P160 BX160MB4**	489
32	3035	2.6	45.3	38900				**F803_45.3 P160 BE160M4**	**F803_45.3 P160 BX160MB4**	496
33	3026	1.7	45.2	31300	**F703_45.2 S5 ME5SA4**	**F703_45.2 S5 MX5SB4**	492	**F703_45.2 P160 BE160M4**	**F703_45.2 P160 BX160MB4**	493
35	2818	1.0	42.1	20000	**F603_42.1 S5 ME5SA4**	**F603_42.1 S5 MX5SB4**	488	**F603_42.1 P160 BE160M4**	**F603_42.1 P160 BX160MB4**	489
38	2611	3.1	39.0	36400				**F803_39.0 P160 BE160M4**	**F803_39.0 P160 BX160MB4**	496
38	2601	1.1	38.8	20000	**F603_38.8 S5 ME5SA4**	**F603_38.8 S5 MX5SB4**	488	**F603_38.8 P160 BE160M4**	**F603_38.8 P160 BX160MB4**	489
38	2571	1.9	38.4	30200				**F703_38.4 P160 BE160M4**	**F703_38.4 P160 BX160MB4**	493
41	2411	3.3	36.0	35600				**F803_36.0 P160 BE160M4**	**F803_36.0 P160 BX160MB4**	496
41	2373	2.1	35.4	29600				**F703_35.4 P160 BE160M4**	**F703_35.4 P160 BX160MB4**	493
46	2148	1.3	32.1	20000	**F603_32.1 S5 ME5SA4**	**F603_32.1 S5 MX5SB4**	488	**F603_32.1 P160 BE160M4**	**F603_32.1 P160 BX160MB4**	489
49	2009	2.5	30.0	29000				**F703_30.0 P160 BE160M4**	**F703_30.0 P160 BX160MB4**	493
50	1983	1.5	29.6	20000	**F603_29.6 S5 ME5SA4**	**F603_29.6 S5 MX5SB4**	488	**F603_29.6 P160 BE160M4**	**F603_29.6 P160 BX160MB4**	489
53	1854	2.5	27.7	28300				**F703_27.7 P160 BE160M4**	**F703_27.7 P160 BX160MB4**	493
58	1702	1.1	25.4	20000	**F603_25.4 S5 ME5SA4**	**F603_25.4 S5 MX5SB4**	488	**F603_25.4 P160 BE160M4**	**F603_25.4 P160 BX160MB4**	489
60	1644	2.4	24.6	27800	**F703_24.6 S5 ME5SA4**	**F703_24.6 S5 MX5SB4**	492	**F703_24.6 P160 BE160M4**	**F703_24.6 P160 BX160MB4**	493
62	1628	1.0	23.8	7500	**F512_23.8 S5 ME5SA4**	**F512_23.8 S5 MX5SB4**	484	**F512_23.8 P160 BE160M4**	**F512_23.8 P160 BX160MB4**	485
63	1571	1.2	23.5	20000	**F603_23.5 S5 ME5SA4**	**F603_23.5 S5 MX5SB4**	488	**F603_23.5 P160 BE160M4**	**F603_23.5 P160 BX160MB4**	489
65	1514	2.9	22.6	27300	**F703_22.6 S5 ME5SA4**	**F703_22.6 S5 MX5SB4**	492	**F703_22.6 P160 BE160M4**	**F703_22.6 P160 BX160MB4**	493
70	1397	2.9	20.9	26800	**F703_20.9 S5 ME5SA4**	**F703_20.9 S5 MX5SB4**	492	**F703_20.9 P160 BE160M4**	**F703_20.9 P160 BX160MB4**	493
71	1383	1.4	20.7	20000	**F603_20.7 S5 ME5SA4**	**F603_20.7 S5 MX5SB4**	488	**F603_20.7 P160 BE160M4**	**F603_20.7 P160 BX160MB4**	489
77	1277	1.5	19.1	20000	**F603_19.1 S5 ME5SA4**	**F603_19.1 S5 MX5SB4**	488	**F603_19.1 P160 BE160M4**	**F603_19.1 P160 BX160MB4**	489
78	1287	1.2	18.8	7490	**F512_18.8 S5 ME5SA4**	**F512_18.8 S5 MX5SB4**	484	**F512_18.8 P160 BE160M4**	**F512_18.8 P160 BX160MB4**	485
94	1050	1.8	15.7	20000	**F603_15.7 S5 ME5SA4**	**F603_15.7 S5 MX5SB4**	488	**F603_15.7 P160 BE160M4**	**F603_15.7 P160 BX160MB4**	489
102	969	2.0	14.5	20000	**F603_14.5 S5 ME5SA4**	**F603_14.5 S5 MX5SB4**	488	**F603_14.5 P160 BE160M4**	**F603_14.5 P160 BX160MB4**	489
105	956	1.5	14.0	7310	**F512_14.0 S5 ME5SA4**	**F512_14.0 S5 MX5SB4**	484	**F512_14.0 P160 BE160M4**	**F512_14.0 P160 BX160MB4**	485
115	853	2.2	12.7	19400	**F603_12.7 S5 ME5SA4**	**F603_12.7 S5 MX5SB4**	488	**F603_12.7 P160 BE160M4**	**F603_12.7 P160 BX160MB4**	489
125	787	2.4	11.8	19000	**F603_11.8 S5 ME5SA4**	**F603_11.8 S5 MX5SB4**	488	**F603_11.8 P160 BE160M4**	**F603_11.8 P160 BX160MB4**	489
132	760	1.8	11.1	7090	**F512_11.1 S5 ME5SA4**	**F512_11.1 S5 MX5SB4**	484	**F512_11.1 P160 BE160M4**	**F512_11.1 P160 BX160MB4**	485
151	650	2.9	9.7	18200	**F603_9.7 S5 ME5SA4**	**F603_9.7 S5 MX5SB4**	488	**F603_9.7 P160 BE160M4**	**F603_9.7 P160 BX160MB4**	489
162	619	1.8	9.1	6770	**F512_9.1 S5 ME5SA4**	**F512_9.1 S5 MX5SB4**	484	**F512_9.1 P160 BE160M4**	**F512_9.1 P160 BX160MB4**	485
164	600	3.2	9.0	17800	**F603_9.0 S5 ME5SA4**	**F603_9.0 S5 MX5SB4**	488	**F603_9.0 P160 BE160M4**	**F603_9.0 P160 BX160MB4**	489
204	492	2.0	7.2	6490	**F512_7.2 S5 ME5SA4**	**F512_7.2 S5 MX5SB4**	484	**F512_7.2 P160 BE160M4**	**F512_7.2 P160 BX160MB4**	485
265	377	2.9	11.1	6170	**F512_11.1 S5 ME5SA2**		484	**F512_11.1 P160 BE160MA2**		485
325	307	2.9	9.1	5840	**F512_9.1 S5 ME5SA2**		484	**F512_9.1 P160 BE160MA2**		485
409	244	3.3	7.2	5510	**F512_7.2 S5 ME5SA2**		484	**F512_7.2 P160 BE160MA2**		485



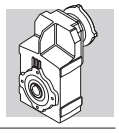
15 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IEC IE2	IEC IE3	
9.0	14840	0.9	162.8	55000	**F903_162.8 S5 ME5LA4**	**F903_162.8 S5 MX5LA4**	498	**F903_162.8 P160 BE160L4**	**F903_162.8 P160 BX160L4**	499
9.8	13699	1.0	150.3	55000	**F903_150.3 S5 ME5LA4**	**F903_150.3 S5 MX5LA4**	498	**F903_150.3 P160 BE160L4**	**F903_150.3 P160 BX160L4**	499
10.7	12517	1.1	137.3	55000	**F903_137.3 S5 ME5LA4**	**F903_137.3 S5 MX5LA4**	498	**F903_137.3 P160 BE160L4**	**F903_137.3 P160 BX160L4**	499
11.6	11554	1.2	126.8	55000	**F903_126.8 S5 ME5LA4**	**F903_126.8 S5 MX5LA4**	498	**F903_126.8 P160 BE160L4**	**F903_126.8 P160 BX160L4**	499
13.1	10203	1.4	111.9	55000	**F903_111.9 S5 ME5LA4**	**F903_111.9 S5 MX5LA4**	498	**F903_111.9 P160 BE160L4**	**F903_111.9 P160 BX160L4**	499
14.2	9418	1.5	103.3	55000	**F903_103.3 S5 ME5LA4**	**F903_103.3 S5 MX5LA4**	498	**F903_103.3 P160 BE160L4**	**F903_103.3 P160 BX160L4**	499
15.4	8728	1.6	95.8	55000	**F903_95.8 S5 ME5LA4**	**F903_95.8 S5 MX5LA4**	498	**F903_95.8 P160 BE160L4**	**F903_95.8 P160 BX160L4**	499
15.9	8413	1.0	92.3	41300	**F803_92.3 S5 ME5LA4**	**F803_92.3 S5 MX5LA4**	495	**F803_92.3 P160 BE160L4**	**F803_92.3 P160 BX160L4**	496
16.6	8056	1.7	88.4	55000	**F903_88.4 S5 ME5LA4**	**F903_88.4 S5 MX5LA4**	498	**F903_88.4 P160 BE160L4**	**F903_88.4 P160 BX160L4**	499
17.3	7766	1.0	85.2	40800	**F803_85.2 S5 ME5LA4**	**F803_85.2 S5 MX5LA4**	495	**F803_85.2 P160 BE160L4**	**F803_85.2 P160 BX160L4**	496
19.2	6986	2.0	76.7	55000	**F903_76.7 S5 ME5LA4**	**F903_76.7 S5 MX5LA4**	498	**F903_76.7 P160 BE160L4**	**F903_76.7 P160 BX160L4**	499
19.3	6949	1.2	76.3	40500	**F803_76.3 S5 ME5LA4**	**F803_76.3 S5 MX5LA4**	495	**F803_76.3 P160 BE160L4**	**F803_76.3 P160 BX160L4**	496
20.8	6449	2.2	70.8	55000	**F903_70.8 S5 ME5LA4**	**F903_70.8 S5 MX5LA4**	498	**F903_70.8 P160 BE160L4**	**F903_70.8 P160 BX160L4**	499
20.9	6415	1.2	70.4	39900	**F803_70.4 S5 ME5LA4**	**F803_70.4 S5 MX5LA4**	495	**F803_70.4 P160 BE160L4**	**F803_70.4 P160 BX160L4**	496
23.5	5696	0.9	62.5	31300	**F703_62.5 S5 ME5LA4**	**F703_62.5 S5 MX5LA4**	492	**F703_62.5 P160 BE160L4**	**F703_62.5 P160 BX160L4**	493
23.7	5660	2.5	62.1	55000				**F903_62.1 P160 BE160L4**	**F903_62.1 P160 BX160L4**	499
23.9	5601	1.4	61.5	38700	**F803_61.5 S5 ME5LA4**	**F803_61.5 S5 MX5LA4**	495	**F803_61.5 P160 BE160L4**	**F803_61.5 P160 BX160L4**	496
25.5	5258	1.0	57.7	29700	**F703_57.7 S5 ME5LA4**	**F703_57.7 S5 MX5LA4**	492	**F703_57.7 P160 BE160L4**	**F703_57.7 P160 BX160L4**	493
25.6	5224	2.7	57.3	55000				**F903_57.3 P160 BE160L4**	**F903_57.3 P160 BX160L4**	499
25.9	5170	1.5	56.7	38600	**F803_56.7 S5 ME5LA4**	**F803_56.7 S5 MX5LA4**	495	**F803_56.7 P160 BE160L4**	**F803_56.7 P160 BX160L4**	496
29.5	4548	3.1	49.9	54400				**F903_49.9 P160 BE160L4**	**F903_49.9 P160 BX160L4**	499
29.9	4476	1.8	49.1	37800				**F803_49.1 P160 BE160L4**	**F803_49.1 P160 BX160L4**	496
30	4462	1.1	49.0	29400	**F703_49.0 S5 ME5LA4**	**F703_49.0 S5 MX5LA4**	492	**F703_49.0 P160 BE160L4**	**F703_49.0 P160 BX160L4**	493
32	4198	3.3	46.1	53500				**F903_46.1 P160 BE160L4**	**F903_46.1 P160 BX160L4**	499
32	4131	1.9	45.3	37200				**F803_45.3 P160 BE160L4**	**F803_45.3 P160 BX160L4**	496
33	4119	1.2	45.2	29100	**F703_45.2 S5 ME5LA4**	**F703_45.2 S5 MX5LA4**	492	**F703_45.2 P160 BE160L4**	**F703_45.2 P160 BX160L4**	493
38	3554	2.3	39.0	35800				**F803_39.0 P160 BE160L4**	**F803_39.0 P160 BX160L4**	496
38	3499	1.4	38.4	28600				**F703_38.4 P160 BE160L4**	**F703_38.4 P160 BX160L4**	493
41	3281	2.4	36.0	35200				**F803_36.0 P160 BE160L4**	**F803_36.0 P160 BX160L4**	496
41	3230	1.5	35.4	28200				**F703_35.4 P160 BE160L4**	**F703_35.4 P160 BX160L4**	493
46	2924	1.0	32.1	20000	**F603_32.1 S5 ME5LA4**	**F603_32.1 S5 MX5LA4**	488	**F603_32.1 P160 BE160L4**	**F603_32.1 P160 BX160L4**	489
49	2734	1.8	30.0	27700				**F703_30.0 P160 BE160L4**	**F703_30.0 P160 BX160L4**	493
50	2699	1.1	29.6	20000	**F603_29.6 S5 ME5LA4**	**F603_29.6 S5 MX5LA4**	488	**F603_29.6 P160 BE160L4**	**F603_29.6 P160 BX160L4**	489
53	2524	1.9	27.7	27100				**F703_27.7 P160 BE160L4**	**F703_27.7 P160 BX160L4**	493
58	2299	2.7	25.2	32900	**F803_25.2 S5 ME5LA4**	**F803_25.2 S5 MX5LA4**	495	**F803_25.2 P160 BE160L4**	**F803_25.2 P160 BX160L4**	496
60	2238	1.8	24.6	26500	**F703_24.6 S5 ME5LA4**	**F703_24.6 S5 MX5LA4**	492	**F703_24.6 P160 BE160L4**	**F703_24.6 P160 BX160L4**	493
63	2138	0.9	23.5	20000	**F603_23.5 S5 ME5LA4**	**F603_23.5 S5 MX5LA4**	488	**F603_23.5 P160 BE160L4**	**F603_23.5 P160 BX160L4**	489
65	2060	2.1	22.6	26200	**F703_22.6 S5 ME5LA4**	**F703_22.6 S5 MX5LA4**	492	**F703_22.6 P160 BE160L4**	**F703_22.6 P160 BX160L4**	493
67	2008	3.3	22.0	31900	**F803_22.0 S5 ME5LA4**	**F803_22.0 S5 MX5LA4**	495	**F803_22.0 P160 BE160L4**	**F803_22.0 P160 BX160L4**	496
70	1902	2.1	20.9	25700	**F703_20.9 S5 ME5LA4**	**F703_20.9 S5 MX5LA4**	492	**F703_20.9 P160 BE160L4**	**F703_20.9 P160 BX160L4**	493
71	1883	1.0	20.7	20000	**F603_20.7 S5 ME5LA4**	**F603_20.7 S5 MX5LA4**	488	**F603_20.7 P160 BE160L4**	**F603_20.7 P160 BX160L4**	489
72	1853	3.3	20.3	31300	**F803_20.3 S5 ME5LA4**	**F803_20.3 S5 MX5LA4**	495	**F803_20.3 P160 BE160L4**	**F803_20.3 P160 BX160L4**	496
77	1738	1.1	19.1	20000	**F603_19.1 S5 ME5LA4**	**F603_19.1 S5 MX5LA4**	488	**F603_19.1 P160 BE160L4**	**F603_19.1 P160 BX160L4**	489
78	1752	0.9	18.8	6800	**F512_18.8 S5 ME5LA4**	**F512_18.8 S5 MX5LA4**	484	**F512_18.8 P160 BE160L4**	**F512_18.8 P160 BX160L4**	485
83	1614	2.7	17.7	24900	**F703_17.7 S5 ME5LA4**	**F703_17.7 S5 MX5LA4**	492	**F703_17.7 P160 BE160L4**	**F703_17.7 P160 BX160L4**	493
90	1490	2.7	16.3	24400	**F703_16.3 S5 ME5LA4**	**F703_16.3 S5 MX5LA4**	492	**F703_16.3 P160 BE160L4**	**F703_16.3 P160 BX160L4**	493
94	1429	1.3	15.7	19600	**F603_15.7 S5 ME5LA4**	**F603_15.7 S5 MX5LA4**	488	**F603_15.7 P160 BE160L4**	**F603_15.7 P160 BX160L4**	489
102	1319	1.4	14.5	19200	**F603_14.5 S5 ME5LA4**	**F603_14.5 S5 MX5LA4**	488	**F603_14.5 P160 BE160L4**	**F603_14.5 P160 BX160L4**	489
105	1301	1.1	14.0	6450	**F512_14.0 S5 ME5LA4**	**F512_14.0 S5 MX5LA4**	484	**F512_14.0 P160 BE160L4**	**F512_14.0 P160 BX160L4**	485
106	1266	3.1	13.9	23600	**F703_13.9 S5 ME5LA4**	**F703_13.9 S5 MX5LA4**	492	**F703_13.9 P160 BE160L4**	**F703_13.9 P160 BX160L4**	493
115	1168	3.1	12.8	23100	**F703_12.8 S5 ME5LA4**	**F703_12.8 S5 MX5LA4**	492	**F703_12.8 P160 BE160L4**	**F703_12.8 P160 BX160L4**	493
115	1160	1.6	12.7	18800	**F603_12.7 S5 ME5LA4**	**F603_12.7 S5 MX5LA4**	488	**F603_12.7 P160 BE160L4**	**F603_12.7 P160 BX160L4**	489
125	1071	1.8	11.8	18400	**F603_11.8 S5 ME5LA4**	**F603_11.8 S5 MX5LA4**	488	**F603_11.8 P160 BE160L4**	**F603_11.8 P160 BX160L4**	489
132	1034	1.3	11.1	6000	**F512_11.1 S5 ME5LA4**	**F512_11.1 S5 MX5LA4**	484	**F512_11.1 P160 BE160L4**	**F512_11.1 P160 BX160L4**	485
135	989	3.5	10.9	22300	**F703_10.9 S5 ME5LA4**	**F703_10.9 S5 MX5LA4**	492	**F703_10.9 P160 BE160L4**	**F703_10.9 P160 BX160L4**	493
147	913	3.5	10.0	21800	**F703_10.0 S5 ME5LA4**	**F703_10.0 S5 MX5LA4**	492	**F703_10.0 P160 BE160L4**	**F703_10.0 P160 BX160L4**	493
151	885	2.1	9.7	17700	**F603_9.7 S5 ME5LA4**	**F603_9.7 S5 MX5LA4**	488	**F603_9.7 P160 BE160L4**	**F603_9.7 P160 BX160L4**	489
162	843	1.3	9.1	5800	**F512_9.1 S5 ME5LA4**	**F512_9.1 S5 MX5LA4**	484	**F512_9.1 P160 BE160L4**	**F512_9.1 P160 BX160L4**	485
164	817	2.3	9.0	17300	**F603_9.0 S5 ME5LA4**	**F603_9.0 S5 MX5LA4**	488	**F603_9.0 P160 BE160L4**	**F603_9.0 P160 BX160L4**	489
204	670	1.5	7.2	5640	**F512_7.2 S5 ME5LA4**	**F512_7.2 S5 MX5LA4**	484	**F512_7.2 P160 BE160L4**	**F512_7.2 P160 BX160L4**	485



18.5 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IEC IE2	IEC IE3	
10.7	15327	0.9	137.3	55000				**F903_137.3 P180 BE180M4**	**F903_137.3 P180 BX180M4**	499
11.6	14148	1.0	126.8	55000				**F903_126.8 P180 BE180M4**	**F903_126.8 P180 BX180M4**	499
13.1	12493	1.1	111.9	55000				**F903_111.9 P180 BE180M4**	**F903_111.9 P180 BX180M4**	499
14.2	11532	1.2	103.3	55000				**F903_103.3 P180 BE180M4**	**F903_103.3 P180 BX180M4**	499
15.4	10687	1.3	95.8	55000				**F903_95.8 P180 BE180M4**	**F903_95.8 P180 BX180M4**	499
16.6	9865	1.4	88.4	55000				**F903_88.4 P180 BE180M4**	**F903_88.4 P180 BX180M4**	499
19.2	8554	1.6	76.7	55000				**F903_76.7 P180 BE180M4**	**F903_76.7 P180 BX180M4**	499
19.3	8510	0.9	76.3	38100				**F803_76.3 P180 BE180M4**	**F803_76.3 P180 BX180M4**	496
20.8	7896	1.8	70.8	55000				**F903_70.8 P180 BE180M4**	**F903_70.8 P180 BX180M4**	499
20.9	7855	1.0	70.4	37600				**F803_70.4 P180 BE180M4**	**F803_70.4 P180 BX180M4**	496
23.7	6930	2.0	62.1	55000				**F903_62.1 P180 BE180M4**	**F903_62.1 P180 BX180M4**	499
23.9	6859	1.2	61.5	37400				**F803_61.5 P180 BE180M4**	**F803_61.5 P180 BX180M4**	496
25.6	6397	2.2	57.3	55000				**F903_57.3 P180 BE180M4**	**F903_57.3 P180 BX180M4**	499
25.9	6331	1.3	56.7	36800				**F803_56.7 P180 BE180M4**	**F803_56.7 P180 BX180M4**	496
29.5	5568	2.5	49.9	55000				**F903_49.9 P180 BE180M4**	**F903_49.9 P180 BX180M4**	499
29.9	5480	1.5	49.1	35800				**F803_49.1 P180 BE180M4**	**F803_49.1 P180 BX180M4**	496
30	5464	0.9	49.0	27400				**F703_49.0 P180 BE180M4**	**F703_49.0 P180 BX180M4**	493
32	5140	2.7	46.1	55000				**F903_46.1 P180 BE180M4**	**F903_46.1 P180 BX180M4**	499
32	5059	1.6	45.3	35700				**F803_45.3 P180 BE180M4**	**F803_45.3 P180 BX180M4**	496
33	5043	1.0	45.2	27200				**F703_45.2 P180 BE180M4**	**F703_45.2 P180 BX180M4**	493
36	4520	3.1	40.5	52300				**F903_40.5 P180 BE180M4**	**F903_40.5 P180 BX180M4**	499
38	4352	1.8	39.0	35000				**F803_39.0 P180 BE180M4**	**F803_39.0 P180 BX180M4**	496
38	4285	1.2	38.4	27000				**F703_38.4 P180 BE180M4**	**F703_38.4 P180 BX180M4**	493
39	4172	3.2	37.4	51400				**F903_37.4 P180 BE180M4**	**F903_37.4 P180 BX180M4**	499
41	4018	2.0	36.0	34400				**F803_36.0 P180 BE180M4**	**F803_36.0 P180 BX180M4**	496
41	3955	1.3	35.4	26700				**F703_35.4 P180 BE180M4**	**F703_35.4 P180 BX180M4**	493
47	3488	2.3	31.3	33400				**F803_31.3 P180 BE180M4**	**F803_31.3 P180 BX180M4**	496
49	3348	1.5	30.0	26500				**F703_30.0 P180 BE180M4**	**F703_30.0 P180 BX180M4**	493
51	3219	2.5	28.8	33000				**F803_28.8 P180 BE180M4**	**F803_28.8 P180 BX180M4**	496
53	3090	1.5	27.7	26000				**F703_27.7 P180 BE180M4**	**F703_27.7 P180 BX180M4**	493
58	2815	2.2	25.2	32100				**F803_25.2 P180 BE180M4**	**F803_25.2 P180 BX180M4**	496
60	2741	1.5	24.6	25500				**F703_24.6 P180 BE180M4**	**F703_24.6 P180 BX180M4**	493
65	2523	1.7	22.6	25200				**F703_22.6 P180 BE180M4**	**F703_22.6 P180 BX180M4**	493
67	2458	2.7	22.0	31300				**F803_22.0 P180 BE180M4**	**F803_22.0 P180 BX180M4**	496
70	2329	1.7	20.9	24900				**F703_20.9 P180 BE180M4**	**F703_20.9 P180 BX180M4**	493
72	2269	2.7	20.3	30600				**F803_20.3 P180 BE180M4**	**F803_20.3 P180 BX180M4**	496
77	2128	0.9	19.1	19200				**F603_19.1 P180 BE180M4**	**F603_19.1 P180 BX180M4**	489
83	1976	2.2	17.7	24200				**F703_17.7 P180 BE180M4**	**F703_17.7 P180 BX180M4**	493
84	1964	3.4	17.6	29700				**F803_17.6 P180 BE180M4**	**F803_17.6 P180 BX180M4**	496
90	1824	2.2	16.3	23800				**F703_16.3 P180 BE180M4**	**F703_16.3 P180 BX180M4**	493
90	1813	3.4	16.2	29100				**F803_16.2 P180 BE180M4**	**F803_16.2 P180 BX180M4**	496
94	1750	1.1	15.7	18700				**F603_15.7 P180 BE180M4**	**F603_15.7 P180 BX180M4**	489
102	1615	1.2	14.5	18600				**F603_14.5 P180 BE180M4**	**F603_14.5 P180 BX180M4**	489
106	1550	2.5	13.9	23000				**F703_13.9 P180 BE180M4**	**F703_13.9 P180 BX180M4**	493
115	1430	2.5	12.8	22600				**F703_12.8 P180 BE180M4**	**F703_12.8 P180 BX180M4**	493
115	1421	1.3	12.7	18300				**F603_12.7 P180 BE180M4**	**F603_12.7 P180 BX180M4**	489
125	1312	1.4	11.8	17900				**F603_11.8 P180 BE180M4**	**F603_11.8 P180 BX180M4**	489
132	1267	1.1	11.1	5800				**F512_11.1 P180 BE180M4**	**F512_11.1 P180 BX180M4**	485
135	1211	2.8	10.9	21800				**F703_10.9 P180 BE180M4**	**F703_10.9 P180 BX180M4**	493
147	1118	2.9	10.0	21400				**F703_10.0 P180 BE180M4**	**F703_10.0 P180 BX180M4**	493
151	1083	1.8	9.7	17300				**F603_9.7 P180 BE180M4**	**F603_9.7 P180 BX180M4**	489
162	1032	1.1	9.1	5630				**F512_9.1 P180 BE180M4**	**F512_9.1 P180 BX180M4**	485
164	1000	1.9	9.0	16900				**F603_9.0 P180 BE180M4**	**F603_9.0 P180 BX180M4**	489
204	820	1.2	7.2	5400				**F512_7.2 P180 BE180M4**	**F512_7.2 P180 BX180M4**	485



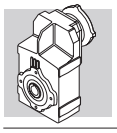
22 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE2	IE3		IEC IE2	IEC IE3	
13.1	14888	0.9	111.9	55000				F903_111.9 P180 BE180L4	F903_111.9 P180 BX180L4	499
14.2	13743	1.0	103.3	55000				F903_103.3 P180 BE180L4	F903_103.3 P180 BX180L4	499
15.4	12735	1.1	95.8	55000				F903_95.8 P180 BE180L4	F903_95.8 P180 BX180L4	499
16.6	11755	1.2	88.4	55000				F903_88.4 P180 BE180L4	F903_88.4 P180 BX180L4	499
19.2	10194	1.4	76.7	55000				F903_76.7 P180 BE180L4	F903_76.7 P180 BX180L4	499
20.8	9410	1.5	70.8	55000				F903_70.8 P180 BE180L4	F903_70.8 P180 BX180L4	499
23.7	8259	1.7	62.1	55000				F903_62.1 P180 BE180L4	F903_62.1 P180 BX180L4	499
23.9	8173	1.0	61.5	35400				F803_61.5 P180 BE180L4	F803_61.5 P180 BX180L4	496
25.6	7623	1.8	57.3	55000				F903_57.3 P180 BE180L4	F903_57.3 P180 BX180L4	499
25.9	7545	1.1	56.7	35000				F803_56.7 P180 BE180L4	F803_56.7 P180 BX180L4	496
29.5	6636	2.1	49.9	54400				F903_49.9 P180 BE180L4	F903_49.9 P180 BX180L4	499
29.9	6531	1.2	49.1	34100				F803_49.1 P180 BE180L4	F803_49.1 P180 BX180L4	496
32	6125	2.3	46.1	53500				F903_46.1 P180 BE180L4	F903_46.1 P180 BX180L4	499
32	6028	1.3	45.3	34300				F803_45.3 P180 BE180L4	F803_45.3 P180 BX180L4	496
36	5386	2.6	40.5	52300				F903_40.5 P180 BE180L4	F903_40.5 P180 BX180L4	499
38	5187	1.5	39.0	33300				F803_39.0 P180 BE180L4	F803_39.0 P180 BX180L4	496
38	5106	1.0	38.4	25400				F703_38.4 P180 BE180L4	F703_38.4 P180 BX180L4	493
39	4972	2.7	37.4	51400				F903_37.4 P180 BE180L4	F903_37.4 P180 BX180L4	499
41	4788	1.7	36.0	33200				F803_36.0 P180 BE180L4	F803_36.0 P180 BX180L4	496
41	4713	1.1	35.4	25300				F703_35.4 P180 BE180L4	F703_35.4 P180 BX180L4	493
47	4156	1.9	31.3	32600				F803_31.3 P180 BE180L4	F803_31.3 P180 BX180L4	496
47	4122	3.2	31.0	49500				F903_31.0 P180 BE180L4	F903_31.0 P180 BX180L4	499
49	3990	1.3	30.0	25100				F703_30.0 P180 BE180L4	F703_30.0 P180 BX180L4	493
51	3836	2.1	28.8	32000				F803_28.8 P180 BE180L4	F803_28.8 P180 BX180L4	496
51	3805	3.2	28.6	48600				F903_28.6 P180 BE180L4	F903_28.6 P180 BX180L4	499
53	3683	1.3	27.7	24800				F703_27.7 P180 BE180L4	F703_27.7 P180 BX180L4	493
58	3355	1.8	25.2	31300				F803_25.2 P180 BE180L4	F803_25.2 P180 BX180L4	496
60	3266	1.2	24.6	24500				F703_24.6 P180 BE180L4	F703_24.6 P180 BX180L4	493
65	3006	1.4	22.6	24300				F703_22.6 P180 BE180L4	F703_22.6 P180 BX180L4	493
67	2929	2.3	22.0	30200				F803_22.0 P180 BE180L4	F803_22.0 P180 BX180L4	496
70	2775	1.4	20.9	24000				F703_20.9 P180 BE180L4	F703_20.9 P180 BX180L4	493
72	2704	2.3	20.3	29900				F803_20.3 P180 BE180L4	F803_20.3 P180 BX180L4	496
83	2355	1.9	17.7	23400				F703_17.7 P180 BE180L4	F703_17.7 P180 BX180L4	493
84	2341	2.9	17.6	29100				F803_17.6 P180 BE180L4	F803_17.6 P180 BX180L4	496
90	2174	1.8	16.3	23100				F703_16.3 P180 BE180L4	F703_16.3 P180 BX180L4	493
90	2161	2.9	16.2	28500				F803_16.2 P180 BE180L4	F803_16.2 P180 BX180L4	496
94	2085	0.9	15.7	18200				F603_15.7 P180 BE180L4	F603_15.7 P180 BX180L4	489
102	1925	1.0	14.5	18000				F603_14.5 P180 BE180L4	F603_14.5 P180 BX180L4	489
106	1847	2.1	13.9	22400				F703_13.9 P180 BE180L4	F703_13.9 P180 BX180L4	493
115	1705	2.1	12.8	22100				F703_12.8 P180 BE180L4	F703_12.8 P180 BX180L4	493
115	1693	1.1	12.7	17700				F603_12.7 P180 BE180L4	F603_12.7 P180 BX180L4	489
125	1563	1.2	11.8	17400				F603_11.8 P180 BE180L4	F603_11.8 P180 BX180L4	489
135	1443	2.4	10.9	21400				F703_10.9 P180 BE180L4	F703_10.9 P180 BX180L4	493
147	1332	2.4	10.0	21000				F703_10.0 P180 BE180L4	F703_10.0 P180 BX180L4	493
151	1291	1.5	9.7	16900				F603_9.7 P180 BE180L4	F603_9.7 P180 BX180L4	489
164	1192	1.6	9.0	16500				F603_9.0 P180 BE180L4	F603_9.0 P180 BX180L4	489
204	977	1.0	7.2	5250				F512_7.2 P180 BE180L4	F512_7.2 P180 BX180L4	485

30 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE...		IEC IE2*	IEC IE3	
16.6	16022	0.9	88.4	52200			F903_88.4 P200 IEC200L4	F903_88.4 P200 BX200LA4	499
19.2	13893	1.0	76.7	52400			F903_76.7 P200 IEC200L4	F903_76.7 P200 BX200LA4	499
20.8	12825	1.1	70.8	52100			F903_70.8 P200 IEC200L4	F903_70.8 P200 BX200LA4	499
23.7	11256	1.2	62.1	51800			F903_62.1 P200 IEC200L4	F903_62.1 P200 BX200LA4	499
25.6	10390	1.3	57.3	51400			F903_57.3 P200 IEC200L4	F903_57.3 P200 BX200LA4	499

***The technical information shall be considered as indicative, the configurations should be matching the data provided by motors manufacturers on rated powers greater than 22 kW.**



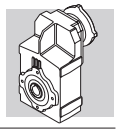
30 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE...		IE2*	IE3	
29.5	9044	1.5	49.9	50800			F903_49.9 P200 IEC200L4	F903_49.9 P200 BX200LA4	499
32	8348	1.7	46.1	50200			F903_46.1 P200 IEC200L4	F903_46.1 P200 BX200LA4	499
32	8216	1.0	45.3	30900			F803_45.3 P200 IEC200L4	F803_45.3 P200 BX200LA4	496
36	7341	1.9	40.5	49400			F903_40.5 P200 IEC200L4	F903_40.5 P200 BX200LA4	499
38	7069	1.1	39.0	31000			F803_39.0 P200 IEC200L4	F803_39.0 P200 BX200LA4	496
39	6776	2.0	37.4	48700			F903_37.4 P200 IEC200L4	F903_37.4 P200 BX200LA4	499
41	6525	1.2	36.0	30600			F803_36.0 P200 IEC200L4	F803_36.0 P200 BX200LA4	496
47	5664	1.4	31.3	29900			F803_31.3 P200 IEC200L4	F803_31.3 P200 BX200LA4	496
47	5618	2.3	31.0	47300			F903_31.0 P200 IEC200L4	F903_31.0 P200 BX200LA4	499
49	5438	0.9	30.0	22300			F703_30.0 P200 IEC200L4	F703_30.0 P200 BX200LA4	493
51	5229	1.5	28.8	29500			F803_28.8 P200 IEC200L4	F803_28.8 P200 BX200LA4	496
51	5186	2.3	28.6	46600			F903_28.6 P200 IEC200L4	F903_28.6 P200 BX200LA4	499
53	5019	0.9	27.7	22200			F703_27.7 P200 IEC200L4	F703_27.7 P200 BX200LA4	493
58	4601	2.6	25.4	45500			F903_25.4 P200 IEC200L4	F903_25.4 P200 BX200LA4	499
58	4572	1.2	25.2	29500			F803_25.2 P200 IEC200L4	F803_25.2 P200 BX200LA4	496
66	4039	3.0	22.3	44400			F903_22.3 P200 IEC200L4	F903_22.3 P200 BX200LA4	499
67	3992	1.7	22.0	29000			F803_22.0 P200 IEC200L4	F803_22.0 P200 BX200LA4	496
71	3728	3.0	20.6	43600			F903_20.6 P200 IEC200L4	F903_20.6 P200 BX200LA4	499
72	3685	1.7	20.3	28500			F803_20.3 P200 IEC200L4	F803_20.3 P200 BX200LA4	496
83	3209	1.4	17.7	21800			F703_17.7 P200 IEC200L4	F703_17.7 P200 BX200LA4	493
84	3190	2.1	17.6	27900			F803_17.6 P200 IEC200L4	F803_17.6 P200 BX200LA4	496
90	2963	1.4	16.3	21500			F703_16.3 P200 IEC200L4	F703_16.3 P200 BX200LA4	493
90	2945	2.1	16.2	27400			F803_16.2 P200 IEC200L4	F803_16.2 P200 BX200LA4	496
105	2534	2.7	14.0	26700			F803_14.0 P200 IEC200L4	F803_14.0 P200 BX200LA4	496
106	2517	1.5	13.9	21100			F703_13.9 P200 IEC200L4	F703_13.9 P200 BX200LA4	493
114	2339	2.7	12.9	26200			F803_12.9 P200 IEC200L4	F803_12.9 P200 BX200LA4	496
115	2323	1.5	12.8	20900			F703_12.8 P200 IEC200L4	F703_12.8 P200 BX200LA4	493
135	1967	1.8	10.9	20300			F703_10.9 P200 IEC200L4	F703_10.9 P200 BX200LA4	493
142	1874	3.0	10.3	24900			F803_10.3 P200 IEC200L4	F803_10.3 P200 BX200LA4	496
147	1815	1.8	10.0	20000			F703_10.0 P200 IEC200L4	F703_10.0 P200 BX200LA4	493

37 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE...		IE2*	IE3	
20.9	15710	0.9	70.8	47600			F903_70.8 P225 IEC225S4	F903_70.8 P225 BX225SA4	499
25.8	12728	1.1	57.3	47700			F903_57.3 P225 IEC225S4	F903_57.3 P225 BX225SA4	499
29.7	11079	1.3	49.9	47600			F903_49.9 P225 IEC225S4	F903_49.9 P225 BX225SA4	499
32	10227	1.4	46.1	47200			F903_46.1 P225 IEC225S4	F903_46.1 P225 BX225SA4	499
37	8993	1.6	40.5	46800			F903_40.5 P225 IEC225S4	F903_40.5 P225 BX225SA4	499
38	8659	0.9	39.0	28500			F803_39.0 P225 IEC225S4	F803_39.0 P225 BX225SA4	496
40	8301	1.6	37.4	46300			F903_37.4 P225 IEC225S4	F903_37.4 P225 BX225SA4	499
41	7993	1.0	36.0	28300			F803_36.0 P225 IEC225S4	F803_36.0 P225 BX225SA4	496
47	6939	1.2	31.3	28400			F803_31.3 P225 IEC225S4	F803_31.3 P225 BX225SA4	496
48	6882	1.9	31.0	45300			F903_31.0 P225 IEC225S4	F903_31.0 P225 BX225SA4	499
51	6405	1.2	28.8	28100			F803_28.8 P225 IEC225S4	F803_28.8 P225 BX225SA4	496
52	6353	1.9	28.6	44700			F903_28.6 P225 IEC225S4	F903_28.6 P225 BX225SA4	499
58	5637	2.1	25.4	43900			F903_25.4 P225 IEC225S4	F903_25.4 P225 BX225SA4	499
59	5601	1.1	25.2	27800			F803_25.2 P225 IEC225S4	F803_25.2 P225 BX225SA4	496
66	4947	2.4	22.3	43000			F903_22.3 P225 IEC225S4	F903_22.3 P225 BX225SA4	499
67	4891	1.1	22.0	27600			F803_22.0 P225 IEC225S4	F803_22.0 P225 BX225SA4	496
72	4567	2.5	20.6	42300			F903_20.6 P225 IEC225S4	F903_20.6 P225 BX225SA4	499
73	4515	1.1	20.3	27200			F803_20.3 P225 IEC225S4	F803_20.3 P225 BX225SA4	496
83	3975	2.8	17.9	41200			F903_17.9 P225 IEC225S4	F903_17.9 P225 BX225SA4	499
84	3908	1.7	17.6	26800			F803_17.6 P225 IEC225S4	F803_17.6 P225 BX225SA4	496

***The technical information shall be considered as indicative, the configurations should be matching the data provided by motors manufacturers on rated powers greater than 22 kW.**



37 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE...		IE2*	IEC IE3	
90	3669	2.8	16.5	40500			**F903_16.5 P225 IEC225S4**	**F903_16.5 P225 BX225SA4**	499
91	3607	1.7	16.2	26300			**F803_16.2 P225 IEC225S4**	**F803_16.2 P225 BX225SA4**	496
102	3226	3.1	14.5	39500			**F903_14.5 P225 IEC225S4**	**F903_14.5 P225 BX225SA4**	499
106	3104	2.2	14.0	25800			**F803_14.0 P225 IEC225S4**	**F803_14.0 P225 BX225SA4**	496
110	2978	3.1	13.4	38700			**F903_13.4 P225 IEC225S4**	**F903_13.4 P225 BX225SA4**	499
115	2865	2.2	12.9	25300			**F803_12.9 P225 IEC225S4**	**F803_12.9 P225 BX225SA4**	496
132	2487	2.4	11.2	24500			**F803_11.2 P225 IEC225S4**	**F803_11.2 P225 BX225SA4**	496
143	2296	2.4	10.3	24300			**F803_10.3 P225 IEC225S4**	**F803_10.3 P225 BX225SA4**	496

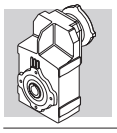
45 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE...		IE2*	IEC IE3	
32	12438	1.1	46.1	43900			**F903_46.1 P225 IEC225M4**	**F903_46.1 P225 BX225SB4**	499
37	10937	1.3	40.5	43900			**F903_40.5 P225 IEC225M4**	**F903_40.5 P225 BX225SB4**	499
40	10096	1.3	37.4	43600			**F903_37.4 P225 IEC225M4**	**F903_37.4 P225 BX225SB4**	499
47	8439	0.9	31.3	26100			**F803_31.3 P225 IEC225M4**	**F803_31.3 P225 BX225SB4**	496
48	8370	1.6	31.0	43100			**F903_31.0 P225 IEC225M4**	**F903_31.0 P225 BX225SB4**	499
51	7790	1.0	28.8	26000			**F803_28.8 P225 IEC225M4**	**F803_28.8 P225 BX225SB4**	496
52	7726	1.6	28.6	42600			**F903_28.6 P225 IEC225M4**	**F903_28.6 P225 BX225SB4**	499
58	6855	1.8	25.4	42000			**F903_25.4 P225 IEC225M4**	**F903_25.4 P225 BX225SB4**	499
66	6017	2.0	22.3	41400			**F903_22.3 P225 IEC225M4**	**F903_22.3 P225 BX225SB4**	499
67	5948	1.1	22.0	26000			**F803_22.0 P225 IEC225M4**	**F803_22.0 P225 BX225SB4**	496
72	5554	2.0	20.6	40800			**F903_20.6 P225 IEC225M4**	**F903_20.6 P225 BX225SB4**	499
73	5491	1.1	20.3	25700			**F803_20.3 P225 IEC225M4**	**F803_20.3 P225 BX225SB4**	496
83	4834	2.3	17.9	39900			**F903_17.9 P225 IEC225M4**	**F903_17.9 P225 BX225SB4**	499
84	4753	1.4	17.6	25500			**F803_17.6 P225 IEC225M4**	**F803_17.6 P225 BX225SB4**	496
90	4463	2.3	16.5	39300			**F903_16.5 P225 IEC225M4**	**F903_16.5 P225 BX225SB4**	499
91	4387	1.4	16.2	25200			**F803_16.2 P225 IEC225M4**	**F803_16.2 P225 BX225SB4**	496
102	3924	2.5	14.5	38400			**F903_14.5 P225 IEC225M4**	**F903_14.5 P225 BX225SB4**	499
106	3775	1.8	14.0	24800			**F803_14.0 P225 IEC225M4**	**F803_14.0 P225 BX225SB4**	496
110	3622	2.6	13.4	37800			**F903_13.4 P225 IEC225M4**	**F903_13.4 P225 BX225SB4**	499
115	3484	1.8	12.9	24100			**F803_12.9 P225 IEC225M4**	**F803_12.9 P225 BX225SB4**	496
132	3025	1.5	11.2	24000			**F803_11.2 P225 IEC225M4**	**F803_11.2 P225 BX225SB4**	496
133	3003	2.9	11.1	36400			**F903_11.1 P225 IEC225M4**	**F903_11.1 P225 BX225SB4**	499
143	2792	2.0	10.3	23500			**F803_10.3 P225 IEC225M4**	**F803_10.3 P225 BX225SB4**	496

55 kW

n_2 min-1	M_2 Nm	S	i	R_{n2} N	IE...		IE2*	IEC IE3	
32	15202	0.9	46.1	39700			**F903_46.1 P250 IEC250M4**	**F903_46.1 P250 BX250MA4**	499
37	13367	1.0	40.5	40300			**F903_40.5 P250 IEC250M4**	**F903_40.5 P250 BX250MA4**	499
40	12339	1.1	37.4	40200			**F903_37.4 P250 IEC250M4**	**F903_37.4 P250 BX250MA4**	499
48	10230	1.3	31.0	40300			**F903_31.0 P250 IEC250M4**	**F903_31.0 P250 BX250MA4**	499
52	9443	1.3	28.6	40100			**F903_28.6 P250 IEC250M4**	**F903_28.6 P250 BX250MA4**	499
58	8379	1.4	25.4	39700			**F903_25.4 P250 IEC250M4**	**F903_25.4 P250 BX250MA4**	499
66	7354	1.6	22.3	39400			**F903_22.3 P250 IEC250M4**	**F903_22.3 P250 BX250MA4**	499
72	6788	1.7	20.6	38900			**F903_20.6 P250 IEC250M4**	**F903_20.6 P250 BX250MA4**	499

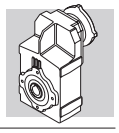
***The technical information shall be considered as indicative, the configurations should be matching the data provided by motors manufacturers on rated powers greater than 22 kW.**

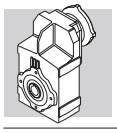


55 kW

n_2 min^{-1}	M_2 Nm	S	i	R_{n2} N	IE...		IEC IE2*	IEC IE3	
83	5909	1.9	17.9	38300			**F903_17.9 P250 IEC250M4**	**F903_17.9 P250 BX250MA4**	499
90	5454	1.9	16.5	37800			**F903_16.5 P250 IEC250M4**	**F903_16.5 P250 BX250MA4**	499
102	4796	2.1	14.5	37100			**F903_14.5 P250 IEC250M4**	**F903_14.5 P250 BX250MA4**	499
110	4427	2.1	13.4	36600			**F903_13.4 P250 IEC250M4**	**F903_13.4 P250 BX250MA4**	499
133	3671	2.4	11.1	35400			**F903_11.1 P250 IEC250M4**	**F903_11.1 P250 BX250MA4**	499
144	3388	2.4	10.3	34800			**F903_10.3 P250 IEC250M4**	**F903_10.3 P250 BX250MA4**	499

***The technical information shall be considered as indicative, the configurations should be matching the data provided by motors manufacturers on rated powers greater than 22 kW.**

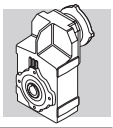




61 GEARBOX RATING CHARTS

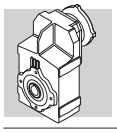
F 10 — 140 Nm

	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	
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	465
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

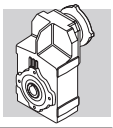
	i	n_1 = 900 min^{-1}					n_1 = 500 min^{-1}					
		n_2 min^{-1}	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 min^{-1}	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
F 10 2_7.4	7.4	122	91	1.2	1300	1890	68	111	0.83	1300	2300	
F 10 2_8.6	8.6	105	94	1.1	1300	1970	58	112	0.72	1300	2430	
F 10 2_9.8	9.8	92	107	1.1	1300	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	465
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	
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	469
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	

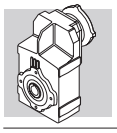
(—) Contact our technical service department advising radial load data (rotation direction, orientation, position)



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	
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	469
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	

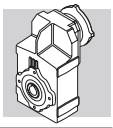
(—) Contact our technical service department advising radial load data (rotation direction, orientation, position)



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	
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	473
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	

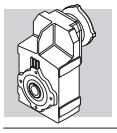
(—) Contact our technical service department advising radial load data (rotation direction, orientation, position)



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	
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	473
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	

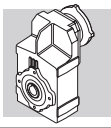
(—) Contact our technical service department advising radial load data (rotation direction, orientation, position)



F 31 — 600 Nm

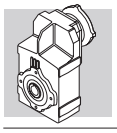
	i	n_1 = 2800 min^{-1}					n_1 = 1400 min^{-1}					
		n_2	M_{n2}	P_{n1}	R_{n1}	R_{n2}	n_2	M_{n2}	P_{n1}	R_{n1}	R_{n2}	
		min^{-1}	Nm	kW	N	N	min^{-1}	Nm	kW	N	N	
F 31 2_6.9	6.9	403	295	13.1	—	2710	201	360	8.0	—	3460	477
F 31 2_8.2	8.2	340	310	11.6	—	2880	170	375	7.0	—	3690	
F 31 2_9.0	9.0	311	310	10.6	—	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	

(—) Contact our technical service department advising radial load data (rotation direction, orientation, position)



F 31 — 600 Nm

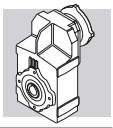
	i	n_1 = 900 min^{-1}					n_1 = 500 min^{-1}					
		n_2 min^{-1}	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 min^{-1}	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
F 31 2_6.9	6.9	130	390	5.6	640	4120	72	390	3.1	2200	5350	
F 31 2_8.2	8.2	109	390	4.7	990	4450	61	390	2.6	2200	5760	
F 31 2_9.0	9.0	100	390	4.3	1320	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	477
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	

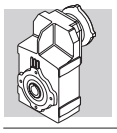
(—) Contact our technical service department advising radial load data (rotation direction, orientation, position)



F 41 — 1100 Nm

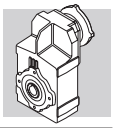
	i	n_1 = 900 min^{-1}					n_1 = 500 min^{-1}					
		n_2 min^{-1}	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 min^{-1}	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
F 41 2_6.7	6.7	134	670	9.9	—	4980	74	700	5.7	1760	6450	
F 41 2_9.1	9.1	99	700	7.6	680	5660	55	700	4.2	2850	7410	
F 41 2_10.8	10.8	84	1025	9.4	480	4900	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	481
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	

(—) Contact our technical service department advising radial load data (rotation direction, orientation, position)



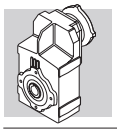
F 51 — 1800 Nm

	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	
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	485
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

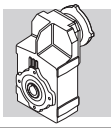
	i	n_1 = 900 min^{-1}					n_1 = 500 min^{-1}					
		n_2 min^{-1}	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 min^{-1}	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
F 51 2_7.2	7.2	125	1100	15.2	1940	6170	70	1100	8.4	3190	8140	
F 51 2_9.1	9.1	99	1100	12.1	2450	6900	55	1100	6.7	3440	9030	
F 51 2_11.1	11.1	81	1520	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	485
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	M_{n2}	P_{n1}	R_{n1}	R_{n2}	n_2	M_{n2}	P_{n1}	R_{n1}	R_{n2}	
		min^{-1}	Nm	kW	N	N	min^{-1}	Nm	kW	N	N	
F 60 3_9.0	9.0	311	920	32	—	13300	156	1160	20	—	16500	
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	489
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	

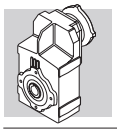
(—) Contact our technical service department advising radial load data (rotation direction, orientation, position)



F 60 — 2900 Nm

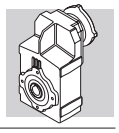
	i	n_1 = 900 min^{-1}					n_1 = 500 min^{-1}					
		n_2 min^{-1}	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 min^{-1}	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
F 60 3_9.0	9.0	100	1340	15.1	—	18800	56	1630	10.2	—	20000	
F 60 3_9.7	9.7	93	1460	15.3	—	19000	52	1780	10.4	—	20000	
F 60 3_11.8	11.8	76	1500	12.9	—	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	489
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	

(—) Contact our technical service department advising radial load data (rotation direction, orientation, position)



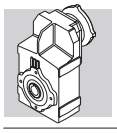
F 70 — 5000 Nm

	i	n_1 = 2800 min^{-1}					n_1 = 1400 min^{-1}					
		n_2	M_{n2}	P_{n1}	R_{n1}	R_{n2}	n_2	M_{n2}	P_{n1}	R_{n1}	R_{n2}	
		min^{-1}	Nm	kW	N	N	min^{-1}	Nm	kW	N	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	



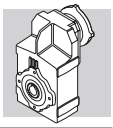
F 70 — 5000 Nm

	i	n_1 = 900 min^{-1}					n_1 = 500 min^{-1}					
		n_2	M_{n2}	P_{n1}	R_{n1}	R_{n2}	n_2	M_{n2}	P_{n1}	R_{n1}	R_{n2}	
		min^{-1}	Nm	kW	N	N	min^{-1}	Nm	kW	N	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

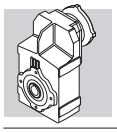
	i	n_1 = 2800 min^{-1}					n_1 = 1400 min^{-1}					
		n_2	M_{n2}	P_{n1}	R_{n1}	R_{n2}	n_2	M_{n2}	P_{n1}	R_{n1}	R_{n2}	
		min^{-1}	Nm	kW	N	N	min^{-1}	Nm	kW	N	N	
F 80 3_10.3	10.3	272	3250	100	610	17200	136	4100	63	220	21800	
F 80 3_11.2	11.2	250	3520	99	620	17800	125	4440	63	230	21700	
F 80 3_12.9	12.9	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	496
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	
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	496
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	

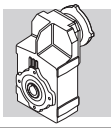
(—) Contact our technical service department advising radial load data (rotation direction, orientation, position)



F 90 — 14000 Nm

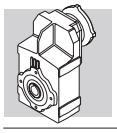
	i	n_1 = 2800 min^{-1}					n_1 = 1400 min^{-1}					
		n_2	M_{n2}	P_{n1}	R_{n1}	R_{n2}	n_2	M_{n2}	P_{n1}	R_{n1}	R_{n2}	
		min^{-1}	Nm	kW	N	N	min^{-1}	Nm	kW	N	N	
F 90 3_10.3	10.3	272	6500	200	5480	23800	136	8000	123	8000	29300	499
F 90 3_11.1	11.1	252	7150	204	5280	23300	126	8800	125	7770	28700	
F 90 3_13.4	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	

(—) Contact our technical service department advising radial load data (rotation direction, orientation, 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	
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	499
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	



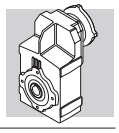
62 MOTOR AVAILABILITY

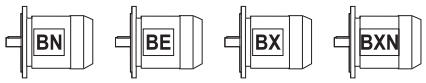
Please be aware that motor-gearbox combinations resulting from the following charts are purely based on geometrical compatibility.

When selecting a gearmotor, refer to procedure specified at paragraph 12 and observe particularly the condition $S \geq f_S$.

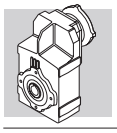
(D 56)

		IEC_ BN BE BX BXN (IM B5)																			
		BN	BE	BXN	BN	BE	BXN	BN	BE	BX	BXN	BN	BE	BX	BXN	BN	BE	BX	BN	BE	BX
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	0.18	0.55	0.37	0.37	1.1	0.75	0.75	0.75	1.85	1.5	1.5	1.5	3	3	3	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	i =	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					
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					
F 25 3		50.8_333.1						45.6_288.1								45.6_288.1					
F 25 4		393.9_1374						393.9_1374								393.9_1374					
F 31 2		18.5_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					
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					
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					
F 51 3		105.1_352.5						48.9_352.5								48.9_352.5					
F 51 4		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)					
F 60 4		315.4_1141						315.4_1141								315.4_1141					
F 70 3								85.4_196.0								85.4_196.0					
F 70 4		372.5_2188						216.5_2188								216.5_2188					
F 80 3								105.0_200.0								105.0_200.0					
F 80 4		451.5_1987						218.5_1987								218.5_1987					
F 90 3								126.8_194.2								126.8_194.2					
F 90 4		577.5_2099						213.6_2099								213.6_2099					



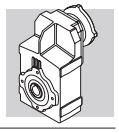
		IEC_  (IM B5)														
		BN	BE	BX	BN	BE	BX	BN	BE	BX	BN	BX	BX	IEC	BX	IEC
P_{n1}(#) [kW]	2p	9.2	9.2	—	18.5	18.5	—	22	—	—	30	—	—	45	—	55
	4p	9.2	9.2	7.5	15	15	15	22	22	22	30	30	45	45	55	55
	6p	5.5	4	—	11	7.5	—	15	—	—	18.5	—	—	30	—	37
		P132			P160			P180			P200		P225		P250	
F 10 2	i =															
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} = maximum installable power on input P_



(D 57)

		M05 - ME05 - MXN05	M1 - M1 - MXN10	ME2 - MX2 - MXN20	ME3 - MX3	ME4 - MX4	ME5 - MX5
F 10 2		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	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_168.7	
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	7.2_37.1
F 51 3			105.1_352.5	48.9_352.5	48.9_352.5	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)	9_201.4	9_201.4
F 60 4			315.4_1141	315.4_1141	315.4_1141		
F 70 3				85.4_196.0	85.4_196.0	16.3_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	216.5_822.2	
F 80 3					105.0_200.0	20.3_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	25.4_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	



Motor adapters matching the most popular brands of servomotors are available for units size F 10 … F 60. Dimensions of servomotor inputs are provided within the drawing section for each frame size. The code **SK** applies for inputs featuring a conventional keyway, while through the specification of the **SC** code the input shaft will feature a clamping device instead.

(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			

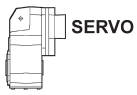
63 MOMENT OF INERTIA

The following charts indicate moment of inertia values Jr [kgm^2] referred to the gear unit high speed shaft. A key to the symbols used follows:

Values under this icon refer to compact gear units, without motor. To obtain the overall moment of inertia for the gearmotor just add the value of the inertia for the specific compact motor, given in the relevant rating chart.

Values under this symbol refer to gearboxes with IEC motor adaptor (IEC size...).

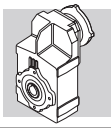
This symbol refers to gearbox values.



Values under this symbol refer to gear unit with servomotor input adapter.

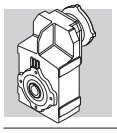
F 10

	i	J (•10-4) [kgm^2]							
			IEC 63	IEC 71	IEC 80	IEC 90	IEC 100	IEC 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



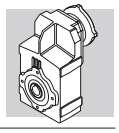
F 10

	i	J (•10-4) [kgm2]									
		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	—	—	—	—	—	—	—	—



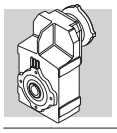
F 20

	i	J (•10-4) [kgm2]							
			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



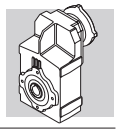
F 20

	i	J (•10-4) [kgm2]									
		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



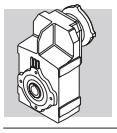
F 25

	i	J (•10-4) [kgm2]							
			IEC						
			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



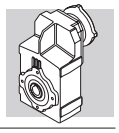
F 25

	i	J (•10-4) [kgm2] 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



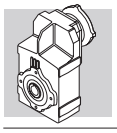
F 31

	i	J (•10-4) [kgm2]								
			IEC 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



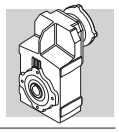
F 31

	i	J (•10-4) [kgm2]											
		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	—	—



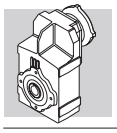
F 41

	i	J (•10-4) [kgm2]								
			IEC 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



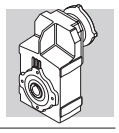
F 41

	i	J (•10-4) [kgm2]																	
		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	—	—	—	—	—	—



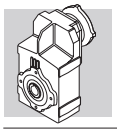
F 51

	i	J (•10-4) [kgm2]										
			IEC									
			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

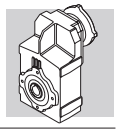
	i	J (•10-4) [kgm2]											
		SERVO											
		80B		95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 51 2_7.2	7.2	—	—	—	—	28	29	28	23	42	44	42	47
F 51 2_9.1	9.1	—	—	—	—	20	21	19	20	34	36	33	38
F 51 2_11.1	11.1	—	—	—	—	19	20	19	20	33	35	33	38
F 51 2_14.0	14.0	—	—	—	—	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) [kgm2]										
			IEC									
			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

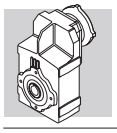
For the values of the moment of inertia of 4-stage gearboxes, please contact our Technical Service department.



F 60

	i	J (•10-4) [kgm2]									
		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	—	—	—	—

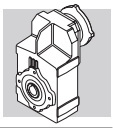
For the values of the moment of inertia of 4-stage gearboxes, please contact our Technical Service department.



F 70

	i	J (•10-4) [kgm2]									
			IEC 80	90	100	112	132	160	180	200	
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

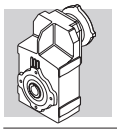
For the values of the moment of inertia of 4-stage gearboxes, please contact our Technical Service department.



F 80

	i	J (•10-4) [kgm2]										
			IEC									
			80	90	100	112	132	160	180	200	225	
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

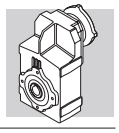
For the values of the moment of inertia of 4-stage gearboxes, please contact our Technical Service department.



F 90

	i	J (•10-4) [kgm2]											
			IEC										
			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	30	45	105	102	132	395	422	393
F 90 3_137.3	137.3	26	29	29	30	30	45	104	102	132	395	422	393
F 90 3_150.3	150.3	21	24	24	25	25	40	100	97	127	390	417	388
F 90 3_162.8	162.8	21	24	24	25	25	40	100	97	127	390	417	388
F 90 3_179.2	179.2	14	16	16	18	18	33	92	90	—	—	—	381
F 90 3_194.2	194.2	14	16	16	17	17	33	92	90	—	—	—	381

For the values of the moment of inertia of 4-stage gearboxes, please contact our Technical Service department.



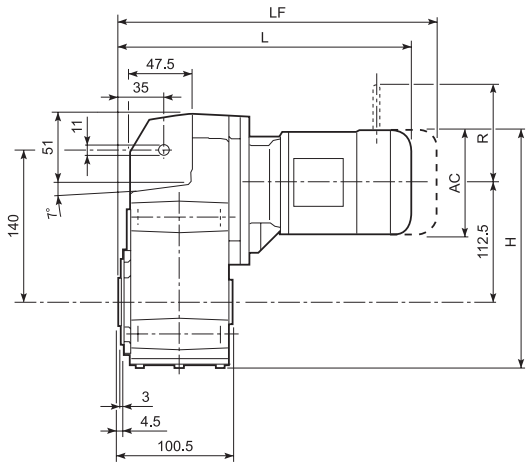
64 EXACT RATIOS

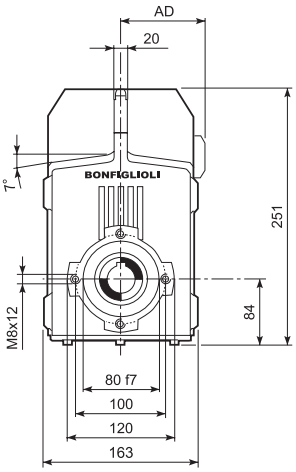
i_N	F 10	F 20	F 25	F 31	F 41	F 51	F 60	F 70	F 80	F 90
6.3		6.41210								
7.1	7.40443		6.86957	6.94907	6.72727	7.19408				
8.0		7.83478	8.39375	8.22917						
9.0	8.58204	8.73227	9.35526	9.01630	9.13580	9.05114	8.96000			
10.0	9.76974	10.03069	10.62451	10.74747			9.70667	10.01538	10.33846	10.26577
11.2	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

2x 3x 4x

65 DIMENSIONS

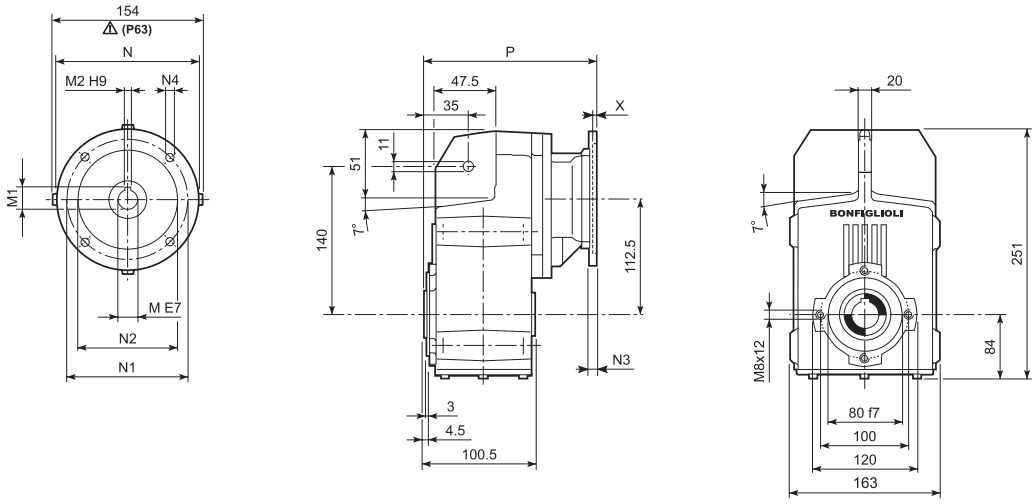
F 10...M/ME/MX/MXN





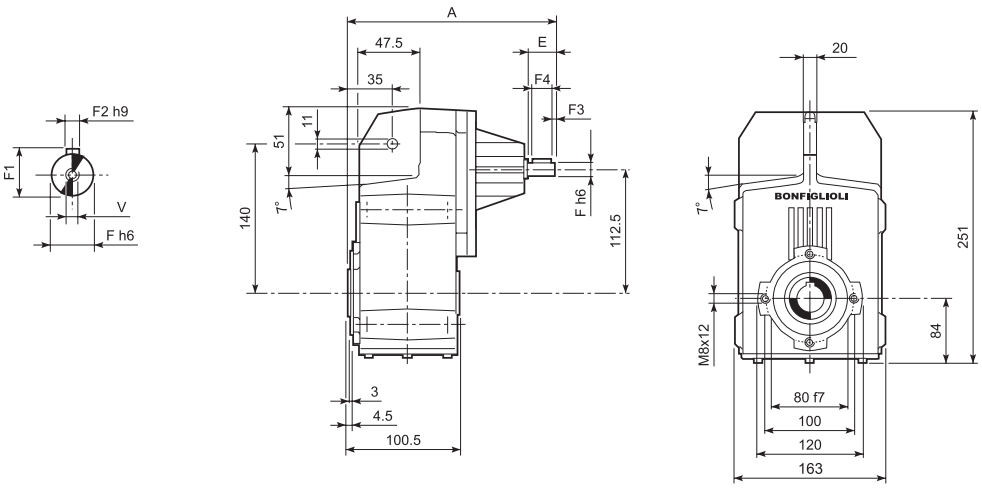
								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 10 2	**S05**	**M05**	121	220.5	311.5	95	12	377.5	13	96	122	116	95
F 10 2	**S05**	**ME05**	121	220.5	311.5	95	12	377.5	13	96	119	116	119
F 10 2	**S05**	**MXN05**	123	221.5	358	136	13.8	405	14.9	96	136	116	136
F 10 2	**S1**	**M1**	138	265.5	340.5	108	14	401.5	17	103	135	124	108
F 10 2	**S1**	**ME1**	138	265.5	340.5	108	14	401.5	17	103	135	124	135
F 10 2	**S10**	**MXN10**	138	265.5	369.5	137	16.4	428.5	18.8	103	138	121	138
F 10 2	**S2**	**ME2S**	156	274.5	369.5	119	18	439.5	20.1	129	143	134	143
F 10 2	**S2**	**MX2S**	156	274.5	413.5	119	23	485.5	27.3	129	143	134	143
F 10 2	**S20**	**MXN20**	158	275.5	467	146	25.2	538	27.4	129	148	131	148
F 10 2	**S3**	**ME3S**	195	294	412.5	142	22	508.5	29.4	160	155	160	155
F 10 2	**S3**	**MX3S**	195	294	444.5	142	25	534.5	34.4	160	155	160	155
F 10 2	**S3**	**ME3L**	195	294	444.5	142	24	535.5	35.9	160	155	160	155
F 10 2	**S3**	**MX3L**	195	294	488.5	142	30	580.5	43.4	160	155	160	155

F 10...P(IEC)



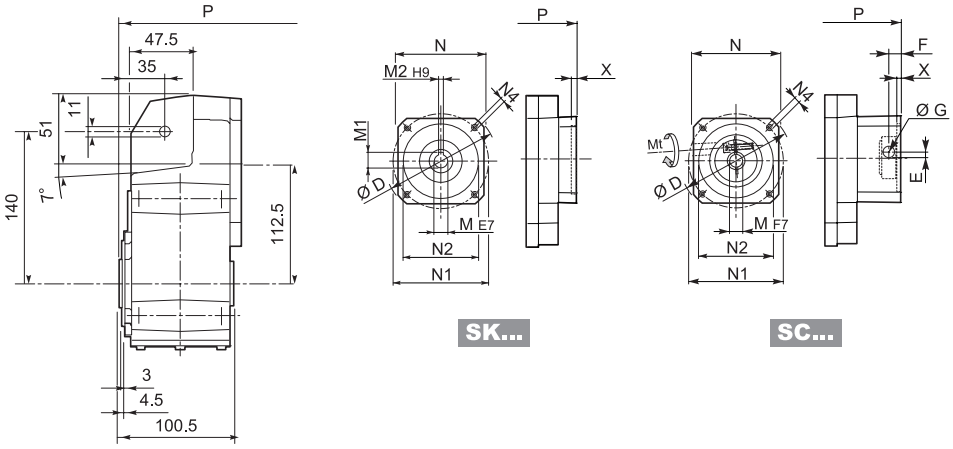
		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 10 2	**P63**	11	12.8	4	140	115	95	—	M8x19	4	185.5	8
F 10 2	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	185.5	8
F 10 2	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	205	9
F 10 2	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	205	9
F 10 2	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	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	Kg
F 10 2	**HS**	192	40	16	18	5	2.5	35	M6x16	7.5

F 10...SK / SC

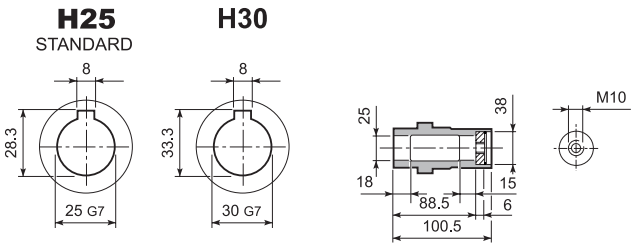


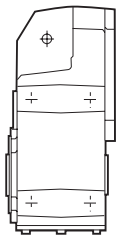
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg
F 10 2	**SK 60A**	102	11	12.8	4	82	75	60	M5x10	3.5	157	8
F 10 2	**SK 60B**	102	14	16.3	5	82	75	60	M5x10	4	164	8
F 10 2	**SK 80A**	115	14	16.3	5	90	100	80	M6x12	4	164	8
F 10 2	**SK 80C**	120	19	21.8	6	96	100	80	M6x12	4	205	9
F 10 2	**SK 95A**	130	14	16.3	5	102	115	95	M8x12	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	Kg
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

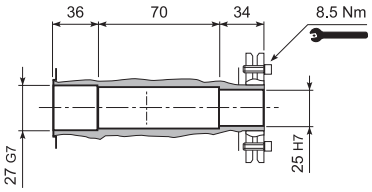
F 10

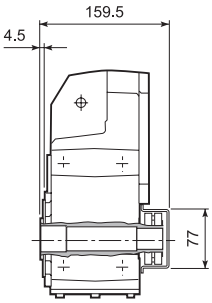
F 10...H



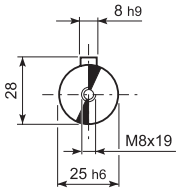


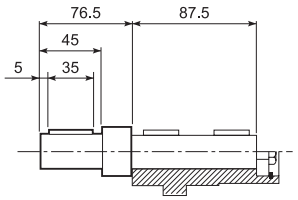
F 10...S

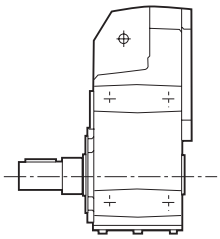




F 10...R

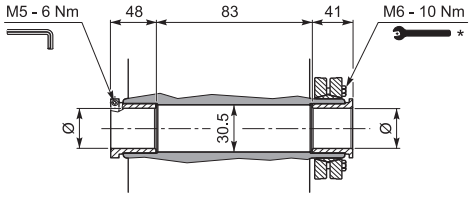


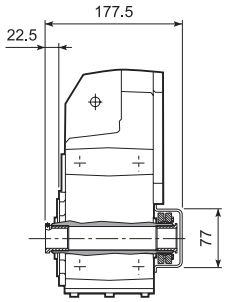




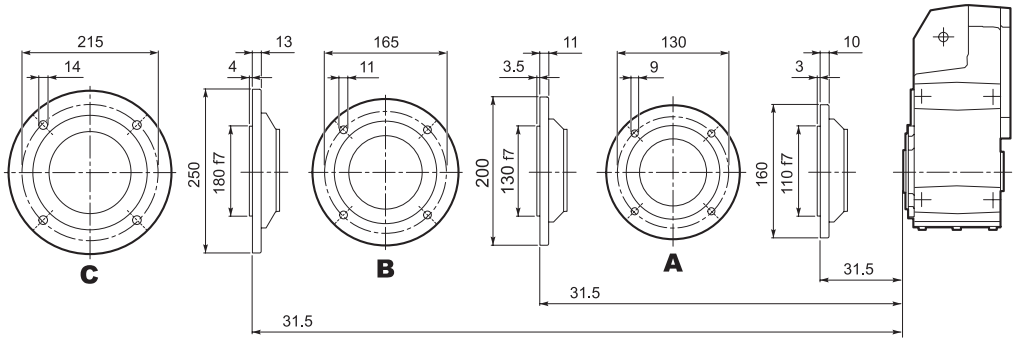
F 10...QF

	Ø
QF25	25
QF30	30



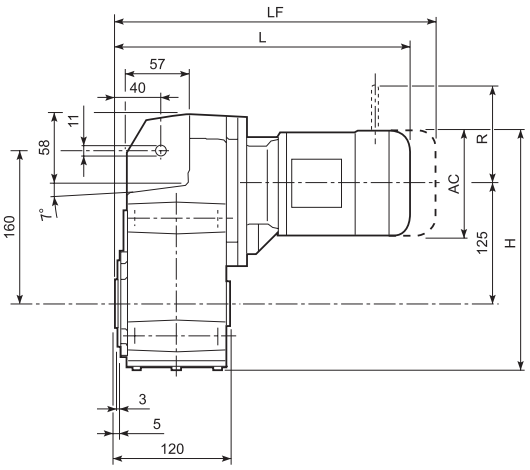


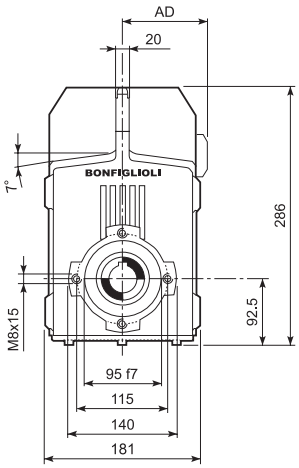
F 10...F...



* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox.

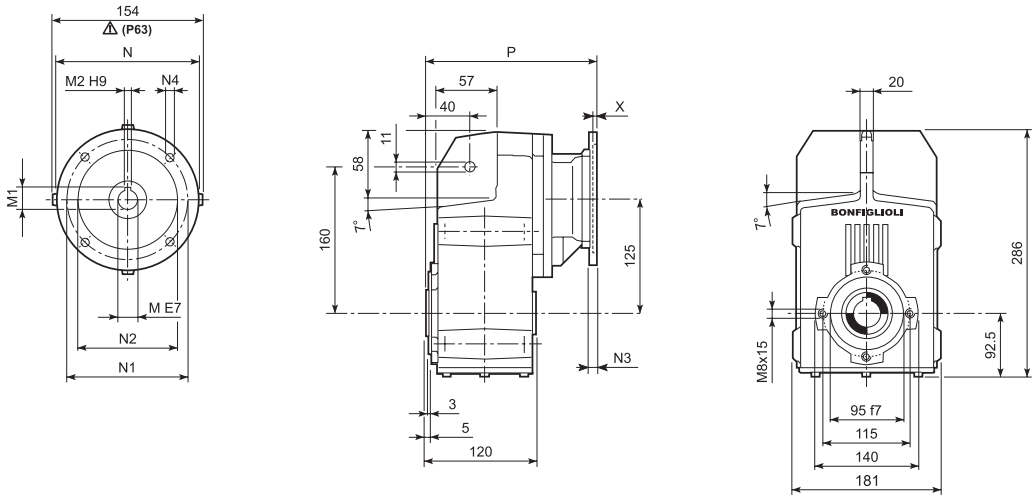
F 20...M/ME/MX/MXN





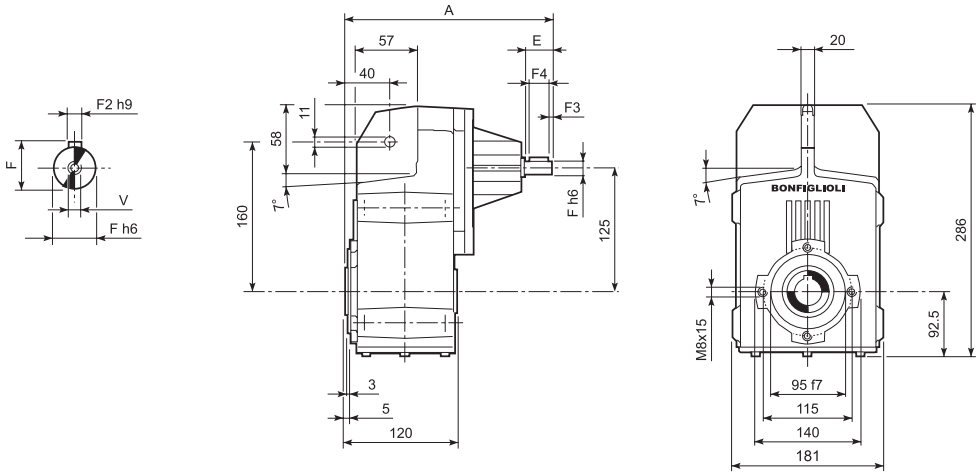
								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 20 2	**S05**	**M05**	121	278.2	323.5	95	15	389.5	17	96	122	116	95
F 20 2	**S05**	**ME05**	121	278.2	323.5	95	15	389.5	17	96	119	116	119
F 20 2	**S05**	**MXN05**	123	279.2	370	136	16.8	417	17.9	96	136	116	136
F 20 2	**S1**	**M1**	138	286.7	352.5	108	17	413.5	20	103	135	124	108
F 20 2	**S1**	**ME1**	138	286.7	352.5	108	17	413.5	20	103	135	124	135
F 20 2	**S10**	**MXN10**	138	286.7	381.5	137	19.4	440.5	21.8	103	138	121	138
F 20 2	**S2**	**ME2S**	156	295.7	381.5	119	21	451.5	22.8	129	143	135	143
F 20 2	**S2**	**MX2S**	156	295.7	425.5	119	26	497.5	30	129	143	135	143
F 20 2	**S20**	**MXN20**	158	296.7	479	146	28.2	550	30.4	129	148	131	148
F 20 2	**S3**	**ME3S**	195	315.2	424.5	142	26	520.5	32.1	160	155	160	155
F 20 2	**S3**	**MX3S**	195	315.2	456.5	142	29	546.5	37.1	160	155	160	155
F 20 2	**S3**	**ME3L**	195	315.2	456.5	142	33	547.5	38.6	160	155	160	155
F 20 2	**S3**	**MX3L**	195	315.2	500.5	142	39	592.5	46.1	160	155	160	155
F 20 3	**S05**	**M05**	121	278.2	379	95	17	445	18	96	122	116	95
F 20 3	**S05**	**ME05**	121	278.2	379	95	17	445	18	96	119	116	119
F 20 3	**S05**	**MXN05**	121	278.2	425	95	18.8	472	19.9	96	136	116	136
F 20 3	**S1**	**M1**	138	286.7	408	108	19	469	21	103	135	124	108
F 20 3	**S1**	**ME1**	138	286.7	408	108	19	469	21	103	135	124	108
F 20 3	**S10**	**MXN10**	138	286.7	437	108	21.4	496	23.8	103	138	121	138
F 20 3	**S2**	**ME2S**	156	295.7	437	119	22	507	24.8	129	143	135	143
F 20 3	**S2**	**MX2S**	156	295.7	481	119	27	553	32	129	143	135	143
F 20 3	**S20**	**MXN20**	156	295.7	534.5	119	29.2	605.5	31.4	129	148	131	148
F 20 3	**S3**	**ME3S**	195	315.2	480	142	27	576	34.1	160	155	160	155
F 20 3	**S3**	**MX3S**	195	315.2	512	142	30	602	39.1	160	155	160	155
F 20 3	**S3**	**ME3L**	195	315.2	512	142	34	603	40.6	160	155	160	155
F 20 3	**S3**	**MX3L**	195	315.2	556	142	40	648	48.1	160	155	160	155

F 20...P(IEC)



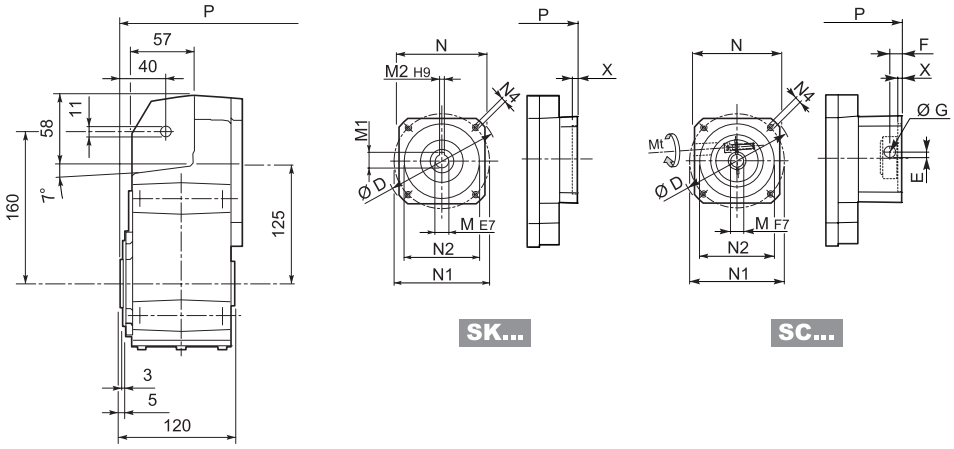
		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 20 2	**P63**	11	12.8	4	140	115	95	—	M8x19	4	197.5	12
F 20 2	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	197.5	12
F 20 2	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	217	13
F 20 2	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	217	12
F 20 2	**P100**	28	31.3	8	250	215	180	—	M12x16	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	Kg
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

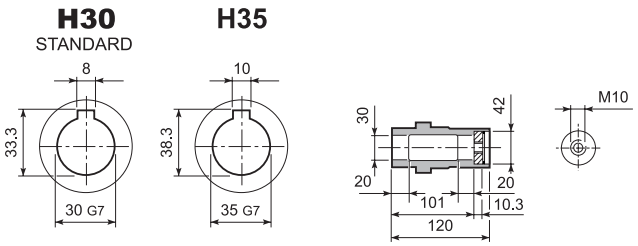


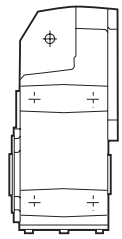
											2x		3x	
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg	P	Kg
F 20 2/3	SK 60A	102	11	12.8	4	82	75	60	M5x10	3.5	169	11	224.5	12
F 20 2/3	SK 60B	102	14	16.3	5	82	75	60	M5x10	4	176	12	231.5	13
F 20 2/3	SK 80A	115	14	16.3	5	90	100	80	M6x12	4	217	12	231.5	13
F 20 2/3	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	217	13	272.5	14
F 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

														2x		3x	
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	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

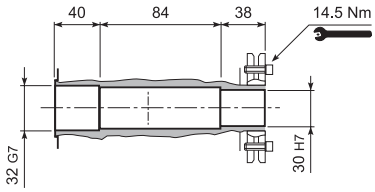
F 20

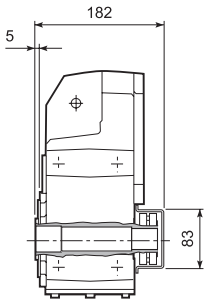
F 20...H



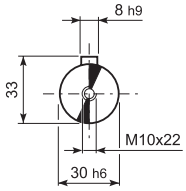


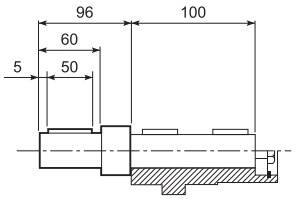
F 20...S

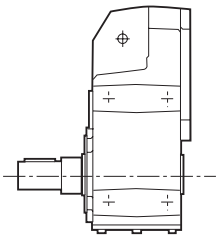




F 20...R

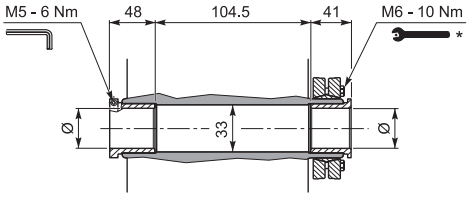


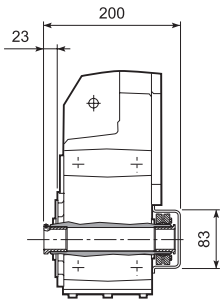




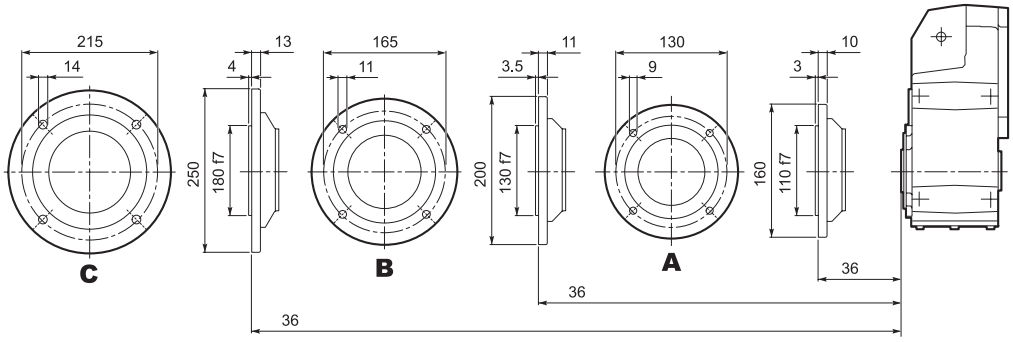
F 20...QF

	Ø
QF25	25
QF30	30



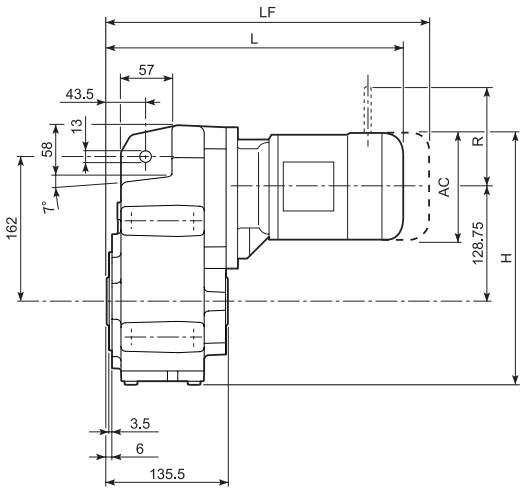


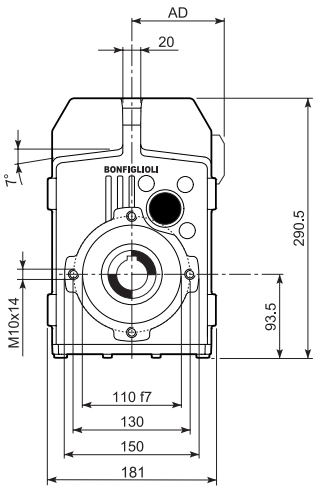
F 20...F...



* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox.

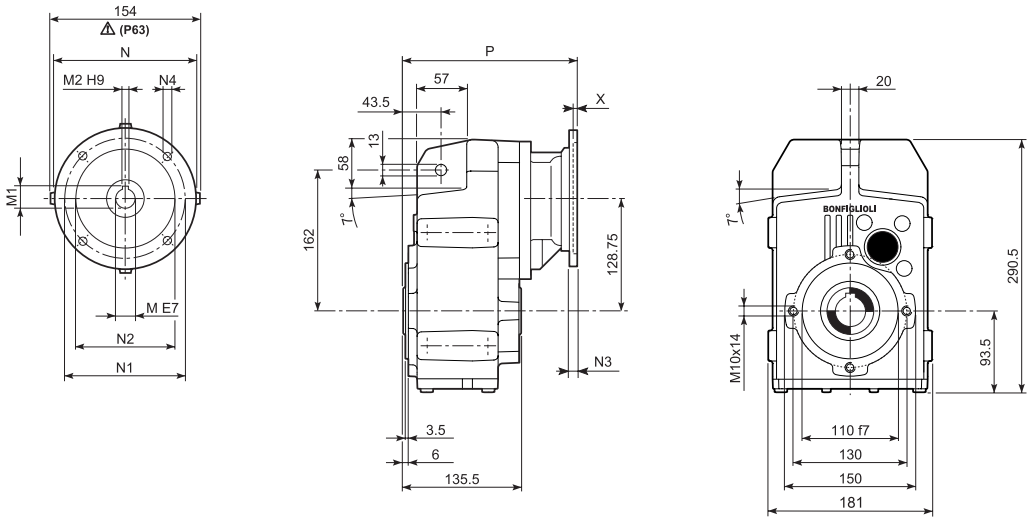
F 25...M/ME/MX/MXN





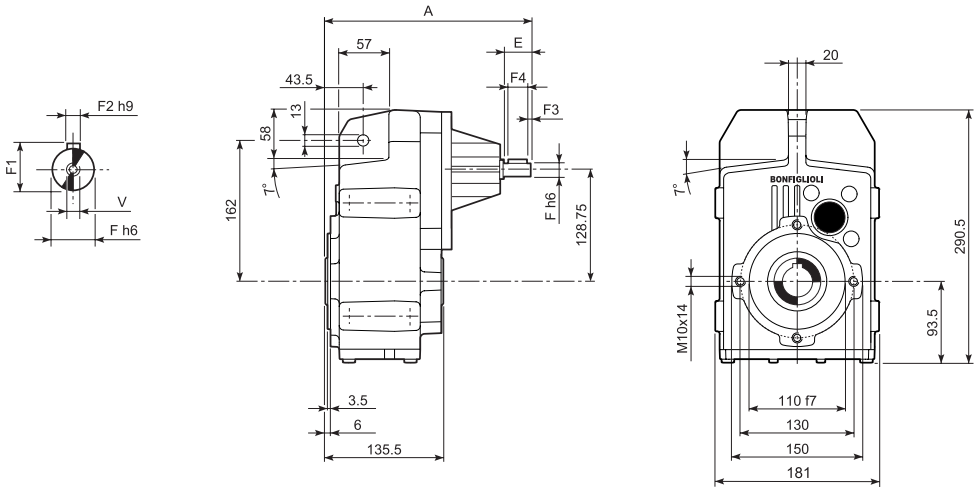
								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 25 2/3	**S05**	**M05**	121	283	339	95	15	405	17	96	122	116	95
F 25 2/3	**S05**	**ME05**	121	283	339	95	15	405	17	96	119	116	119
F 25 2/3	**S05**	**MXN05**	123	284	385.5	136	16.8	432.5	17.9	96	136	116	136
F 25 2/3	**S1**	**M1**	138	291.5	368	108	17	429	20	103	135	124	108
F 25 2/3	**S1**	**ME1**	138	291.5	368	108	17	429	20	103	135	124	135
F 25 2/3	**S10**	**MXN10**	138	291.5	397	137	19.4	456	21.8	103	138	121	138
F 25 2/3	**S2**	**ME2S**	156	300.5	397	119	21	467	22.8	129	143	134	143
F 25 2/3	**S2**	**MX2S**	156	300.5	441	119	26	513	30	129	143	134	143
F 25 2/3	**S20**	**MXN20**	158	301.5	494.5	146	28.2	565.5	30.4	129	148	131	148
F 25 2/3	**S3**	**ME3S**	195	320	440	142	26	536	32.1	160	155	160	155
F 25 2/3	**S3**	**MX3S**	195	320	472	142	29	562	37.1	160	155	160	155
F 25 2/3	**S3**	**ME3L**	195	320	472	142	33	563	38.6	160	155	160	155
F 25 2/3	**S3**	**MX3L**	195	320	516	142	39	608	46.1	160	155	160	155
F 25 4	**S05**	**M05**	121	283	394.5	95	17	460.5	18	96	122	116	95
F 25 4	**S05**	**ME05**	121	283	394.5	95	17	460.5	18	96	119	116	119
F 25 4	**S05**	**MXN05**	123	284	441	136	18.8	488	19.9	96	136	116	136
F 25 4	**S1**	**M1**	138	291.5	423.5	108	19	484.5	21	103	135	124	108
F 25 4	**S1**	**ME1**	138	291.5	423.5	108	19	484.5	21	103	135	124	135
F 25 4	**S10**	**MXN10**	138	291.5	452.5	137	21.4	511.5	23.8	103	138	121	138
F 25 4	**S2**	**ME2S**	156	300.5	452.5	119	22	495.5	24.8	129	143	134	143
F 25 4	**S2**	**MX2S**	156	300.5	496.5	119	27	568.5	32	129	143	134	143
F 25 4	**S20**	**MXN20**	158	301.5	550	146	29.2	621	31.4	129	148	131	148
F 25 4	**S3**	**ME3S**	195	320	495.5	142	27	591.5	34.1	160	155	160	155
F 25 4	**S3**	**MX3S**	195	320	527.5	142	30	617.5	39.1	160	155	160	155
F 25 4	**S3**	**ME3L**	195	320	527.5	142	34	618.5	40.6	160	155	160	155
F 25 4	**S3**	**MX3L**	195	320	571.5	142	40	663.5	48.1	160	155	160	155

F 25...P(IEC)



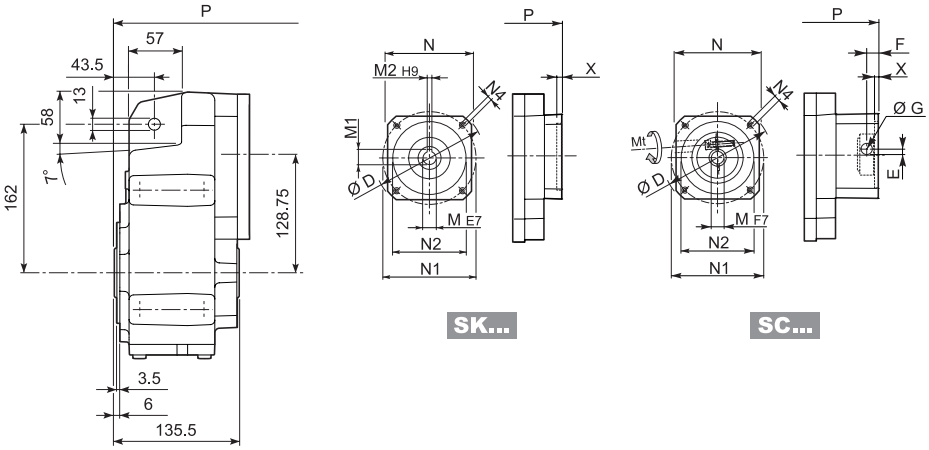
		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 25 2/3	**P63**	11	12.8	4	140	115	95	—	M8x19	4	213	12
F 25 2/3	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	213	12
F 25 2/3	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	232.5	13
F 25 2/3	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	232.5	13
F 25 2/3	**P100**	28	31.3	8	250	215	180	—	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	Kg
F 25 2		263	40	19	21.5	6	2.5	35	M6x16	11.5
F 25 3	**HS**	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

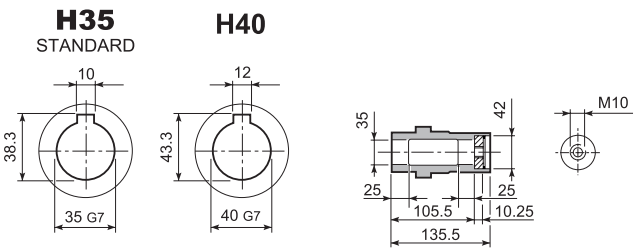


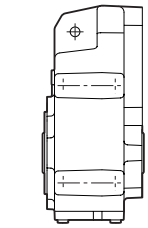
											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg	P	Kg
F 25 2/3/4	SK 60A	102	11	12.8	4	82	75	60	M5x10	3.5	184.5	11	240	12
F 25 2/3/4	SK 60B	102	14	16.3	5	82	75	60	M5x10	4	191.5	12	247	13
F 25 2/3/4	SK 80A	115	14	16.3	5	90	100	80	M6x12	4	191.5	12	247	13
F 25 2/3/4	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	232.5	13	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

														2/3x		4x	
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg	P	Kg
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

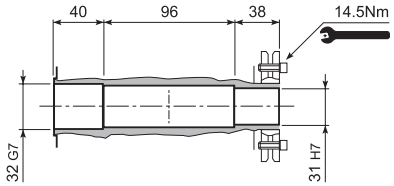
F 25

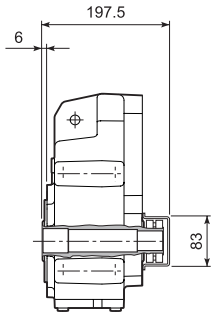
F 25...H



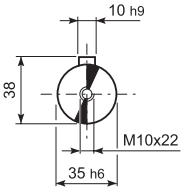


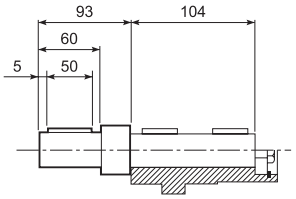
F 25...S

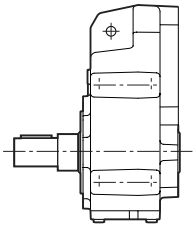




F 25...R



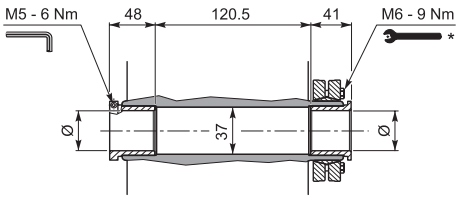


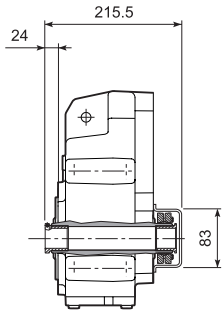


F 25...QF

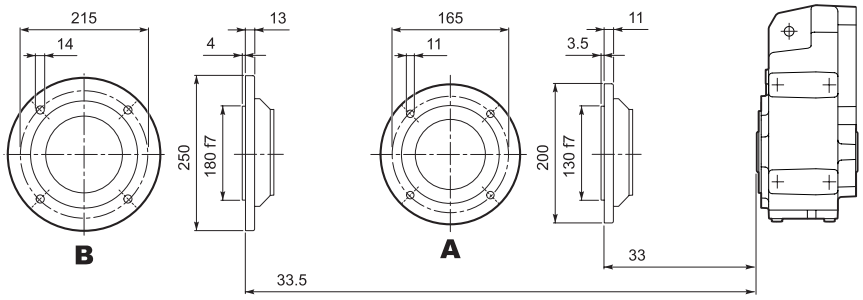
	Ø
QF30	30
QF32	32

$M_{n2\ max}$ [Nm]	
F 25 QF30	350



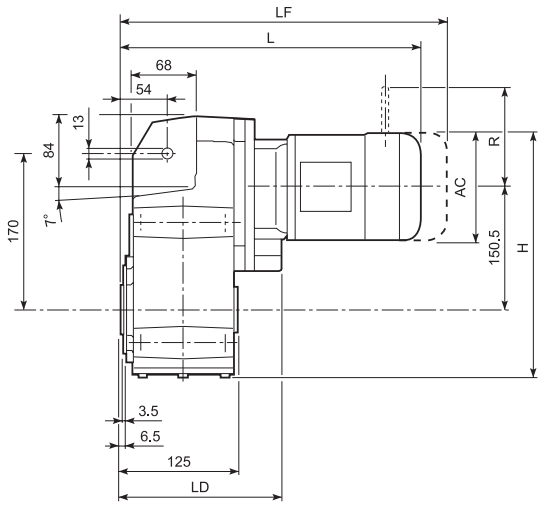


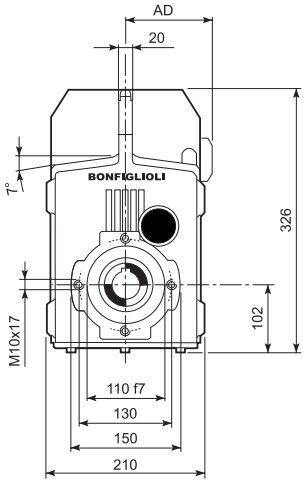
F 25...F...



* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox.

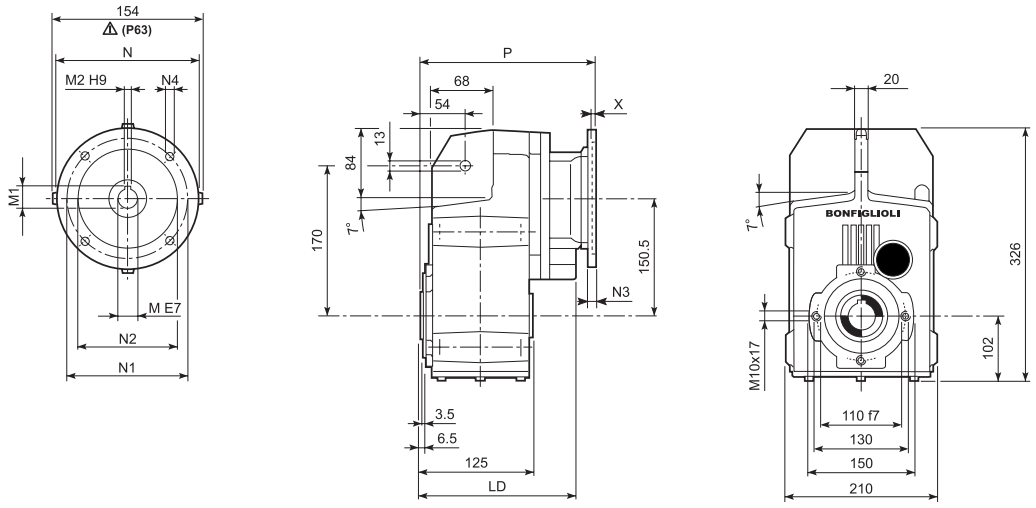
F 31...M/ME/MX/MXN





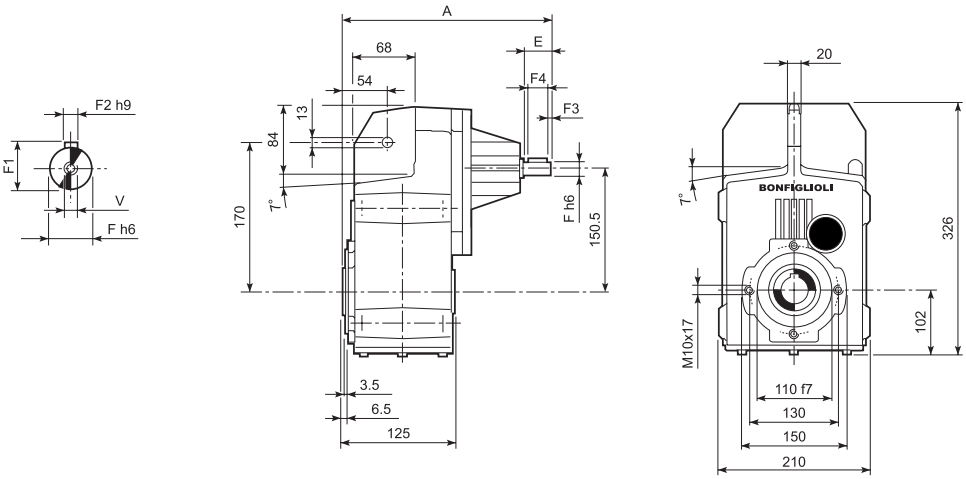
										M...FD M...FA		M...FD		M...FA	
				AC	H	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
F 31 2/3	S1	M1		138	321.3	380.5	183.5	108	22	441.5	25	103	135	124	108
F 31 2/3	S1	ME1		138	321.3	380.5	183.5	108	22	441.5	25	103	135	124	135
F 31 2/3	S10	MXN10		138	350.3	380.5	183.5	137	24.4	439.5	26.8	103	138	121	138
F 31 2/3	S2	ME2S		156	330.3	409.5	195.5	119	26	479.5	27.8	129	143	134	143
F 31 2/3	S2	MX2S		156	330.3	453.5	195.5	119	31	525.5	35	129	143	134	143
F 31 2/3	S3	ME3S		195	349.8	452.5	205.5	142	31	548.5	37.1	160	155	160	155
F 31 2/3	S3	MX3S		195	349.8	484.5	205.5	142	34	574.5	42.1	160	155	160	155
F 31 2/3	S3	ME3L		195	349.8	484.5	205.5	142	40	575.5	43.6	160	155	160	155
F 31 2/3	S3	MX3L		195	349.8	528.5	205.5	142	46	620.5	51.1	160	155	160	155
F 31 2/3	S4	ME4	MX4	258	381.3	592.5	—	193	72	701.5	81.1	204	210	200	210
F 31 2/3	S4	ME4LA	MX4LA	258	381.3	592.5	—	193	78	690.5	95.1	226	210	217	210
F 31 4	S05	M05		121	312.8	409	—	95	20	475	22	96	122	116	95
F 31 4	S05	ME05		121	312.8	409	—	95	20	475	22	96	119	116	119
F 31 4	S05	MXN05		123	360.3	409	—	136	21.8	456	22.9	96	136	116	136
F 31 4	S1	M1		138	321.3	438	—	108	22	499	25	103	135	124	108
F 31 4	S1	ME1		138	321.3	438	—	108	22	499	25	103	135	124	135
F 31 4	S10	MXN10		138	350.3	438	—	137	24.4	497	26.8	103	138	121	138
F 31 4	S2	ME2S		156	330.3	467	—	119	26	537	27.8	129	143	134	143
F 31 4	S2	MX2S		156	330.3	511	—	119	31	583	35	129	143	134	143
F 31 4	S20	MXN20		158	368.8	511	—	146	33.3	582	35.5	129	148	131	148
F 31 4	S3	ME3S		195	349.8	510	—	142	31	606	37.1	160	155	160	155
F 31 4	S3	MX3S		195	349.8	542	—	142	34	632	42.1	160	155	160	155
F 31 4	S3	ME3L		195	349.8	542	—	142	41	633	43.6	160	155	160	155
F 31 4	S3	MX3L		195	349.8	586	—	142	47	678	51.1	160	155	160	155

F 31...P(IEC)



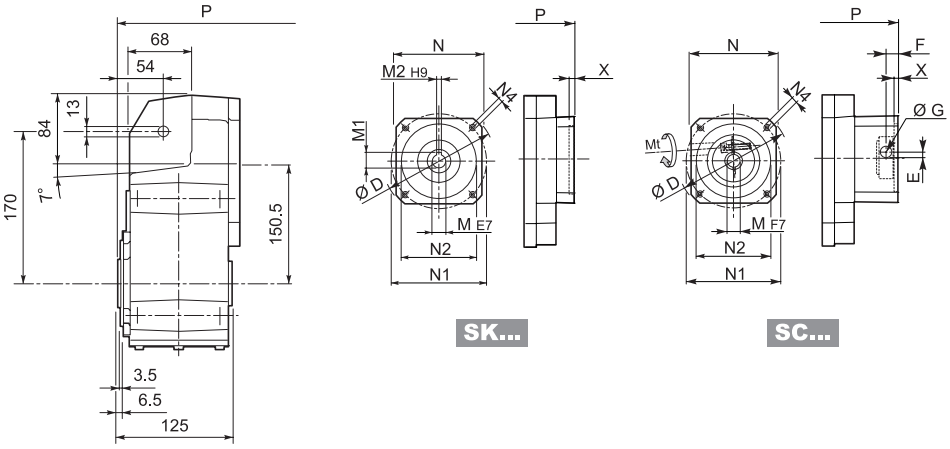
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 31 2/3	**P63**	195.5	11	12.8	4	140	115	95	—	M8x19	4	225.5	17
F 31 2/3	**P71**	195.5	14	16.3	5	160	130	110	—	M8x16	4.5	225.5	17
F 31 2/3	**P80**	205.5	19	21.8	6	200	165	130	—	M10x14.5	4	245	18
F 31 2/3	**P90**	205.5	24	27.3	8	200	165	130	—	M10x14.5	4	245	17
F 31 2/3	**P100**	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	Kg
F 31 2		275.5	40	19	21.5	6	2.5	35	M6x16	16.7
F 31 3	**HS**	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

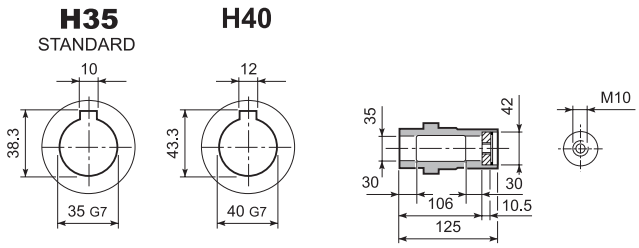


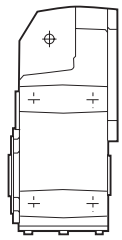
											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg	P	Kg
F 31 2/3/4	SK 60A	102	11	12.8	4	82	75	60	M5x10	3.5	197	16	254.5	16
F 31 2/3/4	SK 60B	102	14	16.3	5	82	75	60	M5x10	4	204	17	261.5	17
F 31 2/3/4	SK 80A	115	14	16.3	5	90	100	80	M6x12	4	204	17	261.5	17
F 31 2/3/4	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	245	18	302.5	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	—	—

														2/3x		4x	
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg	P	Kg
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	—	—

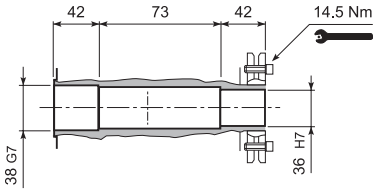
F 31

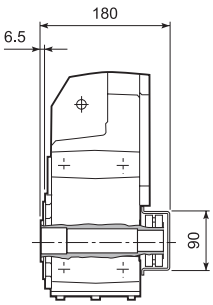
F 31...H



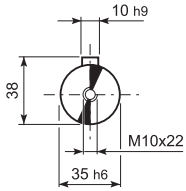


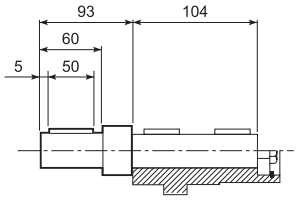
F 31...S

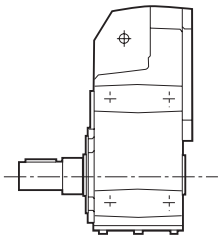




F 31...R

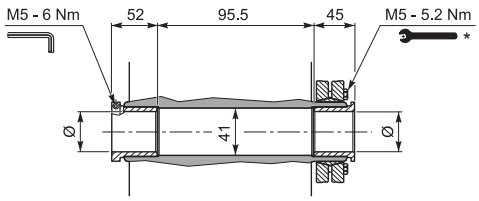


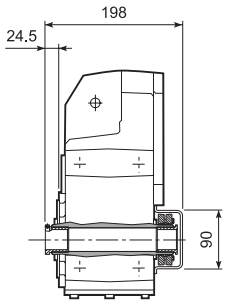




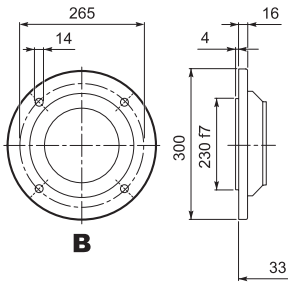
F 31...QF

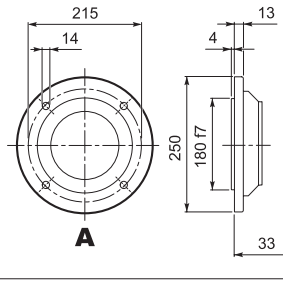
	Ø
QF35	35
QF40	40

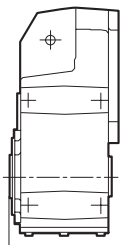




F 31...F...

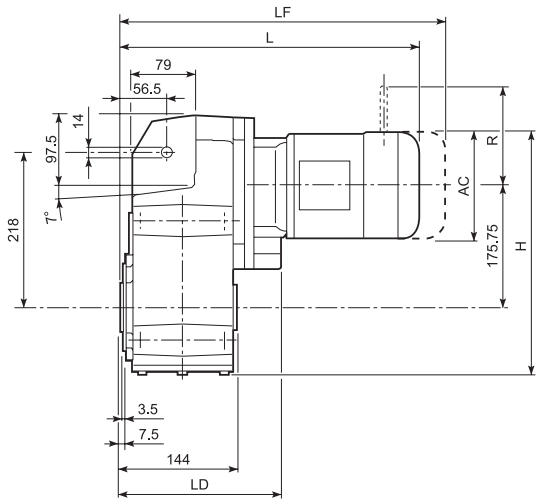


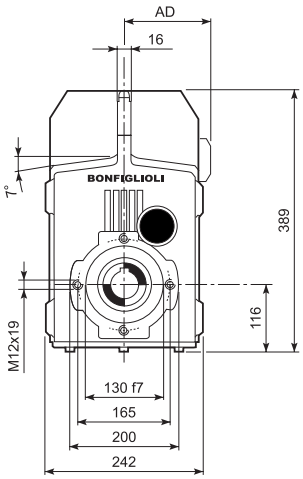




* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox.

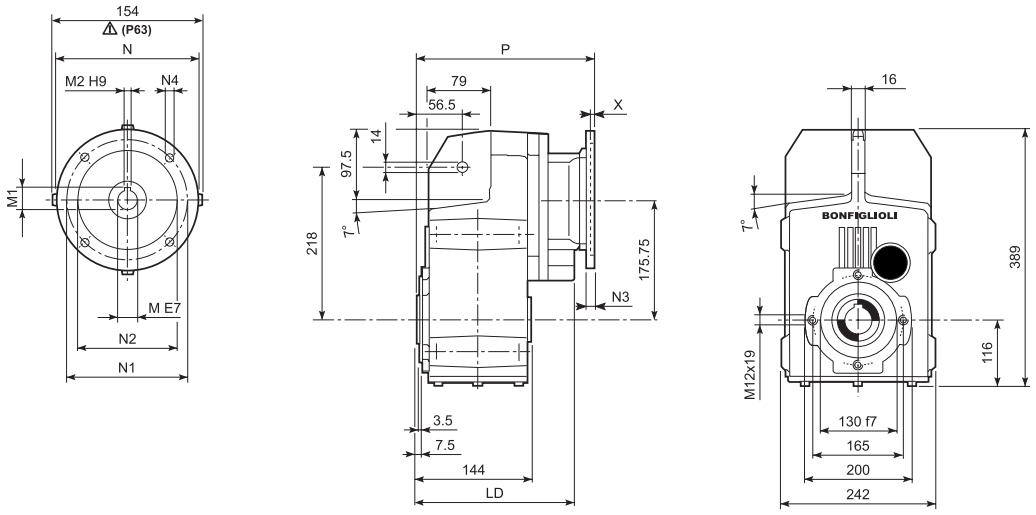
F 41...M/ME/MX/MXN





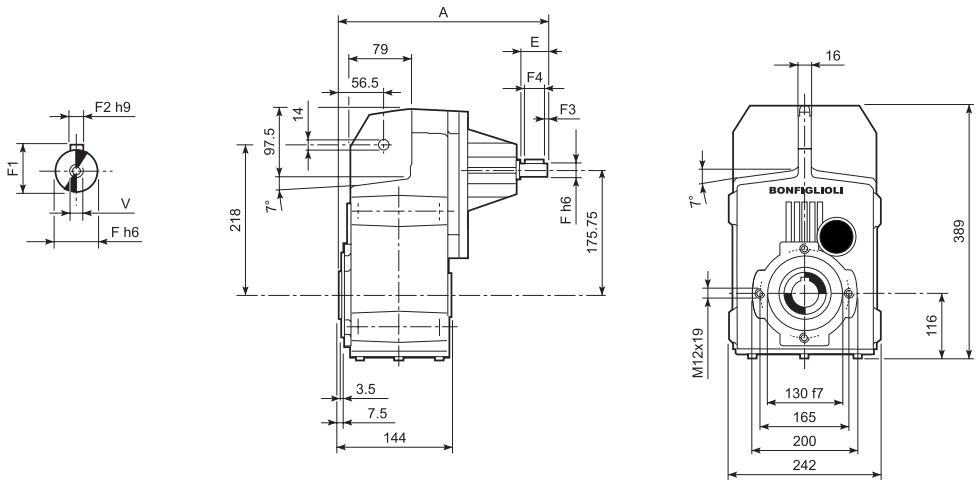
										M...FD M...FA		M...FD		M...FA	
				AC	H	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
F 41 2/3	**S1**	**M1**		138	360.8	401	199.5	108	46	462	48	103	135	124	108
F 41 2/3	**S1**	**ME1**		138	360.8	401	199.5	108	46	462	48	103	135	124	135
F 41 2/3	**S2**	**ME2S**		156	369.8	430	215	119	49	500	51.8	129	143	134	143
F 41 2/3	**S2**	**MX2S**		156	369.8	474	215	119	54	604	59	129	143	134	143
F 41 2/3	**S3**	**ME3S**		195	389.3	473	231	142	54	569	61.1	160	155	160	155
F 41 2/3	**S3**	**MX3S**		195	389.3	505	231	142	57	595	66.1	160	155	160	155
F 41 2/3	**S3**	**ME3L**		195	389.3	505	231	142	64	596	67.6	160	155	160	155
F 41 2/3	**S3**	**MX3L**		195	389.3	549	231	142	70	641	75.1	160	155	160	155
F 41 2/3	**S4**	**ME4**	**MX4**	258	420.8	613	—	193	96	722	105.1	204	210	200	210
F 41 2/3	**S4**	**ME4LB**	**MX4LA**	258	420.8	648	—	193	104	746	119.1	226	210	217	210
F 41 4	**S05**	**M05**		121	352.3	433.5	—	95	45	499.5	46	96	122	116	95
F 41 4	**S05**	**ME05**		121	352.3	433.5	—	95	45	499.5	46	96	119	116	119
F 41 4	**S05**	**MXN05**		123	353.3	480	—	136	46.8	527	47.9	96	136	116	136
F 41 4	**S1**	**M1**		138	360.8	462.5	—	108	47	523.5	49	103	135	124	108
F 41 4	**S1**	**ME1**		138	360.8	462.5	—	108	47	523.5	49	103	135	124	135
F 41 4	**S10**	**MXN10**		138	360.8	491.5	—	137	49.4	521.5	51.8	103	138	121	138
F 41 4	**S2**	**ME2S**		156	369.8	491.5	—	119	50	561.5	52.8	129	143	134	143
F 41 4	**S2**	**MX2S**		156	369.8	535.5	—	119	55	607.5	60	129	143	134	143
F 41 4	**S20**	**MXN20**		158	370.8	589	—	146	57.2	660	59.4	129	148	131	148
F 41 4	**S3**	**ME3S**		195	389.3	534.5	—	142	55	630.5	62.1	160	155	160	155
F 41 4	**S3**	**MX3S**		195	389.3	566.5	—	142	58	656.5	67.1	160	155	160	155
F 41 4	**S3**	**ME3L**		195	389.3	566.5	—	142	65	657.5	68.6	160	155	160	155
F 41 4	**S3**	**MX3L**		195	389.3	610.5	—	142	71	702.5	76.1	160	155	160	155

F 41...P(IEC)



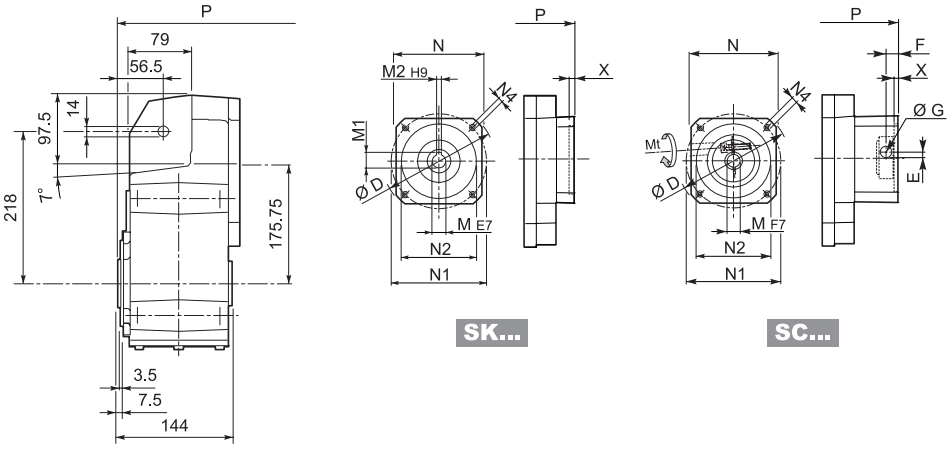
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 41 2/3	**P63**	215	11	12.8	4	140	115	95	—	M8x19	4	246	42
F 41 2/3	**P71**	215	14	16.3	5	160	130	110	—	M8x16	4.5	246	42
F 41 2/3	**P80**	231	19	21.8	6	200	165	130	—	M10x14.5	4	265.5	43
F 41 2/3	**P90**	231	24	27.3	8	200	165	130	—	M10x14.5	4	265.5	43
F 41 2/3	**P100**	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		335.5	50	24	27	8	2.5	45	M8x19	44.9
F 41 3	**HS**	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

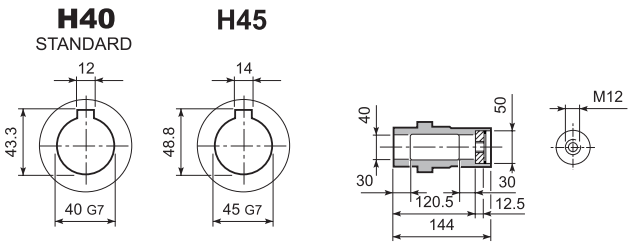


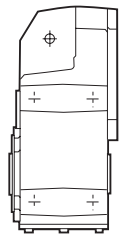
											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg	P	Kg
F 41 4	**SK 60A**	102	11	12.8	4	82	75	60	M5x10	3.5	—	—	279	43
F 41 4	**SK 60B**	102	14	16.3	5	82	75	60	M5x10	4	—	—	286	44
F 41 4	**SK 80A**	115	14	16.3	5	90	100	80	M6x12	4	—	—	286	44
F 41 2/3	**SK 80B**	120	14	16.3	5	96	100	80	M6x12	4	265.5	43	—	—
F 41 2/3/4	**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	—	—

														2/3x		4x	
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg	P	Kg
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	—	—

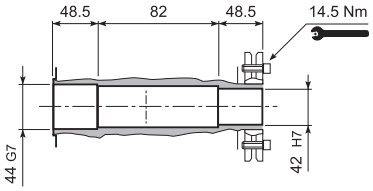
F 41

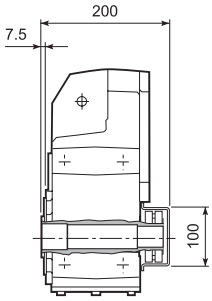
F 41...H



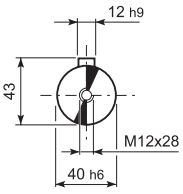


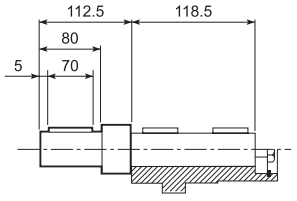
F 41...S

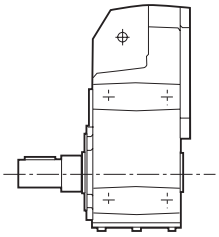




F 41...R



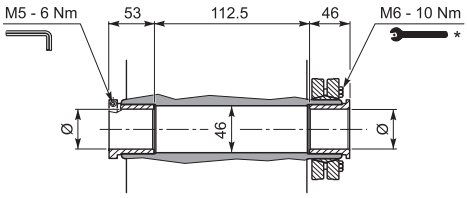


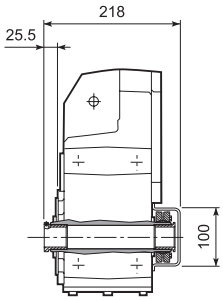


F 41...QF

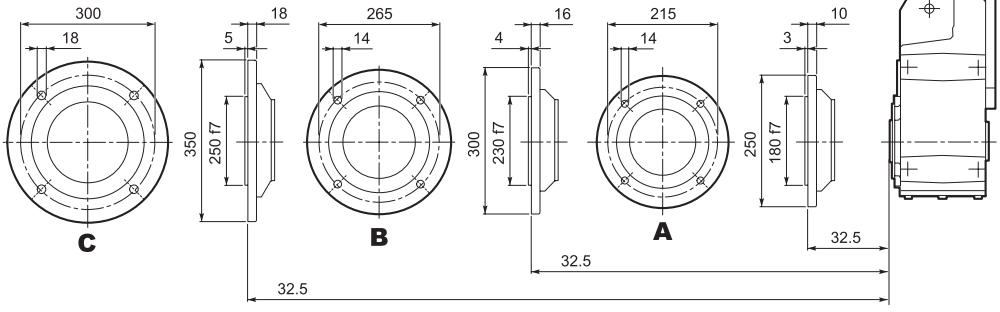
	Ø
QF42	42
QF45	45

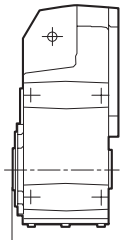
$M_{n2\ max}$ [Nm]	
F 41 QF42	850
F 41 QF45	1000





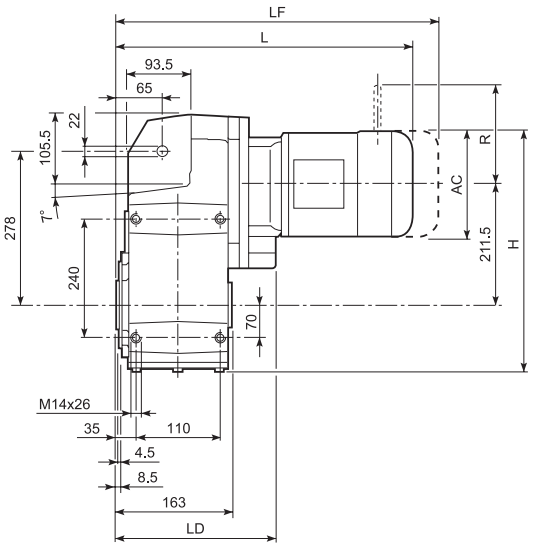
F 41...F...

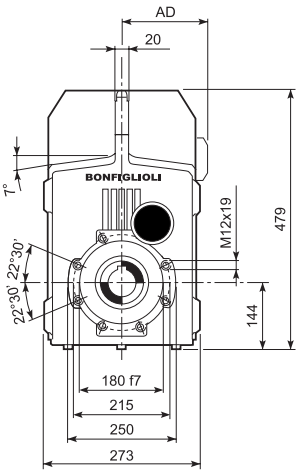




* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox.

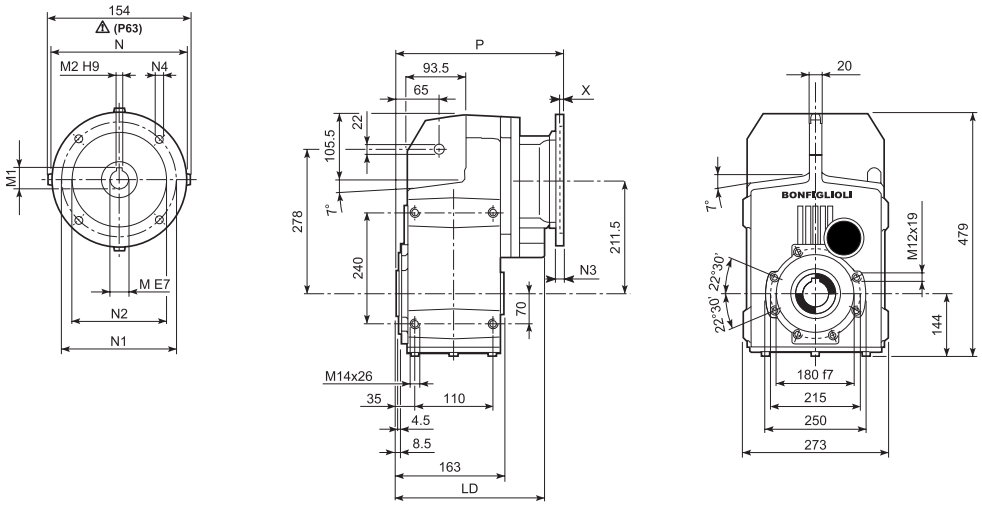
F 51...M/ME/MX/MXN





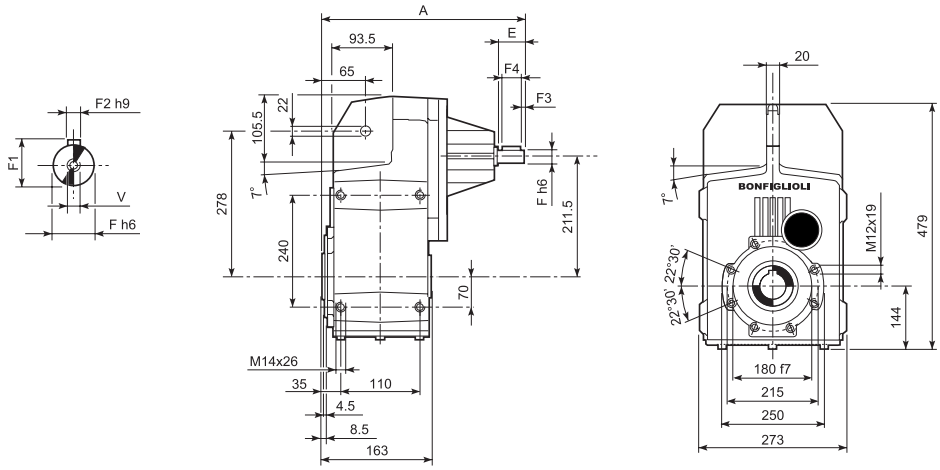
										M...FD M...FA		M...FD		M...FA	
				AC	H	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
F 51 2/3	**S1**	**M1**		138	424	423	—	108	73	484	76	103	135	124	108
F 51 2/3	**S1**	**ME1**		138	424	423	—	108	73	484	75	103	135	124	135
F 51 2/3	**S2**	**ME2S**		156	433	452	238	119	73	522	78.8	129	143	124	143
F 51 2/3	**S2**	**MX2S**		156	433	496	238	119	78	568	86	129	143	124	143
F 51 2/3	**S3**	**ME3S**		195	452.5	495	253	142	77	591	88.1	160	155	160	155
F 51 2/3	**S3**	**MX3S**		195	452.5	527	253	142	80	617	93.1	160	155	160	155
F 51 2/3	**S3**	**ME3L**		195	452.5	527	253	142	87	618	94.6	160	155	160	155
F 51 2/3	**S3**	**MX3L**		195	452.5	571	253	142	93	663	102.1	160	155	160	155
F 51 2/3	**S4**	**ME4**	**MX4**	258	484	635	238	193	119	744	132.1	204	210	200	210
F 51 2/3	**S4**	**ME4LB**	**MX4LA**	258	484	670	238	193	127	768	146.1	226	210	217	210
F 51 2/3	**S5**	**ME5S**	**MX5S**	310	510	721.5	—	245	153	861.5	206.1	266	245	247	245
F 51 2/3	**S5**	**ME5L**	**MX5L**	310	510	765.5	—	245	169	899.5	217.1	266	245	247	245
F 51 4	**S1**	**M1**		138	424	494.5	—	108	75	555.5	78	103	135	124	108
F 51 4	**S1**	**ME1**		138	424	494.5	—	108	75	555.5	77	103	135	124	135
F 51 4	**S10**	**MXN10**		138	424	523.5	—	137	77.4	582.5	79.8	103	138	121	138
F 51 4	**S2**	**ME2S**		156	433	523.5	—	119	79	593.5	80.8	129	143	124	143
F 51 4	**S2**	**MX2S**		156	433	567.5	—	119	79	639.5	88	129	143	124	143
F 51 4	**S3**	**ME3S**		195	452.5	566.5	—	142	84	662.5	90.1	160	155	160	155
F 51 4	**S3**	**MX3S**		195	452.5	598.5	—	142	84	688.5	95.1	160	155	160	155
F 51 4	**S3**	**ME3L**		195	452.5	598.5	—	142	93	689.5	96.6	160	155	160	155
F 51 4	**S3**	**MX3L**		195	452.5	642.5	—	142	93	734.5	104.1	160	155	160	155

F 51...P(IEC)



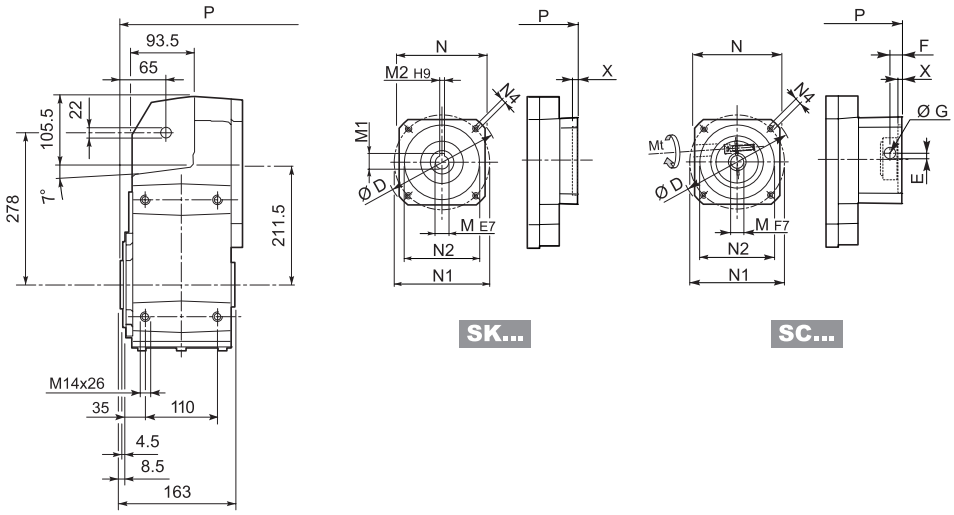
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 51 2/3	**P63**	238	11	12.8	4	140	115	95	—	M8x19	4	268	65
F 51 2/3	**P71**	238	14	16.3	5	160	130	110	—	M8x16	4.5	268	65
F 51 2/3	**P80**	253	19	21.8	6	200	165	130	—	M10x14.5	4	287.5	67
F 51 2/3	**P90**	253	24	27.3	8	200	165	130	—	M10x14.5	4	287.5	67
F 51 2/3	**P100**	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	Kg
F 51 2		357.5	50	24	27	8	2.5	45	M8x19	65
F 51 3	**HS**	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

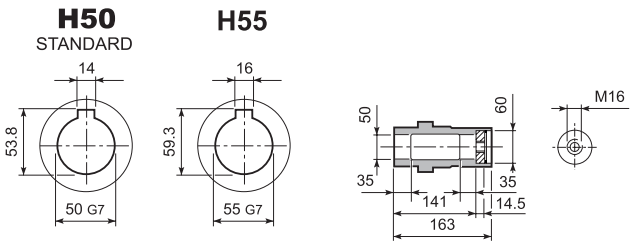


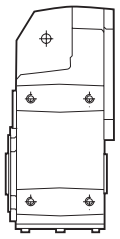
											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg	P	Kg
F 51 2/3	SK 80B	120	14	16.3	5	96	100	80	M6x12	4	287.5	67	—	—
F 51 2/3/4	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	287.5	67	359	71
F 51 2/3/4	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	287.5	67	359	71
F 51 2/3/4	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	287.5	67	359	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	—	—

														2/3x		4x	
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg	P	Kg
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	—	—

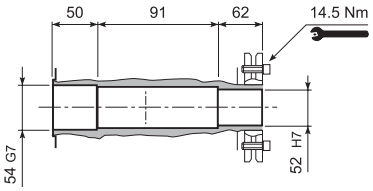
F 51

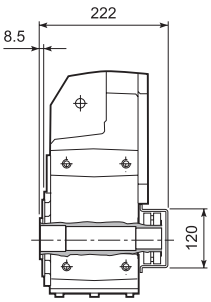
F 51...H



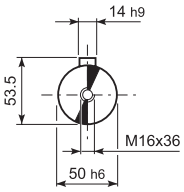


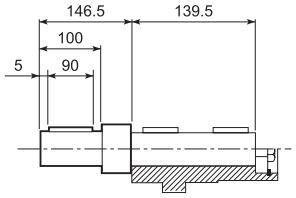
F 51...S

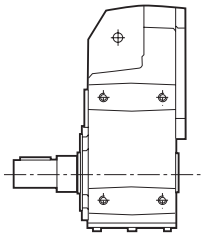




F 51...R



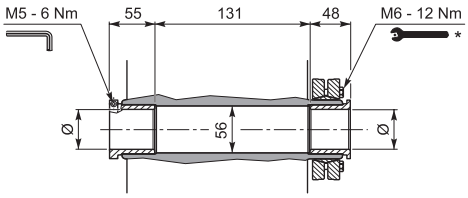


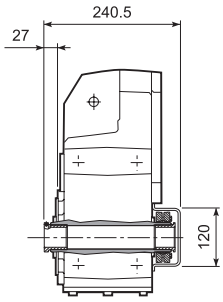


F 51...QF

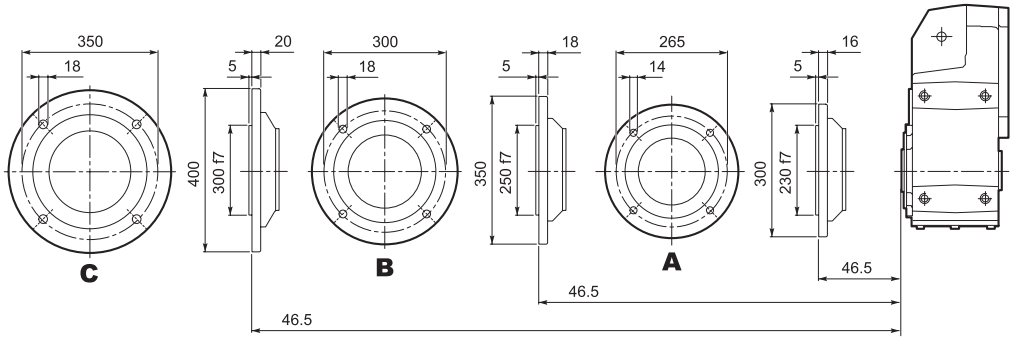
	Ø
QF50	50
QF55	55

$M_{n2\ max}$ [Nm]	
F 51 QF50	1750



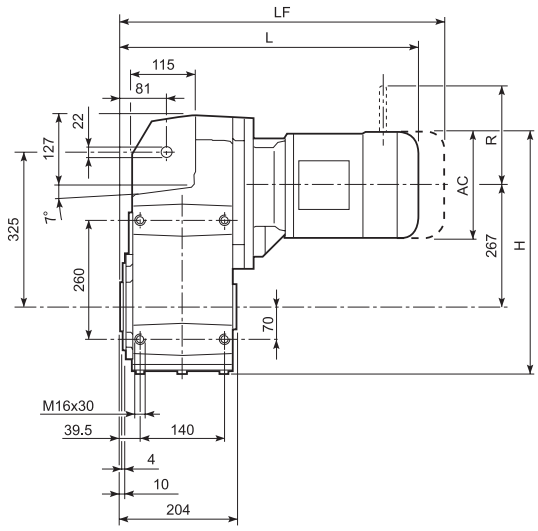


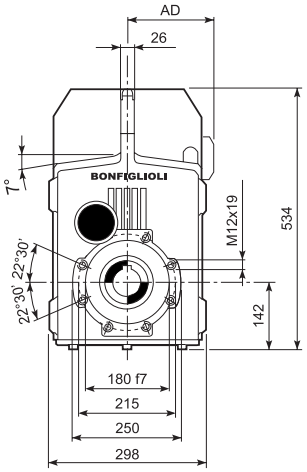
F 51...F...



* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox.

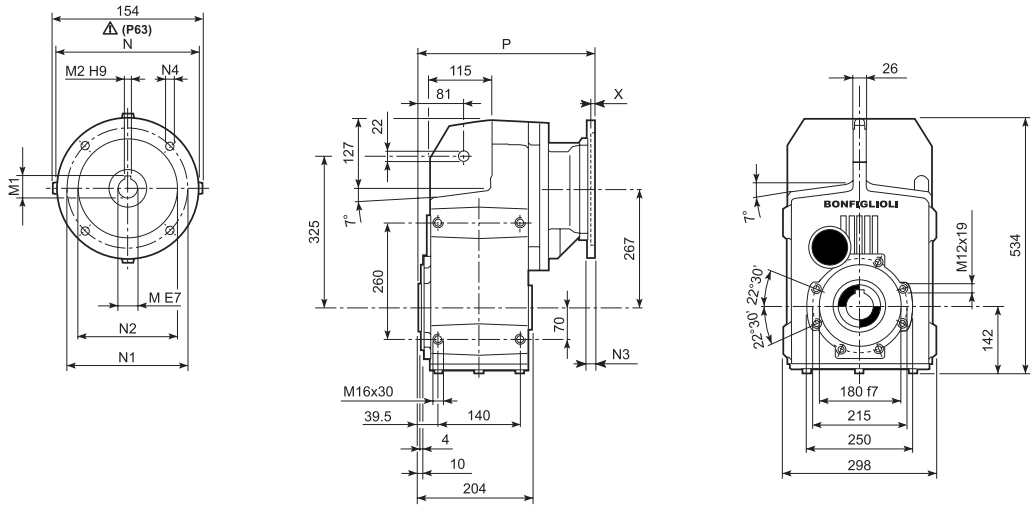
F 60...M/ME/MX





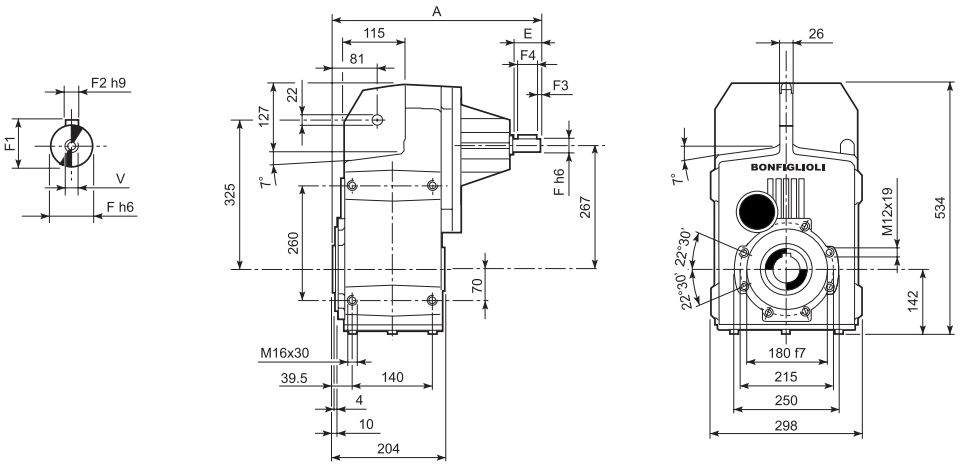
									M...FD M...FA		M...FD		M...FA	
				AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 60 3	**S2**	**ME2S**		156	487	486.5	119	114	556.5	116.1	129	143	134	143
F 60 3	**S2**	**MX2S**		156	487	530.5	119	119	602.5	123.3	129	143	134	143
F 60 3	**S3**	**ME3S**		195	506.5	529.5	142	119	625.5	125.4	160	155	160	155
F 60 3	**S3**	**MX3S**		195	506.5	561.5	142	122	639.5	130.4	160	155	160	155
F 60 3	**S3**	**ME3L**		195	506.5	561.5	142	124	652.5	131.9	160	155	160	155
F 60 3	**S3**	**MX3L**		195	506.5	605.5	142	130	681.5	139.4	160	155	160	155
F 60 3	**S4**	**ME4**	**MX4**	258	538	669.5	193	156	754.5	169.4	204	210	200	210
F 60 3	**S4**	**ME4LB**	**MX4LA**	258	538	704.5	193	164	779.5	183.4	226	210	217	210
F 60 3	**S5**	**ME5S**	**MX5S**	310	564	756	245	184	842.5	243.4	266	245	247	245
F 60 3	**S5**	**ME5L**	**MX5L**	310	564	800	245	200	886.5	254.4	266	245	247	245
F 60 4	**S1**	**M1**		138	478	528	108	113	589	116	103	135	124	108
F 60 4	**S1**	**ME1**		138	478	528	108	113	589	116	103	135	124	135
F 60 4	**S2**	**ME2S**		156	487	557	119	117	627	118.8	129	143	134	143
F 60 4	**S2**	**MX2S**		156	487	601	119	122	659	126	129	143	134	143
F 60 4	**S3**	**ME3S**		195	506.5	600	142	122	696	128.1	160	155	160	155
F 60 4	**S3**	**MX3S**		195	506.5	632	142	125	696	133.1	160	155	160	155
F 60 4	**S3**	**ME3L**		195	506.5	632	142	131	723	134.6	160	155	160	155
F 60 4	**S3**	**MX3L**		195	506.5	676	142	137	738	142.1	160	155	160	155
F 60 4	**S4**	**ME4**	**MX4**	258	538	740	193	156	811	172.1	204	210	200	210
F 60 4	**S4**	**ME4LB**	**MX4LA**	258	538	775	193	164	836	186.1	226	210	217	210

F 60...P(IEC)



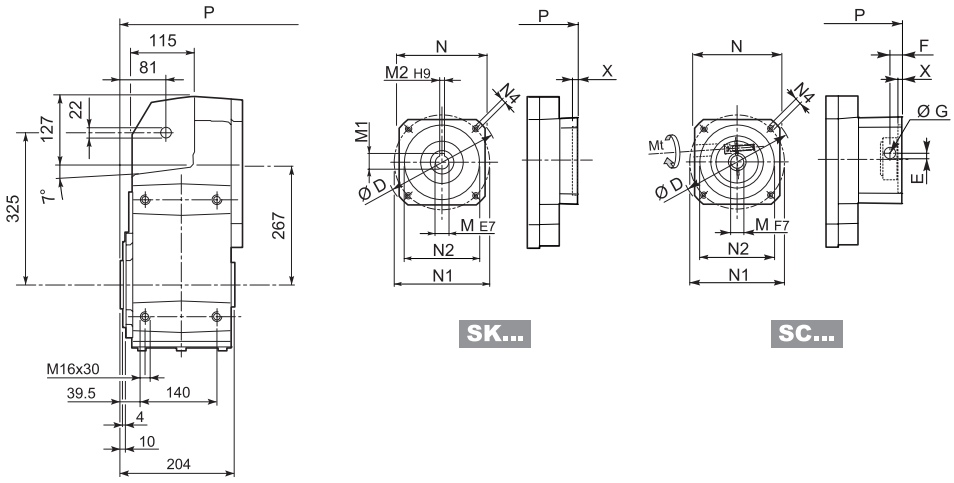
		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 60 3	**P63**	11	12.8	4	140	115	95	—	M8x19	4	302.5	103
F 60 3	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	302.5	103
F 60 3	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	322	104
F 60 3	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	322	104
F 60 3	**P100**	28	31.3	8	250	215	180	—	M12x16	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	Kg
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

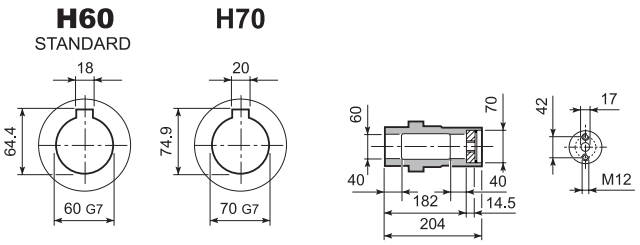


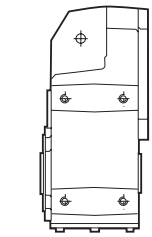
											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg	P	Kg
F 60 4	**SK 80B**	120	14	16.3	5	96	100	80	M6x12	4	—	—	392.5	109
F 60 3/4	**SK 80C**	120	19	21.8	6	96	100	80	M6x12	4	322	106	392.5	112
F 60 3/4	**SK 95A**	130	14	16.3	5	102	115	95	M8x12	4	322	106	392.5	112
F 60 3/4	**SK 95B**	130	19	21.8	6	102	115	95	M8x12	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	—	—

														2/3x		4x	
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg	P	Kg
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	—	—

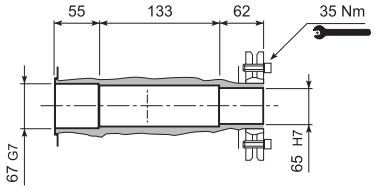
F 60

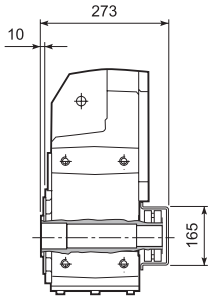
F 60...H



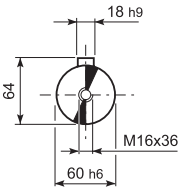


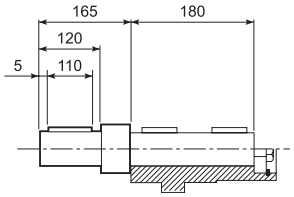
F 60...S

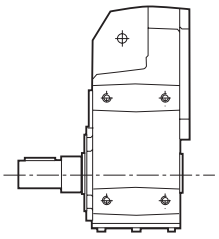




F 60...R

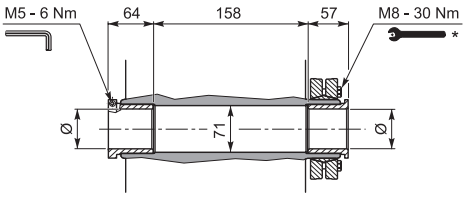


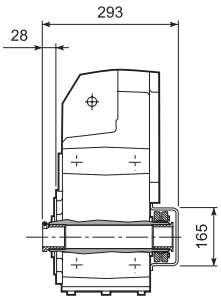




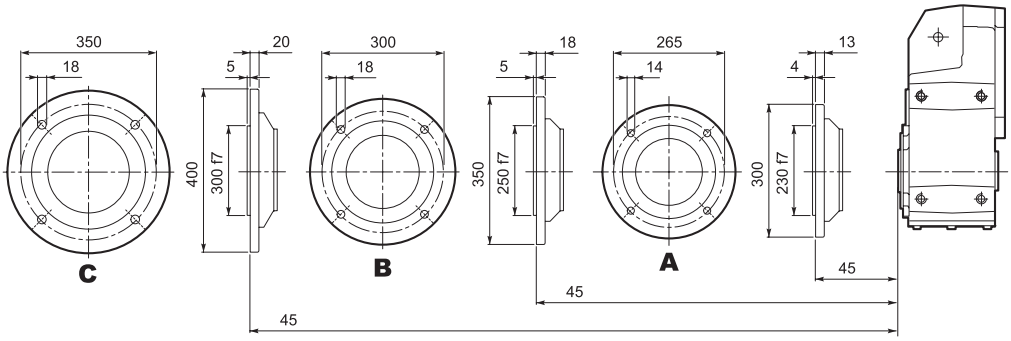
F 60...QF

	Ø
QF60	60
QF65	65
QF70	70



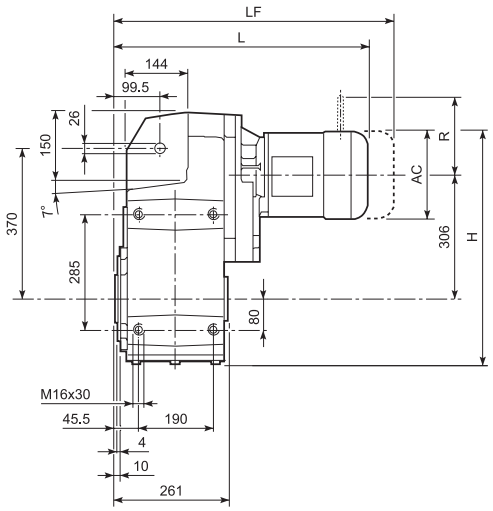


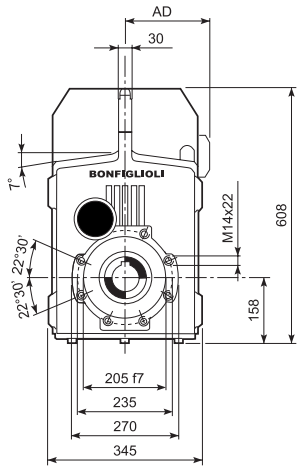
F 60...F...



* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox.

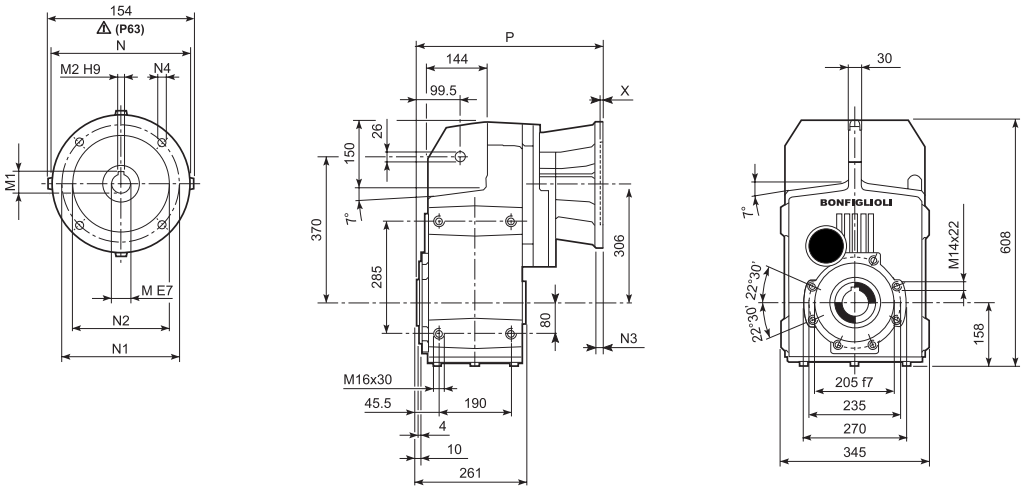
F 70...M/ME/MX





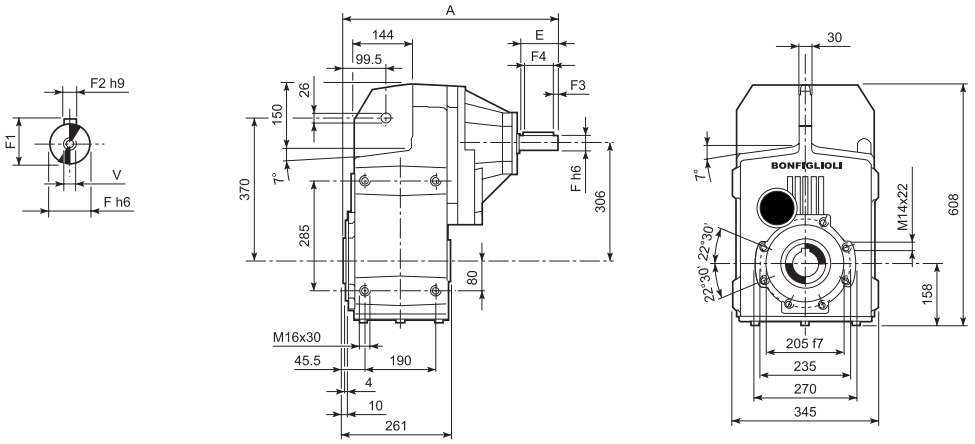
									M...FD M...FA		M...FD		M...FA	
				AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 70 3	**S2**	**ME2S**		156	542	552	119	173	622	175.1	129	143	134	143
F 70 3	**S2**	**MX2S**		156	542	596	119	178	668	182.3	129	143	134	143
F 70 3	**S3**	**ME3S**		195	561.5	595	142	178	691	184.4	160	155	160	155
F 70 3	**S3**	**MX3S**		195	561.5	627	142	181	717	189.4	160	155	160	155
F 70 3	**S3**	**ME3L**		195	561.5	627	142	188	718	190.9	160	155	160	155
F 70 3	**S3**	**MX3L**		195	561.5	671	142	194	763	198.4	160	155	160	155
F 70 3	**S4**	**ME4**	**MX4**	258	593	735	193	220	844	228.4	204	210	200	210
F 70 3	**S4**	**ME4LB**	**MX4LA**	258	593	770	193	228	868	242.4	226	210	217	210
F 70 3	**S5**	**ME5S**	**MX5S**	310	619	821.5	245	248	961.5	302.4	266	245	247	245
F 70 3	**S5**	**ME5L**	**MX5L**	310	619	865.5	245	264	999.5	313.4	226	245	247	245
F 70 4	**S1**	**M1**		138	533	574	108	173	635	176	103	135	124	108
F 70 4	**S1**	**ME1**		138	533	574	108	173	635	176	103	135	124	135
F 70 4	**S2**	**ME2S**		156	542	603	119	177	673	179.1	129	143	134	143
F 70 4	**S2**	**MX2S**		156	542	647	119	182	719	186.3	129	143	134	143
F 70 4	**S3**	**ME3S**		195	561.5	646	142	181	742	188.4	160	155	160	155
F 70 4	**S3**	**MX3S**		195	561.5	678	142	184	768	193.4	160	155	160	155
F 70 4	**S3**	**ME3L**		195	561.5	678	142	191	769	194.9	160	155	160	155
F 70 4	**S3**	**MX3L**		195	561.5	722	142	197	814	202.4	160	155	160	155
F 70 4	**S4**	**ME4**	**MX4**	258	593	786	193	223	895	232.4	204	210	200	210
F 70 4	**S4**	**ME4LB**	**MX4LA**	258	593	821	193	231	919	246.4	226	210	217	210

F 70...P(IEC)



		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
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

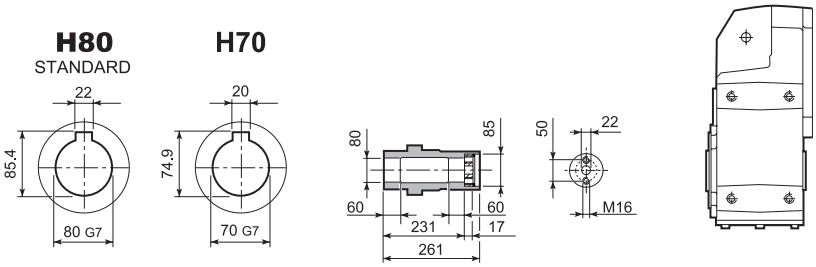
F 70...HS



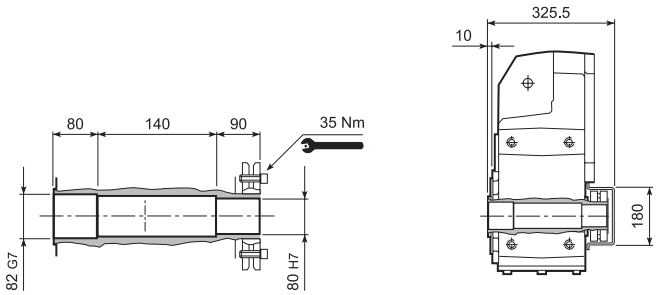
		A	E	F	F1	F2	F3	F4	V	Kg
F 70 3	**HS**	572	110	42	45	12	10	90	M12x28	186
F 70 4		508.5	50	24	27	8	2.5	45	M8x19	174

F 70

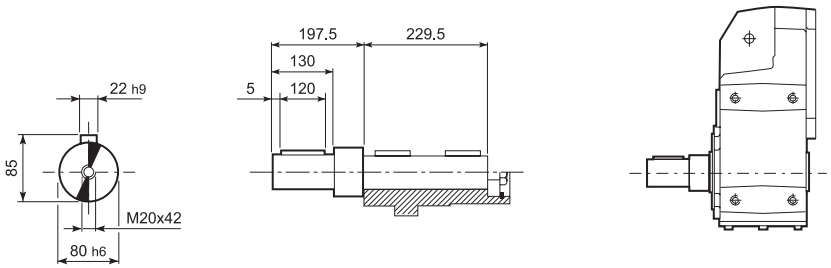
F 70...H



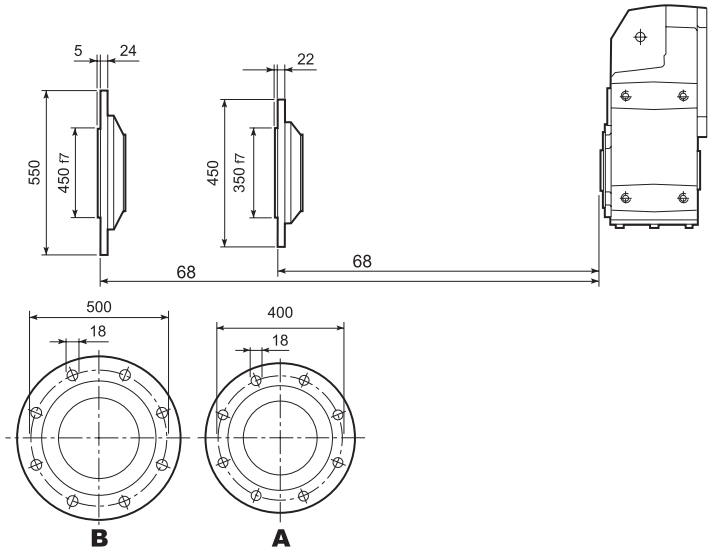
F 70...S



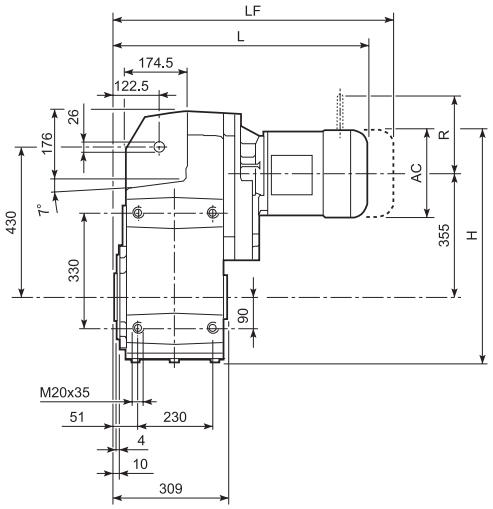
F 70...R

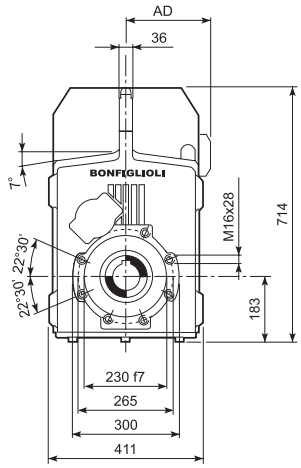


F 70...F...



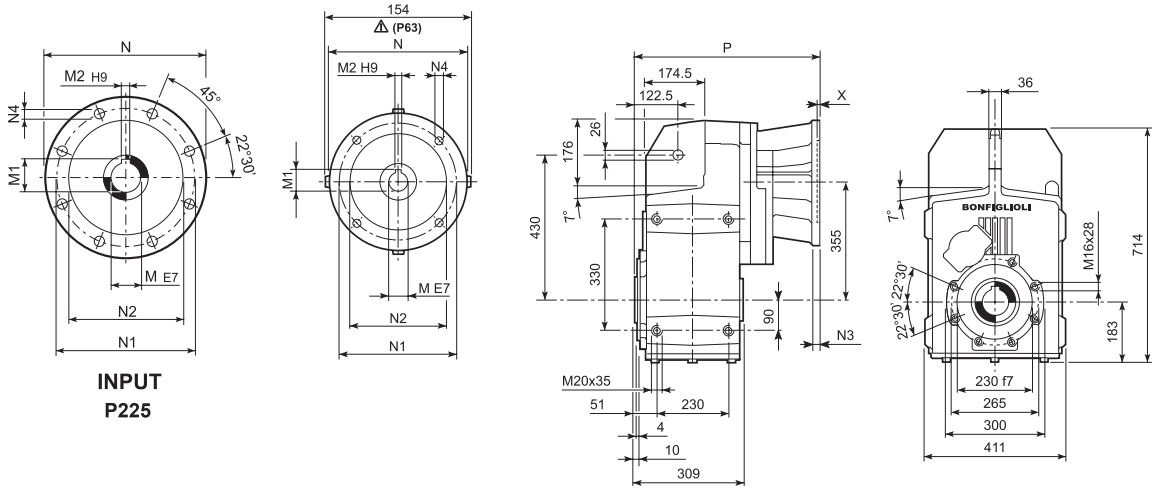
F 80...M/ME/MX





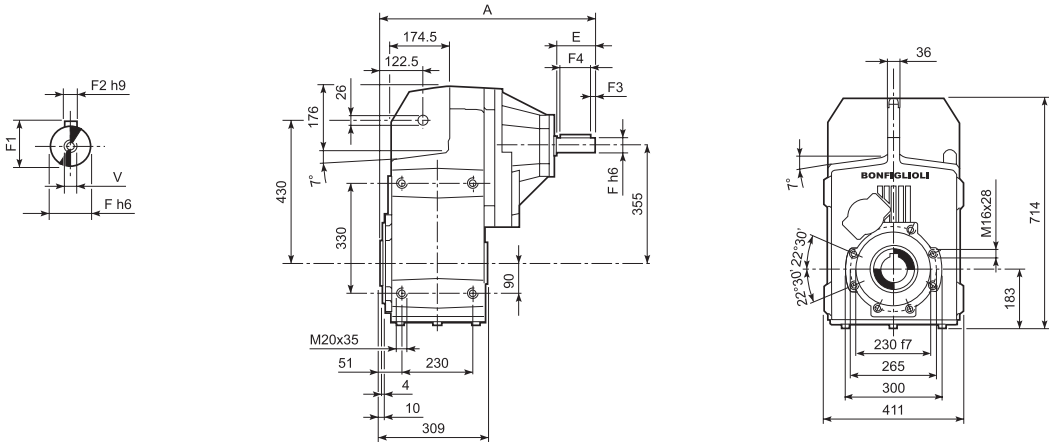
									M...FD M...FA		M...FD		M...FA	
				AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 80 3	S3	ME3S		195	635.5	653	142	266	749	272.5	160	155	160	155
F 80 3	S3	MX3S		195	635.5	685	142	269	775	277.5	160	155	160	155
F 80 3	S3	ME3L		195	635.5	685	142	275	776	279	160	155	160	155
F 80 3	S3	MX3L		195	635.5	729	142	281	821	286.5	160	155	160	155
F 80 3	S4	ME4	MX4	258	667	793	193	307	902	316.5	204	210	200	210
F 80 3	S4	ME4LB	MX4LA	258	667	828	193	315	926	330.5	226	210	217	210
F 80 3	S5	ME5S	MX5S	310	693	879.5	245	335	1019.5	390.5	266	245	247	245
F 80 3	S5	ME5L	MX5L	310	693	923.5	245	351	1057.5	401.5	266	245	247	245
F 80 4	S1	M1		138	607	644	108	262	705	265	103	135	124	108
F 80 4	S1	ME1		138	607	644	108	262	705	265	103	135	124	135
F 80 4	S2	ME2S		156	616	673	119	266	743	263.2	129	143	134	143
F 80 4	S2	MX2S		156	616	717	119	271	789	270.4	129	143	134	143
F 80 4	S3	ME3S		195	635.5	716	142	271	812	272.5	160	155	160	155
F 80 4	S3	MX3S		195	635.5	748	142	274	838	277.5	160	155	160	155
F 80 4	S3	ME3L		195	635.5	748	142	280	839	279	160	155	160	155
F 80 4	S3	MX3L		195	635.5	792	142	286	884	286.5	160	155	160	155
F 80 4	S4	ME4	MX4	258	667	856	193	312	965	316.5	204	210	200	210
F 80 4	S4	ME4LB	MX4LA	258	667	891	193	320	989	330.5	226	210	217	210

F 80...P(IEC)



		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
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

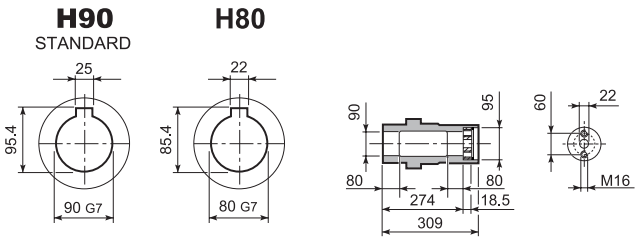
F 80...HS

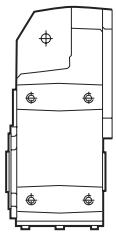


		A	E	F	F1	F2	F3	F4	V	Kg
F 80 3	**HS**	630	110	42	45	12	10	90	M12x28	273
F 80 4		575.5	50	24	27	8	2.5	45	M8x19	263

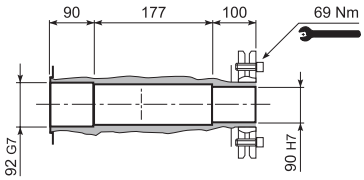
F 80

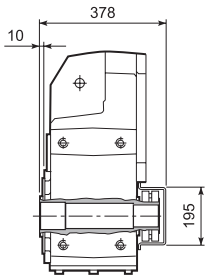
F 80...H



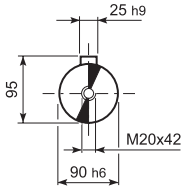


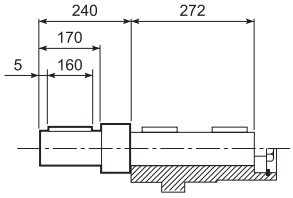
F 80...S

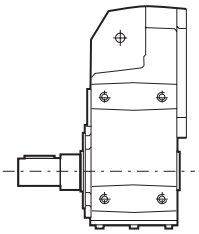




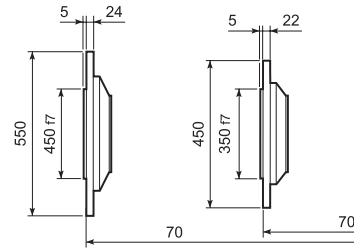
F 80...R

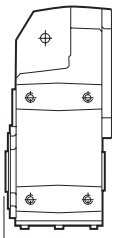


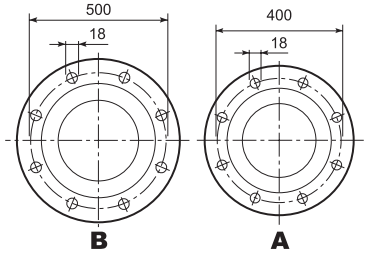




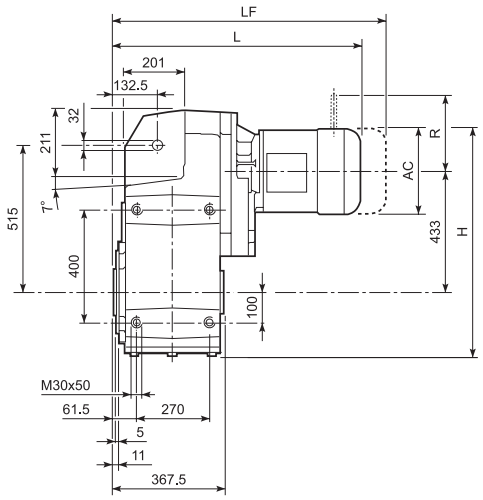
F 80...F...

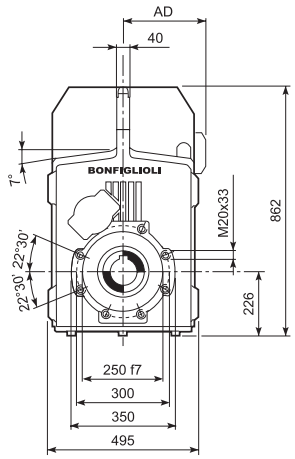






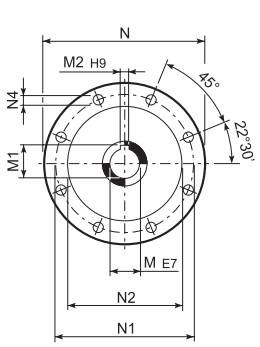
F 90...M/ME/MX



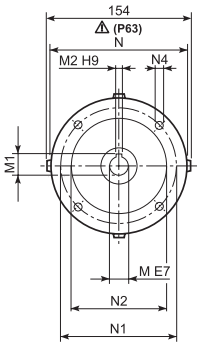


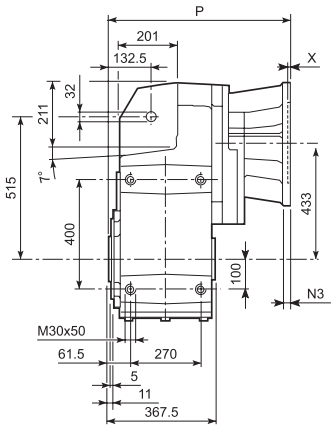
									M...FD M...FA		M...FD		M...FA	
				AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 90 3	**S3**	**ME3S**		195	756	728	142	453	824	459.5	160	155	160	155
F 90 3	**S3**	**MX3S**		195	756	760	142	456	850	464.5	160	155	160	155
F 90 3	**S3**	**ME3L**		195	756	760	142	462	851	466	160	155	160	155
F 90 3	**S3**	**MX3L**		195	756	804	142	468	896	473.5	160	155	160	155
F 90 3	**S4**	**ME4**	**MX4**	258	787.5	868	193	494	977	503.5	204	210	200	210
F 90 3	**S4**	**ME4LB**	**MX4LA**	258	787.5	894	193	504	992	517.5	226	210	217	210
F 90 3	**S5**	**ME5S**	**MX5S**	310	813.5	998.5	245	538	1138.5	577.5	266	245	247	245
F 90 3	**S5**	**ME5L**	**MX5L**	310	813.5	998.5	245	549	1132.5	588.5	266	245	247	245
F 90 4	**S2**	**ME2S**		156	736.5	768	119	456	838	457.2	129	143	134	143
F 90 4	**S2**	**MX2S**		156	736.5	812	119	461	884	464.4	129	143	134	143
F 90 4	**S3**	**ME3S**		195	756	811	142	460	907	466.5	160	155	160	155
F 90 4	**S3**	**MX3S**		195	756	843	142	463	933	471.5	160	155	160	155
F 90 4	**S3**	**ME3L**		195	756	843	142	470	934	473	160	155	160	155
F 90 4	**S3**	**MX3L**		195	756	887	142	476	979	480.5	160	155	160	155
F 90 4	**S4**	**ME4**	**MX4**	258	787.5	951	193	502	1060	510.5	204	210	200	210
F 90 4	**S4**	**ME4LB**	**MX4LA**	258	787.5	986	193	510	1084	524.5	226	210	217	210

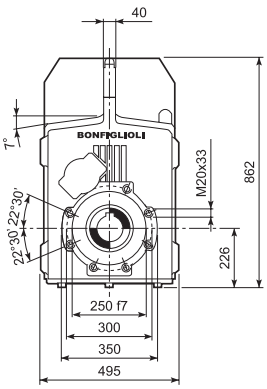
F 90...P(IEC)



INPUT
P225...P250

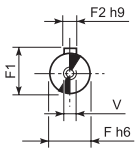


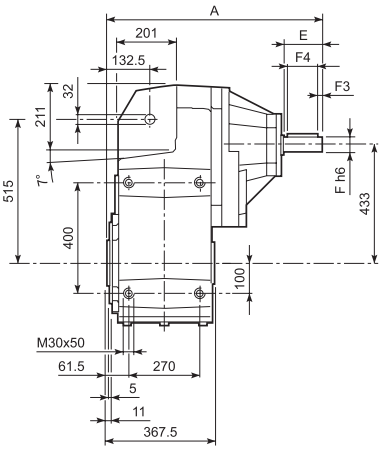


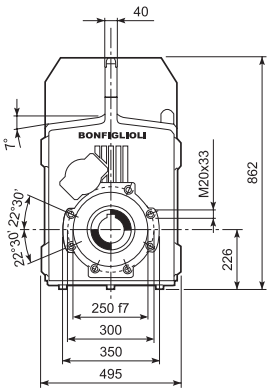


		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 90 3	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	520.5	442
F 90 3	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	520.5	442
F 90 3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	530.5	446
F 90 3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	530.5	446
F 90 3	**P132**	38	41.3	10	300	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



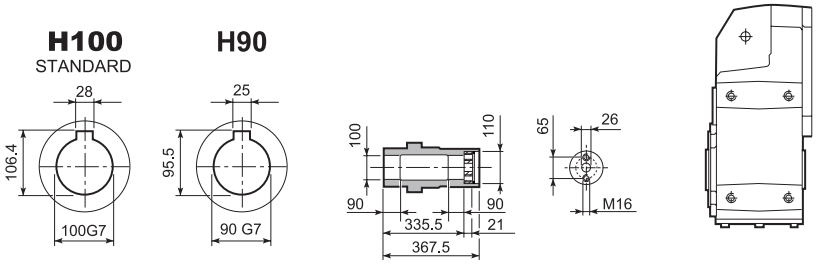




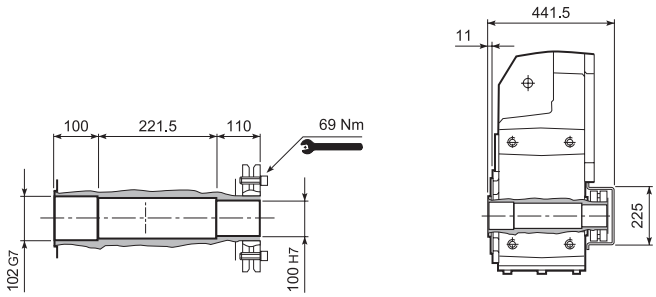
		A	E	F	F1	F2	F3	F4	V	Kg
F 90 3	**HS**	806.5	140	60	64	18	10	120	M16x36	485
F 90 4		673.5	50	24	27	8	2.5	45	M8x19	452

F 90

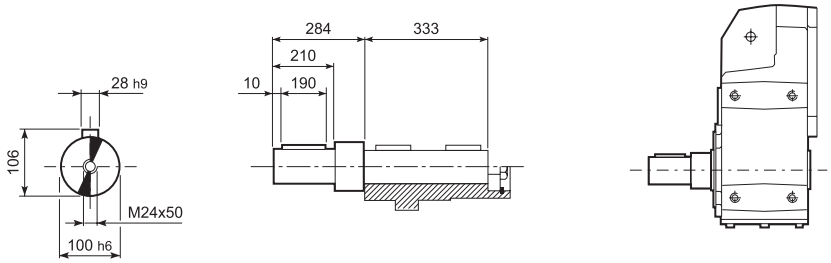
F 90...H



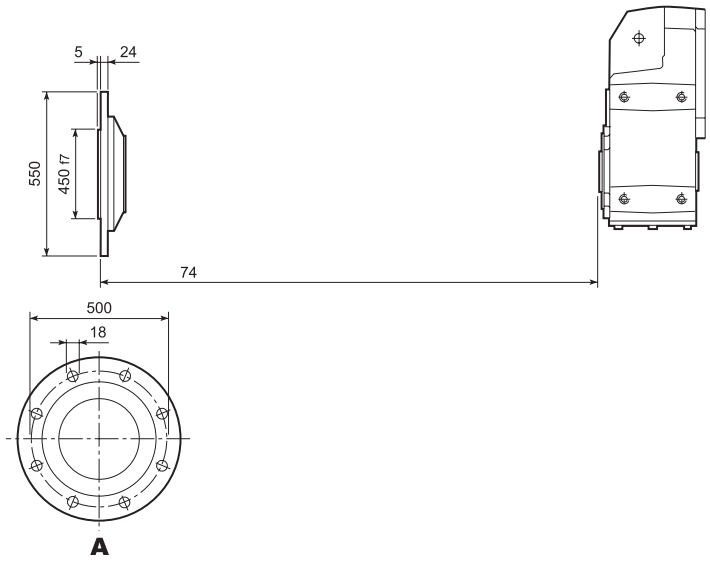
F 90...S



F 90...R



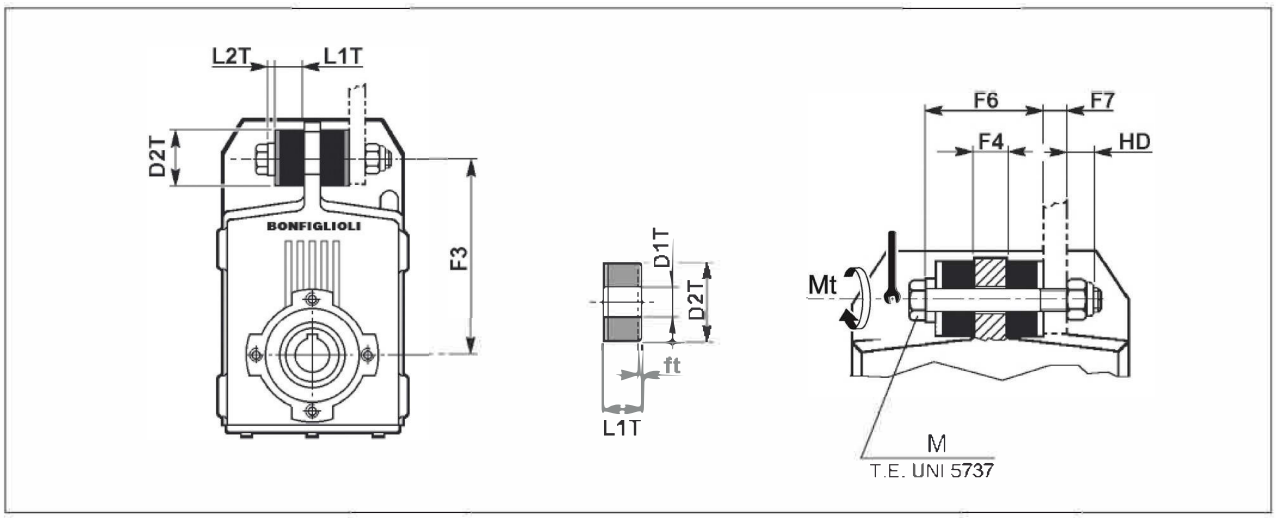
F 90...F...



66 ACCESSORIES

Anti-vibration kit

The gearboxes of the F series are supplied with an anti-vibration kit at customer request.
The kit includes all components required for shaft mounting (torque arm is out of scope). Dimensions are shown in the following table.



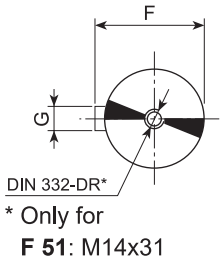
	F3	F4	F6	F7 (max.)	HD	L1T	L2T	D1T	D2T	M	Mt [Nm]	ft
F 10	140	20	55	10	12.3	15	5	11	30	M10x80	10	1.5
F 20	160	20	55	10	12.3	15	5	11	30	M10x80	10	1.5
F 25	162	20	65	20	14.8	20	5	12.5	40	M12x100	20	1.5
F 31	170	20	65	20	14.8	20	5	12.5	40	M12x100	20	1.5
F 41	218	16	61	24	14.8	20	5	12.5	40	M12x100	20	2.3
F 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

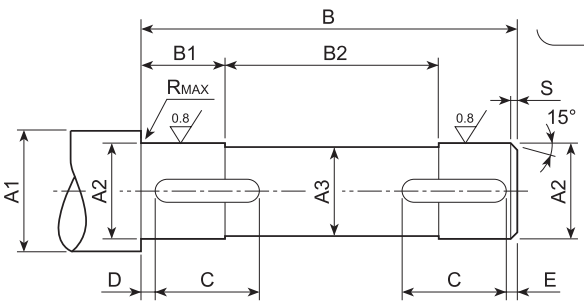
f_t = shortening of the rubber buffer under rated torque transmission.

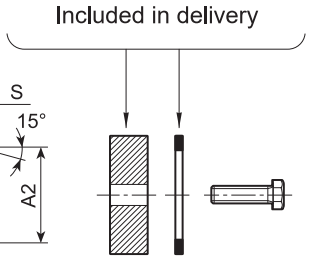
67 CUSTOMER' SHAFT

Make the driven shaft to be coupled to the gear unit's output shaft from a good quality steel, respecting the dimensions given in the table.

A device such as that illustrated below should also be installed to secure the shaft axially. Take care to verify and dimension the various components to suit the needs of the application.

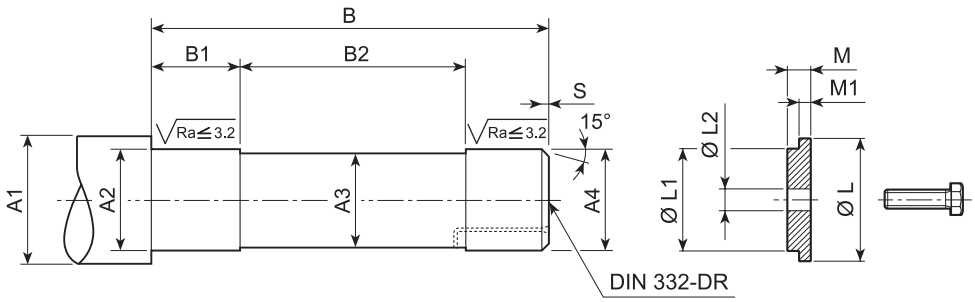






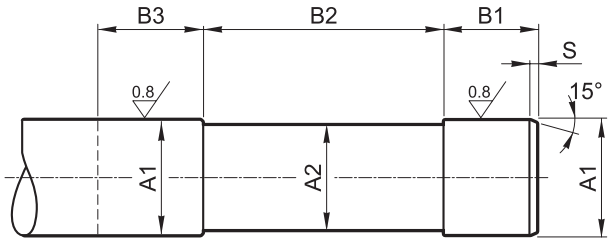
	A1	A2	A3	B	B1	B2	C	D	E	F	G	R	S	UNI 6604	UNI 5739
F 10	≥ 35	30 h7	29	87.5	15.5	56.5	20	2	2	33	8 h9	0.5	1.5	8x7x20 A	M8x25
	≥ 30	25 h7	24	87.5	15.5	56.5	20	2	2	28	8 h9	0.5	1.5	8x7x20 A	
F 20	≥ 42	35 h7	34	99	18	63	22	2	2	38	10 h9	0.5	1.5	10x8x22 A	M8x30
	≥ 35	30 h7	29	99	18	63	22	2	2	33	8 h9	0.5	1.5	8x7x22 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
	v 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				