

**24 - DISPOSITIVO ANTIRETRO    24 - ANTI-RUN BACK DEVICE    24 - RÜCKLAUFSPERRE    24 - DISPOSITIF ANTIRETOUR**

A richiesta si può fornire il riduttore /motoriduttore munito di dispositivo antiretro che permette la rotazione dell'albero lento solo nel senso desiderato (opzione AL-AR).

La tabella (B14) indica i riduttori nei quali è possibile applicare il dispositivo antiretro.

In fase d'ordine specificare il senso di rotazione mediante le opzioni AL o AR (tabella B15) nella designazione riduttore o in quella del motore.

Se non specificato, il riduttore viene fornito con il senso di rotazione AR.

*An anti-run back device is available upon request to allow rotation of the output shaft in one direction only (option AL-AR).*

*Table B14 shows the gear-boxes in which the anti-run back device can be installed.*

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

*Unless otherwise specified, the AR direction of rotation is arranged at the factory as the backstop default setting.*

Die Getriebe können mit einer Rücklaufsperrung geliefert werden, um die Drehung der Abtriebswelle in einer Richtung zu ermöglichen (Option AL-AR).

Auf der Tabelle B14 sind die Getriebe angegeben, mit denen die Rücklaufsperrung verwendet werden kann.

Bei Bestellung bitte die gewünschte Drehrichtung durch die Option AL oder AR (Tabelle B15) in den Getriebe oder Motorbezeichnung angeben. Wenn nicht angegeben, wird das Getriebe mit Drehrichtung AR geliefert.

*Sur demande le réducteur/motoréducteur peut être fourni avec le dispositif anti-retour en permettant la rotation de l'arbre lent seulement dans un sens (option AL-AR).*

*Le tableau B14 indique les réducteurs dans les quels on peut appliquer le dispositif anti-retour.*

*A la commande on (tab. B15) doit préciser le sens de rotation en indiquant les options AL ou AR dans la désignation du réducteur ou du moteur. En cas contraire le réducteur sera livré avec sens de rotations AR.*

(B14)

F 10 2	F 20 2 F 20 3	F 30 2 F 30 3 F 30 4	F 40 2 F 40 3 F 40 4	F 50 2	F 50 3 F 50 4	F 60 3 F 60 4	F 70 3 F 70 4	F 80 3 F 80 4	F 90 3 F 90 4
•	•	•	•	•					

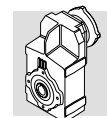
• Applicazione antiretro possibile solo sul motore integrato / *Anti-run back device can be fitted to compact motor only*  
Die Rücklaufsperrung kann nur am integrierten Motor angebracht werden / *Application du dispositif anti-retour possible uniquement sur le moteur intégré*

■ Applicazione antiretro possibile sia sul riduttore che sul motoriduttore integrato / *Anti run-back application is possible on integrated motor only*  
Das Anbringen der Rücklaufsperrung ist nur bei integriertem Motor möglich / *Application anti-retour possible exclusivement sur moteur intégré.*

(B15)

**F 10 2 - F 20 2 - F 30 2 - F 40 2 - F 50 2**  
**F 30 4 - F 40 4 - F 50 4 - F 60 4**  
**F 70 4 - F 80 4 - F 90 4**

**F 20 3 - F 30 3 - F 40 3 - F 50 3 - F 60 3**  
**F 70 3 - F 80 3 - F 90 3**



25 - OPZIONI E ALTERNATIVE

25 - OPTIONS AND SPECIAL VERSIONS

25 - OPTIONALS UND ALTERNATIVLÖSUNGEN

25 - OPTIONS ET VARIANTES

**Spianatura laterale (Opzione FL)**

A richiesta si può fornire il riduttore/motore con i piani laterali spianati e forati per consentire il fissaggio (opzione FL). La tabella (B16) riporta le dimensioni dei fori e i relativi interassi (Sui riduttori F 70, F 80 e F 90 spianature e forature sono di serie).

**Side flats (FL Option)**

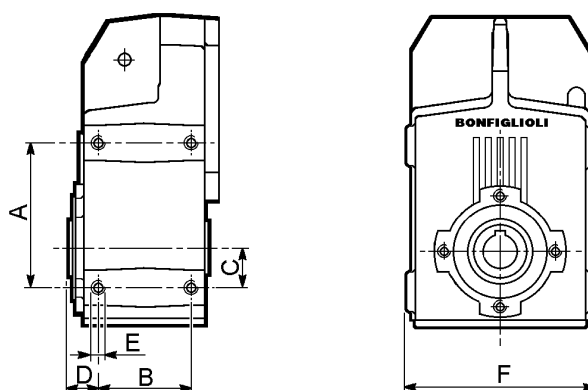
*F gear units can be side machined and tapped by specifying the FL option. Mounting dimensions relevant to the FL option are given in the chart (B16) here after. Gear units type F 70, F 80 and F 90 are side machined and tapped as standard.*

**Seitlicher planschnitt (Option FL)**

Auf Anfrage kann das Getriebe bzw. der Getriebemotor mit seitlichen Flächen geliefert werden, die einem Planschnitt unterzogen wurden und mit Bohrungen ausgestattet sind, die eine entsprechende Befestigung ermöglichen (Option FL). In der Tabelle (B16) werden die Bohrungsgrößen und die betreffenden Achsstände angegeben (An den Getrieben F 70, F 80 und F 90 gehören die Verstärkungen und die Bohrungen zur Serienausstattung).

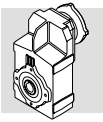
**Surfacage lateral (Option FL)**

*Sur demande on peut recevoir le réducteur/motoreducteur avec ses faces latérales surfacées et percées pour en permettre l'assemblage (option FL). Le tableau (B16) comporte les dimensions des trous et les entraxes correspondants (Les percements et les planages sont standard sur les réducteurs F 70, F 80 et F 90).*



(B16)

	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 30	147	80	45	30	M12x20	193
F 40	190	95	60	32.5	M12x22	223
F 50	240	110	70	35	M14x26	273
F 60	260	140	70	39.5	M16x30	298



**Albero lento alternativo**

**Optional output shaft bore**

**Alternative Hohlwelle**

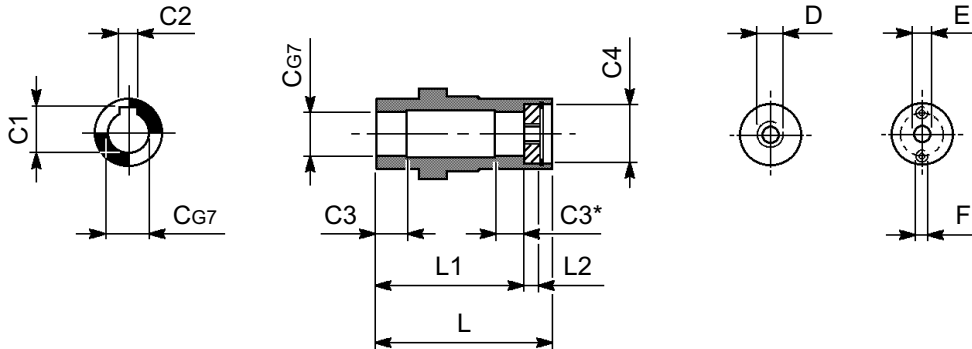
**Arbre de sortie alternatif**

L'albero lento cavo di tutti i riduttori serie F può essere fornito con un diametro alternativo allo standard le cui dimensioni sono riportate nella tabella (B17).

As an option, all gear units of the F series offer an alternative bore for the hollow output shaft. Relevant dimensions are listed in the chart (B17) here after.

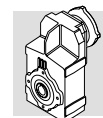
Die Antriebshohlwelle alle Untersetzungsgetriebe der Serie F kann auch mit einem alternativen Durchmesser, dessen Maße in der Tabelle (B14) angegeben sind, geliefert werden.



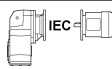

L'arbre de sortie creux de tous les réducteurs série F peut être livré avec un diamètre différent du standard, dont les dimensions sont reprises dans le tableau (B17).



(B17)

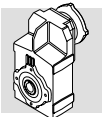
	C	C1	C2	C3	C4	L	L1	L2	D	E	F
<b>F 10</b>	30	33.3	8	18/15*	38	100.5	88.5	6	M10	—	—
<b>F 20</b>	35	38.3	10	20	42	120	101	10.3	M10	—	—
<b>F 30</b>	40	43.3	12	30	42	125	106	10.5	M10	—	—
<b>F 40</b>	45	48.8	14	30	50	144	120.5	12.5	M12	—	—
<b>F 50</b>	55	59.3	16	35	60	163	141	14.5	M16	—	—
<b>F 60</b>	70	74.9	20	40	70	204	182	14.5	—	17	M12
<b>F 70</b>	70	74.9	20	60	85	261	231	17	—	22	M16
<b>F 80</b>	80	85.4	22	80	95	309	274	18.5	—	22	M16
<b>F 90</b>	90	95.5	25	90	110	367.5	335.5	21	—	26	M16

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

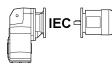

$n_2$ min <sup>-1</sup>	$M_2$ Nm	S	i	$R_{n2}$ N				
0.40	1945	2.6	2188	35000			F704_2188 P63 BN63A6	108
0.50	1526	3.4	1717	35000			F704_1717 P63 BN63A6	108
0.61	1279	1.3	1439	12000			F504_1439 P63 BN63A6	100
0.75	1038	1.5	1168	12000			F504_1168 P63 BN63A6	100
0.90	873	1.1	982.4	8500	F404_982.4 S05 M05A6	95	F404_982.4 P63 BN63A6	96
0.90	870	1.8	979.4	12000			F504_979.4 P63 BN63A6	100
1.1	735	2.2	826.4	12000			F504_826.4 P63 BN63A6	100
1.1	723	1.3	813.8	8500	F404_813.8 S05 M05A6	95	F404_813.8 P63 BN63A6	96
1.3	613	1.5	690.1	8500	F404_690.1 S05 M05A6	95	F404_690.1 P63 BN63A6	96
1.3	601	2.7	676.3	12000			F504_676.3 P63 BN63A6	100
1.5	514	1.1	578.6	6500	F304_578.6 S05 M05A6	91	F304_578.6 P63 BN63A6	92
1.9	411	1.3	462.6	6500	F304_462.6 S05 M05A6	91	F304_462.6 P63 BN63A6	92
2.4	329	1.7	374.4	6500			F303_374.4 P63 BN63A6	92
3.1	258	2.1	293.8	6500			F303_293.8 P63 BN63A6	92
3.4	227	1.1	255.3	4000	F203_255.3 S05 M05A6	87	F203_255.3 P63 BN63A6	88
3.6	223	2.5	253.6	6500			F303_253.6 P63 BN63A6	92
4.2	186	1.3	209.3	4000	F203_209.3 S05 M05A6	87	F203_209.3 P63 BN63A6	88
5.1	153	1.6	172.6	4000	F203_172.6 S05 M05A6	87	F203_172.6 P63 BN63A6	88
6.9	119	2.1	132.2	4000	F202_132.2 S05 M05A6	87	F202_132.2 P63 BN63A6	88
7.2	114	1.2	127.1	2800	F102_127.1 S05 M05A6	83	F102_127.1 P63 BN63A6	84
8.0	103	2.4	114.3	4000	F202_114.3 S05 M05A6	87	F202_114.3 P63 BN63A6	88
8.6	95	1.5	106.0	2800	F102_106.0 S05 M05A6	83	F102_106.0 P63 BN63A6	84
9.9	82	1.7	91.5	2800	F102_91.5 S05 M05A6	83	F102_91.5 P63 BN63A6	84
10.1	81	3.1	90.4	4000	F202_90.4 S05 M05A6	87	F202_90.4 P63 BN63A6	88
12.8	64	2.2	71.1	2800	F102_71.1 S05 M05A6	83	F102_71.1 P63 BN63A6	84
14.4	57	2.5	63.0	2800	F102_63.0 S05 M05A6	83	F102_63.0 P63 BN63A6	88
18.7	44	3.2	48.7	2800	F102_48.7 S05 M05A6	83	F102_48.7 P63 BN63A6	84
23.0	36	3.9	39.6	2800	F102_39.6 S05 M05A6	83	F102_39.6 P63 BN63A6	84
27.6	30	4.7	33.0	2800	F102_33.0 S05 M05A6	83	F102_33.0 P63 BN63A6	84
35	23	6.1	25.8	2800	F102_25.8 S05 M05A6	83	F102_25.8 P63 BN63A6	84
47	17	8.1	19.3	2800	F102_19.3 S05 M05A6	83	F102_19.3 P63 BN63A6	84
62	13	1	14.6	2700	F102_14.6 S05 M05A6	83	F102_14.6 P63 BN63A6	84
70	12	0.6	13.0	2600	F102_13.0 S05 M05A6	83	F102_13.0 P63 BN63A6	84

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0.40	2623	1.9	2188	35000			F704_2188 P63 BN63B6	108
0.51	2058	2.5	1717	35000			F704_1717 P63 BN63B6	108
0.60	1742	2.9	2188	35000			F704_2188 P63 BN63A4	108
0.65	1607	3.1	2019	35000			F704_2019 P63 BN63A4	108
0.74	1400	1.1	1168	12000			F504_1168 P63 BN63B6	100
0.76	1368	2.1	1141	20000			F604_1141 P63 BN63B6	104
0.91	1149	2.5	958.9	20000			F604_958.9 P63 BN63B6	104
0.91	1146	1.4	1439	12000			F504_1439 P63 BN63A4	100
1.1	991	1.6	826.4	12000			F504_826.4 P63 BN63B6	100
1.1	966	1.0	1213	8500	F404_1213 S05 M05A4	95	F404_1213 P63 BN63A4	96
1.1	930	1.7	1168	12000			F504_1168 P63 BN63A4	100
1.3	782	1.2	982.4	8500	F404_982.4 S05 M05A4	95	F404_982.4 P63 BN63A4	96
1.3	780	2.1	979.4	12000			F504_979.4 P63 BN63A4	100
1.6	658	2.4	826.4	12000			F504_826.4 P63 BN63A4	100
1.6	648	1.5	813.8	8500	F404_813.8 S05 M05A4	95	F404_813.8 P63 BN63A4	96
1.9	549	1.7	690.1	8500	F404_690.1 S05 M05A4	95	F404_690.1 P63 BN63A4	96
1.9	546	1.0	685.6	6500	F304_685.6 S05 M05A4	91	F304_685.6 P63 BN63A4	92
1.9	538	3.0	676.3	12000			F504_676.3 P63 BN63A4	100
2.3	461	1.2	578.6	6500	F304_578.6 S05 M05A4	91	F304_578.6 P63 BN63A4	92
2.4	438	2.2	549.8	8500	F404_549.8 S05 M05A4	95	F404_549.8 P63 BN63A4	96
2.8	368	1.5	462.6	6500	F304_462.6 S05 M05A4	91	F304_462.6 P63 BN63A4	92
3.0	345	2.8	433.7	8500	F404_433.7 S05 M05A4	95	F404_433.7 P63 BN63A4	96
3.7	285	1.9	374.4	6500			F303_374.4 P63 BN63A4	92
4.1	252	1.0	316.9	4000	F203_316.9 S05 M05A4	87	F203_316.9 P63 BN63A4	88
4.8	224	2.5	293.8	6500			F303_293.8 P63 BN63A4	92
5.1	203	1.2	255.3	4000	F203_255.3 S05 M05A4	87	F203_255.3 P63 BN63A4	88

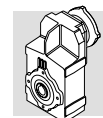


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

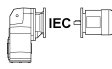

$n_2$ min <sup>-1</sup>	$M_2$ Nm	S	i	$R_{n2}$ N				
5.5	193	2.8	253.6	6500			F303_253.6 P63 BN63A4	92
6.3	167	1.5	209.3	4000	F203_209.3 S05 M05A4	87	F203_209.3 P63 BN63A4	88
6.9	158	1.6	132.2	4000	F202_132.2 S05 M05B6	87	F202_132.2 P63 BN63B6	88
7.2	152	0.9	127.1	2800	F102_127.1 S05 M05B6	83	F102_127.1 P63 BN63B6	84
7.6	137	1.8	172.6	4000	F203_172.6 S05 M05A4	87	F203_172.6 P63 BN63A4	88
8.0	137	1.8	114.3	4000	F202_114.3 S05 M05B6	87	F202_114.3 P63 BN63B6	88
8.6	127	1.1	106.0	2800	F102_106.0 S05 M05B6	83	F102_106.0 P63 BN63B6	84
9.9	109	1.3	91.5	2800	F102_91.5 S05 M05B6	83	F102_91.5 P63 BN63B6	84
10.6	103	2.4	132.2	4000	F202_132.2 S05 M05A4	87	F202_132.2 P63 BN63A4	88
11.0	99	1.4	127.1	2800	F102_127.1 S05 M05A4	83	F102_127.1 P63 BN63A4	84
12.2	89	2.8	114.3	4000	F202_114.3 S05 M05A4	87	F202_114.3 P63 BN63A4	88
13.2	82	1.7	106.0	2800	F102_106.0 S05 M05A4	83	F102_106.0 P63 BN63A4	84
14.4	75	1.9	63.0	2800	F102_63.0 S05 M05B6	83	F102_63.0 P63 BN63B6	84
14.7	74	3.4	61.9	4000	F202_61.9 S05 M05B6	87	F202_61.9 P63 BN63B6	88
15.3	71	2.0	91.5	2800	F102_91.5 S05 M05A4	83	F102_91.5 P63 BN63A4	84
15.5	70	3.6	90.4	4000	F202_90.4 S05 M05A4	87	F202_90.4 P63 BN63A4	88
19.7	55	2.5	71.1	2800	F102_71.1 S05 M05A4	83	F102_71.1 P63 BN63A4	84
22.2	49	2.9	63.0	2800	F102_63.0 S05 M05A4	83	F102_63.0 P63 BN63A4	84
28.7	38	3.7	48.7	2800	F102_48.7 S05 M05A4	83	F102_48.7 P63 BN63A4	84
35	31	4.5	39.6	2800	F102_39.6 S05 M05A4	83	F102_39.6 P63 BN63A4	84
42	26	5.5	33.0	2800	F102_33.0 S05 M05A4	83	F102_33.0 P63 BN63A4	84
54	20	7.0	25.8	2800	F102_25.8 S05 M05A4	83	F102_25.8 P63 BN63A4	84
72	15	9.0	19.3	2560	F102_19.3 S05 M05A4	83	F102_19.3 P63 BN63A4	84
96	11	1 0.4	14.6	2340	F102_14.6 S05 M05A4	83	F102_14.6 P63 BN63A4	84
107	10	1 0.3	13.0	2250	F102_13.0 S05 M05A4	83	F102_13.0 P63 BN63A4	84

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0.41	3803	1.3	2188	35000	F704_2188 S1 M1SC6	107	F704_2188 P71 BN71A6	108
0.45	3454	2.3	1987	45000	F804_1987 S1 M1SC6	111	F804_1987 P71 BN71A6	112
0.60	2593	1.9	2188	35000			F704_2188 P63 BN63B4	108
0.77	2035	2.5	1717	35000			F704_1717 P63 BN63B4	108
0.79	1983	1.5	1141	20000	F604_1141 S1 M1SC6	103	F604_1141 P71 BN71A6	104
0.89	1755	2.8	1481	35000			F704_1481 P63 BN63B4	108
0.94	1667	1.7	958.9	20000	F604_958.9 S1 M1SC6	103	F604_958.9 P71 BN71A6	104
1.1	1384	1.2	1168	12000			F504_1168 P63 BN63B4	100
1.2	1352	2.1	1141	20000			F604_1141 P63 BN63B4	104
1.3	1161	1.4	979.4	12000			F504_979.4 P63 BN63B4	100
1.4	1136	2.6	958.9	20000			F604_958.9 P63 BN63B4	104
1.6	979	1.6	826.4	12000			F504_826.4 P63 BN63B4	100
1.6	971	3.0	819.0	20000			F604_819.0 P63 BN63B4	104
1.6	964	1.0	813.8	8500	F404_813.8 S05 M05B4	95	F404_813.8 P63 BN63B4	96
1.9	818	1.2	690.1	8500	F404_690.1 S05 M05B4	95	F404_690.1 P63 BN63B4	96
2.0	801	2.0	676.3	12000			F504_676.3 P63 BN63B4	100
2.4	652	1.5	549.8	8500	F404_549.8 S05 M05B4	95	F404_549.8 P63 BN63B4	96
2.5	629	2.5	530.5	12000			F504_530.5 P63 BN63B4	100
2.9	548	1.0	462.6	6500	F304_462.6 S05 M05B4	91	F304_462.6 P63 BN63B4	92
3.0	514	1.8	433.7	8500	F404_433.7 S05 M05B4	95	F404_433.7 P63 BN63B4	96
3.1	509	3.1	429.1	12000			F504_429.1 P63 BN63B4	100
3.2	482	1.1	831.6	6500	F304_831.6 S05 M05A2	91	F304_831.6 P63 BN63A2	92
3.7	431	1.3	374.4	6500			F303_374.4 P63 BN63B4	92
4.0	397	2.4	344.8	8500			F403_344.8 P63 BN63B4	96
4.7	341	2.8	296.6	8500			F403_296.6 P63 BN63B4	96
4.7	338	1.6	293.8	6500			F303_293.8 P63 BN63B4	92
5.5	292	1.9	253.6	6500			F303_253.6 P63 BN63B4	92
5.8	276	3.4	240.1	8500			F403_240.1 P63 BN63B4	96
6.3	248	1.0	209.3	4000	F203_209.3 S05 M05B4	87	F203_209.3 P63 BN63B4	88
6.8	240	1.0	132.2	4000	F202_132.2 S1 M1SC6	87	F202_132.2 P71 BN71A6	88
6.9	233	2.4	202.3	6500			F303_202.3 P63 BN63B4	92
7.6	205	1.2	172.6	4000	F203_172.6 S05 M05B4	87	F203_172.6 P63 BN63B4	88
7.9	207	1.2	114.3	4000	F202_114.3 S1 M1SC6	87	F202_114.3 P71 BN71A6	88
8.3	192	2.9	166.8	6500			F303_166.8 P63 BN63B4	92
10.0	164	1.5	90.4	4000	F202_90.4 S1 M1SC6	87	F202_90.4 P71 BN71A6	88
10.5	155	1.6	132.2	4000	F202_132.2 S05 M05B4	87	F202_132.2 P63 BN63B4	88
10.9	149	0.9	127.1	2800	F102_127.1 S05 M05B4	83	F102_127.1 P63 BN63B4	84
12.2	134	1.9	114.3	4000	F202_114.3 S05 M05B4	87	F202_114.3 P63 BN63B4	88

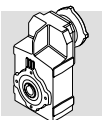


## 0.18 kW

$n_2$ min <sup>-1</sup>	$M_2$ Nm	S	i	$R_{n2}$ N				
13.1	125	1.1	106.0	2800	F102_106.0 S05 M05B4	83	F102_106.0 P63 BN63B4	84
14.3	114	1.2	63.0	2800	F102_63.0 S1 M1SC6	83	F102_63.0 P71 BN71A6	84
14.5	112	2.2	61.9	4000	F202_61.9 S1 M1SC6	87	F202_61.9 P71 BN71A6	88
15.2	107	1.3	91.5	2800	F102_91.5 S05 M05B4	83	F102_91.5 P63 BN63B4	84
15.4	106	2.4	90.4	4000	F202_90.4 S05 M05B4	87	F202_90.4 P63 BN63B4	88
18.1	90	2.8	76.8	4000	F202_76.8 S05 M05B4	87	F202_76.8 P63 BN63B4	88
19.5	84	1.7	71.1	2800	F102_71.1 S05 M05B4	83	F102_71.1 P63 BN63B4	84
22.1	74	1.9	63.0	2800	F102_63.0 S05 M05B4	83	F102_63.0 P63 BN63B4	84
22.5	73	3.4	61.9	4000	F202_61.9 S05 M05B4	87	F202_61.9 P63 BN63B4	88
28.5	57	2.4	48.7	2800	F102_48.7 S05 M05B4	83	F102_48.7 P63 BN63B4	84
35	47	3.0	39.6	2800	F102_39.6 S05 M05B4	83	F102_39.6 P63 BN63B4	84
42	39	3.6	33.0	2800	F102_33.0 S05 M05B4	83	F102_33.0 P63 BN63B4	84
54	30	4.6	25.8	2780	F102_25.8 S05 M05B4	83	F102_25.8 P63 BN63B4	84
72	23	6.0	19.3	2540	F102_19.3 S05 M05B4	83	F102_19.3 P63 BN63B4	84
95	17	6.9	14.6	2330	F102_14.6 S05 M05B4	83	F102_14.6 P63 BN63B4	84
107	15	6.8	13.0	2240	F102_13.0 S05 M05B4	83	F102_13.0 P63 BN63B4	84
142	11	7.8	9.8	2040	F102_9.8 S05 M05B4	83	F102_9.8 P63 BN63B4	84
188	9	8.7	7.4	1870	F102_7.4 S05 M05B4	83	F102_7.4 P63 BN63B4	84
216	8	1	13.0	1790	F102_13.0 S05 M05A2	83	F102_13.0 P63 BN63A2	84
288	6	1	9.8	1630	F102_9.8 S05 M05A2	83	F102_9.8 P63 BN63A2	84

## 0.25 kW

0.41	5282	0.9	2188	35000	F704_2188 S1 M1SD6	107	F704_2188 P71 BN71B6	108
0.45	4797	1.7	1987	45000	F804_1987 S1 M1SD6	111	F804_1987 P71 BN71B6	112
0.52	4145	1.2	1717	35000	F704_1717 S1 M1SD6	107	F704_1717 P71 BN71B6	108
0.53	4126	1.9	1709	45000	F804_1709 S1 M1SD6	111	F804_1709 P71 BN71B6	112
0.60	3601	1.4	2188	35000			F704_2188 P63 BN63C4	108
0.63	3457	1.4	2188	35000			F704_2188 P71 BN71A4	108
0.68	3190	1.6	2019	35000			F704_2019 P71 BN71A4	108
0.69	3140	2.5	1987	45000			F804_1987 P71 BN71A4	112
0.79	2754	1.1	1141	20000	F604_1141 S1 M1SD6	103	F604_1141 P71 BN71B6	104
0.80	2713	1.8	1717	35000			F704_1717 P71 BN71A4	108
0.80	2700	3.0	1709	45000			F804_1709 P71 BN71A4	112
0.96	2252	2.2	1368	35000			F704_1368 P63 BN63C4	108
1.0	2137	1.4	885.1	20000	F604_885.1 S1 M1SD6	103	F604_885.1 P71 BN71B6	104
1.2	1868	2.7	1182	35000			F704_1182 P71 BN71A4	108
1.3	1665	1.7	1054	20000			F604_1054 P71 BN71A4	104
1.4	1540	3.2	974.4	35000			F704_974.4 P71 BN71A4	108
1.4	1515	1.9	958.9	20000			F604_958.9 P71 BN71A4	104
1.7	1306	1.2	826.4	12000			F504_826.4 P71 BN71A4	100
1.7	1294	2.2	819.0	20000			F604_819.0 P71 BN71A4	104
2.0	1069	1.5	676.3	12000			F504_676.3 P71 BN71A4	100
2.1	1047	2.8	662.4	20000			F604_662.4 P71 BN71A4	104
2.4	905	1.0	549.8	8500	F404_549.8 S05 M05C4	95	F404_549.8 P71 BN71A4	96
2.6	838	1.9	530.5	12000			F504_530.5 P71 BN71A4	100
3.0	714	1.3	433.7	8500	F404_433.7 S05 M05C4	95	F404_433.7 P71 BN71A4	96
3.2	678	2.4	429.1	12000			F504_429.1 P71 BN71A4	100
3.7	605	0.9	374.4	6500			F303_374.4 P71 BN71A4	92
3.7	592	1.6	240.1	8500	F403_240.1 S1 M1SD6	95	F403_240.1 P71 BN71B6	96
4.0	557	1.7	344.8	8500			F403_344.8 P71 BN71A4	96
4.6	479	2.0	296.6	8500			F403_296.6 P71 BN71A4	96
4.7	474	1.2	293.8	6500			F303_293.8 P71 BN71A4	92
5.4	409	1.3	253.6	6500			F303_253.6 P71 BN71A4	92
5.7	388	2.4	240.1	8500			F403_240.1 P71 BN71A4	96
6.8	327	1.7	202.3	6500			F303_202.3 P71 BN71A4	92
6.9	321	3.0	198.9	8500			F403_198.9 P71 BN71A4	96
7.5	296	1.9	374.4	6500			F303_374.4 P63 BN63B2	92
8.2	269	2.0	166.8	6500			F303_166.8 P71 BN71A4	92
9.8	227	2.4	140.7	6500			F303_140.7 P71 BN71A4	92
10.0	228	1.1	90.4	4000	F202_90.4 S1 M1SD6	87	F202_90.4 P71 BN71B6	88
10.4	218	1.1	132.2	4000	F202_132.2 S05 M05C4	87	F202_132.2 P71 BN71A4	88
12.0	189	1.3	114.3	4000	F202_114.3 S05 M05C4	87	F202_114.3 P71 BN71A4	88
12.2	182	3.0	112.5	6500			F303_112.5 P71 BN71A4	92
14.5	156	1.6	61.9	4000	F202_61.9 S1 M1SD6	87	F202_61.9 P71 BN71B6	88
15.0	151	0.9	91.5	2800	F102_91.5 S05 M05C4	83	F102_91.5 P71 BN71A4	84

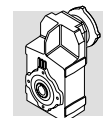


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

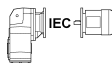

n <sub>2</sub> min <sup>-1</sup>	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
15.2	149	1.7	90.4	4000	F202_90.4 S05 M05C4	87	F202_90.4 P71 BN71A4	88
17.9	127	2.0	76.8	4000	F202_76.8 S05 M05C4	87	F202_76.8 P71 BN71A4	88
18.5	123	1.1	48.7	2800	F102_48.7 S1 M1SD6	83	F102_48.7 P71 BN71B6	84
19.3	117	1.2	71.1	2800	F102_71.1 S05 M05C4	83	F102_71.1 P71 BN71A4	84
21.8	104	1.3	63.0	2800	F102_63.0 S05 M05C4	83	F102_63.0 P71 BN71A4	84
22.2	102	2.4	61.9	4000	F202_61.9 S05 M05C4	87	F202_61.9 P71 BN71A4	88
27.1	84	3.0	50.7	4000	F202_50.7 S05 M05C4	87	F202_50.7 P71 BN71A4	88
28.2	80	1.7	48.7	2800	F102_48.7 S05 M05C4	83	F102_48.7 P71 BN71A4	84
35	65	2.1	39.6	2800	F102_39.6 S05 M05C4	83	F102_39.6 P71 BN71A4	84
42	54	2.6	33.0	2800	F102_33.0 S05 M05C4	83	F102_33.0 P71 BN71A4	84
47	49	2.9	19.3	2800	F102_19.3 S1 M1SD6	83	F102_19.3 P71 BN71B6	84
53	43	3.3	25.8	2750	F102_25.8 S05 M05C4	83	F102_25.8 P71 BN71A4	84
71	32	4.3	19.3	2520	F102_19.3 S05 M05C4	83	F102_19.3 P71 BN71A4	84
94	24	4.9	14.6	2310	F102_14.6 S05 M05C4	83	F102_14.6 P71 BN71A4	84
106	21	4.8	13.0	2230	F102_13.0 S05 M05C4	83	F102_13.0 P71 BN71A4	84
141	16	5.5	9.8	2030	F102_9.8 S05 M05C4	83	F102_9.8 P71 BN71A4	84
186	12	6.2	7.4	1860	F102_7.4 S05 M05C4	83	F102_7.4 P71 BN71A4	84
216	11	8.1	13.0	1780	F102_13.0 S05 M05B2	83	F102_13.0 P63 BN63B2	84
288	8	9.3	9.8	1620	F102_9.8 S05 M05B2	83	F102_9.8 P63 BN63B2	84
380	6	1 0.5	7.4	1480	F102_7.4 S05 M05B2	83	F102_7.4 P63 BN63B2	84

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0.43	7417	1.9	2099	55000			F904_2099 P80 BN80A6	116
0.53	6039	1.3	1709	45000	F804_1709 S1 M1LA6	111	F804_1709 P80 BN80A6	112
0.53	6014	2.3	1702	55000			F904_1702 P80 BN80A6	116
0.58	5576	1.4	1578	45000	F804_1578 S1 M1LA6	111	F804_1578 P80 BN80A6	112
0.71	4546	3.1	1937	55000			F904_1937 P71 BN71B4	116
0.75	4305	1.9	1834	45000	F804_1834 S1 M1SD4	111	F804_1834 P71 BN71B4	112
0.80	4030	1.2	1717	35000	F704_1717 S1 M1SD4	107	F704_1717 P71 BN71B4	108
0.80	4011	2.0	1709	45000	F804_1709 S1 M1SD4	111	F804_1709 P71 BN71B4	112
0.99	3248	2.5	1384	45000	F804_1384 S1 M1SD4	111	F804_1384 P71 BN71B4	112
1.0	3211	1.6	1368	35000	F704_1368 S1 M1SD4	107	F704_1368 P71 BN71B4	108
1.2	2690	3.0	1146	45000	F804_1146 S1 M1SD4	111	F804_1146 P71 BN71B4	112
1.2	2678	1.1	1141	20000	F604_1141 S1 M1SD4	103	F604_1141 P71 BN71B4	104
1.3	2561	2.0	1091	35000	F704_1091 S1 M1SD4	107	F704_1091 P71 BN71B4	108
1.3	2474	1.2	1054	20000	F604_1054 S1 M1SD4	103	F604_1054 P71 BN71B4	104
1.4	2251	1.3	958.9	20000	F604_958.9 S1 M1SD4	103	F604_958.9 P71 BN71B4	104
1.5	2111	2.4	899.4	35000	F704_899.4 S1 M1SD4	107	F704_899.4 P71 BN71B4	108
1.5	2077	1.4	885.1	20000	F604_885.1 S1 M1SD4	103	F604_885.1 P71 BN71B4	104
1.7	1930	2.6	822.2	35000	F704_822.2 S1 M1SD4	107	F704_822.2 P71 BN71B4	108
1.7	1922	1.5	819.0	20000	F604_819.0 S1 M1SD4	103	F604_819.0 P71 BN71B4	104
1.8	1781	2.8	759.0	35000	F704_759.0 S1 M1SD4	107	F704_759.0 P71 BN71B4	108
1.8	1774	1.6	756.0	20000	F604_756.0 S1 M1SD4	103	F604_756.0 P71 BN71B4	104
2.1	1555	1.9	662.4	20000	F604_662.4 S1 M1SD4	103	F604_662.4 P71 BN71B4	104
2.1	1543	3.2	657.4	35000	F704_657.4 S1 M1SD4	107	F704_657.4 P71 BN71B4	108
2.6	1246	2.3	530.7	20000	F604_530.7 S1 M1SD4	103	F604_530.7 P71 BN71B4	104
2.6	1245	1.3	530.5	12000	F504_530.5 S1 M1SD4	99	F504_530.5 P71 BN71B4	100
3.2	1018	0.9	433.7	8500	F404_433.7 S1 M1SD4	95	F404_433.7 P71 BN71B4	96
3.2	1015	2.9	432.6	20000	F604_432.6 S1 M1SD4	103	F604_432.6 P71 BN71B4	104
3.2	1007	1.6	429.1	12000	F504_429.1 S1 M1SD4	99	F504_429.1 P71 BN71B4	100
3.9	846	1.9	352.5	12000	F503_352.5 S1 M1SD4	99	F503_352.5 P71 BN71B4	100
4.0	827	1.1	344.8	8500	F403_344.8 S1 M1SD4	95	F403_344.8 P71 BN71B4	96
4.6	711	1.3	296.6	8500	F403_296.6 S1 M1SD4	95	F403_296.6 P71 BN71B4	96
4.8	686	2.3	285.9	12000	F503_285.9 S1 M1SD4	99	F503_285.9 P71 BN71B4	100
5.4	608	0.9	253.6	6500	F303_253.6 S1 M1SD4	91	F303_253.6 P71 BN71B4	92
5.7	576	1.6	240.1	8500	F403_240.1 S1 M1SD4	95	F403_240.1 P71 BN71B4	96
5.7	575	2.8	239.8	12000	F503_239.8 S1 M1SD4	99	F503_239.8 P71 BN71B4	100
6.8	485	3.3	202.4	12000	F503_202.4 S1 M1SD4	99	F503_202.4 P71 BN71B4	100
6.8	485	1.1	202.3	6500	F303_202.3 S1 M1SD4	91	F303_202.3 P71 BN71B4	92
6.9	477	2.0	198.9	8500	F403_198.9 S1 M1SD4	95	F403_198.9 P71 BN71B4	96
8.1	405	2.3	168.7	8500	F403_168.7 S1 M1SD4	95	F403_168.7 P71 BN71B4	96
8.2	400	1.4	166.8	6500	F303_166.8 S1 M1SD4	91	F303_166.8 P71 BN71B4	92
9.7	338	1.6	140.7	6500	F303_140.7 S1 M1SD4	91	F303_140.7 P71 BN71B4	92
10.2	322	2.9	134.4	8500	F403_134.4 S1 M1SD4	95	F403_134.4 P71 BN71B4	96
12.2	270	2.0	112.5	6500	F303_112.5 S1 M1SD4	91	F303_112.5 P71 BN71B4	92
15.2	222	1.1	90.4	4000	F202_90.4 S1 M1SD4	87	F202_90.4 P71 BN71B4	88



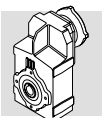
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$n_2$ min <sup>-1</sup>	$M_2$ Nm	S	i	$R_{n2}$ N				
15.7	210	2.6	87.4	6500	F303_87.4 S1 M1SD4	91	F303_87.4 P71 BN71B4	92
17.8	188	1.3	76.8	4000	F202_76.8 S1 M1SD4	87	F202_76.8 P71 BN71B4	88
21.7	154	0.9	63.0	2800	F102_63.0 S1 M1SD4	83	F102_63.0 P71 BN71B4	84
22.1	152	1.6	61.9	4000	F202_61.9 S1 M1SD4	87	F202_61.9 P71 BN71B4	88
27.0	124	2.0	50.7	3900	F202_50.7 S1 M1SD4	87	F202_50.7 P71 BN71B4	88
28.1	119	1.2	48.7	2800	F102_48.7 S1 M1SD4	83	F102_48.7 P71 BN71B4	84
33	103	2.4	41.8	3700	F202_41.8 S1 M1SD4	87	F202_41.8 P71 BN71B4	88
35	97	1.4	39.6	2800	F102_39.6 S1 M1SD4	83	F102_39.6 P71 BN71B4	84
41	81	3.1	33.1	3460	F202_33.1 S1 M1SD4	87	F202_33.1 P71 BN71B4	88
42	81	1.7	33.0	2800	F102_33.0 S1 M1SD4	83	F102_33.0 P71 BN71B4	84
45	74	3.4	20.2	3380	F202_20.2 S1 M1LA6	87	F202_20.2 P80 BN80A6	88
47	71	2.0	19.3	2780	F102_19.3 S1 M1LA6	83	F102_19.3 P80 BN80A6	84
53	63	2.2	25.8	2690	F102_25.8 S1 M1SD4	83	F102_25.8 P71 BN71B4	84
62	54	2.6	14.6	2570	F102_14.6 S1 M1LA6	83	F102_14.6 P80 BN80A6	84
71	47	2.9	19.3	2470	F102_19.3 S1 M1SD4	83	F102_19.3 P71 BN71B4	84
94	36	3.3	14.6	2280	F102_14.6 S1 M1SD4	83	F102_14.6 P71 BN71B4	84
105	32	3.3	13.0	2200	F102_13.0 S1 M1SD4	83	F102_13.0 P71 BN71B4	84
140	24	3.7	9.8	2010	F102_9.8 S1 M1SD4	83	F102_9.8 P71 BN71B4	84
185	18	4.2	7.4	1850	F102_7.4 S1 M1SD4	83	F102_7.4 P71 BN71B4	84
216	16	5.5	13.0	1760	F102_13.0 S05 M05C2	83	F102_13.0 P71 BN71A2	84
288	12	6.3	9.8	1610	F102_9.8 S05 M05C2	83	F102_9.8 P71 BN71A2	84
380	9	7.1	7.4	1470	F102_7.4 S05 M05C2	83	F102_7.4 P71 BN71A2	84



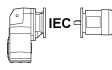

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0.44	10905	1.3	2099	55000	F904_2099 S2 M2SA6	115	F904_2099 P80 BN80B6	116
0.46	10323	0.8	1987	45000	F804_1987 S2 M2SA6	111	F804_1987 P80 BN80B6	112
0.54	8879	0.9	1709	45000	F804_1709 S2 M2SA6	111	F804_1709 P80 BN80B6	112
0.54	8843	1.6	1702	55000	F904_1702 S2 M2SA6	115	F904_1702 P80 BN80B6	116
0.66	7218	1.9	2099	55000			F904_2099 P80 BN80A4	116
0.69	6882	1.2	1987	45000	F804_1987 S1 M1LA4	111	F804_1987 P80 BN80A4	112
0.75	6352	1.3	1834	45000	F804_1834 S1 M1LA4	111	F804_1834 P80 BN80A4	112
0.81	5919	1.4	1709	45000	F804_1709 S1 M1LA4	111	F804_1709 P80 BN80A4	112
0.82	5853	2.4	1702	55000			F904_1702 P80 BN80A4	116
0.97	4910	2.9	1428	55000			F904_1428 P80 BN80A4	116
1.0	4794	1.7	1384	45000	F804_1384 S1 M1LA4	111	F804_1384 P80 BN80A4	112
1.2	4094	1.2	1182	35000	F704_1182 S1 M1LA4	107	F704_1182 P80 BN80A4	108
1.2	3969	2.0	1146	45000	F804_1146 S1 M1LA4	111	F804_1146 P80 BN80A4	112
1.4	3375	1.5	974.4	35000	F704_974.4 S1 M1LA4	107	F704_974.4 P80 BN80A4	108
1.5	3115	1.6	899.4	35000	F704_899.4 S1 M1LA4	107	F704_899.4 P80 BN80A4	108
1.5	3108	2.6	897.3	45000	F804_897.3 S1 M1LA4	111	F804_897.3 P80 BN80A4	112
1.7	2848	1.8	822.2	35000	F704_822.2 S1 M1LA4	107	F704_822.2 P80 BN80A4	108
1.8	2629	1.9	759.0	35000	F704_759.0 S1 M1LA4	107	F704_759.0 P80 BN80A4	108
1.8	2618	1.1	756.0	20000	F604_756.0 S1 M1LA4	103	F604_756.0 P80 BN80A4	104
2.1	2294	1.3	662.4	20000	F604_662.4 S1 M1LA4	103	F604_662.4 P80 BN80A4	104
2.1	2277	2.2	657.4	35000	F704_657.4 S1 M1LA4	107	F704_657.4 P80 BN80A4	108
2.3	2118	1.4	611.4	20000	F604_611.4 S1 M1LA4	103	F604_611.4 P80 BN80A4	104
2.3	2102	2.4	606.8	35000	F704_606.8 S1 M1LA4	107	F704_606.8 P80 BN80A4	108
2.7	1768	2.8	510.4	35000	F704_510.4 S1 M1LA4	107	F704_510.4 P80 BN80A4	108
2.8	1696	1.7	489.8	20000	F604_489.8 S1 M1LA4	103	F604_489.8 P80 BN80A4	104
3.2	1498	1.9	432.6	20000	F604_432.6 S1 M1LA4	103	F604_432.6 P80 BN80A4	104
3.2	1486	1.1	429.1	12000	F504_429.1 S1 M1LA4	99	F504_429.1 P80 BN80A4	100
3.5	1383	2.1	399.3	20000	F604_399.3 S1 M1LA4	103	F604_399.3 P80 BN80A4	104
3.9	1248	1.3	352.5	12000	F503_352.5 S1 M1LA4	99	F503_352.5 P80 BN80A4	100
4.0	1184	2.5	341.7	20000	F604_341.7 S1 M1LA4	103	F604_341.7 P80 BN80A4	104
4.7	1050	0.9	296.6	8500	F403_296.6 S1 M1LA4	95	F403_296.6 P80 BN80A4	96
4.8	1012	1.6	285.9	12000	F503_285.9 S1 M1LA4	99	F503_285.9 P80 BN80A4	100
4.9	994	2.9	280.7	20000			F603_280.7 P80 BN80A4	104
5.7	850	1.1	240.1	8500	F403_240.1 S1 M1LA4	95	F403_240.1 P80 BN80A4	96
5.8	849	1.9	239.8	12000	F503_239.8 S1 M1LA4	99	F503_239.8 P80 BN80A4	100
5.9	835	3.5	235.8	20000			F603_235.8 P80 BN80A4	104
6.8	716	2.2	202.4	12000	F503_202.4 S1 M1LA4	99	F503_202.4 P80 BN80A4	100
6.9	704	1.3	198.9	8500	F403_198.9 S1 M1LA4	95	F403_198.9 P80 BN80A4	96
8.2	597	1.6	168.7	8500	F403_168.7 S1 M1LA4	95	F403_168.7 P80 BN80A4	96
8.3	590	0.9	166.8	6500	F303_166.8 S1 M1LA4	91	F303_166.8 P80 BN80A4	92
8.3	586	2.7	165.6	12000	F503_165.6 S1 M1LA4	99	F503_165.6 P80 BN80A4	100
9.8	498	1.1	140.7	6500	F303_140.7 S1 M1LA4	91	F303_140.7 P80 BN80A4	92



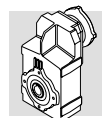


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

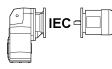

$n_2$ min <sup>-1</sup>	$M_2$ Nm	S	i	$R_{n2}$ N				
10.3	476	2.0	134.4	8500	F403_134.4 S1 M1LA4	95	F403_134.4 P80 BN80A4	96
10.6	460	3.5	129.9	12000	F503_129.9 S1 M1LA4	99	F503_129.9 P80 BN80A4	100
12.3	398	1.4	112.5	6500	F303_112.5 S1 M1LA4	91	F303_112.5 P80 BN80A4	92
13.0	375	2.5	106.0	8500	F403_106.0 S1 M1LA4	95	F403_106.0 P80 BN80A4	96
15.8	309	1.8	87.4	6500	F303_87.4 S1 M1LA4	91	F303_87.4 P80 BN80A4	92
16.3	300	3.2	84.9	8500	F403_84.9 S1 M1LA4	95	F403_84.9 P80 BN80A4	96
18.0	278	0.9	76.8	4000	F202_76.8 S1 M1LA4	87	F202_76.8 P80 BN80A4	88
20.0	244	2.2	69.1	6500	F303_69.1 S1 M1LA4	91	F303_69.1 P80 BN80A4	92
22.3	224	1.1	61.9	3890	F202_61.9 S1 M1LA4	87	F202_61.9 P80 BN80A4	88
26.5	184	2.8	52.1	6500			F303_52.1 P80 BN80A4	92
27.2	183	1.4	50.7	3720	F202_50.7 S1 M1LA4	87	F202_50.7 P80 BN80A4	88
33	151	1.7	41.8	3550	F202_41.8 S1 M1LA4	87	F202_41.8 P80 BN80A4	88
34	142	3.3	40.2	6500			F303_40.2 P80 BN80A4	92
35	143	1.0	39.6	2800	F102_39.6 S1 M1LA4	83	F102_39.6 P80 BN80A4	84
42	120	2.1	33.1	3340	F202_33.1 S1 M1LA4	87	F202_33.1 P80 BN80A4	88
42	119	1.2	33.0	2750	F102_33.0 S1 M1LA4	83	F102_33.0 P80 BN80A4	84
46	109	2.3	20.2	3260	F202_20.2 S2 M2SA6	87	F202_20.2 P80 BN80B6	88
48	105	1.3	19.3	2670	F102_19.3 S2 M2SA6	83	F102_19.3 P80 BN80B6	84
48	104	3.6	28.9	6500	F302_28.9 S1 M1LA4	91	F302_28.9 P80 BN80A4	92
53	94	2.6	25.9	3130	F202_25.9 S1 M1LA4	87	F202_25.9 P80 BN80A4	88
54	93	1.5	25.8	2590	F102_25.8 S1 M1LA4	83	F102_25.8 P80 BN80A4	84
62	80	2.9	14.8	2990	F202_14.8 S2 M2SA6	87	F202_14.8 P80 BN80B6	88
68	73	3.1	20.2	2910	F202_20.2 S1 M1LA4	87	F202_20.2 P80 BN80A4	88
71	70	1.9	19.3	2400	F102_19.3 S1 M1LA4	83	F102_19.3 P80 BN80A4	84
82	61	3.4	11.2	2760	F202_11.2 S2 M2SA6	87	F202_11.2 P80 BN80B6	88
94	53	2.2	14.6	2220	F102_14.6 S1 M1LA4	83	F102_14.6 P80 BN80A4	84
106	47	2.2	13.0	2140	F102_13.0 S1 M1LA4	83	F102_13.0 P80 BN80A4	84
141	35	2.5	9.8	1970	F102_9.8 S1 M1LA4	83	F102_9.8 P80 BN80A4	84
186	27	2.8	7.4	1810	F102_7.4 S1 M1LA4	83	F102_7.4 P80 BN80A4	84
216	23	3.7	13.0	1730	F102_13.0 S1 M1SD2	83	F102_13.0 P71 BN71B2	84
288	17	4.2	9.8	1590	F102_9.8 S1 M1SD2	83	F102_9.8 P71 BN71B2	84
380	13	4.8	7.4	1460	F102_7.4 S1 M1SD2	83	F102_7.4 P71 BN71B2	84

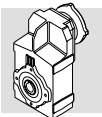
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0.44	14871	0.9	2099	55000	F904_2099 S2 M2SB6	115	F904_2099 P90 BN90S6	116
0.54	12058	1.2	1702	55000	F904_1702 S2 M2SB6	115	F904_1702 P90 BN90S6	116
0.59	11130	1.3	1571	55000	F904_1571 S2 M2SB6	115	F904_1571 P90 BN90S6	116
0.67	9772	1.4	2099	55000	F904_2099 S2 M2SA4	115	F904_2099 P80 BN80B4	116
0.72	9018	1.6	1937	55000	F904_1937 S2 M2SA4	115	F904_1937 P80 BN80B4	116
0.76	8538	0.9	1834	45000	F804_1834 S2 M2SA4	111	F804_1834 P80 BN80B4	112
0.82	7956	1.0	1709	45000	F804_1709 S2 M2SA4	111	F804_1709 P80 BN80B4	112
0.82	7924	1.8	1702	55000	F904_1702 S2 M2SA4	115	F904_1702 P80 BN80B4	116
0.89	7347	1.1	1578	45000	F804_1578 S2 M2SA4	111	F804_1578 P80 BN80B4	112
0.89	7314	1.9	1571	55000	F904_1571 S2 M2SA4	115	F904_1571 P80 BN80B4	116
0.98	6648	2.1	1428	55000	F904_1428 S2 M2SA4	115	F904_1428 P80 BN80B4	116
1.0	6443	1.2	1384	45000	F804_1384 S2 M2SA4	111	F804_1384 P80 BN80B4	112
1.1	6136	2.3	1318	55000	F904_1318 S2 M2SA4	115	F904_1318 P80 BN80B4	116
1.1	5945	1.3	1277	45000	F804_1277 S2 M2SA4	111	F804_1277 P80 BN80B4	112
1.2	5335	1.5	1146	45000	F804_1146 S2 M2SA4	111	F804_1146 P80 BN80B4	112
1.3	5177	2.7	1112	55000	F904_1112 S2 M2SA4	115	F904_1112 P80 BN80B4	116
1.3	4926	1.6	1058	45000	F804_1058 S2 M2SA4	111	F804_1058 P80 BN80B4	112
1.4	4590	3.0	986.0	55000	F904_986.0 S2 M2SA4	115	F904_986.0 P80 BN80B4	116
1.4	4536	1.1	974.4	35000	F704_974.4 S2 M2SA4	107	F704_974.4 P80 BN80B4	108
1.4	4525	1.8	972.0	45000	F804_972.0 S2 M2SA4	111	F804_972.0 P80 BN80B4	112
1.5	4238	3.3	910.2	55000	F904_910.2 S2 M2SA4	115	F904_910.2 P80 BN80B4	116
1.6	4187	1.2	899.4	35000	F704_899.4 S2 M2SA4	107	F704_899.4 P80 BN80B4	108
1.6	4177	1.9	897.3	45000	F804_897.3 S2 M2SA4	111	F804_897.3 P80 BN80B4	112
1.8	3605	2.2	774.4	45000	F804_774.4 S2 M2SA4	111	F804_774.4 P80 BN80B4	112
1.8	3534	1.4	759.0	35000	F704_759.0 S2 M2SA4	107	F704_759.0 P80 BN80B4	108
1.9	3520	0.8	756.0	20000	F604_756.0 S2 M2SA4	103	F604_756.0 P80 BN80B4	104
2.0	3328	2.4	714.9	45000	F804_714.9 S2 M2SA4	111	F804_714.9 P80 BN80B4	112
2.1	3084	0.9	662.4	20000	F604_662.4 S2 M2SA4	103	F604_662.4 P80 BN80B4	104
2.1	3061	1.6	657.4	35000	F704_657.4 S2 M2SA4	107	F704_657.4 P80 BN80B4	108
2.3	2846	1.0	611.4	20000	F604_611.4 S2 M2SA4	103	F604_611.4 P80 BN80B4	104
2.3	2844	2.8	610.9	45000	F804_610.9 S2 M2SA4	111	F804_610.9 P80 BN80B4	112
2.3	2825	1.8	606.8	35000	F704_606.8 S2 M2SA4	107	F704_606.8 P80 BN80B4	108



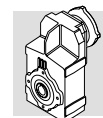
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$n_2$ min <sup>-1</sup>	$M_2$ Nm	S	i	$R_{n2}$ N				
2.5	2625	3.0	563.9	45000	F804_563.9 S2 M2SA4	111	F804_563.9 P80 BN80B4	112
2.6	2471	1.2	530.7	20000	F604_530.7 S2 M2SA4	103	F604_530.7 P80 BN80B4	104
2.7	2376	2.1	510.4	35000	F704_510.4 S2 M2SA4	107	F704_510.4 P80 BN80B4	108
2.9	2280	1.3	489.8	20000	F604_489.8 S2 M2SA4	103	F604_489.8 P80 BN80B4	104
2.9	2277	3.5	489.1	45000	F804_489.1 S2 M2SA4	111	F804_489.1 P80 BN80B4	112
3.0	2194	2.3	471.2	35000	F704_471.2 S2 M2SA4	107	F704_471.2 P80 BN80B4	108
3.2	2014	1.4	432.6	20000	F604_432.6 S2 M2SA4	103	F604_432.6 P80 BN80B4	104
3.3	1998	0.8	429.1	12000	F504_429.1 S2 M2SA4	99	F504_429.1 P80 BN80B4	100
3.5	1879	2.7	403.5	35000	F704_403.5 S2 M2SA4	107	F704_403.5 P80 BN80B4	108
3.5	1859	1.6	399.3	20000	F604_399.3 S2 M2SA4	103	F604_399.3 P80 BN80B4	104
3.8	1734	2.9	372.5	35000	F704_372.5 S2 M2SA4	107	F704_372.5 P80 BN80B4	108
4.1	1591	1.8	341.7	20000	F604_341.7 S2 M2SA4	103	F604_341.7 P80 BN80B4	104
4.4	1468	2.0	315.4	20000	F604_315.4 S2 M2SA4	103	F604_315.4 P80 BN80B4	104
4.9	1360	1.2	285.9	12000	F503_285.9 S2 M2SA4	99	F503_285.9 P80 BN80B4	100
5.0	1335	2.2	280.7	20000	F603_280.7 S2 M2SA4	103	F603_280.7 P80 BN80B4	104
5.4	1233	2.4	259.1	20000	F603_259.1 S2 M2SA4	103	F603_259.1 P80 BN80B4	104
5.8	1141	1.4	239.8	12000	F503_239.8 S2 M2SA4	99	F503_239.8 P80 BN80B4	100
5.9	1122	2.6	235.8	20000	F603_235.8 S2 M2SA4	103	F603_235.8 P80 BN80B4	104
6.4	1036	2.8	217.6	20000	F603_217.6 S2 M2SA4	103	F603_217.6 P80 BN80B4	104
6.9	963	1.7	202.4	12000	F503_202.4 S2 M2SA4	99	F503_202.4 P80 BN80B4	100
7.0	958	3.0	201.4	20000	F603_201.4 S2 M2SA4	103	F603_201.4 P80 BN80B4	104
7.0	946	1.0	198.9	8500	F403_198.9 S2 M2SA4	95	F403_198.9 P80 BN80B4	96
8.3	803	1.2	168.7	8500	F403_168.7 S2 M2SA4	95	F403_168.7 P80 BN80B4	96
8.5	788	2.0	165.6	12000	F503_165.6 S2 M2SA4	99	F503_165.6 P80 BN80B4	100
10.4	639	1.5	134.4	8500	F403_134.4 S2 M2SA4	95	F403_134.4 P80 BN80B4	96
10.8	618	2.6	129.9	12000	F503_129.9 S2 M2SA4	99	F503_129.9 P80 BN80B4	100
12.4	535	1.0	112.5	6500	F303_112.5 S2 M2SA4	91	F303_112.5 P80 BN80B4	92
13.2	504	1.9	106.0	8500	F403_106.0 S2 M2SA4	95	F403_106.0 P80 BN80B4	96
13.3	500	3.2	105.1	12000	F503_105.1 S2 M2SA4	99	F503_105.1 P80 BN80B4	100
16.0	416	1.3	87.4	6500	F303_87.4 S2 M2SA4	91	F303_87.4 P80 BN80B4	92
16.5	404	2.4	84.9	8500	F403_84.9 S2 M2SA4	95	F403_84.9 P80 BN80B4	96
20.3	329	1.7	69.1	6500	F303_69.1 S2 M2SA4	91	F303_69.1 P80 BN80B4	92
21.1	316	3.0	66.5	8500	F403_66.5 S2 M2SA4	95	F403_66.5 P80 BN80B4	96
26.3	259	1.4	35.0	6500	F302_35.0 S2 M2SB6	91	F302_35.0 P90 BN90S6	92
26.9	248	2.1	52.1	6500	F303_52.1 S2 M2SA4	91	F303_52.1 P80 BN80B4	92
27.6	247	1.0	50.7	3510	F202_50.7 S2 M2SA4	87	F202_50.7 P80 BN80B4	88
33	203	1.2	41.8	3370	F202_41.8 S2 M2SA4	87	F202_41.8 P80 BN80B4	88
35	191	2.5	40.2	6500	F303_40.2 S2 M2SA4	91	F303_40.2 P80 BN80B4	92
35	192	1.3	25.9	3330	F202_25.9 S2 M2SB6	87	F202_25.9 P90 BN90S6	88
40	172	3.4	35.3	8500	F402_35.3 S2 M2SA4	95	F402_35.3 P80 BN80B4	96
40	170	2.1	35.0	6500	F302_35.0 S2 M2SA4	91	F302_35.0 P80 BN80B4	92
42	161	1.6	33.1	3200	F202_33.1 S2 M2SA4	87	F202_33.1 P80 BN80B4	88
46	149	1.7	20.2	3140	F202_20.2 S2 M2SB6	87	F202_20.2 P90 BN90S6	88
48	143	1.0	19.3	2550	F102_19.3 S2 M2SB6	83	F102_19.3 P90 BN90S6	84
49	140	2.7	28.9	6500	F302_28.9 S2 M2SA4	91	F302_28.9 P80 BN80B4	92
54	126	1.9	25.9	3020	F202_25.9 S2 M2SA4	87	F202_25.9 P80 BN80B4	88
54	125	1.1	25.8	2470	F102_25.8 S2 M2SA4	83	F102_25.8 P80 BN80B4	84
57	118	3.2	24.4	6500	F302_24.4 S2 M2SA4	91	F302_24.4 P80 BN80B4	92
62	109	2.1	14.8	2910	F202_14.8 S2 M2SB6	87	F202_14.8 P90 BN90S6	88
63	108	1.3	14.6	2390	F102_14.6 S2 M2SB6	83	F102_14.6 P90 BN90S6	84
69	98	2.3	20.2	2830	F202_20.2 S2 M2SA4	87	F202_20.2 P80 BN80B4	88
72	94	1.4	19.3	2310	F102_19.3 S2 M2SA4	83	F102_19.3 P80 BN80B4	84
82	83	2.5	11.2	2690	F202_11.2 S2 M2SB6	87	F202_11.2 P90 BN90S6	88
95	72	2.8	14.8	2600	F202_14.8 S2 M2SA4	87	F202_14.8 P80 BN80B4	88
96	71	1.7	14.6	2150	F102_14.6 S2 M2SA4	83	F102_14.6 P80 BN80B4	84
105	65	2.8	8.7	2510	F202_8.7 S2 M2SB6	87	F202_8.7 P90 BN90S6	88
107	63	1.6	13.0	2070	F102_13.0 S2 M2SA4	83	F102_13.0 P80 BN80B4	84
108	63	3.1	25.9	2500	F202_25.9 S1 M1LA2	87	F202_25.9 P80 BN80A2	88
109	63	2.0	25.8	2080	F102_25.8 S1 M1LA2	83	F102_25.8 P80 BN80A2	84
124	55	1.7	7.4	1990	F102_7.4 S2 M2SB6	83	F102_7.4 P90 BN90S6	84
125	55	3.2	11.2	2390	F202_11.2 S2 M2SA4	87	F202_11.2 P80 BN80B4	88
139	49	3.7	20.2	2330	F202_20.2 S1 M1LA2	87	F202_20.2 P80 BN80A2	88
143	47	1.9	9.8	1920	F102_9.8 S2 M2SA4	83	F102_9.8 P80 BN80B4	84
189	36	2.1	7.4	1770	F102_7.4 S2 M2SA4	83	F102_7.4 P80 BN80B4	84
191	36	2.6	14.6	1770	F102_14.6 S1 M1LA2	83	F102_14.6 P80 BN80A2	84
215	32	2.7	13.0	1710	F102_13.0 S1 M1LA2	83	F102_13.0 P80 BN80A2	84
287	24	3.1	9.8	1570	F102_9.8 S1 M1LA2	83	F102_9.8 P80 BN80A2	84
378	18	3.5	7.4	1440	F102_7.4 S1 M1LA2	83	F102_7.4 P80 BN80A2	84



# 1.1 kW

$n_2$ min <sup>-1</sup>	$M_2$ Nm	S	i	$R_{n2}$ N				
0.54	17685	0.8	1702	55000	F904_1702 S3 M3SA6	115	F904_1702 P90 BN90L6	116
0.64	14838	0.9	1428	55000	F904_1428 S3 M3SA6	115	F904_1428 P90 BN90L6	116
0.67	14332	1.0	2099	55000	F904_2099 S2 M2SB4	115	F904_2099 P90 BN90S4	116
0.72	13226	1.1	1937	55000	F904_1937 S2 M2SB4	115	F904_1937 P90 BN90S4	116
0.82	11622	1.2	1702	55000	F904_1702 S2 M2SB4	115	F904_1702 P90 BN90S4	116
0.89	10727	1.3	1571	55000	F904_1571 S2 M2SB4	115	F904_1571 P90 BN90S4	116
0.98	9751	1.4	1428	55000	F904_1428 S2 M2SB4	115	F904_1428 P90 BN90S4	116
1.2	8228	1.7	1205	55000	F904_1205 S2 M2SB4	115	F904_1205 P90 BN90S4	116
1.3	7593	1.8	1112	55000	F904_1112 S2 M2SB4	115	F904_1112 P90 BN90S4	116
1.3	7224	1.1	1058	45000	F804_1058 S2 M2SB4	111	F804_1058 P90 BN90S4	112
1.4	6733	2.1	986.0	55000	F904_986.0 S2 M2SB4	115	F904_986.0 P90 BN90S4	116
1.4	6637	1.2	972.0	45000	F804_972.0 S2 M2SB4	111	F804_972.0 P90 BN90S4	112
1.5	6215	2.3	910.2	55000	F904_910.2 S2 M2SB4	115	F904_910.2 P90 BN90S4	116
1.6	6141	0.8	899.4	35000	F704_899.4 S2 M2SB4	107	F704_899.4 P90 BN90S4	108
1.8	5288	1.5	774.4	45000	F804_774.4 S2 M2SB4	111	F804_774.4 P90 BN90S4	112
1.8	5281	2.7	773.4	55000	F904_773.4 S2 M2SB4	115	F904_773.4 P90 BN90S4	116
1.8	5183	1.0	759.0	35000	F704_759.0 S2 M2SB4	107	F704_759.0 P90 BN90S4	108
2.0	4882	1.6	714.9	45000	F804_714.9 S2 M2SB4	111	F804_714.9 P90 BN90S4	112
2.0	4875	2.9	714.0	55000	F904_714.0 S2 M2SB4	115	F904_714.0 P90 BN90S4	116
2.1	4489	1.1	657.4	35000	F704_657.4 S2 M2SB4	107	F704_657.4 P90 BN90S4	108
2.2	4272	3.3	625.6	55000	F904_625.6 S2 M2SB4	115	F904_625.6 P90 BN90S4	116
2.3	4171	1.9	610.9	45000	F804_610.9 S2 M2SB4	111	F804_610.9 P90 BN90S4	112
2.3	4143	1.2	606.8	35000	F704_606.8 S2 M2SB4	107	F704_606.8 P90 BN90S4	108
2.5	3850	2.1	563.9	45000	F804_563.9 S2 M2SB4	111	F804_563.9 P90 BN90S4	112
2.7	3485	1.4	510.4	35000	F704_510.4 S2 M2SB4	107	F704_510.4 P80 BN80C4	108
3.0	3217	1.6	471.2	35000	F704_471.2 S2 M2SB4	107	F704_471.2 P90 BN90S4	108
3.1	3083	2.6	451.5	45000	F804_451.5 S2 M2SB4	111	F804_451.5 P90 BN90S4	112
3.2	2954	1.0	432.6	20000	F604_432.6 S2 M2SB4	103	F604_432.6 P90 BN90S4	104
3.5	2755	1.8	403.5	35000	F704_403.5 S2 M2SB4	107	F704_403.5 P90 BN90S4	108
3.5	2727	1.1	399.3	20000	F604_399.3 S2 M2SB4	103	F604_399.3 P90 BN90S4	104
3.8	2544	2.0	372.5	35000	F704_372.5 S2 M2SB4	107	F704_372.5 P90 BN90S4	108
4.1	2333	1.2	341.7	20000	F604_341.7 S2 M2SB4	103	F604_341.7 P90 BN90S4	104
4.4	2154	1.3	315.4	20000	F604_315.4 S2 M2SB4	103	F604_315.4 P90 BN90S4	104
4.6	2078	2.4	304.3	35000	F704_304.3 S2 M2SB4	107	F704_304.3 P90 BN90S4	108
5.0	1918	2.6	280.9	35000	F704_280.9 S2 M2SB4	107	F704_280.9 P90 BN90S4	108
5.0	1959	1.5	280.7	20000	F603_280.7 S2 M2SB4	103	F603_280.7 P90 BN90S4	104
5.4	1808	1.6	259.1	20000	F603_259.1 S2 M2SB4	103	F603_259.1 P90 BN90S4	104
5.8	1674	1.0	239.8	12000	F503_239.8 S2 M2SB4	99	F503_239.8 P90 BN90S4	100
5.9	1645	1.8	235.8	20000	F603_235.8 S2 M2SB4	103	F603_235.8 P90 BN90S4	104
6.0	1602	3.1	234.6	35000	F704_234.6 S2 M2SB4	107	F704_234.6 P90 BN90S4	108
6.4	1519	1.9	217.6	20000	F603_217.6 S2 M2SB4	103	F603_217.6 P90 BN90S4	104
6.5	1478	3.4	216.5	35000	F704_216.5 S2 M2SB4	107	F704_216.5 P90 BN90S4	108
6.9	1412	1.1	202.4	12000	F503_202.4 S2 M2SB4	99	F503_202.4 P90 BN90S4	100
7.5	1297	2.2	185.9	20000	F603_185.9 S2 M2SB4	103	F603_185.9 P90 BN90S4	104
8.5	1156	1.4	165.6	12000	F503_165.6 S2 M2SB4	99	F503_165.6 P90 BN90S4	100
8.6	1137	2.6	162.9	20000	F603_162.9 S2 M2SB4	103	F603_162.9 P90 BN90S4	104
10.4	938	1.0	134.4	8500	F403_134.4 S2 M2SB4	95	F403_134.4 P90 BN90S4	96
10.7	911	3.2	130.5	20000	F603_130.5 S2 M2SB4	103	F603_130.5 P90 BN90S4	104
10.8	907	1.8	129.9	12000	F503_129.9 S2 M2SB4	99	F503_129.9 P90 BN90S4	100
13.2	740	1.3	106.0	8500	F403_106.0 S2 M2SB4	95	F403_106.0 P90 BN90S4	96
13.3	733	2.2	105.1	12000	F503_105.1 S2 M2SB4	99	F503_105.1 P90 BN90S4	100
16.0	610	0.9	87.4	6500	F303_87.4 S2 M2SB4	91	F303_87.4 P90 BN90S4	92
16.5	592	1.6	84.9	8500	F403_84.9 S2 M2SB4	95	F403_84.9 P90 BN90S4	96
16.8	581	2.8	83.2	12000	F503_83.2 S2 M2SB4	99	F503_83.2 P90 BN90S4	100
17.7	553	1.0	52.1	6500	F303_52.1 S3 M3SA6	91	F303_52.1 P90 BN90L6	92
20.3	482	1.1	69.1	6500	F303_69.1 S2 M2SB4	91	F303_69.1 P90 BN90S4	92
21.1	464	2.0	66.5	8500	F403_66.5 S2 M2SB4	95	F403_66.5 P90 BN90S4	96
21.3	459	3.5	65.8	12000	F503_65.8 S2 M2SB4	99	F503_65.8 P90 BN90S4	100
26.3	380	0.9	35.0	6500	F302_35.0 S3 M3SA6	91	F302_35.0 P90 BN90L6	92
26.9	364	1.4	52.1	6500	F303_52.1 S2 M2SB4	91	F303_52.1 P90 BN90S4	92
27.2	359	2.4	51.5	8500	F403_51.5 S2 M2SB4	95	F403_51.5 P90 BN90S4	96
32	313	1.2	28.9	6500	F302_28.9 S3 M3SA6	91	F302_28.9 P90 BN90L6	92
35	280	1.7	40.2	6500	F303_40.2 S2 M2SB4	91	F303_40.2 P90 BN90S4	92
37	265	2.8	37.9	8500	F403_37.9 S2 M2SB4	95	F403_37.9 P90 BN90S4	96
40	250	1.4	35.0	6500	F302_35.0 S2 M2SB4	91	F302_35.0 P90 BN90S4	92
42	236	1.1	33.1	2980	F202_33.1 S2 M2SB4	87	F202_33.1 P90 BN90S4	88
46	219	1.1	20.2	2940	F202_20.2 S3 M3SA6	87	F202_20.2 P90 BN90L6	88
47	213	3.0	29.9	8500	F402_29.9 S2 M2SB4	95	F402_29.9 P90 BN90S4	96
49	206	1.8	28.9	6500	F302_28.9 S2 M2SB4	91	F302_28.9 P90 BN90S4	92
54	185	1.3	25.9	2840	F202_25.9 S2 M2SB4	87	F202_25.9 P90 BN90S4	88

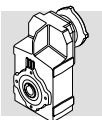


## 1.1 kW

$n_2$ min <sup>-1</sup>	$M_2$ Nm	S	i	$R_{n2}$ N				
57	174	2.2	24.4	6500	F302_24.4 S2 M2SB4	91	F302_24.4 P90 BN90S4	92
62	161	1.4	14.8	2760	F202_14.8 S3 M3SA6	87	F202_14.8 P90 BN90L6	88
69	144	1.6	20.2	2690	F202_20.2 S2 M2SB4	87	F202_20.2 P90 BN90S4	88
71	141	1.0	39.6	2180	F102_39.6 S2 M2SA2	83	F102_39.6 P80 BN80B2	84
72	139	2.7	19.5	6370	F302_19.5 S2 M2SB4	91	F302_19.5 P90 BN90S4	92
72	138	1.0	19.3	2170	F102_19.3 S2 M2SB4	83	F102_19.3 P90 BN90S4	84
82	122	1.7	11.2	2570	F202_11.2 S3 M3SA6	87	F202_11.2 P90 BN90L6	88
93	108	3.5	15.1	5930	F302_15.1 S2 M2SB4	91	F302_15.1 P90 BN90S4	92
95	105	1.9	14.8	2500	F202_14.8 S2 M2SB4	87	F202_14.8 P90 BN90S4	88
96	104	1.1	14.6	2050	F102_14.6 S2 M2SB4	83	F102_14.6 P90 BN90S4	84
107	93	1.1	13.0	1980	F102_13.0 S2 M2SB4	83	F102_13.0 P90 BN90S4	84
108	92	2.1	25.9	2420	F202_25.9 S2 M2SA2	87	F202_25.9 P80 BN80B2	88
124	80	1.1	7.4	1910	F102_7.4 S3 M3SA6	83	F102_7.4 P90 BN90L6	84
125	80	2.2	11.2	2310	F202_11.2 S2 M2SB4	87	F202_11.2 P90 BN90S4	88
139	72	2.5	20.2	2260	F202_20.2 S2 M2SA2	87	F202_20.2 P80 BN80B2	88
143	70	1.3	9.8	1840	F102_9.8 S2 M2SB4	83	F102_9.8 P90 BN90S4	84
160	62	2.5	8.7	2160	F202_8.7 S2 M2SB4	87	F202_8.7 P90 BN90S4	88
189	53	1.4	7.4	1720	F102_7.4 S2 M2SB4	83	F102_7.4 P90 BN90S4	84
189	53	3.1	14.8	2070	F202_14.8 S2 M2SA2	87	F202_14.8 P80 BN80B2	88
215	46	1.8	13.0	1660	F102_13.0 S2 M2SA2	83	F102_13.0 P80 BN80B2	84
218	46	2.8	6.4	1980	F202_6.4 S2 M2SB4	87	F202_6.4 P90 BN90S4	88
249	40	3.5	11.2	1910	F202_11.2 S2 M2SA2	87	F202_11.2 P80 BN80B2	88
287	35	2.1	9.8	1530	F102_9.8 S2 M2SA2	83	F102_9.8 P80 BN80B2	84
378	26	2.4	7.4	1410	F102_7.4 S2 M2SA2	83	F102_7.4 P80 BN80B2	84

## 1.5 kW

0.73	17908	0.8	1937	55000	F904_1937 S3 M3SA4	115	F904_1937 P90 BN90LA4	116
0.83	15735	0.9	1702	55000	F904_1702 S3 M3SA4	115	F904_1702 P90 BN90LA4	116
0.90	14524	1.0	1571	55000	F904_1571 S3 M3SA4	115	F904_1571 P90 BN90LA4	116
1.1	12185	1.1	1318	55000	F904_1318 S3 M3SA4	115	F904_1318 P90 BN90LA4	116
1.2	11140	1.3	1205	55000	F904_1205 S3 M3SA4	115	F904_1205 P90 BN90LA4	116
1.3	10281	1.4	1112	55000	F904_1112 S3 M3SA4	115	F904_1112 P90 BN90LA4	116
1.4	9116	1.5	986.0	55000	F904_986.0 S3 M3SA4	115	F904_986.0 P90 BN90LA4	116
1.5	8986	0.9	972.0	45000	F804_972.0 S3 M3SA4	111	F804_972.0 P90 BN90LA4	112
1.5	8415	1.7	910.2	55000	F904_910.2 S3 M3SA4	115	F904_910.2 P90 BN90LA4	116
1.6	8296	1.0	897.3	45000	F804_897.3 S3 M3SA4	111	F804_897.3 P90 BN90LA4	112
1.8	7159	1.1	774.4	45000	F804_774.4 S3 M3SA4	111	F804_774.4 P90 BN90LA4	112
1.8	7150	2.0	773.4	55000	F904_773.4 S3 M3SA4	115	F904_773.4 P90 BN90LA4	116
2.0	6609	1.2	714.9	45000	F804_714.9 S3 M3SA4	111	F804_714.9 P90 BN90LA4	112
2.0	6601	2.1	714.0	55000	F904_714.0 S3 M3SA4	115	F904_714.0 P90 BN90LA4	116
2.3	5784	2.4	625.6	55000	F904_625.6 S3 M3SA4	115	F904_625.6 P90 BN90LA4	116
2.3	5648	1.4	610.9	45000	F804_610.9 S3 M3SA4	111	F804_610.9 P90 BN90LA4	112
2.5	5213	1.5	563.9	45000	F804_563.9 S3 M3SA4	111	F804_563.9 P90 BN90LA4	112
2.8	4719	1.1	510.4	35000	F704_510.4 S3 M3SA4	107	F704_510.4 P90 BN90LA4	108
2.8	4582	3.1	495.6	55000	F904_495.6 S3 M3SA4	115	F904_495.6 P90 BN90LA4	116
2.9	4522	1.8	489.1	45000	F804_489.1 S3 M3SA4	111	F804_489.1 P90 BN90LA4	112
3.0	4356	1.1	471.2	35000	F704_471.2 S3 M3SA4	107	F704_471.2 P90 BN90LA4	108
3.1	4230	3.3	457.5	55000	F904_457.5 S3 M3SA4	115	F904_457.5 P90 BN90LA4	116
3.1	4174	1.9	451.5	45000	F804_451.5 S3 M3SA4	111	F804_451.5 P90 BN90LA4	112
3.5	3730	1.3	403.5	35000	F704_403.5 S3 M3SA4	107	F704_403.5 P90 BN90LA4	108
3.7	3543	2.3	383.2	45000	F804_383.2 S3 M3SA4	111	F804_383.2 P90 BN90LA4	112
3.8	3444	1.5	372.5	35000	F704_372.5 S3 M3SA4	107	F704_372.5 P90 BN90LA4	108
4.0	3270	2.4	353.7	45000	F804_353.7 S3 M3SA4	111	F804_353.7 P90 BN90LA4	112
4.1	3159	0.9	341.7	20000	F604_341.7 S3 M3SA4	103	F604_341.7 P90 BN90LA4	104
4.5	2916	1.0	315.4	20000	F604_315.4 S3 M3SA4	103	F604_315.4 P90 BN90LA4	104
4.6	2813	1.8	304.3	35000	F704_304.3 S3 M3SA4	107	F704_304.3 P90 BN90LA4	108
4.8	2743	2.9	296.7	45000	F804_296.7 S3 M3SA4	111	F804_296.7 P90 BN90LA4	112
5.0	2597	1.9	280.9	35000	F704_280.9 S3 M3SA4	107	F704_280.9 P90 BN90LA4	108
5.0	2652	1.1	280.7	20000	F603_280.7 S3 M3SA4	103	F603_280.7 P90 BN90LA4	104
5.1	2532	3.2	273.9	45000	F804_273.9 S3 M3SA4	111	F804_273.9 P90 BN90LA4	112
5.4	2448	1.2	259.1	20000	F603_259.1 S3 M3SA4	103	F603_259.1 P90 BN90LA4	104
6.0	2228	1.3	235.8	20000	F603_235.8 S3 M3SA4	103	F603_235.8 P90 BN90LA4	104
6.0	2169	2.3	234.6	35000	F704_234.6 S3 M3SA4	107	F704_234.6 P90 BN90LA4	108
6.5	2056	1.4	217.6	20000	F603_217.6 S3 M3SA4	103	F603_217.6 P90 BN90LA4	104
6.5	2002	2.5	216.5	35000	F704_216.5 S3 M3SA4	107	F704_216.5 P90 BN90LA4	108
7.0	1903	1.5	201.4	20000	F603_201.4 S3 M3SA4	103	F603_201.4 P90 BN90LA4	104

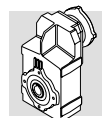


## 1.5 kW



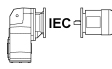

$n_2$ min <sup>-1</sup>	$M_2$ Nm	S	i	$R_{n2}$ N				
7.2	1852	2.7	196.0	35000	F703_196.0 S3 M3SA4	103	F703_196.0 P90 BN90LA4	108
7.6	1756	1.7	185.9	20000	F603_185.9 S3 M3SA4	103	F603_185.9 P90 BN90LA4	104
7.8	1710	2.9	180.9	35000	F703_180.9 S3 M3SA4	103	F703_180.9 P90 BN90LA4	108
8.5	1575	3.2	166.7	35000	F703_166.7 S3 M3SA4	103	F703_166.7 P90 BN90LA4	108
8.5	1565	1.0	165.6	12000	F503_165.6 S3 M3SA4	99	F503_165.6 P90 BN90LA4	100
8.7	1539	1.9	162.9	20000	F603_162.9 S3 M3SA4	103	F603_162.9 P90 BN90LA4	104
10.8	1233	2.4	130.5	20000	F603_130.5 S3 M3SA4	103	F603_130.5 P90 BN90LA4	104
10.9	1227	1.3	129.9	12000	F503_129.9 S3 M3SA4	99	F503_129.9 P90 BN90LA4	100
13.3	1005	2.9	106.4	20000	F603_106.4 S3 M3SA4	103	F603_106.4 P90 BN90LA4	104
13.3	1002	0.9	106.0	8500	F403_106.0 S3 M3SA4	95	F403_106.0 P90 BN90LA4	96
13.4	993	1.6	105.1	12000	F503_105.1 S3 M3SA4	99	F503_105.1 P90 BN90LA4	100
16.6	802	1.2	84.9	8500	F403_84.9 S3 M3SA4	95	F403_84.9 P90 BN90LA4	96
16.9	786	2.0	83.2	12000	F503_83.2 S3 M3SA4	99	F503_83.2 P90 BN90LA4	100
21.2	628	1.5	66.5	8500	F403_66.5 S3 M3SA4	95	F403_66.5 P90 BN90LA4	96
21.4	622	2.6	65.8	12000	F503_65.8 S3 M3SA4	99	F503_65.8 P90 BN90LA4	100
27.1	492	1.0	52.1	6500	F303_52.1 S3 M3SA4	91	F303_52.1 P90 BN90LA4	92
27.4	487	1.8	51.5	8500	F403_51.5 S3 M3SA4	95	F403_51.5 P90 BN90LA4	96
28.8	462	2.9	48.9	12000	F503_48.9 S3 M3SA4	99	F503_48.9 P90 BN90LA4	100
35	379	1.2	40.2	6500	F303_40.2 S3 M3SA4	91	F303_40.2 P90 BN90LA4	92
36	367	3.3	38.9	12000	F503_38.9 S3 M3SA4	99	F503_38.9 P90 BN90LA4	100
37	358	2.1	37.9	8500	F403_37.9 S3 M3SA4	95	F403_37.9 P90 BN90LA4	96
40	341	1.7	35.3	8500	F402_35.3 S3 M3SA4	95	F402_35.3 P90 BN90LA4	96
40	338	1.1	35.0	6500	F302_35.0 S3 M3SA4	91	F302_35.0 P90 BN90LA4	92
46	296	3.0	30.7	11900	F502_30.7 S3 M3SA4	99	F502_30.7 P90 BN90LA4	100
47	289	2.2	29.9	8500	F402_29.9 S3 M3SA4	95	F402_29.9 P90 BN90LA4	96
49	279	1.4	28.9	6500	F302_28.9 S3 M3SA4	91	F302_28.9 P90 BN90LA4	92
54	250	1.0	25.9	2640	F202_25.9 S3 M3SA4	87	F202_25.9 P90 BN90LA4	88
58	235	1.6	24.4	6500	F302_24.4 S3 M3SA4	91	F302_24.4 P90 BN90LA4	92
59	230	3.0	23.8	8500	F402_23.8 S3 M3SA4	95	F402_23.8 P90 BN90LA4	96
64	214	1.1	14.8	2580	F202_14.8 S3 M3LA6	87	F202_14.8 P100 BN100LA6	88
70	195	1.1	20.2	2530	F202_20.2 S3 M3SA4	87	F202_20.2 P90 BN90LA4	88
72	188	2.0	19.5	6160	F302_19.5 S3 M3SA4	91	F302_19.5 P90 BN90LA4	92
84	163	1.3	11.2	2420	F202_11.2 S3 M3LA6	87	F202_11.2 P100 BN100LA6	88
93	146	2.6	15.1	5770	F302_15.1 S3 M3SA4	91	F302_15.1 P90 BN90LA4	92
95	143	1.4	14.8	2380	F202_14.8 S3 M3SA4	87	F202_14.8 P90 BN90LA4	88
108	126	1.6	25.9	2320	F202_25.9 S2 M2SB2	87	F202_25.9 P90 BN90SA2	88
118	115	3.3	12.0	5410	F302_12.0 S3 M3SA4	91	F302_12.0 P90 BN90LA4	92
126	108	1.6	11.2	2220	F202_11.2 S3 M3SA4	87	F202_11.2 P90 BN90LA4	88
139	98	1.9	20.2	2180	F202_20.2 S2 M2SB2	87	F202_20.2 P90 BN90SA2	88
144	94	0.9	9.8	1760	F102_9.8 S3 M3SA4	83	F102_9.8 P90 BN90LA4	84
161	84	1.8	8.7	2090	F202_8.7 S3 M3SA4	87	F202_8.7 P90 BN90LA4	88
189	72	2.3	14.8	2020	F202_14.8 S2 M2SB2	87	F202_14.8 P90 BN90SA2	88
190	71	1.1	7.4	1650	F102_7.4 S3 M3SA4	83	F102_7.4 P90 BN90LA4	84
215	63	1.3	13.0	1600	F102_13.0 S2 M2SB2	83	F102_13.0 P90 BN90SA2	84
220	62	2.1	6.4	1930	F202_6.4 S3 M3SA4	87	F202_6.4 P90 BN90LA4	88
249	55	2.6	11.2	1860	F202_11.2 S2 M2SB2	87	F202_11.2 P90 BN90SA2	88
287	47	1.5	9.8	1490	F102_9.8 S2 M2SB2	83	F102_9.8 P90 BN90SA2	84
321	42	2.9	8.7	1740	F202_8.7 S2 M2SB2	87	F202_8.7 P90 BN90SA2	88
378	36	1.8	7.4	1380	F102_7.4 S2 M2SB2	83	F102_7.4 P90 BN90SA2	84
437	31	3.3	6.4	1590	F202_6.4 S2 M2SB2	87	F202_6.4 P90 BN90SA2	88

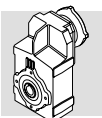
## 2.2 kW

1.2	16339	0.9	1205	55000	F904_1205 S3 M3LA4	115	F904_1205 P100 BN100LA4	116
1.3	15078	0.9	1112	55000	F904_1112 S3 M3LA4	115	F904_1112 P100 BN100LA4	116
1.4	13370	1.0	986.0	55000	F904_986.0 S3 M3LA4	115	F904_986.0 P100 BN100LA4	116
1.5	12342	1.1	910.2	55000	F904_910.2 S3 M3LA4	115	F904_910.2 P100 BN100LA4	116
1.8	10487	1.3	773.4	55000	F904_773.4 S3 M3LA4	115	F904_773.4 P100 BN100LA4	116
2.0	9682	1.4	714.0	55000	F904_714.0 S3 M3LA4	115	F904_714.0 P100 BN100LA4	116
2.3	8483	1.7	625.6	55000	F904_625.6 S3 M3LA4	115	F904_625.6 P100 BN100LA4	116
2.3	8284	1.0	610.9	45000	F804_610.9 S3 M3LA4	111	F804_610.9 P100 BN100LA4	112
2.8	6720	2.1	495.6	55000	F904_495.6 S3 M3LA4	115	F904_495.6 P100 BN100LA4	116
2.9	6632	1.2	489.1	45000	F804_489.1 S3 M3LA4	111	F804_489.1 P100 BN100LA4	112
3.1	6122	1.3	451.5	45000	F804_451.5 S3 M3LA4	111	F804_451.5 P100 BN100LA4	112
3.5	5471	0.9	403.5	35000	F704_403.5 S3 M3LA4	107	F704_403.5 P100 BN100LA4	108
3.6	5315	2.6	392.0	55000	F904_392.0 S3 M3LA4	115	F904_392.0 P100 BN100LA4	116
3.7	5196	1.5	383.2	45000	F804_383.2 S3 M3LA4	111	F804_383.2 P100 BN100LA4	112
3.8	5051	1.0	372.5	35000	F704_372.5 S3 M3LA4	107	F704_372.5 P100 BN100LA4	108



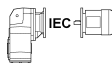



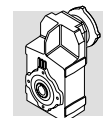
## 2.2 kW

$n_2$ min <sup>-1</sup>	$M_2$ Nm	S	i	$R_{n2}$ N				
3.9	4906	2.9	361.8	55000	F904_361.8 S3 M3LA4	115	F904_361.8 P100 BN100LA4	116
4.0	4796	1.7	353.7	45000	F804_353.7 S3 M3LA4	111	F804_353.7 P100 BN100LA4	112
4.6	4126	1.2	304.3	35000	F704_304.3 S3 M3LA4	107	F704_304.3 P100 BN100LA4	108
4.8	4023	2.0	296.7	45000	F804_296.7 S3 M3LA4	111	F804_296.7 P100 BN100LA4	112
4.8	3947	3.5	291.1	55000	F904_291.1 S3 M3LA4	115	F904_291.1 P100 BN100LA4	116
5.0	3809	1.3	280.9	35000	F704_280.9 S3 M3LA4	107	F704_280.9 P100 BN100LA4	108
5.1	3714	2.2	273.9	45000	F804_273.9 S3 M3LA4	111	F804_273.9 P100 BN100LA4	112
6.0	3181	1.6	234.6	35000	F704_234.6 S3 M3LA4	107	F704_234.6 P100 BN100LA4	108
6.5	2963	2.7	218.5	45000	F804_218.5 S3 M3LA4	111	F804_218.5 P100 BN100LA4	112
6.5	3016	1.0	217.6	20000	F603_217.6 S3 M3LA4	103	F603_217.6 P100 BN100LA4	104
6.5	2936	1.7	216.5	35000	F704_216.5 S3 M3LA4	107	F704_216.5 P100 BN100LA4	108
7.1	2772	2.9	200.0	45000	F803_200.0 P100 BN100LA4	112	F803_200.0 P100 BN100LA4	112
7.2	2716	1.8	196.0	35000	F703_196.0 P100 BN100LA4	108	F703_196.0 P100 BN100LA4	108
7.6	2576	1.1	185.9	20000	F603_185.9 S3 M3LA4	103	F603_185.9 P100 BN100LA4	104
7.6	2558	3.1	184.6	45000	F803_184.6 P100 BN100LA4	112	F803_184.6 P100 BN100LA4	112
7.8	2507	2.0	180.9	35000	F703_180.9 S3 M3LA4	103	F703_180.9 P100 BN100LA4	108
8.5	2310	2.2	166.7	35000	F703_166.7 S3 M3LA4	103	F703_166.7 P100 BN100LA4	108
8.7	2257	1.3	162.9	20000	F603_162.9 S3 M3LA4	103	F603_162.9 P100 BN100LA4	104
9.2	2132	2.3	153.8	35000	F703_153.8 S3 M3LA4	103	F703_153.8 P100 BN100LA4	108
9.4	2084	1.4	150.4	20000	F603_150.4 S3 M3LA4	103	F603_150.4 P100 BN100LA4	104
10.6	1842	2.7	133.0	35000	F703_133.0 S3 M3LA4	103	F703_133.0 P100 BN100LA4	108
10.8	1808	1.6	130.5	20000	F603_130.5 S3 M3LA4	103	F603_130.5 P100 BN100LA4	104
11.5	1701	2.9	122.7	35000	F703_122.7 S3 M3LA4	103	F703_122.7 P100 BN100LA4	108
11.7	1669	1.7	120.5	20000	F603_120.5 S3 M3LA4	103	F603_120.5 P100 BN100LA4	104
12.9	1519	3.3	109.6	35000	F703_109.6 S3 M3LA4	103	F703_109.6 P100 BN100LA4	108
13.3	1474	2.0	106.4	20000	F603_106.4 S3 M3LA4	103	F603_106.4 P100 BN100LA4	104
13.4	1456	1.1	105.1	12000	F503_105.1 S3 M3LA4	99	F503_105.1 P100 BN100LA4	100
14.4	1361	2.1	98.2	20000	F603_98.2 S3 M3LA4	103	F603_98.2 P100 BN100LA4	104
16.8	1164	2.5	84.0	20000	F603_84.0 S3 M3LA4	103	F603_84.0 P100 BN100LA4	104
16.9	1154	1.4	83.2	12000	F503_83.2 S3 M3LA4	99	F503_83.2 P100 BN100LA4	100
18.2	1075	2.7	77.6	20000	F603_77.6 S3 M3LA4	103	F603_77.6 P100 BN100LA4	104
20.7	946	3.1	68.3	20000	F603_68.3 S3 M3LA4	103	F603_68.3 P100 BN100LA4	104
21.2	921	1.0	66.5	8500	F403_66.5 S3 M3LA4	95	F403_66.5 P100 BN100LA4	96
21.4	912	1.6	65.8	12000	F503_65.8 S3 M3LA4	99	F503_65.8 P100 BN100LA4	100
22.4	873	3.3	63.0	20000	F603_63.0 S3 M3LA4	103	F603_63.0 P100 BN100LA4	104
27.4	714	1.2	51.5	8500	F403_51.5 S3 M3LA4	95	F403_51.5 P100 BN100LA4	96
28.8	678	2.0	48.9	12000	F503_48.9 S3 M3LA4	99	F503_48.9 P100 BN100LA4	100
36	539	2.3	38.9	12000	F503_38.9 S3 M3LA4	99	F503_38.9 P100 BN100LA4	100
40	500	1.2	35.3	8500	F402_35.3 S3 M3LA4	95	F402_35.3 P100 BN100LA4	96
46	434	2.1	30.7	11500	F502_30.7 S3 M3LA4	99	F502_30.7 P100 BN100LA4	100
47	424	1.5	29.9	8500	F402_29.9 S3 M3LA4	95	F402_29.9 P100 BN100LA4	96
49	409	0.9	28.9	6230	F302_28.9 S3 M3LA4	91	F302_28.9 P100 BN100LA4	92
58	345	1.1	24.4	6060	F302_24.4 S3 M3LA4	91	F302_24.4 P100 BN100LA4	92
59	340	2.9	24.0	10800	F502_24.0 S3 M3LA4	99	F502_24.0 P100 BN100LA4	100
59	338	2.1	23.8	8390	F402_23.8 S3 M3LA4	95	F402_23.8 P100 BN100LA4	96
72	276	1.4	19.5	5800	F302_19.5 S3 M3LA4	91	F302_19.5 P100 BN100LA4	92
72	275	3.6	19.5	10200	F502_19.5 S3 M3LA4	99	F502_19.5 P100 BN100LA4	100
75	266	2.6	18.8	7910	F402_18.8 S3 M3LA4	95	F402_18.8 P100 BN100LA4	96
93	214	1.8	15.1	5490	F302_15.1 S3 M3LA4	91	F302_15.1 P100 BN100LA4	92
94	213	3.3	15.1	7460	F402_15.1 S3 M3LA4	95	F402_15.1 P100 BN100LA4	96
95	209	1.0	14.8	2190	F202_14.8 S3 M3LA4	87	F202_14.8 P100 BN100LA4	88
118	169	2.2	12.0	5190	F302_12.0 S3 M3LA4	91	F302_12.0 P100 BN100LA4	92
126	159	1.1	11.2	2060	F202_11.2 S3 M3LA4	87	F202_11.2 P100 BN100LA4	88
139	143	1.3	20.2	2050	F202_20.2 S3 M3SA2	87	F202_20.2 P90 BN90L2	88
156	128	3.0	9.0	4830	F302_9.0 S3 M3LA4	91	F302_9.0 P100 BN100LA4	92
161	124	1.3	8.7	1960	F202_8.7 S3 M3LA4	87	F202_8.7 P100 BN100LA4	88
190	105	1.6	14.8	1920	F202_14.8 S3 M3SA2	87	F202_14.8 P90 BN90L2	88
192	104	0.9	14.6	1550	F102_14.6 S3 M3SA2	83	F102_14.6 P90 BN90L2	84
216	93	0.9	13.0	1500	F102_13.0 S3 M3SA2	83	F102_13.0 P90 BN90L2	84
220	91	1.4	6.4	1840	F202_6.4 S3 M3LA4	87	F202_6.4 P100 BN100LA4	88
250	80	1.8	11.2	1780	F202_11.2 S3 M3SA2	87	F202_11.2 P90 BN90L2	88
288	69	1.1	9.8	1410	F102_9.8 S3 M3SA2	83	F102_9.8 P90 BN90L2	84
322	62	2.0	8.7	1670	F202_8.7 S3 M3SA2	87	F202_8.7 P90 BN90L2	88
380	53	1.2	7.4	1330	F102_7.4 S3 M3SA2	83	F102_7.4 P90 BN90L2	84



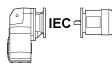



### 3 kW

$n_2$ min <sup>-1</sup>	$M_2$ Nm	S	i	$R_{n2}$ N				
1.8	14300	1.0	773.4	55000	F904_773.4 S3 M3LB4	115	F904_773.4 P100 BN100LB4	116
2.0	13202	1.1	714.0	55000	F904_714.0 S3 M3LB4	115	F904_714.0 P100 BN100LB4	116
2.3	11568	1.2	625.6	55000	F904_625.6 S3 M3LB4	115	F904_625.6 P100 BN100LB4	116
2.4	10678	1.3	577.5	55000	F904_577.5 S3 M3LB4	115	F904_577.5 P100 BN100LB4	116
2.8	9164	1.5	495.6	55000	F904_495.6 S3 M3LB4	115	F904_495.6 P100 BN100LB4	116
2.9	9044	0.9	489.1	45000	F804_489.1 S3 M3LB4	111	F804_489.1 P100 BN100LB4	112
3.1	8459	1.7	457.5	55000	F904_457.5 S3 M3LB4	115	F904_457.5 P100 BN100LB4	116
3.1	8348	1.0	451.5	45000	F804_451.5 S3 M3LB4	111	F804_451.5 P100 BN100LB4	112
3.6	7248	1.9	392.0	55000	F904_392.0 S3 M3LB4	115	F904_392.0 P100 BN100LB4	116
3.7	7086	1.1	383.2	45000	F804_383.2 S3 M3LB4	111	F804_383.2 P100 BN100LB4	112
3.9	6690	2.1	361.8	55000	F904_361.8 S3 M3LB4	115	F904_361.8 P100 BN100LB4	116
4.0	6540	1.2	353.7	45000	F804_353.7 S3 M3LB4	111	F804_353.7 P100 BN100LB4	112
4.6	5627	0.9	304.3	35000	F704_304.3 S3 M3LB4	107	F704_304.3 P100 BN100LB4	108
4.8	5486	1.5	296.7	45000	F804_296.7 S3 M3LB4	111	F804_296.7 P100 BN100LB4	112
4.8	5383	2.6	291.1	55000	F904_291.1 S3 M3LB4	115	F904_291.1 P100 BN100LB4	116
5.0	5194	1.0	280.9	35000	F704_280.9 S3 M3LB4	107	F704_280.9 P100 BN100LB4	108
5.1	5065	1.6	273.9	45000	F804_273.9 S3 M3LB4	111	F804_273.9 P100 BN100LB4	112
6.0	4338	1.2	234.6	35000	F704_234.6 S3 M3LB4	107	F704_234.6 P100 BN100LB4	108
6.1	4279	3.3	231.4	55000	F904_231.4 S3 M3LB4	115	F904_231.4 P100 BN100LB4	116
6.1	4361	1.1	153.8	35000	F703_153.8 S4 M4SA6	103	F703_153.8 P132 BN132S6	108
6.5	4040	2.0	218.5	45000	F804_218.5 S3 M3LB4	111	F804_218.5 P100 BN100LB4	112
6.5	4003	1.2	216.5	35000	F704_216.5 S3 M3LB4	107	F704_216.5 P100 BN100LB4	108
7.1	3779	2.1	200.0	45000	F803_200.0 P100 BN100LB4	112	F803_200.0 P100 BN100LB4	112
7.2	3704	1.3	196.0	35000	F703_196.0 S3 M3LB4	103	F703_196.0 P100 BN100LB4	108
7.6	3489	2.3	184.6	45000	F803_184.6 P100 BN100LB4	112	F803_184.6 P100 BN100LB4	112
7.8	3419	1.5	180.9	35000	F703_180.9 S3 M3LB4	103	F703_180.9 P100 BN100LB4	108
8.5	3149	1.6	166.7	35000	F703_166.7 S3 M3LB4	103	F703_166.7 P100 BN100LB4	108
8.7	3078	0.9	162.9	20000	F603_162.9 S3 M3LB4	103	F603_162.9 P100 BN100LB4	104
8.8	3028	2.6	160.2	45000	F803_160.2 P100 BN100LB4	112	F803_160.2 P100 BN100LB4	112
9.2	2907	1.7	153.8	35000	F703_153.8 S3 M3LB4	103	F703_153.8 P100 BN100LB4	108
9.4	2841	1.0	150.4	20000	F603_150.4 S3 M3LB4	103	F603_150.4 P100 BN100LB4	104
9.5	2795	2.9	147.9	45000	F803_147.9 P100 BN100LB4	112	F803_147.9 P100 BN100LB4	112
10.6	2512	2.0	133.0	35000	F703_133.0 S3 M3LB4	103	F703_133.0 P100 BN100LB4	108
10.6	2507	3.2	132.7	45000	F803_132.7 P100 BN100LB4	112	F803_132.7 P100 BN100LB4	112
10.8	2466	1.2	130.5	20000	F603_130.5 S3 M3LB4	103	F603_130.5 P100 BN100LB4	104
11.5	2319	2.2	122.7	35000	F703_122.7 S3 M3LB4	103	F703_122.7 P100 BN100LB4	108
11.5	2315	3.5	122.5	45000	F803_122.5 P100 BN100LB4	112	F803_122.5 P100 BN100LB4	112
11.7	2276	1.3	120.5	20000	F603_120.5 S3 M3LB4	103	F603_120.5 P100 BN100LB4	104
12.9	2071	2.4	109.6	35000	F703_109.6 S3 M3LB4	103	F703_109.6 P100 BN100LB4	108
13.3	2010	1.4	106.4	20000	F603_106.4 S3 M3LB4	103	F603_106.4 P100 BN100LB4	104
13.9	1912	2.6	101.2	35000	F703_101.2 S3 M3LB4	103	F703_101.2 P100 BN100LB4	108
14.4	1856	1.6	98.2	20000	F603_98.2 S3 M3LB4	103	F603_98.2 P100 BN100LB4	104
16.5	1613	3.1	85.4	35000	F703_85.4 S3 M3LB4	103	F703_85.4 P100 BN100LB4	108
16.8	1588	1.8	84.0	20000	F603_84.0 S3 M3LB4	103	F603_84.0 P100 BN100LB4	104
16.9	1573	1.0	83.2	12000	F503_83.2 S3 M3LB4	99	F503_83.2 P100 BN100LB4	100
20.7	1290	2.2	68.3	20000	F603_68.3 S3 M3LB4	103	F603_68.3 P100 BN100LB4	104
21.4	1244	1.2	65.8	12000	F503_65.8 S3 M3LB4	99	F503_65.8 P100 BN100LB4	100
22.4	1191	2.4	63.0	20000	F603_63.0 S3 M3LB4	103	F603_63.0 P100 BN100LB4	104
27.2	979	3.0	51.8	20000	F603_51.8 S3 M3LB4	103	F603_51.8 P100 BN100LB4	104
28.8	924	1.5	48.9	12000	F503_48.9 S3 M3LB4	99	F503_48.9 P100 BN100LB4	100
36	734	1.6	38.9	11800	F503_38.9 S3 M3LB4	99	F503_38.9 P100 BN100LB4	100
37	717	1.0	37.9	8500	F403_37.9 S3 M3LB4	95	F403_37.9 P100 BN100LB4	96
46	592	1.5	30.7	11100	F502_30.7 S3 M3LB4	99	F502_30.7 P100 BN100LB4	100
47	578	1.1	29.9	8300	F402_29.9 S3 M3LB4	95	F402_29.9 P100 BN100LB4	96
59	464	2.2	24.0	10500	F502_24.0 S3 M3LB4	99	F502_24.0 P100 BN100LB4	100
59	460	1.5	23.8	7960	F402_23.8 S3 M3LB4	95	F402_23.8 P100 BN100LB4	96
72	376	1.0	19.5	5400	F302_19.5 S3 M3LB4	91	F302_19.5 P100 BN100LB4	92
72	375	2.7	19.5	9910	F502_19.5 S3 M3LB4	99	F502_19.5 P100 BN100LB4	100
75	363	1.9	18.8	7570	F402_18.8 S3 M3LB4	95	F402_18.8 P100 BN100LB4	96
82	333	1.1	35.0	5300	F302_35.0 S3 M3LA2	91	F302_35.0 P100 BN100L2	92
92	297	3.4	15.4	9300	F502_15.4 S3 M3LB4	99	F502_15.4 P100 BN100LB4	100
93	292	1.3	15.1	5180	F302_15.1 S3 M3LB4	91	F302_15.1 P100 BN100LB4	92
94	291	2.4	15.1	7190	F402_15.1 S3 M3LB4	95	F402_15.1 P100 BN100LB4	96
118	231	1.6	12.0	4940	F302_12.0 S3 M3LB4	91	F302_12.0 P100 BN100LB4	92
120	228	3.1	11.8	6770	F402_11.8 S3 M3LB4	95	F402_11.8 P100 BN100LB4	96
142	192	0.9	20.2	1890	F202_20.2 S3 M3LA2	87	F202_20.2 P100 BN100L2	88
147	185	2.1	19.5	4710	F302_19.5 S3 M3LA2	91	F302_19.5 P100 BN100L2	92



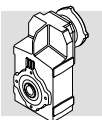
### 3 kW

$n_2$ min <sup>-1</sup>	$M_2$ Nm	S	i	$R_{n2}$ N				
156	174	2.2	9.0	4650	F302_9.0 S3 M3LB4	91	F302_9.0 P100 BN100LB4	92
161	169	0.9	8.7	1820	F202_8.7 S3 M3LB4	87	F202_8.7 P100 BN100LB4	88
193	141	1.2	14.8	1800	F202_14.8 S3 M3LA2	87	F202_14.8 P100 BN100L2	88
203	134	2.8	6.9	4360	F302_6.9 S3 M3LB4	91	F302_6.9 P100 BN100LB4	92
220	124	1.1	6.4	1730	F202_6.4 S3 M3LB4	87	F202_6.4 P100 BN100LB4	88
255	107	1.3	11.2	1680	F202_11.2 S3 M3LA2	87	F202_11.2 P100 BN100L2	88
328	83	1.5	8.7	1600	F202_8.7 S3 M3LA2	87	F202_8.7 P100 BN100L2	88
446	61	1.7	6.4	1480	F202_6.4 S3 M3LA2	87	F202_6.4 P100 BN100L2	88

### 4 kW

2.2	15645	0.9	625.6	55000	F904_625.6 S3 M3LC4	115	F904_625.6 P112 BN112M4	116
2.4	14442	1.0	577.5	55000	F904_577.5 S3 M3LC4	115	F904_577.5 P112 BN112M4	116
2.8	12394	1.1	495.6	55000	F904_495.6 S3 M3LC4	115	F904_495.6 P112 BN112M4	116
3.0	11441	1.2	457.5	55000	F904_457.5 S3 M3LC4	115	F904_457.5 P112 BN112M4	116
3.5	9803	1.4	392.0	55000	F904_392.0 S3 M3LC4	115	F904_392.0 P112 BN112M4	116
3.8	9048	1.5	361.8	55000	F904_361.8 S3 M3LC4	115	F904_361.8 P112 BN112M4	116
3.9	8846	0.9	353.7	45000	F804_353.7 S3 M3LC4	111	F804_353.7 P112 BN112M4	112
4.7	7420	1.1	296.7	45000	F804_296.7 S3 M3LC4	111	F804_296.7 P112 BN112M4	112
4.8	7280	1.9	291.1	55000	F904_291.1 S3 M3LC4	115	F904_291.1 P112 BN112M4	116
5.1	6850	1.2	273.9	45000	F804_273.9 S3 M3LC4	111	F804_273.9 P112 BN112M4	112
5.2	6720	2.1	268.7	55000	F904_268.7 S3 M3LC4	115	F904_268.7 P112 BN112M4	116
5.9	5867	0.9	234.6	35000	F704_234.6 S3 M3LC4	107	F704_234.6 P112 BN112M4	108
6.0	5787	2.4	231.4	55000	F904_231.4 S3 M3LC4	115	F904_231.4 P112 BN112M4	116
6.4	5464	1.5	218.5	45000	F804_218.5 S3 M3LC4	111	F804_218.5 P112 BN112M4	112
6.4	5414	0.9	216.5	35000	F704_216.5 S3 M3LC4	107	F704_216.5 P112 BN112M4	108
6.5	5342	2.6	213.6	55000	F904_213.6 S3 M3LC4	115	F904_213.6 P112 BN112M4	116
7.0	5112	1.6	200.0	45000	F803_200.0 P112 BN112M4	112	F803_200.0 P112 BN112M4	112
7.1	5010	1.0	196.0	35000	F703_196.0 S3 M3LC4	103	F703_196.0 P112 BN112M4	108
7.2	4962	2.8	194.2	55000	F903_194.2 P112 BN112M4	116	F903_194.2 P112 BN112M4	116
7.5	4718	1.7	184.6	45000	F803_184.6 P112 BN112M4	112	F803_184.6 P112 BN112M4	112
7.7	4625	1.1	180.9	35000	F703_180.9 S3 M3LC4	103	F703_180.9 P112 BN112M4	108
7.8	4581	3.1	179.2	55000	F903_179.2 P112 BN112M4	116	F903_179.2 P112 BN112M4	116
8.3	4260	1.2	166.7	35000	F703_166.7 S3 M3LC4	103	F703_166.7 P112 BN112M4	108
8.5	4162	3.4	162.8	55000	F903_162.8 P112 BN112M4	116	F903_162.8 P112 BN112M4	116
8.7	4095	2.0	160.2	45000	F803_160.2 P112 BN112M4	112	F803_160.2 P112 BN112M4	112
9.0	3932	1.3	153.8	35000	F703_153.8 S3 M3LC4	103	F703_153.8 P112 BN112M4	108
9.4	3780	2.1	147.9	45000	F803_147.9 P112 BN112M4	112	F803_147.9 P112 BN112M4	112
10.5	3398	1.5	133.0	35000	F703_133.0 S3 M3LC4	103	F703_133.0 P112 BN112M4	108
10.5	3391	2.4	132.7	45000	F803_132.7 P112 BN112M4	112	F803_132.7 P112 BN112M4	112
11.3	3137	1.6	122.7	35000	F703_122.7 S3 M3LC4	103	F703_122.7 P112 BN112M4	108
11.3	3131	2.6	122.5	45000	F803_122.5 P112 BN112M4	112	F803_122.5 P112 BN112M4	112
11.5	3079	0.9	120.5	20000	F603_120.5 S3 M3LC4	103	F603_120.5 P112 BN112M4	104
12.2	2907	2.8	113.8	45000	F803_113.8 P112 BN112M4	112	F803_113.8 P112 BN112M4	112
12.7	2802	1.8	109.6	35000	F703_109.6 S3 M3LC4	103	F703_109.6 P112 BN112M4	108
13.1	2719	1.1	106.4	20000	F603_106.4 S3 M3LC4	103	F603_106.4 P112 BN112M4	104
13.2	2684	3.0	105.0	45000	F803_105.0 P112 BN112M4	112	F803_105.0 P112 BN112M4	112
13.7	2586	1.9	101.2	35000	F703_101.2 S3 M3LC4	103	F703_101.2 P112 BN112M4	108
14.2	2510	1.2	98.2	20000	F603_98.2 S3 M3LC4	103	F603_98.2 P112 BN112M4	104
15.0	2364	2.1	92.5	35000	F703_92.5 S3 M3LC4	103	F703_92.5 P112 BN112M4	108
16.3	2182	2.3	85.4	35000	F703_85.4 S3 M3LC4	103	F703_85.4 P112 BN112M4	108
16.5	2147	1.4	84.0	20000	F603_84.0 S3 M3LC4	103	F603_84.0 P112 BN112M4	104
17.9	1982	1.5	77.6	20000	F603_77.6 S3 M3LC4	103	F603_77.6 P112 BN112M4	104
20.4	1745	1.7	68.3	20000	F603_68.3 S3 M3LC4	103	F603_68.3 P112 BN112M4	104
22.1	1611	1.8	63.0	20000	F603_63.0 S3 M3LC4	103	F603_63.0 P112 BN112M4	104
26.8	1325	2.2	51.8	20000	F603_51.8 S3 M3LC4	103	F603_51.8 P112 BN112M4	104
28.4	1250	1.1	48.9	11500	F503_48.9 S3 M3LC4	99	F503_48.9 P112 BN112M4	100
29.1	1223	2.4	47.8	20000	F603_47.8 S3 M3LC4	103	F603_47.8 P112 BN112M4	104
36	993	1.2	38.9	11100	F503_38.9 S3 M3LC4	99	F503_38.9 P112 BN112M4	100
36	993	2.9	38.8	20000	F603_38.8 S3 M3LC4	103	F603_38.8 P112 BN112M4	104
43	823	1.0	66.5	7740	F403_66.5 S3 M3LB2	95	F403_66.5 P112 BN112M2	96
45	800	1.1	30.7	10600	F502_30.7 S3 M3LC4	99	F502_30.7 P112 BN112M4	100
55	650	2.9	25.4	20000	F603_25.4 S3 M3LC4	103	F603_25.4 P112 BN112M4	104
58	628	1.6	24.0	10100	F502_24.0 S3 M3LC4	99	F502_24.0 P112 BN112M4	100
58	623	1.1	23.8	7430	F402_23.8 S3 M3LC4	95	F402_23.8 P112 BN112M4	96
59	600	3.2	23.5	20000	F603_23.5 S3 M3LC4	103	F603_23.5 P112 BN112M4	104



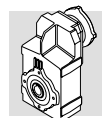


## 4 kW



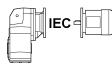

$n_2$ min <sup>-1</sup>	$M_2$ Nm	S	i	$R_{n2}$ N				
71	508	2.0	19.5	9600	F502_19.5 S3 M3LC4	99	F502_19.5 P112 BN112M4	100
74	491	1.4	18.8	7160	F402_18.8 S3 M3LC4	95	F402_18.8 P112 BN112M4	96
90	402	2.5	15.4	9070	F502_15.4 S3 M3LC4	99	F502_15.4 P112 BN112M4	100
92	395	1.0	15.1	4790	F302_15.1 S3 M3LC4	91	F302_15.1 P112 BN112M4	92
92	393	1.8	15.1	6870	F402_15.1 S3 M3LC4	95	F402_15.1 P112 BN112M4	96
114	318	3.1	12.2	8530	F502_12.2 S3 M3LC4	99	F502_12.2 P112 BN112M4	100
116	312	1.2	12.0	4640	F302_12.0 S3 M3LC4	91	F302_12.0 P112 BN112M4	92
118	308	2.3	11.8	6520	F402_11.8 S3 M3LC4	95	F402_11.8 P112 BN112M4	96
152	239	2.9	9.1	6150	F402_9.1 S3 M3LC4	95	F402_9.1 P112 BN112M4	96
154	235	1.6	9.0	4420	F302_9.0 S3 M3LC4	91	F302_9.0 P112 BN112M4	92
200	181	2.1	6.9	4200	F302_6.9 S3 M3LC4	91	F302_6.9 P112 BN112M4	92
207	176	3.4	6.7	5690	F402_6.7 S3 M3LC4	95	F402_6.7 P112 BN112M4	96
240	151	2.5	12.0	4030	F302_12.0 S3 M3LB2	91	F302_12.0 P112 BN112M2	92
255	142	1.0	11.2	1570	F202_11.2 S3 M3LB2	87	F202_11.2 P112 BN112M2	88
318	114	3.3	9.0	3760	F302_9.0 S3 M3LB2	91	F302_9.0 P112 BN112M2	92
329	110	1.1	8.7	1510	F202_8.7 S3 M3LB2	87	F202_8.7 P112 BN112M2	88
413	88	4.0	6.9	3510	F302_6.9 S3 M3LB2	91	F302_6.9 P112 BN112M2	92
448	81	1.3	6.4	1420	F202_6.4 S3 M3LB2	87	F202_6.4 P112 BN112M2	88

## 5.5 kW

2.9	16450	0.9	495.6	55000	F904_495.6 S4 M4SA4	115	F904_495.6 P132 BN132S4	116
3.1	15186	0.9	457.5	55000	F904_457.5 S4 M4SA4	115	F904_457.5 P132 BN132S4	116
3.7	13012	1.1	392.0	55000	F904_392.0 S4 M4SA4	115	F904_392.0 P132 BN132S4	116
4.0	12009	1.2	361.8	55000	F904_361.8 S4 M4SA4	115	F904_361.8 P132 BN132S4	116
4.9	9662	1.4	291.1	55000	F904_291.1 S4 M4SA4	115	F904_291.1 P132 BN132S4	116
5.3	9092	0.9	273.9	45000	F804_273.9 S4 M4SA4	111	F804_273.9 P132 BN132S4	112
5.4	8919	1.6	268.7	55000	F904_268.7 S4 M4SA4	115	F904_268.7 P132 BN132S4	116
6.2	7681	1.8	231.4	55000	F904_231.4 S4 M4SA4	115	F904_231.4 P132 BN132S4	116
6.6	7253	1.1	218.5	45000	F804_218.5 S4 M4SA4	111	F804_218.5 P132 BN132S4	112
6.7	7090	2.0	213.6	55000	F904_213.6 S4 M4SA4	115	F904_213.6 P132 BN132S4	116
7.2	6784	1.2	200.0	45000	F803_200.0 S4 M4SA4	111	F803_200.0 P132 BN132S4	112
7.4	6586	2.1	194.2	55000	F903_194.2 S4 M4SA4	115	F903_194.2 P132 BN132S4	116
7.8	6263	1.3	184.6	45000	F803_184.6 S4 M4SA4	111	F803_184.6 P132 BN132S4	112
8.0	6080	2.3	179.2	55000	F903_179.2 S4 M4SA4	115	F903_179.2 P132 BN132S4	116
8.8	5524	2.5	162.8	55000	F903_162.8 S4 M4SA4	115	F903_162.8 P132 BN132S4	116
9.0	5435	1.5	160.2	45000	F803_160.2 S4 M4SA4	111	F803_160.2 P132 BN132S4	112
9.4	5219	1.0	153.8	35000	F703_153.8 S4 M4SA4	103	F703_153.8 P132 BN132S4	108
9.6	5099	2.7	150.3	55000	F903_150.3 S4 M4SA4	115	F903_150.3 P132 BN132S4	116
9.7	5017	1.6	147.9	45000	F803_147.9 S4 M4SA4	111	F803_147.9 P132 BN132S4	112
10.5	4659	3.0	137.3	55000	F903_137.3 S4 M4SA4	115	F903_137.3 P132 BN132S4	116
10.8	4510	1.1	133.0	35000	F703_133.0 S4 M4SA4	103	F703_133.0 P132 BN132S4	108
10.9	4501	1.8	132.7	45000	F803_132.7 S4 M4SA4	111	F803_132.7 P132 BN132S4	112
11.4	4301	3.3	126.8	55000	F903_126.8 S4 M4SA4	115	F903_126.8 P132 BN132S4	116
11.7	4163	1.2	122.7	35000	F703_122.7 S4 M4SA4	103	F703_122.7 P132 BN132S4	108
11.8	4155	1.9	122.5	45000	F803_122.5 S4 M4SA4	111	F803_122.5 P132 BN132S4	112
12.7	3859	2.1	113.8	45000	F803_113.8 S4 M4SA4	111	F803_113.8 P132 BN132S4	112
13.1	3718	1.3	109.6	35000	F703_109.6 S4 M4SA4	103	F703_109.6 P132 BN132S4	108
13.7	3562	2.2	105.0	45000	F803_105.0 S4 M4SA4	111	F803_105.0 P132 BN132S4	112
14.2	3432	1.5	101.2	35000	F703_101.2 S4 M4SA4	103	F703_101.2 P132 BN132S4	108
15.6	3138	1.6	92.5	35000	F703_92.5 S4 M4SA4	103	F703_92.5 P132 BN132S4	108
15.6	3131	2.6	92.3	45000	F803_92.3 S4 M4SA4	111	F803_92.3 P132 BN132S4	112
16.9	2896	1.7	85.4	35000	F703_85.4 S4 M4SA4	103	F703_85.4 P132 BN132S4	108
16.9	2890	2.8	85.2	45000	F803_85.2 S4 M4SA4	111	F803_85.2 P132 BN132S4	112
17.1	2850	1.0	84.0	20000	F603_84.0 S4 M4SA4	103	F603_84.0 P132 BN132S4	104
18.6	2631	1.1	77.6	20000	F603_77.6 S4 M4SA4	103	F603_77.6 P132 BN132S4	104
18.9	2587	3.1	76.3	45000	F803_76.3 S4 M4SA4	111	F803_76.3 P132 BN132S4	112
19.6	2495	2.0	73.6	35000	F703_73.6 S4 M4SA4	103	F703_73.6 P132 BN132S4	108
20.5	2388	3.4	70.4	45000	F803_70.4 S4 M4SA4	111	F803_70.4 P132 BN132S4	112
21.1	2316	1.3	68.3	20000	F603_68.3 S4 M4SA4	103	F603_68.3 P132 BN132S4	104
21.2	2303	2.2	67.9	35000	F703_67.9 S4 M4SA4	103	F703_67.9 P132 BN132S4	108
22.8	2138	1.4	63.0	20000	F603_63.0 S4 M4SA4	103	F603_63.0 P132 BN132S4	104
23.0	2120	2.4	62.5	35000	F703_62.5 S4 M4SA4	103	F703_62.5 P132 BN132S4	108
25.0	1957	2.6	57.7	35000	F703_57.7 S4 M4SA4	103	F703_57.7 P132 BN132S4	108
27.8	1758	1.6	51.8	20000	F603_51.8 S4 M4SA4	103	F603_51.8 P132 BN132S4	104
29.4	1661	3.0	49.0	35000	F703_49.0 S4 M4SA4	103	F703_49.0 P132 BN132S4	108

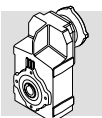


## 5.5 kW

$n_2$ min <sup>-1</sup>	$M_2$ Nm	S	i	$R_{n2}$ N				
30	1623	1.8	47.8	20000	F603_47.8 S4 M4SA4	103	F603_47.8 P132 BN132SA4	104
32	1533	3.3	45.2	34300	F703_45.2 S4 M4SA4	103	F703_45.2 P132 BN132SA4	108
34	1428	2.0	42.1	20000	F603_42.1 S4 M4SA4	103	F603_42.1 P132 BN132SA4	104
37	1318	0.9	38.9	10100	F503_38.9 S4 M4SA4	99	F503_38.9 P132 BN132SA4	100
37	1318	2.2	38.8	20000	F603_38.8 S4 M4SA4	103	F603_38.8 P132 BN132SA4	104
45	1088	2.7	32.1	20000	F603_32.1 S4 M4SA4	103	F603_32.1 P132 BN132SA4	104
46	1068	1.8	20.7	20000	F603_20.7 S4 M4LB6	103	F603_20.7 P132 BN132MB6	104
49	1005	2.9	29.6	20000	F603_29.6 S4 M4SA4	103	F603_29.6 P132 BN132SA4	104
57	862	2.2	25.4	20000	F603_25.4 S4 M4SA4	103	F603_25.4 P132 BN132SA4	104
60	833	1.2	24.0	9400	F502_24.0 S4 M4SA4	99	F502_24.0 P132 BN132SA4	100
61	796	2.4	23.5	20000	F603_23.5 S4 M4SA4	103	F603_23.5 P132 BN132SA4	104
70	701	2.7	20.7	20000	F603_20.7 S4 M4SA4	103	F603_20.7 P132 BN132SA4	104
74	674	1.5	19.5	9020	F502_19.5 S4 M4SA4	99	F502_19.5 P132 BN132SA4	100
76	647	2.9	19.1	20000	F603_19.1 S4 M4SA4	103	F603_19.1 P132 BN132SA4	104
77	652	1.1	18.8	6500	F402_18.8 S4 M4SA4	95	F402_18.8 P132 BN132SA4	96
93	534	1.4	15.4	8590	F502_15.4 S4 M4SA4	99	F502_15.4 P132 BN132SA4	100
96	522	1.3	15.1	6320	F402_15.1 S4 M4SA4	95	F402_15.1 P132 BN132SA4	96
103	482	1.5	9.1	6250	F402_9.1 S4 M4LB6	95	F402_9.1 P132 BN132MB6	96
118	422	2.4	12.2	8140	F502_12.2 S4 M4SA4	99	F502_12.2 P132 BN132SA4	100
122	409	1.7	11.8	6080	F402_11.8 S4 M4SA4	95	F402_11.8 P132 BN132SA4	96
140	355	1.7	6.7	5930	F402_6.7 S4 M4LB6	95	F402_6.7 P132 BN132MB6	96
158	317	2.2	9.1	5790	F402_9.1 S4 M4SA4	95	F402_9.1 P132 BN132SA4	96
159	314	3.2	9.1	7560	F502_9.1 S4 M4SA4	99	F502_9.1 P132 BN132SA4	100
192	260	2.7	15.1	5550	F402_15.1 S4 M4SA2	95	F402_15.1 P132 BN132SA2	96
214	233	2.6	6.7	5420	F402_6.7 S4 M4SA4	95	F402_6.7 P132 BN132SA4	96
245	204	3.2	11.8	5240	F402_11.8 S4 M4SA2	95	F402_11.8 P132 BN132SA2	96
316	158	3.6	9.1	4920	F402_9.1 S4 M4SA2	95	F402_9.1 P132 BN132SA2	96
431	116	4.1	6.7	4530	F402_6.7 S4 M4SA2	95	F402_6.7 P132 BN132SA2	96

## 7.5 kW

4.0	16376	0.9	361.8	55000	F904_361.8 S4 M4LA4	115	F904_361.8 P132 BN132MA4	116
4.9	13176	1.1	291.1	55000	F904_291.1 S4 M4LA4	115	F904_291.1 P132 BN132MA4	116
5.4	12162	1.2	268.7	55000	F904_268.7 S4 M4LA4	115	F904_268.7 P132 BN132MA4	116
6.2	10474	1.3	231.4	55000	F904_231.4 S4 M4LA4	115	F904_231.4 P132 BN132MA4	116
6.7	9668	1.4	213.6	55000	F904_213.6 S4 M4LA4	115	F904_213.6 P132 BN132MA4	116
7.4	8981	1.6	194.2	55000	F903_194.2 S4 M4LA4	115	F903_194.2 P132 BN132MA4	116
7.8	8540	0.9	184.6	45000	F803_184.6 S4 M4LA4	111	F803_184.6 P132 BN132MA4	112
8.0	8290	1.7	179.2	55000	F903_179.2 S4 M4LA4	115	F903_179.2 P132 BN132MA4	116
8.8	7532	1.9	162.8	55000	F903_162.8 S4 M4LA4	115	F903_162.8 P132 BN132MA4	116
9.0	7412	1.1	160.2	45000	F803_160.2 S4 M4LA4	111	F803_160.2 P132 BN132MA4	112
9.6	6953	2.0	150.3	55000	F903_150.3 S4 M4LA4	115	F903_150.3 P132 BN132MA4	116
9.7	6842	1.2	147.9	45000	F803_147.9 S4 M4LA4	111	F803_147.9 P132 BN132MA4	112
10.5	6353	2.2	137.3	55000	F903_137.3 S4 M4LA4	115	F903_137.3 P132 BN132MA4	116
10.9	6138	1.3	132.7	45000	F803_132.7 S4 M4LA4	111	F803_132.7 P132 BN132MA4	112
11.4	5864	2.4	126.8	55000	F903_126.8 S4 M4LA4	115	F903_126.8 P132 BN132MA4	116
11.8	5666	1.4	122.5	45000	F803_122.5 S4 M4LA4	111	F803_122.5 P132 BN132MA4	112
12.7	5262	1.5	113.8	45000	F803_113.8 S4 M4LA4	111	F803_113.8 P132 BN132MA4	112
12.9	5178	2.7	111.9	55000	F903_111.9 S4 M4LA4	115	F903_111.9 P132 BN132MA4	116
13.1	5071	1.0	109.6	35000	F703_109.6 S4 M4LA4	103	F703_109.6 P132 BN132MA4	108
13.7	4857	1.6	105.0	45000	F803_105.0 S4 M4LA4	111	F803_105.0 P132 BN132MA4	112
13.9	4780	2.9	103.3	55000	F903_103.3 S4 M4LA4	115	F903_103.3 P132 BN132MA4	116
14.2	4681	1.1	101.2	35000	F703_101.2 S4 M4LA4	103	F703_101.2 P132 BN132MA4	108
15.0	4430	3.2	95.8	55000	F903_95.8 S4 M4LA4	115	F903_95.8 P132 BN132MA4	116
15.6	4279	1.2	92.5	35000	F703_92.5 S4 M4LA4	103	F703_92.5 P132 BN132MA4	108
15.6	4270	1.9	92.3	45000	F803_92.3 S4 M4LA4	111	F803_92.3 P132 BN132MA4	112
16.3	4089	3.4	88.4	55000	F903_88.4 S4 M4LA4	115	F903_88.4 P132 BN132MA4	116
16.9	3950	1.3	85.4	35000	F703_85.4 S4 M4LA4	103	F703_85.4 P132 BN132MA4	108
16.9	3941	2.0	85.2	45000	F803_85.2 S4 M4LA4	111	F803_85.2 P132 BN132MA4	112
18.9	3527	2.3	76.3	45000	F803_76.3 S4 M4LA4	111	F803_76.3 P132 BN132MA4	112
19.6	3403	1.5	73.6	35000	F703_73.6 S4 M4LA4	103	F703_73.6 P132 BN132MA4	108
20.5	3256	2.5	70.4	44700	F803_70.4 S4 M4LA4	111	F803_70.4 P132 BN132MA4	112
21.1	3158	0.9	68.3	20000	F603_68.3 S4 M4LA4	103	F603_68.3 P132 BN132MA4	104
21.2	3141	1.6	67.9	35000	F703_67.9 S4 M4LA4	103	F703_67.9 P132 BN132MA4	108
23.0	2891	1.7	62.5	35000	F703_62.5 S4 M4LA4	103	F703_62.5 P132 BN132MA4	108

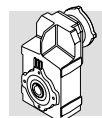


## 7.5 kW



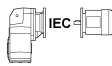

$n_2$ min <sup>-1</sup>	$M_2$ Nm	S	i	$R_{n2}$ N				
23.4	2843	2.8	61.5	43500	F803_61.5 S4 M4LA4	111	F803_61.5 P132 BN132MA4	112
25.0	2669	1.9	57.7	34900	F703_57.7 S4 M4LA4	103	F703_57.7 P132 BN132MA4	108
25.4	2624	3.0	56.7	42600	F803_56.7 S4 M4LA4	111	F803_56.7 P132 BN132MA4	112
27.8	2397	1.2	51.8	20000	F603_51.8 S4 M4LA4	103	F603_51.8 P132 BN132MA4	104
29.4	2265	2.2	49.0	33800	F703_49.0 S4 M4LA4	103	F703_49.0 P132 BN132MA4	108
30	2213	1.3	47.8	20000	F603_47.8 S4 M4LA4	103	F603_47.8 P132 BN132MA4	104
32	2090	2.4	45.2	33200	F703_45.2 S4 M4LA4	103	F703_45.2 P132 BN132MA4	108
34	1947	1.5	42.1	20000	F603_42.1 S4 M4LA4	103	F603_42.1 P132 BN132MA4	104
37	1797	1.6	38.8	20000	F603_38.8 S4 M4LA4	103	F603_38.8 P132 BN132MA4	104
45	1484	2.0	32.1	20000	F603_32.1 S4 M4LA4	103	F603_32.1 P132 BN132MA4	104
49	1370	2.1	29.6	20000	F603_29.6 S4 M4LA4	103	F603_29.6 P132 BN132MA4	104
57	1176	1.6	25.4	20000	F603_25.4 S4 M4LA4	103	F603_25.4 P132 BN132MA4	104
59	1136	3.5	24.6	28800	F703_24.6 S4 M4LA4	103	F703_24.6 P132 BN132MA4	108
61	1085	1.8	23.5	20000	F603_23.5 S4 M4LA4	103	F603_23.5 P132 BN132MA4	104
70	956	2.0	20.7	20000	F603_20.7 S4 M4LA4	103	F603_20.7 P132 BN132MA4	104
76	882	1.7	19.1	20000	F603_19.1 S4 M4LA4	103	F603_19.1 P132 BN132MA4	104
92	725	2.6	15.7	20000	F603_15.7 S4 M4LA4	103	F603_15.7 P132 BN132MA4	104
93	728	1.4	15.4	8060	F502_15.4 S4 M4LA4	99	F502_15.4 P132 BN132MA4	100
96	712	1.0	15.1	5660	F402_15.1 S4 M4LA4	95	F402_15.1 P132 BN132MA4	96
99	670	2.8	14.5	20000	F603_14.5 S4 M4LA4	103	F603_14.5 P132 BN132MA4	104
113	589	3.2	12.7	19900	F603_12.7 S4 M4LA4	103	F603_12.7 P132 BN132MA4	104
118	576	1.7	12.2	7720	F502_12.2 S4 M4LA4	99	F502_12.2 P132 BN132MA4	100
122	557	1.3	11.8	5560	F402_11.8 S4 M4LA4	95	F402_11.8 P132 BN132MA4	96
123	544	3.5	11.8	19500	F603_11.8 S4 M4LA4	103	F603_11.8 P132 BN132MA4	104
158	432	1.6	9.1	5390	F402_9.1 S4 M4LA4	95	F402_9.1 P132 BN132MA4	96
159	428	2.3	9.1	7240	F502_9.1 S4 M4LA4	99	F502_9.1 P132 BN132MA4	100
200	340	2.8	7.2	6860	F502_7.2 S4 M4LA4	99	F502_7.2 P132 BN132MA4	100
214	318	1.5	6.7	5120	F402_6.7 S4 M4LA4	95	F402_6.7 P132 BN132MA4	96
246	277	2.4	11.8	4980	F402_11.8 S4 M4SB2	95	F402_11.8 P132 BN132SB2	96
317	214	2.7	9.1	4710	F402_9.1 S4 M4SB2	95	F402_9.1 P132 BN132SB2	96
431	158	3.1	6.7	4380	F402_6.7 S4 M4SB2	95	F402_6.7 P132 BN132SB2	96

## 9.2 kW

4.9	16163	0.9	291.1	55000	F904_291.1 S4 M4LB4	115	F904_291.1 P132 BN132MB4	116
5.4	14919	0.9	268.7	55000	F904_268.7 S4 M4LB4	115	F904_268.7 P132 BN132MB4	116
6.2	12848	1.1	231.4	55000	F904_231.4 S4 M4LB4	115	F904_231.4 P132 BN132MB4	116
6.7	11860	1.2	213.6	55000	F904_213.6 S4 M4LB4	115	F904_213.6 P132 BN132MB4	116
7.4	11017	1.3	194.2	55000	F903_194.2 S4 M4LB4	115	F903_194.2 P132 BN132MB4	116
8.0	10169	1.4	179.2	55000	F903_179.2 S4 M4LB4	115	F903_179.2 P132 BN132MB4	116
8.8	9239	1.5	162.8	55000	F903_162.8 S4 M4LB4	115	F903_162.8 P132 BN132MB4	116
9.6	8529	1.6	150.3	55000	F903_150.3 S4 M4LB4	115	F903_150.3 P132 BN132MB4	116
9.7	8392	1.0	147.9	45000	F803_147.9 S4 M4LB4	111	F803_147.9 P132 BN132MB4	112
10.5	7793	1.8	137.3	55000	F903_137.3 S4 M4LB4	115	F903_137.3 P132 BN132MB4	116
10.9	7529	1.1	132.7	45000	F803_132.7 S4 M4LB4	111	F803_132.7 P132 BN132MB4	112
11.4	7194	1.9	126.8	55000	F903_126.8 S4 M4LB4	115	F903_126.8 P132 BN132MB4	116
11.8	6950	1.2	122.5	45000	F803_122.5 S4 M4LB4	111	F803_122.5 P132 BN132MB4	112
12.7	6455	1.2	113.8	45000	F803_113.8 S4 M4LB4	111	F803_113.8 P132 BN132MB4	112
12.9	6352	2.2	111.9	55000	F903_111.9 S4 M4LB4	115	F903_111.9 P132 BN132MB4	116
13.7	5958	1.3	105.0	45000	F803_105.0 S4 M4LB4	111	F803_105.0 P132 BN132MB4	112
13.9	5864	2.4	103.3	55000	F903_103.3 S4 M4LB4	115	F903_103.3 P132 BN132MB4	116
15.0	5434	2.6	95.8	55000	F903_95.8 S4 M4LB4	115	F903_95.8 P132 BN132MB4	116
15.6	5249	1.0	92.5	35000	F703_92.5 S4 M4LB4	103	F703_92.5 P132 BN132MB4	108
15.6	5238	1.5	92.3	45000	F803_92.3 S4 M4LB4	111	F803_92.3 P132 BN132MB4	112
16.3	5016	2.8	88.4	55000	F903_88.4 S4 M4LB4	115	F903_88.4 P132 BN132MB4	116
16.9	4845	1.0	85.4	35000	F703_85.4 S4 M4LB4	103	F703_85.4 P132 BN132MB4	108
16.9	4835	1.7	85.2	45000	F803_85.2 S4 M4LB4	111	F803_85.2 P132 BN132MB4	112
19.6	4174	1.2	73.6	35000	F703_73.6 S4 M4LB4	103	F703_73.6 P132 BN132MB4	108
20.4	4015	3.5	70.8	55000	F903_70.8 S4 M4LB4	115	F903_70.8 P132 BN132MB4	116
20.5	3994	2.0	70.4	43700	F803_70.4 S4 M4LB4	111	F803_70.4 P132 BN132MB4	112
21.2	3853	1.3	67.9	34600	F703_67.9 S4 M4LB4	103	F703_67.9 P132 BN132MB4	108
23.0	3546	1.4	62.5	34200	F703_62.5 S4 M4LB4	103	F703_62.5 P132 BN132MB4	108
23.4	3487	2.3	61.5	42200	F803_61.5 S4 M4LB4	111	F803_61.5 P132 BN132MB4	112
25.0	3274	1.5	57.7	33700	F703_57.7 S4 M4LB4	103	F703_57.7 P132 BN132MB4	108

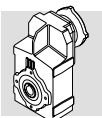


## 9.2 kW

$n_2$ min <sup>-1</sup>	$M_2$ Nm	S	i	$R_{n2}$ N				
25.4	3219	2.5	56.7	41400	F803_56.7 S4 M4LB4	111	F803_56.7 P132 BN132MB4	112
27.8	2941	1.0	51.8	20000	F603_51.8 S4 M4LB4	103	F603_51.8 P132 BN132MB4	104
29.4	2778	1.8	49.0	32800	F703_49.0 S4 M4LB4	103	F703_49.0 P132 BN132MB4	108
30	2715	1.1	47.8	20000	F603_47.8 S4 M4LB4	103	F603_47.8 P132 BN132MB4	104
32	2564	1.9	45.2	32300	F703_45.2 S4 M4LB4	103	F703_45.2 P132 BN132MB4	108
34	2388	1.2	42.1	20000	F603_42.1 S4 M4LB4	103	F603_42.1 P132 BN132MB4	104
37	2204	1.3	38.8	20000	F603_38.8 S4 M4LB4	103	F603_38.8 P132 BN132MB4	104
45	1821	1.6	32.1	20000	F603_32.1 S4 M4LB4	103	F603_32.1 P132 BN132MB4	104
49	1680	1.7	29.6	20000	F603_29.6 S4 M4LB4	103	F603_29.6 P132 BN132MB4	104
57	1442	1.2	25.4	20000	F603_25.4 S4 M4LB4	103	F603_25.4 P132 BN132MB4	104
59	1393	2.9	24.6	28300	F703_24.6 S4 M4LB4	103	F703_24.6 P132 BN132MB4	108
61	1331	1.4	23.5	20000	F603_23.5 S4 M4LB4	103	F603_23.5 P132 BN132MB4	104
64	1283	3.4	22.6	27800	F703_22.6 S4 M4LB4	103	F703_22.6 P132 BN132MB4	108
69	1184	3.4	20.9	27200	F703_20.9 S4 M4LB4	103	F703_20.9 P132 BN132MB4	108
70	1172	1.6	20.7	20000	F603_20.7 S4 M4LB4	103	F603_20.7 P132 BN132MB4	104
76	1082	1.8	19.1	20000	F603_19.1 S4 M4LB4	103	F603_19.1 P132 BN132MB4	104
92	890	2.1	15.7	20000	F603_15.7 S4 M4LB4	103	F603_15.7 P132 BN132MB4	104
93	893	1.1	15.4	7600	F502_15.4 S4 M4LB4	99	F502_15.4 P132 BN132MB4	100
99	821	2.3	14.5	20000	F603_14.5 S4 M4LB4	103	F603_14.5 P132 BN132MB4	104
113	722	2.6	12.7	19700	F603_12.7 S4 M4LB4	103	F603_12.7 P132 BN132MB4	104
118	706	1.4	12.2	7360	F502_12.2 S4 M4LB4	99	F502_12.2 P132 BN132MB4	100
122	684	1.0	11.8	5120	F402_11.8 S4 M4LB4	95	F402_11.8 P132 BN132MB4	96
123	667	2.8	11.8	19300	F603_11.8 S4 M4LB4	103	F603_11.8 P132 BN132MB4	104
148	551	3.4	9.7	18400	F603_9.7 S4 M4LB4	103	F603_9.7 P132 BN132MB4	104
158	530	1.3	9.1	5050	F402_9.1 S4 M4LB4	95	F402_9.1 P132 BN132MB4	96
159	525	1.9	9.1	6980	F502_9.1 S4 M4LB4	99	F502_9.1 P132 BN132MB4	100
161	508	2.3	9.0	17900	F603_9.0 S4 M4LB4	103	F603_9.0 P132 BN132MB4	104
200	417	2.3	7.2	6650	F502_7.2 S4 M4LB4	99	F502_7.2 P132 BN132MB4	100
214	390	1.5	6.7	4870	F402_6.7 S4 M4LB4	95	F402_6.7 P132 BN132MB4	96
238	351	2.7	12.2	6400	F502_12.2 S4 M4LA2	99	F502_12.2 P132 BN132M2	100
246	340	1.9	11.8	4760	F402_11.8 S4 M4LA2	95	F402_11.8 P132 BN132M2	96
317	263	2.2	9.1	4540	F402_9.1 S4 M4LA2	95	F402_9.1 P132 BN132M2	96
320	261	3.3	9.1	5950	F502_9.1 S4 M4LA2	99	F502_9.1 P132 BN132M2	100
431	194	2.5	6.7	4260	F402_6.7 S4 M4LA2	95	F402_6.7 P132 BN132M2	96

## 11 kW

6.2	15362	0.9	231.4	55000	F904_231.4 S4 M4LC4	115	F904_231.4 P160 BN160MR	116
6.7	14180	1.0	213.6	55000	F904_213.6 S4 M4LC4	115	F904_213.6 P160 BN160MR	116
7.4	13172	1.1	194.2	55000	F903_194.2 S4 M4LC4	115	F903_194.2 P160 BN160M4	116
8.0	12159	1.2	179.2	55000	F903_179.2 S4 M4LC4	115	F903_179.2 P160 BN160M4	116
8.8	11047	1.3	162.8	55000	F903_162.8 S4 M4LC4	115	F903_162.8 P160 BN160M4	116
9.6	10197	1.4	150.3	55000	F903_150.3 S4 M4LC4	115	F903_150.3 P160 BN160M4	116
10.5	9318	1.5	137.3	55000	F903_137.3 S4 M4LC4	115	F903_137.3 P160 BN160M4	116
11.4	8601	1.6	126.8	55000	F903_126.8 S4 M4LC4	115	F903_126.8 P160 BN160M4	116
11.8	8310	1.0	122.5	45000	F803_122.5 S4 M4LC4	111	F803_122.5 P160 BN160M4	112
12.7	7717	1.0	113.8	45000	F803_113.8 S4 M4LC4	111	F803_113.8 P160 BN160M4	112
12.9	7595	1.8	111.9	55000	F903_111.9 S4 M4LC4	115	F903_111.9 P160 BN160M4	116
13.7	7124	1.1	105.0	45000	F803_105.0 S4 M4LC4	111	F803_105.0 P160 BN160M4	112
13.9	7011	2.0	103.3	55000	F903_103.3 S4 M4LC4	115	F903_103.3 P160 BN160M4	116
15.0	6497	2.2	95.8	55000	F903_95.8 S4 M4LC4	115	F903_95.8 P160 BN160M4	116
15.6	6263	1.3	92.3	44100	F803_92.3 S4 M4LC4	111	F803_92.3 P160 BN160M4	112
16.3	5997	2.3	88.4	55000	F903_88.4 S4 M4LC4	115	F903_88.4 P160 BN160M4	116
16.9	5781	1.4	85.2	44000	F803_85.2 S4 M4LC4	111	F803_85.2 P160 BN160M4	112
18.8	5200	2.7	76.7	55000	F903_76.7 S4 M4LC4	115	F903_76.7 P160 BN160M4	116
18.9	5173	1.5	76.3	42800	F803_76.3 S4 M4LC4	111	F803_76.3 P160 BN160M4	112
20.4	4800	2.9	70.8	55000	F903_70.8 S4 M4LC4	115	F903_70.8 P160 BN160M4	116
20.5	4775	1.7	70.4	42500	F803_70.4 S4 M4LC4	111	F803_70.4 P160 BN160M4	112
21.2	4607	1.1	67.9	33100	F703_67.9 S4 M4LC4	103	F703_67.9 P160 BN160M4	108
23.0	4240	1.2	62.5	32900	F703_62.5 S4 M4LC4	103	F703_62.5 P160 BN160M4	108
23.2	4213	3.3	62.1	55000	F903_62.1 S4 M4LC4	115	F903_62.1 P160 BN160M4	116
23.4	4170	1.9	61.5	41100	F803_61.5 S4 M4LC4	111	F803_61.5 P160 BN160M4	112
25.0	3914	1.3	57.7	32500	F703_57.7 S4 M4LC4	103	F703_57.7 P160 BN160M4	108
25.4	3849	2.1	56.7	40800	F803_56.7 S4 M4LC4	111	F803_56.7 P160 BN160M4	112

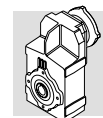


## 11 kW



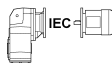

$n_2$ min <sup>-1</sup>	$M_2$ Nm	S	i	$R_{n2}$ N				
29.3	3332	2.4	49.1	39300		111	F803_49.1 P160 BN160M4	112
29.4	3322	1.5	49.0	31800	F703_49.0 S4 M4LC4	103	F703_49.0 P160 BN160M4	108
32	3075	2.6	45.3	38900			F803_45.3 P160 BN160M4	112
32	3066	1.6	45.2	31300	F703_45.2 S4 M4LC4	103	F703_45.2 P160 BN160M4	108
34	2855	1.0	42.1	20000	F603_42.1 S4 M4LC4	103	F603_42.1 P160 BN160M4	104
37	2646	3.0	39.0	37400			F803_39.0 P160 BN160M4	112
37	2636	1.1	38.8	20000	F603_38.8 S4 M4LC4	103	F603_38.8 P160 BN160M4	104
38	2605	1.9	38.4	30500			F703_38.4 P160 BN160M4	108
40	2442	3.3	36.0	36900			F803_36.0 P160 BN160M4	112
41	2404	2.1	35.4	30000			F703_35.4 P160 BN160M4	108
45	2177	1.3	32.1	20000	F603_32.1 S4 M4LC4	103	F603_32.1 P160 BN160M4	104
48	2035	2.5	30.0	29000			F703_30.0 P160 BN160M4	108
49	2009	1.4	29.6	20000	F603_29.6 S4 M4LC4	103	F603_29.6 P160 BN160M4	104
52	1879	2.5	27.7	28500			F703_27.7 P160 BN160M4	108
57	1725	1.0	25.4	20000	F603_25.4 S4 M4LC4	103	F603_25.4 P160 BN160M4	104
59	1666	2.4	24.6	27800	F703_24.6 S4 M4LC4	103	F703_24.6 P160 BN160M4	108
61	1592	1.2	23.5	20000	F603_23.5 S4 M4LC4	103	F603_23.5 P160 BN160M4	104
64	1534	2.8	22.6	27300	F703_22.6 S4 M4LC4	103	F703_22.6 P160 BN160M4	108
69	1416	2.8	20.9	26800	F703_20.9 S4 M4LC4	103	F703_20.9 P160 BN160M4	108
70	1402	1.4	20.7	20000	F603_20.7 S4 M4LC4	103	F603_20.7 P160 BN160M4	104
76	1294	1.5	19.1	20000	F603_19.1 S4 M4LC4	103	F603_19.1 P160 BN160M4	104
92	1064	1.8	15.7	20000	F603_15.7 S4 M4LC4	103	F603_15.7 P160 BN160M4	104
99	982	1.9	14.5	20000	F603_14.5 S4 M4LC4	103	F603_14.5 P160 BN160M4	104
113	864	2.2	12.7	19400	F603_12.7 S4 M4LC4	103	F603_12.7 P160 BN160M4	104
118	845	1.2	12.2	6980	F502_12.2 S4 M4LC4	99	F502_12.2 P160 BN160M4	100
123	797	2.4	11.8	19000	F603_11.8 S4 M4LC4	103	F603_11.8 P160 BN160M4	104
148	659	2.9	9.7	18200	F603_9.7 S4 M4LC4	103	F603_9.7 P160 BN160M4	104
158	633	1.1	9.1	4680	F402_9.1 S4 M4LC4	95		
159	627	1.6	9.1	6700	F502_9.1 S4 M4LC4	99	F502_9.1 P160 BN160M4	100
161	608	3.1	9.0	17800	F603_9.0 S4 M4LC4	103	F603_9.0 P160 BN160M4	104
200	499	1.9	7.2	6430	F502_7.2 S4 M4LC4	99	F502_7.2 P160 BN160M4	100
214	466	1.3	6.7	4600	F402_6.7 S4 M4LC4	95		
240	417	2.2	12.2	6200	F502_12.2 S4 M4LC2	99	F502_12.2 P160 BN160MR2	100
248	403	1.6	11.8	4520	F402_11.8 S4 M4LC2	95		
320	312	1.8	9.1	4360	F402_9.1 S4 M4LC2	95		
323	309	2.7	9.1	5800	F502_9.1 S4 M4LC2	99	F502_9.1 P160 BN160MR2	100
406	246	3.2	7.2	5490	F502_7.2 S4 M4LC2	99	F502_7.2 P160 BN160MR2	100
434	230	2.1	6.7	4120	F402_6.7 S4 M4LC2	95		

## 15 kW

8.1	16353	0.9	179.2	55000	F903_179.2 S5 M5SB4	115	F903_179.2 P160 BN160L4	116
9.0	14858	0.9	162.8	55000	F903_162.8 S5 M5SB4	115	F903_162.8 P160 BN160L4	116
9.7	13715	1.0	150.3	55000	F903_150.3 S5 M5SB4	115	F903_150.3 P160 BN160L4	116
10.6	12532	1.1	137.3	55000	F903_137.3 S5 M5SB4	115	F903_137.3 P160 BN160L4	116
11.5	11568	1.2	126.8	55000	F903_126.8 S5 M5SB4	115	F903_126.8 P160 BN160L4	116
13.0	10215	1.4	111.9	55000	F903_111.9 S5 M5SB4	115	F903_111.9 P160 BN160L4	116
14.1	9429	1.5	103.3	55000	F903_103.3 S5 M5SB4	115	F903_103.3 P160 BN160L4	116
15.2	8738	1.6	95.8	55000	F903_95.8 S5 M5SB4	115	F903_95.8 P160 BN160L4	116
15.8	8423	0.9	92.3	41300	F803_92.3 S5 M5SB4	111	F803_92.3 P160 BN160L4	112
16.5	8066	1.7	88.4	55000	F903_88.4 S5 M5SB4	115	F903_88.4 P160 BN160L4	116
19.0	6994	2.0	76.7	55000	F903_76.7 S5 M5SB4	115	F903_76.7 P160 BN160L4	116
19.1	6958	1.1	76.3	40500	F803_76.3 S5 M5SB4	111	F803_76.3 P160 BN160L4	112
20.6	6456	2.2	70.8	55000	F903_70.8 S5 M5SB4	115	F903_70.8 P160 BN160L4	116
20.7	6422	1.2	70.4	39900	F803_70.4 S5 M5SB4	111	F803_70.4 P160 BN160L4	112
23.8	5608	1.4	61.5	38700	F803_61.5 S5 M5SB4	111	F803_61.5 P160 BN160L4	112
25.3	5264	0.9	57.7	29700	F703_57.7 S5 M5SB4	103	F703_57.7 P160 BN160L4	108
25.5	5231	2.7	57.3	55000	F903_57.3 S5 M5SB4	115	F903_57.3 P160 BN160L4	116
25.7	5177	1.5	56.7	38600	F803_56.7 S5 M5SB4	111	F803_56.7 P160 BN160L4	112
29.3	4553	3.1	49.9	55000	F903_49.9 S5 M5SB4	115	F903_49.9 P160 BN160L4	116
29.7	4481	1.8	49.1	37800	F803_49.1 S5 M5SB4	111	F803_49.1 P160 BN160L4	112
29.8	4467	1.1	49.0	29400	F703_49.0 S5 M5SB4	103	F703_49.0 P160 BN160L4	108

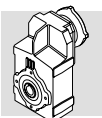


## 15 kW



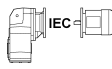

$n_2$ min <sup>-1</sup>	$M_2$ Nm	S	i	$R_{n2}$ N			 IEC	
32	4203	3.3	46.1	55000	F903_46.1 S5 M5SB4	115	F903_46.1 P160 BN160L4	116
32	4136	1.9	45.3	37200	F803_45.3 S5 M5SB4	111	F803_45.3 P160 BN160L4	112
32	4124	1.2	45.2	29100	F703_45.2 S5 M5SB4	103	F703_45.2 P160 BN160L4	108
37	3559	2.2	39.0	36200	F803_39.0 S5 M5SB4	111	F803_39.0 P160 BN160L4	112
38	3503	1.4	38.4	28600	F703_38.4 S5 M5SB4	103	F703_38.4 P160 BN160L4	108
41	3285	2.4	36.0	35500	F803_36.0 S5 M5SB4	111	F803_36.0 P160 BN160L4	112
41	3234	1.5	35.4	28200	F703_35.4 S5 M5SB4	103	F703_35.4 P160 BN160L4	108
46	2928	1.0	32.1	20000	F603_32.1 S5 M5SB4	103	F603_32.1 P160 BN160L4	104
49	2737	1.8	30.0	27500	F703_30.0 S5 M5SB4	103	F703_30.0 P160 BN160L4	108
49	2702	1.1	29.6	20000	F603_29.6 S5 M5SB4	103	F603_29.6 P160 BN160L4	104
53	2527	1.8	27.7	27100	F703_27.7 S5 M5SB4	103	F703_27.7 P160 BN160L4	108
58	2302	2.7	25.2	32900	F803_25.2 S5 M5SB4	111	F803_25.2 P160 BN160L4	112
59	2241	1.8	24.6	26500	F703_24.6 S5 M5SB4	103	F703_24.6 P160 BN160L4	108
65	2063	2.1	22.6	26200	F703_22.6 S5 M5SB4	103	F703_22.6 P160 BN160L4	108
66	2010	3.4	22.0	31900	F803_22.0 S5 M5SB4	111	F803_22.0 P160 BN160L4	112
70	1904	2.1	20.9	25700	F703_20.9 S5 M5SB4	103	F703_20.9 P160 BN160L4	108
71	1885	1.0	20.7	20000	F603_20.7 S5 M5SB4	103	F603_20.7 P160 BN160L4	104
72	1855	3.4	20.3	31300	F803_20.3 S5 M5SB4	111	F803_20.3 P160 BN160L4	112
77	1740	1.1	19.1	20000	F603_19.1 S5 M5SB4	103	F603_19.1 P160 BN160L4	104
82	1616	2.7	17.7	24900	F703_17.7 S5 M5SB4	103	F703_17.7 P160 BN160L4	108
89	1491	2.7	16.3	24400	F703_16.3 S5 M5SB4	103	F703_16.3 P160 BN160L4	108
93	1431	1.3	15.7	19600	F603_15.7 S5 M5SB4	103	F603_15.7 P160 BN160L4	104
101	1321	1.4	14.5	19200	F603_14.5 S5 M5SB4	103	F603_14.5 P160 BN160L4	104
105	1267	3.1	13.9	23600	F703_13.9 S5 M5SB4	103	F703_13.9 P160 BN160L4	108
114	1170	3.1	12.8	23100	F703_12.8 S5 M5SB4	103	F703_12.8 P160 BN160L4	108
115	1162	1.6	12.7	18800	F603_12.7 S5 M5SB4	103	F603_12.7 P160 BN160L4	104
124	1072	1.8	11.8	18400	F603_11.8 S5 M5SB4	103	F603_11.8 P160 BN160L4	104
135	990	3.5	10.9	22300	F703_10.9 S5 M5SB4	103	F703_10.9 P160 BN160L4	108
146	914	3.5	10.0	21800	F703_10.0 S5 M5SB4	103	F703_10.0 P160 BN160L4	108
150	886	2.1	9.7	17700	F603_9.7 S5 M5SB4	103	F603_9.7 P160 BN160L4	104
161	844	1.2	9.1	6070			F502_9.1 P160 BN160L4	100
163	818	2.3	9.0	17300	F603_9.0 S5 M5SB4	103	F603_9.0 P160 BN160L4	104
203	671	1.4	7.2	5920			F502_7.2 P160 BN160L4	100

## 18.5 kW

10.6	15456	0.9	137.3	55000	F903_137.3 S5 M5LA4	115	F903_137.3 P180 BN180M4	116
11.5	14267	1.0	126.8	55000	F903_126.8 S5 M5LA4	115	F903_126.8 P180 BN180M4	116
13.0	12598	1.1	111.9	55000	F903_111.9 S5 M5LA4	115	F903_111.9 P180 BN180M4	116
14.1	11629	1.2	103.3	55000	F903_103.3 S5 M5LA4	115	F903_103.3 P180 BN180M4	116
15.2	10777	1.3	95.8	55000	F903_95.8 S5 M5LA4	115	F903_95.8 P180 BN180M4	116
16.5	9948	1.4	88.4	55000	F903_88.4 S5 M5LA4	115	F903_88.4 P180 BN180M4	116
19.0	8626	1.6	76.7	55000	F903_76.7 S5 M5LA4	115	F903_76.7 P180 BN180M4	116
19.1	8581	0.9	76.3	38100	F803_76.3 S5 M5LA4	111	F803_76.3 P180 BN180M4	112
20.6	7963	1.8	70.8	55000	F903_70.8 S5 M5LA4	115	F903_70.8 P180 BN180M4	116
20.7	7921	1.0	70.4	37600	F803_70.4 S5 M5LA4	111	F803_70.4 P180 BN180M4	112
23.5	6989	2.0	62.1	55000	F903_62.1 S5 M5LA4	115	F903_62.1 P180 BN180M4	116
23.8	6916	1.1	61.5	37400	F803_61.5 S5 M5LA4	111	F803_61.5 P180 BN180M4	112
25.5	6451	2.2	57.3	55000	F903_57.3 S5 M5LA4	115	F903_57.3 P180 BN180M4	116
25.7	6384	1.3	56.7	36800	F803_56.7 S5 M5LA4	111	F803_56.7 P180 BN180M4	112
29.3	5615	2.5	49.9	55000	F903_49.9 S5 M5LA4	115	F903_49.9 P180 BN180M4	116
29.7	5526	1.4	49.1	35800	F803_49.1 S5 M5LA4	111	F803_49.1 P180 BN180M4	112
29.8	5510	0.9	49.0	27400	F703_49.0 S5 M5LA4	103	F703_49.0 P180 BN180M4	108
32	5183	2.7	46.1	55000	F903_46.1 S5 M5LA4	115	F903_46.1 P180 BN180M4	116
32	5101	1.6	45.3	35700	F803_45.3 S5 M5LA4	111	F803_45.3 P180 BN180M4	112
32	5086	1.0	45.2	27200	F703_45.2 S5 M5LA4	103	F703_45.2 P180 BN180M4	108
36	4558	3.1	40.5	53700			F903_40.5 P180 BN180M4	116
37	4389	1.8	39.0	35000	F803_39.0 S5 M5LA4	111	F803_39.0 P180 BN180M4	112
38	4321	1.2	38.4	27000	F703_38.4 S5 M5LA4	103	F703_38.4 P180 BN180M4	108
39	4207	3.2	37.4	52700			F903_37.4 P180 BN180M4	116
41	4051	2.0	36.0	34400	F803_36.0 S5 M5LA4	111	F803_36.0 P180 BN180M4	112
41	3988	1.3	35.4	26700	F703_35.4 S5 M5LA4	103	F703_35.4 P180 BN180M4	108

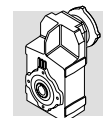


## 18.5 kW



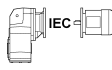

$n_2$ min <sup>-1</sup>	$M_2$ Nm	S	i	$R_{n2}$ N				
47	3517	2.3	31.3	33600				
49	3376	1.5	30.0	26300	F703_30.0 S5 M5LA4	103	F803_31.3 P180 BN180M4	112
51	3246	2.5	28.8	33000			F703_30.0 P180 BN180M4	108
53	3116	1.5	27.7	26000	F703_27.7 S5 M5LA4	103	F803_28.8 P180 BN180M4	112
58	2839	2.2	25.2	32100	F803_25.2 S5 M5LA4	111	F703_27.7 P180 BN180M4	108
							F803_25.2 P180 BN180M4	112
59	2764	1.4	24.6	25500	F703_24.6 S5 M5LA4	103	F703_24.6 P180 BN180M4	108
65	2544	1.7	22.6	25200	F703_22.6 S5 M5LA4	103	F703_22.6 P180 BN180M4	108
66	2479	2.7	22.0	31300	F803_22.0 S5 M5LA4	111	F803_22.0 P180 BN180M4	112
70	2348	1.7	20.9	24900	F703_20.9 S5 M5LA4	103	F703_20.9 P180 BN180M4	108
72	2288	2.7	20.3	30600	F803_20.3 S5 M5LA4	111	F803_20.3 P180 BN180M4	112
82	1993	2.2	17.7	24200	F703_17.7 S5 M5LA4	103	F703_17.7 P180 BN180M4	108
83	1981	3.4	17.6	29700	F803_17.6 S5 M5LA4	111	F803_17.6 P180 BN180M4	112
89	1839	2.2	16.3	23800	F703_16.3 S5 M5LA4	103	F703_16.3 P180 BN180M4	108
90	1828	3.4	16.2	29100	F803_16.2 S5 M5LA4	111	F803_16.2 P180 BN180M4	112
93	1765	1.1	15.7	18700	F603_15.7 S5 M5LA4	103	F603_15.7 P180 BN180M4	104
101	1629	1.2	14.5	18600	F603_14.5 S5 M5LA4	103	F603_14.5 P180 BN180M4	104
105	1563	2.5	13.9	23000	F703_13.9 S5 M5LA4	103	F703_13.9 P180 BN180M4	108
114	1442	2.5	12.8	22600	F703_12.8 S5 M5LA4	103	F703_12.8 P180 BN180M4	108
115	1433	1.3	12.7	18300	F603_12.7 S5 M5LA4	103	F603_12.7 P180 BN180M4	104
124	1323	1.4	11.8	17900	F603_11.8 S5 M5LA4	103	F603_11.8 P180 BN180M4	104
135	1221	2.8	10.9	21800	F703_10.9 S5 M5LA4	103	F703_10.9 P180 BN180M4	108
146	1127	2.8	10.0	21400	F703_10.0 S5 M5LA4	103	F703_10.0 P180 BN180M4	108
150	1092	1.7	9.7	17300	F603_9.7 S5 M5LA4	103	F603_9.7 P180 BN180M4	104
163	1008	1.9	9.0	16900	F603_9.0 S5 M5LA4	103	F603_9.0 P180 BN180M4	104
203	827	1.2	7.2	5500			F502_7.2 P180 BN180M4	100

## 22 kW

13.1	14880	0.9	111.9	55000			F903_111.9 P180 BN180L4	116
14.2	13735	1.0	103.3	55000			F903_103.3 P180 BN180L4	116
15.4	12728	1.1	95.8	55000			F903_95.8 P180 BN180L4	116
16.6	11749	1.2	88.4	55000			F903_88.4 P180 BN180L4	116
19.2	10188	1.4	76.7	55000			F903_76.7 P180 BN180L4	116
20.8	9405	1.5	70.8	55000			F903_70.8 P180 BN180L4	116
23.7	8254	1.7	62.1	55000			F903_62.1 P180 BN180L4	116
23.9	8169	1.0	61.5	35400			F803_61.5 P180 BN180L4	112
25.6	7619	1.8	57.3	55000			F903_57.3 P180 BN180L4	116
25.9	7541	1.1	56.7	35000			F803_56.7 P180 BN180L4	112
29.5	6632	2.1	49.9	54400			F903_49.9 P180 BN180L4	116
29.9	6527	1.2	49.1	34100			F803_49.1 P180 BN180L4	112
32	6122	2.3	46.1	53500			F903_46.1 P180 BN180L4	116
32	6025	1.3	45.3	34300			F803_45.3 P180 BN180L4	112
36	5383	2.6	40.5	52300			F903_40.5 P180 BN180L4	116
38	5184	1.5	39.0	33300			F803_39.0 P180 BN180L4	112
38	5103	1.0	38.4	25400			F703_38.4 P180 BN180L4	108
39	4969	2.7	37.4	51400			F903_37.4 P180 BN180L4	116
41	4785	1.7	36.0	33200			F803_36.0 P180 BN180L4	112
41	4711	1.1	35.4	25300			F703_35.4 P180 BN180L4	108
47	4154	1.9	31.3	32600			F803_31.3 P180 BN180L4	112
47	4120	3.2	31.0	49500			F903_31.0 P180 BN180L4	116
49	3988	1.3	30.0	25100			F703_30.0 P180 BN180L4	108
51	3834	2.1	28.8	32000			F803_28.8 P180 BN180L4	112
51	3803	3.2	28.6	48600			F903_28.6 P180 BN180L4	116
53	3681	1.3	27.7	24800			F703_27.7 P180 BN180L4	108
58	3353	1.9	25.2	31300			F803_25.2 P180 BN180L4	112
60	3264	1.2	24.6	24500			F703_24.6 P180 BN180L4	108
65	3005	1.4	22.6	24300			F703_22.6 P180 BN180L4	108
67	2928	2.3	22.0	30200			F803_22.0 P180 BN180L4	112
70	2773	1.4	20.9	24000			F703_20.9 P180 BN180L4	108
72	2703	2.3	20.3	29900			F803_20.3 P180 BN180L4	112
83	2354	1.8	17.7	23400			F703_17.7 P180 BN180L4	108
84	2339	2.9	17.6	29100			F803_17.6 P180 BN180L4	112
90	2173	1.8	16.3	23100			F703_16.3 P180 BN180L4	108
90	2159	2.9	16.2	28500			F803_16.2 P180 BN180L4	112
106	1846	2.1	13.9	22400			F703_13.9 P180 BN180L4	108



## 22 kW

$n_2$ min <sup>-1</sup>	$M_2$ Nm	S	i	$R_{n2}$ N				
115	1704	2.1	12.8	22100			F703_12.8 P180 BN180L4	108
115	1692	1.1	12.7	17700			F603_12.7 P180 BN180L4	104
125	1562	1.2	11.8	17400			F603_11.8 P180 BN180L4	104
135	1442	2.4	10.9	21400			F703_10.9 P180 BN180L4	108
147	1331	2.4	10.0	21000			F703_10.0 P180 BN180L4	108
151	1290	1.5	9.7	16900			F603_9.7 P180 BN180L4	104
164	1191	1.6	9.0	16500			F603_9.0 P180 BN180L4	104
204	977	1.0	7.2	5070			F502_7.2 P180 BN180L4	100

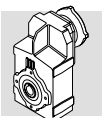
## 30 kW

16.6	16022	0.9	88.4	52200			F903_88.4 P200 BN200L4	116
19.2	13893	1.0	76.7	52400			F903_76.7 P200 BN200L4	116
20.8	12825	1.1	70.8	52100			F903_70.8 P200 BN200L4	116
23.7	11256	1.2	62.1	51800			F903_62.1 P200 BN200L4	116
25.6	10390	1.3	57.3	51400			F903_57.3 P200 BN200L4	116
29.5	9044	1.5	49.9	50800			F903_49.9 P200 BN200L4	116
32	8348	1.7	46.1	50200			F903_46.1 P200 BN200L4	116
32	8216	1.0	45.3	30900			F803_45.3 P200 BN200L4	112
36	7341	1.9	40.5	49400			F903_40.5 P200 BN200L4	116
38	7069	1.1	39.0	31000			F803_39.0 P200 BN200L4	112
39	6776	2.0	37.4	48700			F903_37.4 P200 BN200L4	116
41	6525	1.2	36.0	30600			F803_36.0 P200 BN200L4	112
47	5664	1.4	31.3	29900			F803_31.3 P200 BN200L4	112
47	5618	2.3	31.0	47300			F903_31.0 P200 BN200L4	116
49	5438	0.9	30.0	22300			F703_30.0 P200 BN200L4	108
51	5229	1.5	28.8	29500			F803_28.8 P200 BN200L4	112
51	5186	2.3	28.6	46600			F903_28.6 P200 BN200L4	116
53	5019	0.9	27.7	22200			F703_27.7 P200 BN200L4	108
58	4601	2.6	25.4	45500			F903_25.4 P200 BN200L4	116
58	4572	1.2	25.2	29500			F803_25.2 P200 BN200L4	112
66	4039	3.0	22.3	44400			F903_22.3 P200 BN200L4	116
67	3992	1.7	22.0	29000			F803_22.0 P200 BN200L4	112
71	3728	3.0	20.6	43600			F903_20.6 P200 BN200L4	116
72	3685	1.7	20.3	28500			F803_20.3 P200 BN200L4	112
83	3209	1.4	17.7	21800			F703_17.7 P200 BN200L4	108
84	3190	2.1	17.6	27900			F803_17.6 P200 BN200L4	112
90	2963	1.4	16.3	21500			F703_16.3 P200 BN200L4	108
90	2945	2.1	16.2	27400			F803_16.2 P200 BN200L4	112
105	2534	2.7	14.0	26700			F803_14.0 P200 BN200L4	112
106	2517	1.5	13.9	21100			F703_13.9 P200 BN200L4	108
114	2339	2.7	12.9	26200			F803_12.9 P200 BN200L4	112
115	2323	1.5	12.8	20900			F703_12.8 P200 BN200L4	108
135	1967	1.8	10.9	20300			F703_10.9 P200 BN200L4	108
142	1874	3.0	10.3	24900			F803_10.3 P200 BN200L4	112
147	1815	1.8	10.0	20000			F703_10.0 P200 BN200L4	108

## 37 kW

20.9	15710	0.9	70.8	47600			F903_70.8 P225 BN225S4	116
25.8	12728	1.1	57.3	47700			F903_57.3 P225 BN225S4	116
29.7	11079	1.3	49.9	47600			F903_49.9 P225 BN225S4	116
32	10227	1.4	46.1	47200			F903_46.1 P225 BN225S4	116
37	8993	1.6	40.5	46800			F903_40.5 P225 BN225S4	116
38	8659	0.9	39.0	28500			F803_39.0 P225 BN225S4	112
40	8301	1.6	37.4	46300			F903_37.4 P225 BN225S4	116
41	7993	1.0	36.0	28300			F803_36.0 P225 BN225S4	112
47	6939	1.2	31.3	28400			F803_31.3 P225 BN225S4	112
48	6882	1.9	31.0	45300			F903_31.0 P225 BN225S4	116
51	6405	1.2	28.8	28100			F803_28.8 P225 BN225S4	112
52	6353	1.9	28.6	44700			F903_28.6 P225 BN225S4	116
58	5637	2.1	25.4	43900			F903_25.4 P225 BN225S4	116
59	5601	1.1	25.2	27800			F803_25.2 P225 BN225S4	112
66	4947	2.4	22.3	43000			F903_22.3 P225 BN225S4	116
67	4891	1.1	22.0	27600			F803_22.0 P225 BN225S4	112





## 37 kW

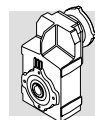
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72	4567	2.5	20.6	42300			F903_20.6 P225 BN225S4	116
73	4515	1.1	20.3	27200			F803_20.3 P225 BN225S4	112
83	3975	2.8	17.9	41200			F903_17.9 P225 BN225S4	116
84	3908	1.7	17.6	26800			F803_17.6 P225 BN225S4	112
90	3669	2.8	16.5	40500			F903_16.5 P225 BN225S4	116
91	3607	1.7	16.2	26300			F803_16.2 P225 BN225S4	112
102	3226	3.1	14.5	39500			F903_14.5 P225 BN225S4	116
106	3104	2.2	14.0	25800			F803_14.0 P225 BN225S4	112
110	2978	3.1	13.4	38700			F903_13.4 P225 BN225S4	116
115	2865	2.2	12.9	25300			F803_12.9 P225 BN225S4	112
132	2487	2.4	11.2	24500			F803_11.2 P225 BN225S4	112
143	2296	2.4	10.3	24300			F803_10.3 P225 BN225S4	112



## 45 kW

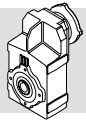
32	12438	1.1	46.1	43900			F903_46.1 P225 BN225M4	116
37	10937	1.3	40.5	43900			F903_40.5 P225 BN225M4	116
40	10096	1.3	37.4	43600			F903_37.4 P225 BN225M4	116
47	8439	0.9	31.3	26100			F803_31.3 P225 BN225M4	112
48	8370	1.6	31.0	43100			F903_31.0 P225 BN225M4	116
51	7790	1.0	28.8	26000			F803_28.8 P225 BN225M4	112
52	7726	1.6	28.6	42600			F903_28.6 P225 BN225M4	116
58	6855	1.8	25.4	42000			F903_25.4 P225 BN225M4	116
66	6017	2.0	22.3	41400			F903_22.3 P225 BN225M4	116
67	5948	1.1	22.0	26000			F803_22.0 P225 BN225M4	112
72	5554	2.0	20.6	40800			F903_20.6 P225 BN225M4	116
73	5491	1.1	20.3	25700			F803_20.3 P225 BN225M4	112
83	4834	2.3	17.9	39900			F903_17.9 P225 BN225M4	116
84	4753	1.4	17.6	25500			F803_17.6 P225 BN225M4	112
90	4463	2.3	16.5	39300			F903_16.5 P225 BN225M4	116
91	4387	1.4	16.2	25200			F803_16.2 P225 BN225M4	112
102	3924	2.5	14.5	38400			F903_14.5 P225 BN225M4	116
106	3775	1.8	14.0	24800			F803_14.0 P225 BN225M4	112
110	3622	2.6	13.4	37800			F903_13.4 P225 BN225M4	116
115	3484	1.8	12.9	24100			F803_12.9 P225 BN225M4	112
132	3025	1.5	11.2	24000			F803_11.2 P225 BN225M4	112
133	3003	2.9	11.1	36400			F903_11.1 P225 BN225M4	116
143	2792	2.0	10.3	23500			F803_10.3 P225 BN225M4	112

## 55 kW

32	15202	0.9	46.1	39700			F903_46.1 P250 BN250M4	116
37	13367	1.0	40.5	40300			F903_40.5 P250 BN250M4	116
40	12339	1.1	37.4	40200			F903_37.4 P250 BN250M4	116
48	10230	1.3	31.0	40300			F903_31.0 P250 BN250M4	116
52	9443	1.3	28.6	40100			F903_28.6 P250 BN250M4	116
58	8379	1.4	25.4	39700			F903_25.4 P250 BN250M4	116
66	7354	1.6	22.3	39400			F903_22.3 P250 BN250M4	116
72	6788	1.7	20.6	38900			F903_20.6 P250 BN250M4	116
83	5909	1.9	17.9	38300			F903_17.9 P250 BN250M4	116
90	5454	1.9	16.5	37800			F903_16.5 P250 BN250M4	116
102	4796	2.1	14.5	37100			F903_14.5 P250 BN250M4	116
110	4427	2.1	13.4	36600			F903_13.4 P250 BN250M4	116
133	3671	2.4	11.1	35400			F903_11.1 P250 BN250M4	116
144	3388	2.4	10.3	34800			F903_10.3 P250 BN250M4	116





	i	$n_1 = 2800 \text{ min}^{-1}$					$n_1 = 1400 \text{ min}^{-1}$					
		$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	
F 10 2_7.4		378	63	2.6	1000	1290	189	76	1.6	1290	1640	85
F 10 2_9.8		286	73	2.3	980	1410	143	89	1.4	1250	1780	
F 10 2_13.0		215	85	2.0	940	1530	108	104	1.2	1210	1940	
F 10 2_14.6		192	94	2.0	1120	1590	96	119	1.3	1300	2000	
F 10 2_19.3		145	108	1.7	1100	1730	73	136	1.1	1300	2180	
F 10 2_25.8		109	123	1.5	1090	1890	54	140	0.84	1300	2430	
F 10 2_33.0		85	137	1.3	1070	2040	42	140	0.65	1300	2670	
F 10 2_39.6		71	140	1.1	1080	2190	35	140	0.54	1300	2800	
F 10 2_48.7		57	140	0.89	1090	2370	28.7	140	0.44	1300	2800	
F 10 2_63.0		44	140	0.69	1110	2620	22.2	140	0.34	1300	2800	
F 10 2_71.1		39	140	0.61	1000	2750	19.7	140	0.30	1300	2800	
F 10 2_91.5		31	140	0.47	1110	2800	15.3	140	0.24	1300	2800	
F 10 2_106.0		26.4	140	0.41	1120	2800	13.2	140	0.20	1300	2800	
F 10 2_127.1		22.0	140	0.34	1130	2800	11.0	140	0.17	1300	2800	
		$n_1 = 900 \text{ min}^{-1}$					$n_1 = 500 \text{ min}^{-1}$					
F 10 2_7.4		122	91	1.2	1300	1890	68	111	0.83	1300	2300	85
F 10 2_9.8		92	107	1.1	1300	2050	51	130	0.73	1300	2490	
F 10 2_13.0		69	124	0.95	1300	2240	38	140	0.59	1300	2760	
F 10 2_14.6		62	138	0.94	1300	2320	34	140	0.53	1300	2800	
F 10 2_19.3		47	140	0.72	1300	2580	26	140	0.40	1300	2800	
F 10 2_25.8		35	140	0.54	1300	2800	19	140	0.30	1300	2800	
F 10 2_33.0		27	140	0.42	1300	2800	15	140	0.23	1300	2800	
F 10 2_39.6		23	140	0.35	1300	2800	13	140	0.19	1300	2800	
F 10 2_48.7		18	140	0.28	1300	2800	10	140	0.16	1300	2800	
F 10 2_63.0		14	140	0.22	1300	2800	8	140	0.12	1300	2800	
F 10 2_71.1		13	140	0.20	1300	2800	7	140	0.11	1300	2800	
F 10 2_91.5		10	140	0.15	1300	2800	5	140	0.08	1300	2800	
F 10 2_106.0		8	140	0.13	1300	2800	5	140	0.07	1300	2800	
F 10 2_127.1		7	140	0.11	1300	2800	4	140	0.06	1300	2800	



# F 20

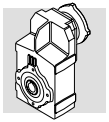
# 250 Nm



	i	$n_1 = 2800 \text{ min}^{-1}$					$n_1 = 1400 \text{ min}^{-1}$					
		$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	
F 20 2_6.4	438	103	5.0	—	1370	219	130	3.1	—	1720	89	
F 20 2_8.7	322	123	4.4	—	1490	161	155	2.7	—	1870		
F 20 2_11.2	250	141	3.9	—	1590	125	177	2.4	—	2010		
F 20 2_14.8	189	166	3.5	760	1740	95	203	2.1	1010	2210		
F 20 2_20.2	139	182	2.8	810	1940	69	223	1.7	1070	2460		
F 20 2_25.9	108	196	2.3	830	2110	54	240	1.4	1100	2680		
F 20 2_33.1	85	210	2.0	800	2300	42	250	1.2	1120	2940		
F 20 2_41.8	67	225	1.7	780	2490	33	250	0.92	1220	3240		
F 20 2_50.7	55	238	1.4	780	2660	27.6	250	0.76	1320	3500		
F 20 2_61.9	45	250	1.2	750	2860	22.6	250	0.62	1370	3790		
F 20 2_76.8	36	250	1.0	780	3130	18.2	250	0.50	1380	4000		
F 20 2_90.4	31	250	0.85	830	3340	15.5	250	0.43	1390	4000		
F 20 2_114.3	24	250	0.67	850	3670	12.2	250	0.34	1400	4000		
F 20 2_132.2	21	250	0.58	870	3890	10.6	250	0.29	1400	4000		
F 20 3_172.6	16	250	0.46	1130	4000	8.1	250	0.23	1300	4000		
F 20 3_209.3	13	250	0.38	1190	4000	6.7	250	0.19	1300	4000		
F 20 3_255.3	11	250	0.31	1240	4000	5.5	250	0.15	1300	4000		
F 20 3_316.9	9	250	0.25	1280	4000	4.4	250	0.12	1300	4000		
F 20 3_372.9	8	250	0.21	1300	4000	3.8	250	0.11	1300	4000		
F 20 3_471.7	6	250	0.17	1300	4000	3.0	250	0.08	1300	4000		
F 20 3_545.3	5	250	0.15	1300	4000	2.6	250	0.07	1300	4000		

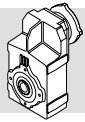
	$n_1 = 900 \text{ min}^{-1}$					$n_1 = 500 \text{ min}^{-1}$					
F 20 2_6.4	141	150	2.3	—	1990	78	183	1.6	—	2420	89
F 20 2_8.7	103	180	2.1	—	2170	57	219	1.4	—	2640	
F 20 2_11.2	80	205	1.8	—	2330	45	250	1.2	—	2830	
F 20 2_14.8	61	232	1.6	1210	2570	34	250	0.93	1790	3230	
F 20 2_20.2	45	250	1.2	1320	2870	25	250	0.68	1960	3650	
F 20 2_25.9	35	250	0.96	1500	3190	19.3	250	0.53	2010	4000	
F 20 2_33.1	27.2	250	0.75	1580	3520	15.1	250	0.42	2040	4000	
F 20 2_41.8	21.5	250	0.59	1610	3870	12.0	250	0.33	2070	4000	
F 20 2_50.7	17.8	250	0.49	1640	4000	9.9	250	0.27	2090	4000	
F 20 2_61.9	14.5	250	0.40	1660	4000	8.1	250	0.22	2110	4000	
F 20 2_76.8	11.7	250	0.32	1670	4000	6.5	250	0.18	2120	4000	
F 20 2_90.4	10.0	250	0.27	1680	4000	5.5	250	0.15	2130	4000	
F 20 2_114.3	7.9	250	0.22	1690	4000	4.4	250	0.12	2140	4000	
F 20 2_132.2	6.8	250	0.19	1690	4000	3.8	250	0.10	2150	4000	
F 20 3_172.6	5.2	250	0.15	1300	4000	2.9	250	0.08	1300	4000	
F 20 3_209.3	4.3	250	0.12	1300	4000	2.4	250	0.07	1300	4000	
F 20 3_255.3	3.5	250	0.10	1300	4000	2.0	250	0.06	1300	4000	
F 20 3_316.9	2.8	250	0.08	1300	4000	1.6	250	0.04	1300	4000	
F 20 3_372.9	2.4	250	0.07	1300	4000	1.3	250	0.04	1300	4000	
F 20 3_471.7	1.9	250	0.05	1300	4000	1.1	250	0.03	1300	4000	
F 20 3_545.3	1.7	250	0.05	1300	4000	0.9	250	0.03	1300	4000	

(-) Interpellare il ns. servizio tecnico comunicando i dati relativi al carico radiale (senso di rotazione, orientamento, posizione)  
 (-) Contact our technical service department advising radial load data (rotation direction, orientation, position)  
 (-) Nehmen Sie bitte Kontakt mit unserem Applikationsdienst und Querkraftsdaten angeben (Drehrichtung, Orientierung, Anordnung)  
 (-) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)





	i	$n_1 = 2800 \text{ min}^{-1}$					$n_1 = 1400 \text{ min}^{-1}$					
		$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	
F 30 2_6.9	406	220	9.8	—	3010	203	280	6.3	—	3790	93	
F 30 2_9.0	311	250	8.6	—	3250	156	315	5.4	—	4090		
F 30 2_12.0	233	270	6.9	—	3590	117	345	4.4	—	4500		
F 30 2_15.1	185	290	5.9	—	3890	93	370	3.8	—	4880		
F 30 2_19.5	144	310	4.9	—	4250	72	380	3.0	210	5400		
F 30 2_24.4	115	330	4.2	—	4600	57	380	2.4	440	5930		
F 30 2_28.9	97	340	3.6	—	4900	48	380	2.0	580	6370		
F 30 2_35.0	80	350	3.1	—	5280	40	360	1.6	960	6500		
F 30 3_40.2	70	380	3.0	1860	5470	35	470	1.8	2200	6500		
F 30 3_52.1	54	420	2.5	1860	5940	26.9	510	1.5	2200	6500		
F 30 3_69.1	41	460	2.1	1870	6500	20.3	550	1.3	2200	6500		
F 30 3_87.4	32	490	1.8	1880	6500	16.0	550	1.0	2200	6500		
F 30 3_112.5	24.9	530	1.5	1870	6500	12.4	550	0.77	2200	6500		
F 30 3_140.7	19.9	550	1.2	1870	6500	10.0	550	0.62	2200	6500		
F 30 3_166.8	16.8	550	1.0	1880	6500	8.4	550	0.52	2200	6500		
F 30 3_202.3	13.8	550	0.86	1890	6500	6.9	550	0.43	2200	6500		
F 30 3_253.6	11.0	550	0.69	1900	6500	5.5	550	0.34	2200	6500		
F 30 3_293.8	9.5	550	0.59	1900	6500	4.8	550	0.30	2200	6500		
F 30 3_374.4	7.5	550	0.46	1910	6500	3.7	550	0.23	2200	6500		
F 30 4_462.6	6.1	550	0.39	1300	6500	3.0	55	0.02	1300	6500		
F 30 4_578.6	4.8	550	0.31	1300	6500	2.4	550	0.15	1300	6500		
F 30 4_685.6	4.1	550	0.26	1300	6500	2.0	550	0.13	1300	6500		
F 30 4_831.6	3.4	550	0.21	1300	6500	1.7	550	0.11	1300	6500		
F 30 4_1042	2.7	550	0.17	1300	6500	1.3	550	0.09	1300	6500		
F 30 4_1208	2.3	550	0.15	1300	6500	1.2	550	0.07	1300	6500		
F 30 4_1539	1.8	550	0.12	1300	6500	0.9	550	0.06	1300	6500		
		$n_1 = 900 \text{ min}^{-1}$					$n_1 = 500 \text{ min}^{-1}$					
F 30 2_6.9	130	325	4.7	—	4380	72	380	3.0	340	5400	93	
F 30 2_9.0	100	365	4.0	—	4740	56	380	2.3	1080	6020		
F 30 2_12.0	75	380	3.1	330	5290	42	380	1.7	1690	6500		
F 30 2_15.1	60	380	2.5	720	5850	33	380	1.4	2080	6500		
F 30 2_19.5	46	380	1.9	1070	6500	25.6	380	1.1	2200	6500		
F 30 2_24.4	37	380	1.5	1300	6500	20.5	380	0.86	2200	6500		
F 30 2_28.9	31	380	1.3	1440	6500	17.3	380	0.72	2200	6500		
F 30 2_35.0	25.7	360	1.0	1820	6500	14.3	360	0.57	2200	6500		
F 30 3_40.2	22.4	540	1.4	2200	6500	12.4	550	0.77	2200	6500		
F 30 3_52.1	17.3	550	1.1	2200	6500	9.6	550	0.60	2200	6500		
F 30 3_69.1	13.0	550	0.81	2200	6500	7.2	550	0.45	2200	6500		
F 30 3_87.4	10.3	550	0.64	2200	6500	5.7	550	0.36	2200	6500		
F 30 3_112.5	8.0	550	0.50	2200	6500	4.4	550	0.28	2200	6500		
F 30 3_140.7	6.4	550	0.40	2200	6500	3.6	550	0.22	2200	6500		
F 30 3_166.8	5.4	550	0.34	2200	6500	3.0	550	0.19	2200	6500		
F 30 3_202.3	4.4	550	0.28	2200	6500	2.5	550	0.15	2200	6500		
F 30 3_253.6	3.5	550	0.22	2200	6500	2.0	550	0.12	2200	6500		
F 30 3_293.8	3.1	550	0.19	2200	6500	1.7	550	0.11	2200	6500		
F 30 3_374.4	2.4	550	0.15	2200	6500	1.3	550	0.08	2200	6500		
F 30 4_462.6	1.9	550	0.12	1300	6500	1.1	550	0.07	1300	6500		
F 30 4_578.6	1.6	550	0.10	1300	6500	0.86	550	0.06	1300	6500		
F 30 4_685.6	1.3	550	0.08	1300	6500	0.73	550	0.05	1300	6500		
F 30 4_831.6	1.1	550	0.07	1300	6500	0.60	550	0.04	1300	6500		
F 30 4_1042	0.9	550	0.06	1300	6500	0.48	550	0.03	1300	6500		
F 30 4_1208	0.7	550	0.05	1300	6500	0.41	550	0.03	1300	6500		
F 30 4_1539	0.6	550	0.04	1300	6500	0.32	550	0.02	1300	6500		

(-) Interpellare il ns. servizio tecnico comunicando i dati relativi al carico radiale (senso di rotazione, orientamento, posizione)  
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 (-) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)

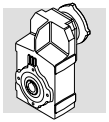




# F 40

# 950 Nm

	i	$n_1 = 2800 \text{ min}^{-1}$					$n_1 = 1400 \text{ min}^{-1}$						
		$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N		
F 40 2_6.7	418	390	17.9	—	3580	209	490	11.3	—	4510	97		
F 40 2_9.1	308	440	14.9	—	3930	154	550	9.3	—	4970			
F 40 2_11.8	237	490	12.8	—	4240	119	620	8.1	—	5330			
F 40 2_15.1	185	515	10.5	—	4660	93	650	6.6	—	5870			
F 40 2_18.8	149	540	8.9	—	5070	74	680	5.6	—	6390			
F 40 2_23.8	118	570	7.4	—	5540	59	700	4.5	190	7050			
F 40 2_29.9	94	600	6.2	—	6030	47	640	3.3	1160	8020			
F 40 2_35.3	79	580	5.1	330	6570	40	580	2.5	1920	8500			
F 40 3_37.9	74	610	5.1	2840	6670	37	750	3.1	3500	8500			
F 40 3_51.5	54	700	4.3	2830	7290	27.2	860	2.6	3500	8500			
F 40 3_66.5	42	790	3.8	2830	7840	21.1	950	2.3	3500	8500			
F 40 3_84.9	33	850	3.2	2820	8500	16.5	950	1.8	3500	8500			
F 40 3_106.0	26.4	910	2.7	2820	8500	13.2	950	1.4	3500	8500			
F 40 3_134.4	20.8	95	0.2	2820	8500	10.4	950	1.1	3500	8500			
F 40 3_168.7	16.6	950	1.8	2840	8500	8.3	950	0.89	3500	8500			
F 40 3_198.9	14.1	950	1.5	2850	8500	7.0	950	0.76	3500	8500			
F 40 3_240.1	11.7	950	1.3	2860	8500	5.8	950	0.63	3500	8500			
F 40 3_296.6	9.4	950	1.0	2870	8500	4.7	950	0.51	3500	8500			
F 40 3_344.8	8.1	950	0.87	2880	8500	4.1	950	0.44	3500	8500			
F 40 4_433.7	6.5	950	0.71	1300	8500	3.2	950	0.36	1300	8500			
F 40 4_549.8	5.1	950	0.56	1300	8500	2.5	950	0.28	1300	8500			
F 40 4_690.1	4.1	950	0.45	1300	8500	2.0	950	0.22	1300	8500			
F 40 4_813.8	3.4	950	0.38	1300	8500	1.7	950	0.19	1300	8500			
F 40 4_982.4	2.9	950	0.31	1300	8500	1.4	950	0.16	1300	8500			
F 40 4_1213	2.3	950	0.25	1300	8500	1.2	950	0.13	1300	8500			
F 40 4_1411	2.0	950	0.22	1300	8500	1.0	950	0.11	1300	8500			
		$n_1 = 900 \text{ min}^{-1}$					$n_1 = 500 \text{ min}^{-1}$						
F 40 2_6.7	134	570	8.4	—	5220	75	600	4.9	1510	6690		97	
F 40 2_9.1	99	640	7.0	—	5750	55	700	4.2	1100	7280			
F 40 2_11.8	76	700	5.9	130	6250	42	700	3.3	2060	8150			
F 40 2_15.1	60	700	4.6	610	6990	33	700	2.6	2540	8500			
F 40 2_18.8	48	700	3.7	1050	7730	26.6	700	2.0	2980	8500			
F 40 2_23.8	38	700	2.9	1420	8500	21.0	700	1.6	3350	8500			
F 40 2_29.9	30	640	2.1	2390	8500	16.7	640	1.2	3500	8500			
F 40 2_35.3	25.5	580	1.6	3140	8500	14.2	580	0.9	3500	8500			
F 40 3_37.9	23.7	860	2.3	3500	8500	13.2	950	1.4	3500	8500			
F 40 3_51.5	17.5	950	1.9	3500	8500	9.7	950	1.0	3500	8500			
F 40 3_66.5	13.5	950	1.5	3500	8500	7.5	950	0.81	3500	8500			
F 40 3_84.9	10.6	950	1.1	3500	8500	5.9	950	0.63	3500	8500			
F 40 3_106.0	8.5	950	0.91	3500	8500	4.7	950	0.51	3500	8500			
F 40 3_134.4	6.7	950	0.72	3500	8500	3.7	950	0.40	3500	8500			
F 40 3_168.7	5.3	950	0.57	3500	8500	3.0	950	0.32	3500	8500			
F 40 3_198.9	4.5	950	0.49	3500	8500	2.5	950	0.27	3500	8500			
F 40 3_240.1	3.7	950	0.40	3500	8500	2.1	950	0.22	3500	8500			
F 40 3_296.6	3.0	950	0.33	3500	8500	1.7	950	0.18	3500	8500			
F 40 3_344.8	2.6	950	0.28	3500	8500	1.5	950	0.16	3500	8500			
F 40 4_433.7	2.1	950	0.23	1300	8500	1.2	950	0.13	1300	8500			
F 40 4_549.8	1.6	950	0.18	1300	8500	0.91	950	0.10	1300	8500			
F 40 4_690.1	1.3	950	0.14	1300	8500	0.72	950	0.08	1300	8500			
F 40 4_813.8	1.1	950	0.12	1300	8500	0.61	950	0.07	1300	8500			
F 40 4_982.4	0.92	950	0.10	1300	8500	0.51	950	0.06	1300	8500			
F 40 4_1213	0.74	950	0.08	1300	8500	0.41	950	0.05	1300	8500			
F 40 4_1411	0.64	950	0.07	1300	8500	0.35	950	0.04	1300	8500			

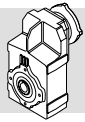
(-) Interpellare il ns. servizio tecnico comunicando i dati relativi al carico radiale (senso di rotazione, orientamento, posizione)  
 (-) Contact our technical service department advising radial load data (rotation direction, orientation, position)  
 (-) Nehmen Sie bitte Kontakt mit unserem Applikationsdienst und Querkraftsdaten an (Drehrichtung, Orientierung, Anordnung)  
 (-) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)





	i	$n_1 = 2800 \text{ min}^{-1}$					$n_1 = 1400 \text{ min}^{-1}$					
		$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	
F 50 2_7.2		389	445	19.1	—	5030	194	560	12.0	—	6340	101
F 50 2_9.1		308	490	16.6	—	5400	154	620	10.5	—	6800	
F 50 2_12.2		230	545	13.8	—	5950	115	690	8.7	—	7490	
F 50 2_15.4		182	590	11.8	—	6440	91	740	7.4	—	8120	
F 50 2_19.5		144	620	9.8	—	7000	72	780	6.2	—	8830	
F 50 2_24.0		117	645	8.3	—	7570	58	810	5.2	—	9550	
F 50 2_30.7		91	680	6.8	—	8270	46	850	4.3	—	10430	
F 50 3_38.9		72	980	8.0	2450	8280	36	1250	5.1	3110	10520	
F 50 3_48.9		57	1090	7.1	2450	8850	28.6	1350	4.4	3100	11210	
F 50 3_65.8		43	1210	5.8	2460	9750	21.3	1600	3.8	3110	12000	
F 50 3_83.2		34	1290	4.9	2480	10620	16.8	1600	3.0	3130	12000	
F 50 3_105.1		26.6	1390	4.2	2460	11460	13.3	1600	2.4	3160	12000	
F 50 3_129.9		21.6	1480	3.6	2450	12000	10.8	1600	1.9	3190	12000	
F 50 3_165.6		16.9	1590	3.0	2450	12000	8.5	1600	1.5	3220	12000	
F 50 3_202.4		13.8	1600	2.5	2460	12000	6.9	1600	1.3	3230	12000	
F 50 3_239.8		11.7	1600	2.1	2470	12000	5.8	1600	1.1	3250	12000	
F 50 3_285.9		9.8	1600	1.8	2480	12000	4.9	1600	0.89	3260	12000	
F 50 3_352.5		7.9	1600	1.4	2480	12000	4.0	1600	0.72	3260	12000	
F 50 4_429.1		6.5	1600	1.2	2200	12000	3.3	1600	0.61	2200	12000	
F 50 4_530.5		5.3	1600	1.0	2200	12000	2.6	1600	0.49	2200	12000	
F 50 4_676.3		4.1	1600	0.77	2200	12000	2.1	1600	0.38	2200	12000	
F 50 4_826.4		3.4	1600	0.63	2200	12000	1.7	1600	0.31	2200	12000	
F 50 4_979.4		2.9	1600	0.53	2200	12000	1.4	1600	0.27	2200	12000	
F 50 4_1168		2.4	1600	0.44	2200	12000	1.2	1600	0.22	2200	12000	
F 50 4_1439		1.9	1600	0.36	2200	12000	1.0	1600	0.18	2200	12000	

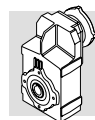
	$n_1 = 900 \text{ min}^{-1}$					$n_1 = 500 \text{ min}^{-1}$						
F 50 2_7.2		125	650	8.9	—	7340	69	790	6.0	—	8930	101
F 50 2_9.1		99	715	7.8	—	7890	55	870	5.3	—	9590	
F 50 2_12.2		74	795	6.5	—	8690	41	970	4.4	—	10570	
F 50 2_15.4		58	860	5.5	—	9400	32	1000	3.6	460	11560	
F 50 2_19.5		46	905	4.6	—	10230	25.6	1000	2.8	880	12000	
F 50 2_24.0		38	940	3.9	—	11060	20.8	1000	2.3	1280	12000	
F 50 2_30.7		29.3	900	2.9	790	12000	16.3	900	1.6	2580	12000	
F 50 3_38.9		23.1	1380	3.6	3500	12000	12.9	1600	2.3	3500	12000	
F 50 3_48.9		18.4	1530	3.2	3500	12000	10.2	1590	1.8	3500	12000	
F 50 3_65.8		13.7	1600	2.5	3500	12000	7.6	1600	1.4	3500	12000	
F 50 3_83.2		10.8	1600	2.0	3500	12000	6.0	1600	1.1	3500	12000	
F 50 3_105.1		8.6	1600	1.5	3500	12000	4.8	1600	0.86	3500	12000	
F 50 3_129.9		6.9	1600	1.3	3500	12000	3.8	1600	0.70	3500	12000	
F 50 3_165.6		5.4	1600	1.0	3500	12000	3.0	1600	0.55	3500	12000	
F 50 3_202.4		4.4	1600	0.80	3500	12000	2.5	1600	0.45	3500	12000	
F 50 3_239.8		3.8	1600	0.68	3500	12000	2.1	1600	0.38	3500	12000	
F 50 3_285.9		3.1	1600	0.57	3500	12000	1.7	1600	0.32	3500	12000	
F 50 3_352.5		2.6	1600	0.46	3500	12000	1.4	1600	0.26	3500	12000	
F 50 4_429.1		2.1	1600	0.39	2200	12000	1.2	1600	0.22	2200	12000	
F 50 4_530.5		1.7	1600	0.31	2200	12000	0.94	1600	0.17	2200	12000	
F 50 4_676.3		1.3	1600	0.25	2200	12000	0.74	1600	0.14	2200	12000	
F 50 4_826.4		1.1	1600	0.20	2200	12000	0.61	1600	0.11	2200	12000	
F 50 4_979.4		0.92	1600	0.17	2200	12000	0.51	1600	0.09	2200	12000	
F 50 4_1168		0.77	1600	0.14	2200	12000	0.43	1600	0.08	2200	12000	
F 50 4_1439		0.63	1600	0.12	2200	12000	0.35	1600	0.06	2200	12000	



(-) Interpellare il ns. servizio tecnico comunicando i dati relativi al carico radiale (senso di rotazione, orientamento, posizione)  
 (-) Contact our technical service department advising radial load data (rotation direction, orientation, position)  
 (-) Nehmen Sie bitte Kontakt mit unserem Applikationsdienst und Querkraftsdaten angeben (Drehrichtung, Orientierung, Anordnung)  
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	i	$n_1 = 2800 \text{ min}^{-1}$					$n_1 = 1400 \text{ min}^{-1}$					
		$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	
F 60 3_9.0	311	920	32	—	13270	156	1160	20	—	16530	105	
F 60 3_9.7	289	1000	33	—	13620	144	1250	20	—	16720		
F 60 3_11.8	237	1030	28	—	14550	119	1300	17.4	—	17840		
F 60 3_12.7	220	1110	28	—	14710	110	1400	17.4	—	18030		
F 60 3_14.5	193	1110	24	—	15450	97	1400	15.3	—	18950		
F 60 3_15.7	178	1200	24	—	15620	89	1500	15.1	—	19170		
F 60 3_19.1	147	1200	20	—	16800	73	1500	12.4	—	20000		
F 60 3_20.7	135	1300	20	—	16970	68	1640	12.5	—	20000		
F 60 3_23.5	119	1260	17	—	17920	60	1590	10.7	—	20000		
F 60 3_25.4	110	1370	17	—	18090	55	1720	10.7	—	20000		
F 60 3_29.6	95	2750	29	820	15920	47	2900	15.5	2630	20000		
F 60 3_32.1	87	2800	28	1290	16200	44	2900	14.3	3260	20000		
F 60 3_38.8	72	2900	24	1260	17480	36	2900	11.8	3480	20000		
F 60 3_42.1	67	2900	22	1820	17910	33	2900	10.9	3720	20000		
F 60 3_47.8	59	2900	19.2	1770	19050	29.3	2900	9.6	3730	20000		
F 60 3_51.8	54	2900	17.7	2290	19530	27.0	2900	8.9	3830	20000		
F 60 3_63.0	44	2900	14.6	2310	20000	22.2	2900	7.3	3850	20000		
F 60 3_68.3	41	2900	13.4	2790	20000	20.5	2900	6.7	3940	20000		
F 60 3_77.6	36	2900	11.8	2620	20000	18.0	2900	5.9	3920	20000		
F 60 3_84.0	33	2900	10.9	2960	20000	16.7	2900	5.5	4010	20000		
F 60 3_98.2	28.5	2900	9.3	2910	20000	14.3	2900	4.7	3980	20000		
F 60 3_106.4	26.3	2900	8.6	3020	20000	13.2	2900	4.3	4070	20000		
F 60 3_120.5	23.2	2900	7.6	2970	20000	11.6	2900	3.8	4030	20000		
F 60 3_130.5	21.5	2900	7.0	3060	20000	10.7	2900	3.5	4110	20000		
F 60 3_150.4	18.6	2900	6.1	3010	20000	9.3	2900	3.0	4060	20000		
F 60 3_162.9	17.2	2900	5.6	3090	20000	8.6	2900	2.8	4140	20000		
F 60 3_185.9	15.1	2900	4.9	3050	20000	7.5	2900	2.5	4100	20000		
F 60 3_201.4	13.9	2900	4.6	3130	20000	7.0	2900	2.3	4180	20000		
F 60 3_217.6	12.9	2900	4.2	3070	20000	6.4	2900	2.1	4120	20000		
F 60 3_235.8	11.9	2900	3.9	3140	20000	5.9	2900	1.9	4190	20000		
F 60 3_259.1	10.8	2900	3.5	3080	20000	5.4	2900	1.8	4130	20000		
F 60 3_280.7	10.0	2900	3.3	3150	20000	5.0	2900	1.6	4200	20000		
F 60 4_315.4	8.9	2900	3.0	3500	20000	4.4	2900	1.5	3500	20000		
F 60 4_341.7	8.2	2900	2.8	3500	20000	4.1	2900	1.4	3500	20000		
F 60 4_399.3	7.0	2900	2.4	3500	20000	3.5	2900	1.2	3500	20000		
F 60 4_432.6	6.5	2900	2.2	3500	20000	3.2	2900	1.1	3500	20000		
F 60 4_489.8	5.7	2900	1.9	3500	20000	2.9	2900	0.96	3500	20000		
F 60 4_530.7	5.3	2900	1.8	3500	20000	2.6	2900	0.89	3500	20000		
F 60 4_611.4	4.6	2900	1.5	3500	20000	2.3	2900	0.77	3500	20000		
F 60 4_662.4	4.2	2900	1.4	3500	20000	2.1	2900	0.71	3500	20000		
F 60 4_756.0	3.7	2900	1.2	3500	20000	1.9	2900	0.62	3500	20000		
F 60 4_819.0	3.4	2900	1.1	3500	20000	1.7	2900	0.57	3500	20000		
F 60 4_885.1	3.2	2900	1.1	3500	20000	1.6	2900	0.53	3500	20000		
F 60 4_958.9	2.9	2900	0.98	3500	20000	1.5	2900	0.49	3500	20000		
F 60 4_1054	2.7	2900	0.89	3500	20000	1.3	2900	0.45	3500	20000		
F 60 4_1141	2.5	2900	0.83	3500	20000	1.2	2900	0.41	3500	20000		

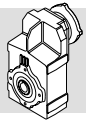
(-) Interpellare il ns. servizio tecnico comunicando i dati relativi al carico radiale (senso di rotazione, orientamento, posizione)  
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	i	$n_1 = 900 \text{ min}^{-1}$					$n_1 = 500 \text{ min}^{-1}$					
		$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	
F 60 3_9.0	100	1340	15.1	—	18840	56	1630	10.2	—	20000	105	
F 60 3_9.7	93	1460	15.3	—	19010	52	1780	10.4	—	20000		
F 60 3_11.8	76	1500	12.9	—	20000	42	1830	8.8	—	20000		
F 60 3_12.7	71	1620	13.0	—	20000	39	1900	8.4	600	20000		
F 60 3_14.5	62	1620	11.4	—	20000	34	1900	7.4	490	20000		
F 60 3_15.7	57	1750	11.3	—	20000	32	1900	6.8	1630	20000		
F 60 3_19.1	47	1750	9.3	—	20000	26.2	1900	5.6	1660	20000		
F 60 3_20.7	43	1900	9.3	—	20000	24.2	1900	5.2	2700	20000		
F 60 3_23.5	38	1840	8.0	—	20000	21.3	1900	4.6	2340	20000		
F 60 3_25.4	35	1900	7.6	620	20000	19.7	1900	4.2	3330	20000		
F 60 3_29.6	30	2900	10.0	4220	20000	16.9	2900	5.5	4700	20000		
F 60 3_32.1	28.0	2900	9.2	4350	20000	15.6	2900	5.1	4700	20000		
F 60 3_38.8	23.2	2900	7.6	4420	20000	12.9	2900	4.2	4700	20000		
F 60 3_42.1	21.4	2900	7.0	4530	20000	11.9	2900	3.9	4700	20000		
F 60 3_47.8	18.8	2900	6.2	4530	20000	10.5	2900	3.4	4700	20000		
F 60 3_51.8	17.4	2900	5.7	4640	20000	9.7	2900	3.2	4700	20000		
F 60 3_63.0	14.3	2900	4.7	4660	20000	7.9	2900	2.6	4700	20000		
F 60 3_68.3	13.2	2900	4.3	4700	20000	7.3	2900	2.4	4700	20000		
F 60 3_77.6	11.6	2900	3.8	4700	20000	6.4	2900	2.1	4700	20000		
F 60 3_84.0	10.7	2900	3.5	4700	20000	6.0	2900	1.9	4700	20000		
F 60 3_98.2	9.2	2900	3.0	4700	20000	5.1	2900	1.7	4700	20000		
F 60 3_106.4	8.5	2900	2.8	4700	20000	4.7	2900	1.5	4700	20000		
F 60 3_120.5	7.5	2900	2.4	4700	20000	4.1	2900	1.4	4700	20000		
F 60 3_130.5	6.9	2900	2.3	4700	20000	3.8	2900	1.3	4700	20000		
F 60 3_150.4	6.0	2900	2.0	4700	20000	3.3	2900	1.1	4700	20000		
F 60 3_162.9	5.5	2900	1.8	4700	20000	3.1	2900	1.0	4700	20000		
F 60 3_185.9	4.8	2900	1.6	4700	20000	2.7	2900	0.88	4700	20000		
F 60 3_201.4	4.5	2900	1.5	4700	20000	2.5	2900	0.81	4700	20000		
F 60 3_217.6	4.1	2900	1.4	4700	20000	2.3	2900	0.75	4700	20000		
F 60 3_235.8	3.8	2900	1.3	4700	20000	2.1	2900	0.69	4700	20000		
F 60 3_259.1	3.5	2900	1.1	4700	20000	1.9	2900	0.63	4700	20000		
F 60 3_280.7	3.2	2900	1.1	4700	20000	1.8	2900	0.58	4700	20000		
F 60 4_315.4	2.9	2900	0.96	3500	20000	1.6	2900	0.53	3500	20000		
F 60 4_341.7	2.6	2900	0.89	3500	20000	1.5	2900	0.49	3500	20000		
F 60 4_399.3	2.3	2900	0.76	3500	20000	1.3	2900	0.42	3500	20000		
F 60 4_432.6	2.1	2900	0.70	3500	20000	1.2	2900	0.39	3500	20000		
F 60 4_489.8	1.8	2900	0.62	3500	20000	1.0	2900	0.34	3500	20000		
F 60 4_530.7	1.7	2900	0.57	3500	20000	0.94	2900	0.32	3500	20000		
F 60 4_611.4	1.5	2900	0.50	3500	20000	0.82	2900	0.28	3500	20000		
F 60 4_662.4	1.4	2900	0.46	3500	20000	0.75	2900	0.25	3500	20000		
F 60 4_756.0	1.2	2900	0.40	3500	20000	0.66	2900	0.22	3500	20000		
F 60 4_819.0	1.1	2900	0.37	3500	20000	0.61	2900	0.21	3500	20000		
F 60 4_885.1	1.0	2900	0.34	3500	20000	0.56	2900	0.19	3500	20000		
F 60 4_958.9	0.94	2900	0.32	3500	20000	0.52	2900	0.18	3500	20000		
F 60 4_1054	0.85	2900	0.29	3500	20000	0.47	2900	0.16	3500	20000		
F 60 4_1141	0.79	2900	0.27	3500	20000	0.44	2900	0.15	3500	20000		



(-) Interpellare il ns. servizio tecnico comunicando i dati relativi al carico radiale (senso di rotazione, orientamento, posizione)  
 (-) Contact our technical service department advising radial load data (rotation direction, orientation, position)  
 (-) Nehmen Sie bitte Kontakt mit unserem Applikationsdienst und Querkraftsdaten angeben (Drehrichtung, Orientierung, Anordnung)  
 (-) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)

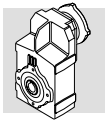






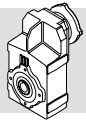
# F 70

# 5000 Nm

	i	$n_1 = 2800 \text{ min}^{-1}$					$n_1 = 1400 \text{ min}^{-1}$					
		$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	
F 70 3_10.0	280	2600	82	1410	14770	140	3200	51	1750	18190	109	
F 70 3_10.9	257	2800	81	1510	14710	128	3450	50	1840	18110		
F 70 3_12.8	219	2900	72	860	15710	109	3600	44	880	19280		
F 70 3_13.9	201	3150	72	810	15570	101	3900	44	880	19120		
F 70 3_16.3	172	3250	63	570	16630	86	4000	39	710	20480		
F 70 3_17.7	158	3550	63	430	16400	79	4350	39	630	20240		
F 70 3_20.9	134	3450	52	690	17990	67	4000	30	2090	22650		
F 70 3_22.6	124	3750	52	640	17800	62	4350	30	2010	22470		
F 70 3_24.6	114	3550	46	560	19040	57	4000	26	2510	24180		
F 70 3_27.7	101	3750	43	5070	19600	51	4650	27	6410	24060		
F 70 3_30.0	93	4050	43	5080	19440	47	5000	26	6420	23910		
F 70 3_35.4	79	4150	37	5070	20880	40	5000	22	6440	25930		
F 70 3_38.4	73	4500	37	5060	20650	36	5000	21	6540	26540		
F 70 3_45.2	62	4600	32	5080	22180	31	5000	17.5	6590	28650		
F 70 3_49.0	57	4600	30	5170	22710	28.6	5000	16.1	6680	29320		
F 70 3_57.7	49	5000	27	5090	23760	24.3	5000	13.7	6680	31570		
F 70 3_62.5	45	5000	25	5170	24330	22.4	5000	12.7	6760	32310		
F 70 3_67.9	41	5000	23	5110	25460	20.6	5000	11.6	6710	33640		
F 70 3_73.6	38	5000	21	5190	26070	19.0	5000	10.7	6790	34420		
F 70 3_85.4	33	5000	18.5	5190	27990	16.4	5000	9.3	6780	35000		
F 70 3_92.5	30	5000	17.1	5260	28650	15.1	5000	8.5	6860	35000		
F 70 3_101.2	27.7	5000	15.6	5220	29970	13.8	5000	7.8	6820	35000		
F 70 3_109.6	25.5	5000	14.4	5290	30670	12.8	5000	7.2	6890	35000		
F 70 3_122.7	22.8	5000	12.9	5250	32340	11.4	5000	6.4	6850	35000		
F 70 3_133.0	21.1	5000	11.9	5320	33100	10.5	5000	5.9	6920	35000		
F 70 3_153.8	18.2	5000	10.3	5280	35000	9.1	5000	5.1	6880	35000		
F 70 3_166.7	16.8	5000	9.5	5350	35000	8.4	5000	4.7	6950	35000		
F 70 3_180.9	15.5	5000	8.7	5310	35000	7.7	5000	4.4	6910	35000		
F 70 3_196.0	14.3	5000	8.1	5370	35000	7.1	5000	4.0	6970	35000		
F 70 4_216.5	12.9	5000	7.5	2130	35000	6.5	5000	3.7	2860	35000		
F 70 4_234.6	11.9	5000	6.9	2130	35000	6.0	5000	3.5	2860	35000		
F 70 4_280.9	10.0	5000	5.8	2200	35000	5.0	5000	2.9	2940	35000		
F 70 4_304.3	9.2	5000	5.3	2200	35000	4.6	5000	2.7	2940	35000		
F 70 4_372.5	7.5	5000	4.4	2260	35000	3.8	5000	2.2	3000	35000		
F 70 4_403.5	6.9	5000	4.0	2260	35000	3.5	5000	2.0	3000	35000		
F 70 4_471.2	5.9	5000	3.4	2300	35000	3.0	5000	1.7	3040	35000		
F 70 4_510.4	5.5	5000	3.2	2300	35000	2.7	5000	1.6	3040	35000		
F 70 4_606.8	4.6	5000	2.7	2340	35000	2.3	5000	1.3	3070	35000		
F 70 4_657.4	4.3	5000	2.5	2340	35000	2.1	5000	1.2	3070	35000		
F 70 4_759.0	3.7	5000	2.1	2360	35000	1.8	5000	1.1	3090	35000		
F 70 4_822.2	3.4	5000	2.0	2360	35000	1.7	5000	1.0	3090	35000		
F 70 4_899.4	3.1	5000	1.8	2370	35000	1.6	5000	0.90	3110	35000		
F 70 4_974.4	2.9	5000	1.7	2370	35000	1.4	5000	0.83	3110	35000		
F 70 4_1091	2.6	5000	1.5	2390	35000	1.3	5000	0.74	3120	35000		
F 70 4_1182	2.4	5000	1.4	2390	35000	1.2	5000	0.69	3120	35000		
F 70 4_1368	2.0	5000	1.2	2400	35000	1.0	5000	0.59	3130	35000		
F 70 4_1481	1.9	5000	1.1	2400	35000	0.95	5000	0.55	3130	35000		
F 70 4_1585	1.8	5000	1.0	2410	35000	0.88	5000	0.51	3140	35000		
F 70 4_1717	1.6	5000	0.95	2410	35000	0.82	5000	0.47	3140	35000		
F 70 4_2019	1.4	5000	0.80	2420	35000	0.69	5000	0.40	3150	35000		
F 70 4_2188	1.3	5000	0.74	2420	35000	0.64	5000	0.37	3150	35000		





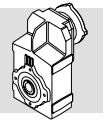
	i	$n_1 = 900 \text{ min}^{-1}$					$n_1 = 500 \text{ min}^{-1}$					
		$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	
F 70 3_10.0	90	3200	33	4870	21660	50	3200	18.1	7000	27010	109	
F 70 3_10.9	83	3450	32	4970	21670	46	3450	17.9	7000	27160		
F 70 3_12.8	70	3850	31	2540	22530	39	3600	15.9	7000	28320		
F 70 3_13.9	65	4200	31	2380	22350	36	3900	15.8	7000	28290		
F 70 3_16.3	55	4000	25	3830	24520	31	4000	13.9	7000	30730		
F 70 3_17.7	51	4350	25	3750	24380	28.2	4350	13.9	7000	30760		
F 70 3_20.9	43	4000	19.5	5210	26970	23.9	4000	10.8	7000	33650		
F 70 3_22.6	40	4350	19.6	5130	26900	22.1	4350	10.9	7000	33750		
F 70 3_24.6	37	4000	16.5	5630	28710	20.3	4000	9.2	7000	35000		
F 70 3_27.7	32	5000	18.4	7000	28090	18.1	4650	9.5	7000	35000		
F 70 3_30.0	30	5000	16.9	7000	28750	16.7	5000	9.4	7000	35000		
F 70 3_35.4	25.4	5000	14.4	7000	31010	14.1	5000	8.0	7000	35000		
F 70 3_38.4	23.4	5000	13.2	7000	31740	13.0	5000	7.4	7000	35000		
F 70 3_45.2	19.9	5000	11.2	7000	34090	11.1	5000	6.2	7000	35000		
F 70 3_49.0	18.4	5000	10.4	7000	34890	10.2	5000	5.8	7000	35000		
F 70 3_57.7	15.6	5000	8.8	7000	35000	8.7	5000	4.9	7000	35000		
F 70 3_62.5	14.4	5000	8.1	7000	35000	8.0	5000	4.5	7000	35000		
F 70 3_67.9	13.3	5000	7.5	7000	35000	7.4	5000	4.2	7000	35000		
F 70 3_73.6	12.2	5000	6.9	7000	35000	6.8	5000	3.8	7000	35000		
F 70 3_85.4	10.5	5000	6.0	7000	35000	5.9	5000	3.3	7000	35000		
F 70 3_92.5	9.7	5000	5.5	7000	35000	5.4	5000	3.1	7000	35000		
F 70 3_101.2	8.9	5000	5.0	7000	35000	4.9	5000	2.8	7000	35000		
F 70 3_109.6	8.2	5000	4.6	7000	35000	4.6	5000	2.6	7000	35000		
F 70 3_122.7	7.3	5000	4.1	7000	35000	4.1	5000	2.3	7000	35000		
F 70 3_133.0	6.8	5000	3.8	7000	35000	3.8	5000	2.1	7000	35000		
F 70 3_153.8	5.9	5000	3.3	7000	35000	3.3	5000	1.8	7000	35000		
F 70 3_166.7	5.4	5000	3.0	7000	35000	3.0	5000	1.7	7000	35000		
F 70 3_180.9	5.0	5000	2.8	7000	35000	2.8	5000	1.6	7000	35000		
F 70 3_196.0	4.6	5000	2.6	7000	35000	2.6	5000	1.4	7000	35000		
F 70 4_216.5	4.2	5000	2.4	3430	35000	2.3	5000	1.3	3500	35000		
F 70 4_234.6	3.8	5000	2.2	3430	35000	2.1	5000	1.2	3500	35000		
F 70 4_280.9	3.2	5000	1.9	3500	35000	1.8	5000	1.0	3500	35000		
F 70 4_304.3	3.0	5000	1.7	3500	35000	1.6	5000	0.95	3500	35000		
F 70 4_372.5	2.4	5000	1.4	3500	35000	1.3	5000	0.78	3500	35000		
F 70 4_403.5	2.2	5000	1.3	3500	35000	1.2	5000	0.72	3500	35000		
F 70 4_471.2	1.9	5000	1.1	3500	35000	1.1	5000	0.62	3500	35000		
F 70 4_510.4	1.8	5000	1.0	3500	35000	0.98	5000	0.57	3500	35000		
F 70 4_606.8	1.5	5000	0.86	3500	35000	0.82	5000	0.48	3500	35000		
F 70 4_657.4	1.4	5000	0.79	3500	35000	0.76	5000	0.44	3500	35000		
F 70 4_759.0	1.2	5000	0.69	3500	35000	0.66	5000	0.38	3500	35000		
F 70 4_822.2	1.1	5000	0.63	3500	35000	0.61	5000	0.35	3500	35000		
F 70 4_899.4	1.0	5000	0.58	3500	35000	0.56	5000	0.32	3500	35000		
F 70 4_974.4	0.92	5000	0.54	3500	35000	0.51	5000	0.30	3500	35000		
F 70 4_1091	0.82	5000	0.48	3500	35000	0.46	5000	0.27	3500	35000		
F 70 4_1182	0.76	5000	0.44	3500	35000	0.42	5000	0.25	3500	35000		
F 70 4_1368	0.66	5000	0.38	3500	35000	0.37	5000	0.21	3500	35000		
F 70 4_1481	0.61	5000	0.35	3500	35000	0.34	5000	0.20	3500	35000		
F 70 4_1585	0.57	5000	0.33	3500	35000	0.32	5000	0.18	3500	35000		
F 70 4_1717	5.26	5000	3.05	3500	35000	2.92	5000	1.70	3500	35000		
F 70 4_2019	0.45	5000	0.26	3500	35000	0.25	5000	0.14	3500	35000		
F 70 4_2188	0.41	5000	0.24	3500	35000	0.23	5000	0.13	3500	35000		





# F 80

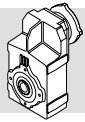
# 8000 Nm

	i	$n_1 = 2800 \text{ min}^{-1}$					$n_1 = 1400 \text{ min}^{-1}$					
		$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	
F 80 3_10.3		272	3250	100	610	17240	136	4100	63	220	21750	113
F 80 3_11.2		250	3520	99	620	17760	125	4440	63	230	21680	
F 80 3_12.9		217	3560	87	670	18880	109	4480	55	350	23080	
F 80 3_14.0		200	3850	87	700	18830	100	4860	55	310	22970	
F 80 3_16.2		173	3760	73	760	20320	86	4740	46	430	24840	
F 80 3_17.6		159	4000	72	730	20260	80	5140	46	410	24730	
F 80 3_20.3		138	4060	63	780	21680	69	5120	40	440	26480	
F 80 3_22.0		127	4400	63	780	21600	64	5540	40	470	26380	
F 80 3_25.2		111	4230	53	700	23290	56	5330	33	360	28470	
F 80 3_28.8		97	6550	72	4590	20500	49	8000	44	5890	25350	
F 80 3_31.3		89	7100	72	4590	20000	45	8000	40	6040	26000	
F 80 3_36.0		78	7250	64	4560	21450	39	8000	35	6110	28090	
F 80 3_39.0		72	6700	54	4890	23010	36	8000	32	6240	28790	
F 80 3_45.3		62	7900	55	4440	22740	31	8000	28	6240	31120	
F 80 3_49.1		57	8000	52	4750	23150	28.5	8000	26	6360	31880	
F 80 3_56.7		49	8000	45	4780	25150	24.7	8000	22	6390	34260	
F 80 3_61.5		46	8000	41	4890	25790	22.8	8000	21	6500	35080	
F 80 3_70.4		40	8000	36	4850	27800	19.9	8000	18.0	6460	37470	
F 80 3_76.3		37	8000	33	4950	28490	18.3	8000	16.6	6560	38360	
F 80 3_85.2		33	8000	30	4940	30280	16.4	8000	14.8	6550	40480	
F 80 3_92.3		30	8000	27	5040	31030	15.2	8000	13.7	6640	41450	
F 80 3_105.0		26.7	8000	24	5000	33150	13.3	8000	12.0	6610	43970	
F 80 3_113.8		24.6	8000	22	5090	33950	12.3	8000	11.1	6700	45000	
F 80 3_122.5		22.9	8000	21	5020	35370	11.4	8000	10.3	6630	45000	
F 80 3_132.7		21.1	8000	19.1	5110	36230	10.6	8000	9.5	6720	45000	
F 80 3_147.9		18.9	8000	17.1	5060	38230	9.5	8000	8.6	6660	45000	
F 80 3_160.2		17.5	8000	15.8	5140	39140	8.7	8000	7.9	6750	45000	
F 80 3_184.6		15.2	8000	13.7	5090	41790	7.6	8000	6.9	6700	45000	
F 80 3_200.0		14.0	8000	12.7	5180	42790	7.0	8000	6.3	6780	45000	
F 80 4_218.5		12.8	8000	11.9	1020	45000	6.4	8000	5.9	2400	45000	
F 80 4_273.9		10.2	8000	9.5	1470	45000	5.1	8000	4.7	2680	45000	
F 80 4_296.7		9.4	8000	8.8	1470	45000	4.7	8000	4.4	2680	45000	
F 80 4_353.7		7.9	8000	7.3	1850	45000	4.0	8000	3.7	2770	45000	
F 80 4_383.2		7.3	8000	6.8	1850	45000	3.7	8000	3.4	2770	45000	
F 80 4_451.5		6.2	8000	5.8	2040	45000	3.1	8000	2.9	2820	45000	
F 80 4_489.1		5.7	8000	5.3	2040	45000	2.9	8000	2.7	2820	45000	
F 80 4_563.9		5.0	8000	4.6	2130	45000	2.5	8000	2.3	2860	45000	
F 80 4_610.9		4.6	8000	4.3	2130	45000	2.3	8000	2.1	2860	45000	
F 80 4_714.9		3.9	8000	3.6	2160	45000	2.0	8000	1.8	2890	45000	
F 804_774.4		3.6	8000	3.4	2160	45000	1.8	8000	1.7	2890	45000	
F 80 4_897.3		3.1	8000	2.9	2200	45000	1.6	8000	1.4	2930	45000	
F 80 4_972.0		2.9	8000	2.7	2200	45000	1.4	8000	1.3	2930	45000	
F 80 4_1058		2.6	8000	2.5	2210	45000	1.3	8000	1.2	2950	45000	
F 80 4_1146		2.4	8000	2.3	2210	45000	1.2	8000	1.1	2950	45000	
F 80 4_1277		2.2	8000	2.0	2230	45000	1.1	8000	1.0	2960	45000	
F 80 4_1384		2.0	8000	1.9	2230	45000	1.0	8000	0.94	2960	45000	
F 80 4_1578		1.8	8000	1.6	2240	45000	0.89	8000	0.82	2970	45000	
F 80 4_1709		1.6	8000	1.5	2240	45000	0.82	8000	0.76	2970	45000	
F 80 4_1834		1.5	8000	1.4	2250	45000	0.76	8000	0.71	2980	45000	
F 80 4_1987		1.4	8000	1.3	2250	45000	0.70	8000	0.65	2980	45000	





	i	$n_1 = 900 \text{ min}^{-1}$					$n_1 = 500 \text{ min}^{-1}$					
		$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	
F 80 3_10.3	87	4740	47	—	24730	49	5770	32	—	29310	113	
F 80 3_11.2	80	5140	47	—	24630	45	6250	32	—	29180		
F 80 3_12.9	70	5200	41	—	26210	39	6320	28	—	31060		
F 80 3_14.0	64	5620	41	—	26100	36	6800	27	—	30970		
F 80 3_16.2	56	5490	34	—	28220	31	6250	22	1540	34170		
F 80 3_17.6	51	5960	34	—	28080	28.4	6800	22	1410	30030		
F 80 3_20.3	44	5930	30	—	30090	24.6	6250	17.4	3710	37270		
F 80 3_22.0	41	6420	30	—	29960	22.7	6800	17.5	3590	37220		
F 80 3_25.2	36	6175	25	—	32360	19.8	6250	14.0	4660	40450		
F 80 3_28.8	31	8000	28	7000	30980	17.4	8000	15.7	7000	39620		
F 80 3_31.3	28.8	8000	26	7000	31740	16.0	8000	14.4	7000	40560		
F 80 3_36.0	25.0	8000	23	7000	34070	13.9	8000	12.6	7000	43270		
F 80 3_39.0	23.1	8000	21	7000	34890	12.8	8000	11.6	7000	44300		
F 80 3_45.3	19.9	8000	18.0	7000	37490	11.0	8000	10.0	7000	45000		
F 80 3_49.1	18.3	8000	16.6	7000	38390	10.2	8000	9.2	7000	45000		
F 80 3_56.7	15.9	8000	14.3	7000	41050	8.8	8000	8.0	7000	45000		
F 80 3_61.5	14.6	8000	13.2	7000	42030	8.1	8000	7.3	7000	45000		
F 80 3_70.4	12.8	8000	11.6	7000	44690	7.1	8000	6.4	7000	45000		
F 80 3_76.3	11.8	8000	10.7	7000	45000	6.6	8000	5.9	7000	45000		
F 80 3_85.2	10.6	8000	9.5	7000	45000	5.9	8000	5.3	7000	45000		
F 80 3_92.3	9.8	8000	8.8	7000	45000	5.4	8000	4.9	7000	45000		
F 80 3_105.0	8.6	8000	7.7	7000	45000	4.8	8000	4.3	7000	45000		
F 80 3_113.8	7.9	8000	7.1	7000	45000	4.4	8000	4.0	7000	45000		
F 80 3_122.5	7.3	8000	6.6	7000	45000	4.1	8000	3.7	7000	45000		
F 80 3_132.7	6.8	8000	6.1	7000	45000	3.8	8000	3.4	7000	45000		
F 80 3_147.9	6.1	8000	5.5	7000	45000	3.4	8000	3.1	7000	45000		
F 80 3_160.2	5.6	8000	5.1	7000	45000	3.1	8000	2.8	7000	45000		
F 80 3_184.6	4.9	8000	4.4	7000	45000	2.7	8000	2.4	7000	45000		
F 80 3_200.0	4.5	8000	4.1	7000	45000	2.5	8000	2.3	7000	45000		
F 80 4_218.5	4.1	8000	3.8	3130	45000	2.3	8000	2.1	3500	45000		
F 80 4_273.9	3.3	8000	3.0	3240	45000	1.8	8000	1.7	3500	45000		
F 80 4_296.7	3.0	8000	2.8	3240	45000	1.7	8000	1.6	3500	45000		
F 80 4_353.7	2.5	8000	2.4	3330	45000	1.4	8000	1.3	3500	45000		
F 80 4_383.2	2.3	8000	2.2	3330	45000	1.3	8000	1.2	3500	45000		
F 80 4_451.5	2.0	8000	1.8	3380	45000	1.1	8000	1.0	3500	45000		
F 80 4_489.1	1.8	8000	1.7	3380	45000	1.0	8000	0.95	3500	45000		
F 80 4_563.9	1.6	8000	1.5	3420	45000	0.89	8000	0.82	3500	45000		
F 80 4_610.9	1.5	8000	1.4	3420	45000	0.82	8000	0.76	3500	45000		
F 80 4_714.9	1.3	8000	1.2	3460	45000	0.70	8000	0.65	3500	45000		
F 80 4_774.4	1.2	8000	1.1	3460	45000	0.65	8000	0.60	3500	45000		
F 80 4_897.3	1.0	8000	0.93	3490	45000	0.56	8000	0.52	3500	45000		
F 80 4_972.0	0.93	8000	0.86	3490	45000	0.51	8000	0.48	3500	45000		
F 80 4_1058	0.85	8000	0.79	3500	45000	0.47	8000	0.44	3500	45000		
F 80 4_1146	0.79	8000	0.73	3500	45000	0.44	8000	0.40	3500	45000		
F 80 4_1277	0.70	8000	0.65	3500	45000	0.39	8000	0.36	3500	45000		
F 80 4_1384	0.65	8000	0.60	3500	45000	0.36	8000	0.34	3500	45000		
F 80 4_1578	0.57	8000	0.53	3500	45000	0.32	8000	0.29	3500	45000		
F 80 4_1709	0.53	8000	0.49	3500	45000	0.29	8000	0.27	3500	45000		
F 80 4_1834	0.49	8000	0.46	3500	45000	0.27	8000	0.25	3500	45000		
F 80 4_1987	0.45	8000	0.42	3500	45000	0.25	8000	0.23	3500	45000		

(-) Interpellare il ns. servizio tecnico comunicando i dati relativi al carico radiale (senso di rotazione, orientamento, posizione)  
 (-) Contact our technical service department advising radial load data (rotation direction, orientation, position)  
 (-) Nehmen Sie bitte Kontakt mit unserem Applikationsdienst und Querkraftsdaten angeben (Drehrichtung, Orientierung, Anordnung)  
 (-) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)

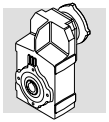




# F 90

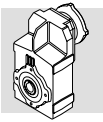
# 14000 Nm

	i	$n_1 = 2800 \text{ min}^{-1}$					$n_1 = 1400 \text{ min}^{-1}$					
		$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	
F 90 3_10.3		272	6500	200	5480	23780	136	8000	123	8000	29280	117
F 90 3_11.1		252	7150	204	5280	23290	126	8800	125	7770	28680	
F 90 3_13.4		209	7550	178	4880	24950	104	9300	110	7280	30710	
F 90 3_14.5		193	8100	177	5000	24650	97	10000	109	7400	30310	
F 90 3_16.5		170	8400	161	4540	25970	85	10300	99	6960	32040	
F 90 3_17.9		156	8950	158	4560	25700	78	11000	97	7180	31670	
F 90 3_20.6		136	9200	141	3980	27360	68	11300	87	6260	33720	
F 90 3_22.3		126	9750	138	4280	27120	63	12000	85	6590	33400	
F 90 3_25.4		110	10050	125	3620	28730	55	12000	75	6310	35980	
F 90 3_28.6		98	9750	108	9800	30870	49	12000	66	12390	38010	
F 90 3_31.0		90	10550	108	9800	30310	45	13000	66	12390	37290	
F 90 3_37.4		75	10950	93	9820	32820	37	13500	57	12420	40380	
F 90 3_40.5		69	11900	93	9820	32050	35	14000	55	12510	40550	
F 90 3_46.1		61	12050	83	9840	34290	30	14000	48	12560	43590	
F 90 3_49.9		56	13050	83	9840	33470	28.1	14000	44	12710	44670	
F 90 3_57.3		49	13050	72	9810	36320	24.4	14000	39	12680	48090	
F 90 3_62.1		45	14000	71	9830	35630	22.5	14000	36	12830	49260	
F 90 3_70.8		40	14000	63	9830	38520	19.8	14000	31	12830	52680	
F 90 3_76.7		37	14000	58	9960	39500	18.3	14000	29	12960	53950	
F 90 3_88.4		32	14000	50	9930	42780	15.8	14000	25	12930	55000	
F 90 3_95.8		29.2	14000	46	10050	43840	14.6	14000	23	13050	55000	
F 90 3_103.3		27.1	14000	43	9960	45920	13.6	14000	21	12960	55000	
F 90 3_111.9		25.0	14000	40	10080	47050	12.5	14000	19.8	13080	55000	
F 90 3_126.8		22.1	14000	35	10030	50250	11.0	14000	17.5	13030	55000	
F 90 3_137.3		20.4	14000	32	10140	51470	10.2	14000	16.1	13140	55000	
F 90 3_150.3		18.6	14000	29	10080	54040	9.3	14000	14.7	13080	55000	
F 90 3_162.8		17.2	14000	27	10220	55000	8.6	14000	13.6	13190	55000	
F 90 3_179.2		15.6	14000	25	10180	55000	7.8	14000	12.4	13100	55000	
F 90 3_194.2		14.4	14000	23	10220	55000	7.2	14000	11.4	13210	55000	
F 90 4_213.6		13.1	14000	21	—	55000	6.6	14000	10.6	—	55000	
F 90 4_231.4		12.1	14000	19.6	—	55000	6.1	14000	9.8	—	55000	
F 90 4_268.7		10.4	14000	16.9	—	55000	5.2	14000	8.5	420	55000	
F 90 4_291.1		9.6	14000	15.6	—	55000	4.8	14000	7.8	420	55000	
F 90 4_361.8		7.7	14000	12.6	—	55000	3.9	14000	6.3	990	55000	
F 90 4_392.0		7.1	14000	11.6	—	55000	3.6	14000	5.8	990	55000	
F 90 4_457.5		6.1	14000	9.9	—	55000	3.1	14000	5.0	1390	55000	
F 90 4_495.6		5.6	14000	9.2	—	55000	2.8	14000	4.6	1390	55000	
F 90 4_577.5		4.8	14000	7.9	—	55000	2.4	14000	3.9	1600	55000	
F 90 4_625.6		4.5	14000	7.3	—	55000	2.2	14000	3.6	1600	55000	
F 90 4_714.0		3.9	14000	6.4	—	55000	2.0	14000	3.2	1800	55000	
F 90 4_773.4		3.6	14000	5.9	—	55000	1.8	14000	2.9	1800	55000	
F 90 4_910.2		3.1	14000	5.0	—	55000	1.5	14000	2.5	2020	55000	
F 90 4_986.0		2.8	14000	4.6	—	55000	1.4	14000	2.3	2020	55000	
F 90 4_1112		2.5	14000	4.1	—	55000	1.3	14000	2.0	2110	55000	
F 90 4_1205		2.3	14000	3.8	—	55000	1.2	14000	1.9	2110	55000	
F 90 4_1318		2.1	14000	3.4	—	55000	1.1	14000	1.7	2220	55000	
F 90 4_1428		2.0	14000	3.2	—	55000	0.98	14000	1.6	2220	55000	
F 90 4_1571		1.8	14000	2.9	—	55000	0.89	14000	1.4	2260	55000	
F 90 4_1702		1.6	14000	2.7	—	55000	0.82	14000	1.3	2260	55000	
F 90 4_1937		1.4	14000	2.3	—	55000	0.72	14000	1.2	2300	55000	
F 90 4_2099		1.3	14000	2.2	—	55000	0.67	14000	1.1	2300	55000	

(-) Interpellare il ns. servizio tecnico comunicando i dati relativi al carico radiale (senso di rotazione, orientamento, posizione)  
 (-) Contact our technical service department advising radial load data (rotation direction, orientation, position)  
 (-) Nehmen Sie bitte Kontakt mit unserem Applikationsdienst und Querkraftsdaten angeben (Drehrichtung, Orientierung, Anordnung)  
 (-) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



	i	$n_1 = 900 \text{ min}^{-1}$					$n_1 = 500 \text{ min}^{-1}$					
		$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	
F 90 3_10.3	87	9150	90	10010	33400	49	9600	53	15000	41900	117	
F 90 3_11.1	81	10050	92	9780	32740	45	10400	53	15000	41630		
F 90 3_13.4	67	10600	80	9270	35090	37	12500	53	12730	42090		
F 90 3_14.5	62	11400	80	9390	34630	34	13550	53	12720	41390		
F 90 3_16.5	55	11750	72	8890	36600	30	12300	42	14580	46420		
F 90 3_17.9	50	12550	71	9140	36180	27.9	13150	41	14820	46160		
F 90 3_20.6	44	12200	60	9100	39650	24.3	12200	33	15000	51030		
F 90 3_22.3	40	13200	60	9120	38970	22.4	13200	33	15000	50650		
F 90 3_25.4	35	12000	48	10430	43830	19.7	12000	27	15000	55000		
F 90 3_28.6	31	13700	49	14400	43400	17.5	14000	28	15000	55000		
F 90 3_31.0	29.0	14000	46	14540	43980	16.1	14000	26	15000	55000		
F 90 3_37.4	24.1	14000	38	14650	48390	13.4	14000	21	15000	55000		
F 90 3_40.5	22.2	14000	35	14820	49570	12.3	14000	19.5	15000	55000		
F 90 3_46.1	19.5	14000	31	14870	52960	10.8	14000	17.2	15000	55000		
F 90 3_49.9	18.0	14000	29	15000	54240	10.0	14000	15.8	15000	55000		
F 90 3_57.3	15.7	14000	25	14990	55000	8.7	14000	13.8	15000	55000		
F 90 3_62.1	14.5	14000	23	15000	55000	8.1	14000	12.7	15000	55000		
F 90 3_70.8	12.7	14000	20.1	15000	55000	7.1	14000	11.2	15000	55000		
F 90 3_76.7	11.7	14000	18.6	15000	55000	6.5	14000	10.3	15000	55000		
F 90 3_88.4	10.2	14000	16.1	15000	55000	5.7	14000	8.9	15000	55000		
F 90 3_95.8	9.4	14000	14.9	15000	55000	5.2	14000	8.3	15000	55000		
F 90 3_103.3	8.7	14000	13.8	15000	55000	4.8	14000	7.7	15000	55000		
F 90 3_111.9	8.0	14000	12.7	15000	55000	4.5	14000	7.1	15000	55000		
F 90 3_126.8	7.1	14000	11.2	15000	55000	3.9	14000	6.2	15000	55000		
F 90 3_137.3	6.6	14000	10.4	15000	55000	3.6	14000	5.8	15000	55000		
F 90 3_150.3	6.0	14000	9.5	15000	55000	3.3	14000	5.3	15000	55000		
F 90 3_162.8	5.5	14000	8.7	15000	55000	3.1	14000	4.9	15000	55000		
F 90 3_179.2	5.0	14000	7.9	15000	55000	2.8	14000	4.4	15000	55000		
F 90 3_194.2	4.6	14000	7.3	15000	55000	2.6	14000	4.1	15000	55000		
F 90 4_213.6	4.2	14000	6.8	810	55000	2.3	14000	3.8	2350	55000		
F 90 4_231.4	3.9	14000	6.3	810	55000	2.2	14000	3.5	2350	55000		
F 90 4_268.7	3.3	14000	5.4	1390	55000	1.9	14000	3.0	2920	55000		
F 90 4_291.1	3.1	14000	5.0	1390	55000	1.7	14000	2.8	2920	55000		
F 90 4_361.8	2.5	14000	4.0	1960	55000	1.4	14000	2.2	3390	55000		
F 90 4_392.0	2.3	14000	3.7	1960	55000	1.3	14000	2.1	3390	55000		
F 90 4_457.5	2.0	14000	3.2	2360	55000	1.1	14000	1.8	3490	55000		
F 90 4_495.6	1.8	14000	2.9	2360	55000	1.0	14000	1.6	3490	55000		
F 90 4_577.5	1.6	14000	2.5	2570	55000	0.87	14000	1.4	3500	55000		
F 90 4_625.6	1.4	14000	2.3	2570	55000	0.80	14000	1.3	3500	55000		
F 90 4_714.0	1.3	14000	2.0	2770	55000	0.70	14000	1.1	3500	55000		
F 90 4_773.4	1.2	14000	1.9	2770	55000	0.65	14000	1.0	3500	55000		
F 90 4_910.2	0.99	14000	1.6	2840	55000	0.55	14000	0.89	3500	55000		
F 90 4_986.0	0.91	14000	1.5	2840	55000	0.51	14000	0.82	3500	55000		
F 90 4_1112	0.81	14000	1.3	2860	55000	0.45	14000	0.73	3500	55000		
F 90 4_1205	0.75	14000	1.2	2860	55000	0.41	14000	0.67	3500	55000		
F 90 4_1318	0.68	14000	1.1	2890	55000	0.38	14000	0.62	3500	55000		
F 90 4_1428	0.63	14000	1.0	2890	55000	0.35	14000	0.57	3500	55000		
F 90 4_1571	0.57	14000	0.93	2900	55000	0.32	14000	0.52	3500	55000		
F 90 4_1702	0.53	14000	0.86	2900	55000	0.29	14000	0.48	3500	55000		
F 90 4_1937	0.46	14000	0.75	2910	55000	0.26	14000	0.42	3500	55000		
F 90 4_2099	0.43	14000	0.70	2910	55000	0.24	14000	0.39	3500	55000		



**28 - PREDISPOSIZIONI  
MOTORE**

**28 - MOTOR AVAILABILITY**

**28 - BAUMÖGLICHKEITEN**

**28 - PREDISPOSITIONS  
MOTEUR**

Nelle tabelle (B18) e (B19) vengono riportati gli abbinamenti motore possibili in termini puramente geometrici.

La scelta del motoriduttore deve essere effettuata seguendo le istruzioni specificate al paragrafo 11, rispettando in particolare la condizione  $S \geq fs$ .

*Please be aware that motor-gearbox combinations resulting from charts (B18) and (B19) are purely based on geometrical compatibility.*

*When selecting a gearmotor, refer to procedure specified at paragraph 11 and observe particularly the condition  $S \geq fs$ .*


In den Tabellen (B18) und (B19) werden die von den Größen her gesehenen möglichen Passungen angegeben.

Die angemessene Getriebewahl muss unter Befolgung der im Paragraph 11 gegebenen Anleitungen und auf der Grundlage der Auswahltablelle der technischen Daten erfolgen.

Dans les tableaux (B18) et (B19) sont indiqués les accouplements possibles en termes des dimensions.

Le choix le plus approprié du motoréducteur à utiliser doit être effectué selon les indications du paragraphe 11, ainsi qu'en fonction des tableaux de sélection, respectant en particulier la condition  $S \geq fs$ .

(B18)

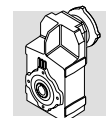
	 IEC (IM B5)											
	P63	P71	P80	P90	P100	P112	P132	P160	P180	P200	P225	P250
<b>F 10 2</b>	7.4_127.1	7.4_127.1	7.4_91.5	7.4_91.5	7.4_91.5	7.4_91.5						
<b>F 20 2</b>	8.7_132.2 (14.8)	8.7_132.2 (14.8)	6.4_114.3	6.4_114.3	6.4_114.3	6.4_114.3						
<b>F 20 3</b>	172.6_545.3	172.6_545.3	172.6_545.3	172.6_545.3	172.6_545.3	172.6_545.3						
<b>F 30 2</b>	12.0_35.0	12.0_35.0	6.9_35.0	6.9_35.0	6.9_35.0	6.9_35.0						
<b>F 30 3</b>	69.1_374.4	69.1_374.4	40.2_374.4	40.2_374.4	40.2_374.4	40.2_374.4						
<b>F30 4</b>	462.6_1539	462.6_1539	462.6_1539	462.6_1539	462.6_1539	462.6_1539						
<b>F 40 2</b>	15.1_35.3	15.1_35.3	6.7_35.3	6.7_35.3	6.7_35.3	6.7_35.3	6.7_29.9					
<b>F 40 3</b>	84.9_344.8	84.9_344.8	37.9_344.8	37.9_344.8	37.9_344.8	37.9_344.8	37.9_168.7					
<b>F 40 4</b>	433.7_1411	433.7_1411	433.7_1411	433.7_1411	433.7_1411	433.7_1411						
<b>F 50 2</b>	19.5_30.7	19.5_30.7	7.2_30.7	7.2_30.7	7.2_30.7	7.2_30.7	7.2_30.7	7.2_30.7	7.2_30.7			
<b>F 50 3</b>	105.1_352.5	105.1_352.5	38.9_352.5	38.9_352.5	38.9_352.5	38.9_352.5	38.9_202.4	38.9_202.4	38.9_202.4			
<b>F 50 4</b>	429.1_1439	429.1_1439	429.1_1439	429.1_1439	429.1_1439	429.1_1439						
<b>F 60 3</b>	98.2_280.7	98.2_280.7	11.8_280.7 (29.6_32.1)	11.8_280.7 (29.6_32.1)	11.8_280.7 (29.6_32.1)	11.8_280.7 (29.6_32.1)	9.0_201.4	9.0_201.4	9.0_201.4			
<b>F 60 4</b>	315.4_1141	315.4_1141	315.4_1141	315.4_1141	315.4_1141	315.4_1141	315.4_1141					
<b>F 70 3</b>			85.4_196.0	85.4_196.0	85.4_196.0	85.4_196.0	16.3_196.0 (27.7_38.4)	10.0_196.0	10.0_196.0	10.0_49.0 (20.9_24.6)		
<b>F 70 4</b>	372.5_2188	372.5_2188	216.5_2188	216.5_2188	216.5_2188	216.5_2188	216.5_822.2					
<b>F 80 3</b>			105.0_200.0	105.0_200.0	105.0_200.0	105.0_200.0	20.3_200 (28.8_49.1)	12.9_200 (28.8_31.3)	10.3_200.0	10.3_132.7	10.3_132.7	
<b>F 80 4</b>	451.5_1987	451.5_1987	218.5_1987	218.5_1987	218.5_1987	218.5_1987	218.5_972					
<b>F 90 3</b>			126.8_194.2	126.8_194.2	126.8_194.2	126.8_194.2	25.4_194.2 (28.6_62.1)	16.5_194.2 (28.6_40.5)	10.3_194.2	10.3_162.8	10.3_162.8	10.3_162.8
<b>F 90 4</b>	577.5_2099	577.5_2099	213.6_2099	213.6_2099	213.6_2099	213.6_2099	213.6_1205	213.6_1205	213.6_1205			

I numeri fra parentesi si riferiscono ai rapporti per i quali non sono applicabili le grandezze motore indicate.


*Combinations featuring the gear ratios within brackets are not possible.*

Die Nummer in Klammern beziehen sich auf die Übersetzungen, für die die angegebenen Motorgrößen nicht anzusetzen sind.

Le nombres entre parenthèses se réfèrent aux rapports pour lesquels les tailles moteur indiquées ne sont pas applicables.



(B19)

						
	<b>M05</b>	<b>M1</b>	<b>M2</b>	<b>M3</b>	<b>M4</b>	<b>M5</b>
<b>F 10 2</b>	7.4_127.1	7.4_127.1	7.4_91.5	7.4_91.5		
<b>F 20 2</b>	8.7_132.2 (14.8)	8.7_132.2 (14.8)	6.4_114.3	6.4_114.3		
<b>F 20 3</b>	172.6_545.3	172.6_545.3	172.6_545.3	172.6_545.3		
<b>F 30 2</b>		12.0_35.0	6.9_35.0	6.9_35.0		
<b>F 30 3</b>		69.1_374.4	40.2_374.4	40.2_374.4		
<b>F 30 4</b>	462.6_1539	462.6_1539	462.6_1539	462.6_1539		
<b>F 40 2</b>		15.1_35.3	6.7_35.3	6.7_35.3	6.7_29.9	
<b>F 40 3</b>		84.9_344.8	37.9_344.8	37.9_344.8	37.9_168.7	
<b>F 40 4</b>	433.7_1411	433.7_1411	433.7_1411	433.7_1411		
<b>F 50 2</b>		19.5_30.7	7.2_30.7	7.2_30.7	7.2_30.7	
<b>F 50 3</b>		105.1_352.5	38.9_352.5	38.9_352.5	38.9_202.4	
<b>F 50 4</b>		429.1_1439	429.1_1439	429.1_1439		
<b>F 60 3</b>			11.8_280.7 (29.6_32.1)	11.8_280.7 (29.6_32.1)	9_201.4	9_201.4
<b>F 60 4</b>		315.4_1141	315.4_1141	315.4_1141	315.4_1141	
<b>F 70 3</b>			85.4_196	85.4_196	16.3_196.0 (27.7_38.4)	10.0_196.0
<b>F 70 4</b>		372.5_2188	216.5_2188	216.5_2188	216.5_822.2	
<b>F 80 3</b>					20.3_200.0 (28.8_49.1)	12.9_200.0 (28.8_31.3)
<b>F 80 4</b>		451.5_1987	218.5_1987	218.5_1987	218.5_972.0	
<b>F 90 3</b>					25.4_194.2 (28.6_62.1)	16.5_194.2 (28.6_40.5)
<b>F 90 4</b>			213.6_2099	213.6_2099	213.6_1205	

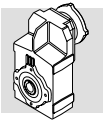
I numeri fra parentesi si riferiscono ai rapporti per i quali non sono applicabili le grandezze motore indicate.

*Combinations featuring the gear ratios within brackets are not possible.*

Die Nummer in Klammern beziehen sich auf die Übersetzungen, für die die angegebenen Motorgrößen nicht anzusetzen sind.

*Le nombres entre parenthèses se réfèrent aux rapports pour lesquels les tailles moteur indiquées ne sont pas applicables.*





## 29 - MOMENTO D'INERZIA

## 29 - MOMENT OF INERTIA

## 29 - TRÄGHEITSMOMENT

## 29 - MOMENT D'INERTIE

Le tabelle seguenti indicano i valori del momento d'inerzia  $J_r$  [ $\text{Kgm}^2$ ] riferiti all'asse veloce del riduttore; per una migliore facilità di lettura riportiamo le definizioni dei simboli usati.

The following charts indicate moment of inertia values  $J_r$  [ $\text{Kgm}^2$ ] referred to the gear unit high speed shaft. A key to the symbols used follows:

Die in den folgenden Tabellen angegebenen Trägheitsmomente  $J_r$  [ $\text{Kgm}^2$ ] beziehen sich auf die Getriebeantriebsachse. Um das Lesen der Tabellen zu erleichtern, werden folgende Symbole verwendet:

Les tableaux suivants indiquent les valeurs du moment d'inertie  $J_r$  [ $\text{Kgm}^2$ ] du niveau de l'arbre rapide du réducteur; pour une plus grande facilité de lecture, nous vous prions de noter les définitions des symboles employés.



I valori riferiti a questo simbolo sono da attribuire al riduttore compatto senza motore. In questo caso, per avere il momento d'inerzia complessivo del motoriduttore, si dovrà sommare il valore corrispondente al riduttore compatto, a quello del motore da applicare (dato reperibile nelle tabelle delle caratteristiche tecniche dei motori elettrici).



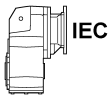
Values under this icon refer to compact gear units, without motor. To obtain the overall moment of inertia for the gearmotor just add the value of the inertia for the specific M style motor, given in the relevant rating chart.



Kompaktgetriebe ohne Motor. In diesem Fall muß man, um das Gesamtträgheitsmoment des Getriebemotors zu erhalten, den dem Kompaktgetriebe mit der gewählten Übersetzung entsprechenden Wert mit dem Wert des anzuschließenden Motors addieren (dieser Wert kann den Elektromotorauswahltabellen entnommen werden).



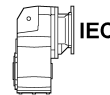
Les valeurs liées à symbole sont à assigner au réducteur compact sans moteur. Dans ce cas, afin d'avoir le moment d'inertie total du motoréducteur, on devra additionner la valeur correspondant au réducteur compact, à celle du moteur à assembler (donnée que l'on peut repérer dans les tableaux des caractéristiques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



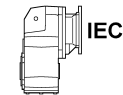
I valori relativi a questi simboli sono da attribuire al riduttore predisposto per attacco motore (grandezza IEC...).



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



Nur Getriebe vorbereitet für IEC-Motor (IEC-Größe...).



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



I valori attribuiti al riduttore sono riferiti a questo simbolo.



This symbol refers to gearbox values.



Dieses Symbol bezieht sich auf Getriebewerte.

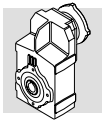






Les valeurs liées au réducteur sont assignées à ce symbole.

# F 10





	i	J ( $\cdot 10^{-4}$ ) [ $\text{Kgm}^2$ ]							
			63	71	80	90	100	112	
F 10 2_7.4	7.4	0.9	2.4	2.4	3.8	3.7	5.0	5.0	1.7
F 10 2_9.8	9.8	0.5	2.0	2.0	3.4	3.3	4.6	4.6	1.4
F 10 2_13.0	13.0	0.3	1.8	1.8	3.2	3.1	4.4	4.4	1.2
F 10 2_14.6	14.6	0.5	2.0	2.0	3.4	3.3	4.6	4.6	1.4
F 10 2_19.3	19.3	0.3	1.8	1.8	3.2	3.1	4.4	4.4	1.2
F 10 2_25.8	25.8	0.2	1.7	1.7	3.1	3.0	4.3	4.3	1.1
F 10 2_33.0	33.0	0.1	1.6	1.6	3.0	2.9	4.2	4.2	1.0
F 10 2_39.6	39.6	0.1	1.6	1.6	3.0	2.9	4.2	4.2	1.0
F 10 2_48.7	48.7	0.07	1.6	1.6	3.0	2.9	4.2	4.2	0.9
F 10 2_63.0	63.0	0.05	1.6	1.6	3.0	2.9	4.2	4.2	0.9
F 10 2_71.1	71.1	0.04	1.5	1.5	2.9	2.8	4.1	4.1	0.9
F 10 2_91.5	91.5	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.9
F 10 2_106.0	106.0	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.9
F 10 2_127.1	127.1	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.9

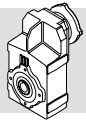
# F 20



	i	J ( $\cdot 10^{-4}$ ) [Kgm <sup>2</sup> ]							
									
			63	71	80	90	100		
F 20 2_6.4	6.4	4.9	6.4	6.4	7.7	7.7	9	9	6.9
F 20 2_8.7	8.7	2.7	4.2	4.2	5.5	5.5	6.8	6.8	4.7
F 20 2_11.2	11.2	1.7	3.2	3.2	4.5	4.5	5.8	5.8	3.6
F 20 2_14.8	14.8	1.9	3.4	3.4	4.7	4.7	6.0	6.0	3.8
F 20 2_20.2	20.2	1.1	2.6	2.6	3.9	3.9	5.2	5.2	3.0
F 20 2_25.9	25.9	0.7	2.2	2.2	3.5	3.5	4.8	4.8	2.6
F 20 2_33.1	33.1	0.4	1.9	1.9	3.2	3.2	4.5	4.5	2.4
F 20 2_41.8	41.8	0.3	1.8	1.8	3.1	3.1	4.4	4.4	2.2
F 20 2_50.7	50.7	0.2	1.7	1.7	3.0	3.0	4.3	4.3	2.1
F 20 2_61.9	61.9	0.2	1.7	1.7	3.0	3.0	4.3	4.3	2.1
F 20 2_76.8	76.8	0.1	1.6	1.6	2.9	2.9	4.2	4.2	2.0
F 20 2_90.4	90.4	0.08	1.6	1.6	2.9	2.9	4.2	4.2	2.0
F 20 2_114.3	114.3	0.05	1.6	1.6	2.9	2.9	4.2	4.2	2.0
F 20 2_132.2	132.2	0.04	1.5	1.5	2.8	2.8	4.1	4.1	2.0
F 20 3_172.6	172.6	0.03	1.5	1.5	2.8	2.8	4.1	4.1	0.9
F 20 3_209.3	209.3	0.02	1.5	1.5	2.8	2.8	4.1	4.1	0.9
F 20 3_255.3	255.3	0.02	1.5	1.5	2.8	2.8	4.1	4.1	0.9
F 20 3_316.9	316.9	0.02	1.5	1.5	2.8	2.8	4.1	4.1	0.9
F 20 3_372.9	372.9	0.02	1.5	1.5	2.8	2.8	4.1	4.1	0.9
F 20 3_471.7	471.7	0.01	1.5	1.5	2.8	2.8	4.1	4.1	0.9
F 20 3_545.3	545.3	0.01	1.5	1.5	2.8	2.8	4.1	4.1	0.9

# F 30

	i	J ( $\cdot 10^{-4}$ ) [Kgm <sup>2</sup> ]							
									
			63	71	80	90	100		
F 30 2_6.9	6.9	4.4	—	—	7.3	7.2	8.5	8.5	6.8
F 30 2_9.0	9.0	2.8	—	—	5.6	5.6	6.9	6.9	5.1
F 30 2_12.0	12.0	1.6	3.0	3.0	4.4	4.4	5.7	5.7	3.9
F 30 2_15.1	15.1	1.1	2.5	2.5	3.9	3.9	5.2	5.2	3.4
F 30 2_19.5	19.5	0.7	2.2	2.2	3.6	3.5	4.8	4.8	3.1
F 30 2_24.4	24.4	0.5	1.9	1.9	3.3	3.2	4.5	4.5	2.8
F 30 2_28.9	28.9	0.4	1.8	1.8	3.2	3.2	4.4	4.4	2.7
F 30 2_35.0	35.0	0.3	1.7	1.7	3.1	3.1	4.3	4.3	2.6
F 30 3_40.2	40.2	1.5	—	—	4.3	4.3	5.6	5.6	3.9
F 30 3_52.1	52.1	1.1	—	—	3.9	3.9	5.1	5.1	3.4
F 30 3_69.1	69.1	0.6	2.1	2.1	3.4	3.4	4.7	4.7	2.9
F 30 3_87.4	87.4	0.5	1.9	1.9	3.3	3.3	4.5	4.5	2.8
F 30 3_112.5	112.5	0.3	1.8	1.8	3.2	3.2	4.4	4.4	2.7
F 30 3_140.7	140.7	0.2	1.7	1.7	3.1	3.1	4.3	4.3	2.6
F 30 3_166.8	166.8	0.2	1.7	1.7	3.0	3.0	4.3	4.3	2.6
F 30 3_202.3	202.3	0.1	1.6	1.6	3.0	3.0	4.2	4.2	2.5
F 30 3_253.6	253.6	0.1	1.6	1.6	2.9	2.9	4.2	4.2	2.5
F 30 3_293.8	293.8	0.08	1.6	1.5	2.9	2.9	4.2	4.2	2.4
F 30 3_374.4	374.4	0.05	1.5	1.5	2.9	2.9	4.1	4.1	2.4

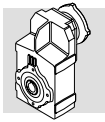


## F 40

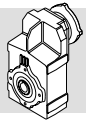
	i	J ( $\cdot 10^{-4}$ ) [Kgm <sup>2</sup> ]								
			63	71	80	90	100	112	132	
F 40 2_6.7	6.7	11.2	—	—	14.0	14.0	15.3	15.3	30.1	21.7
F 40 2_9.1	9.1	6.4	—	—	9.3	9.2	10.5	10.5	25.3	17.0
F 40 2_11.8	11.8	4.0	—	—	6.9	6.8	8.1	8.1	22.9	14.5
F 40 2_15.1	15.1	2.6	4.1	4.1	5.4	5.4	6.7	6.7	21.5	13.1
F 40 2_18.8	18.8	1.8	3.3	3.2	4.6	4.6	5.9	5.9	20.7	10.9
F 40 2_23.8	23.8	1.1	2.6	2.6	3.9	3.9	5.2	5.2	20.0	10.2
F 40 2_29.9	29.9	0.8	2.2	2.2	3.6	3.5	4.8	4.8	19.7	9.9
F 40 2_35.3	35.3	0.6	2.0	2.0	3.4	3.4	4.7	4.7	—	9.7
F 40 3_37.9	37.9	3.5	—	—	6.4	6.3	7.6	7.6	22.4	14.0
F 40 3_51.5	51.5	2.3	—	—	5.1	5.1	6.4	6.4	21.2	12.8
F 40 3_66.5	66.5	1.5	—	—	4.4	4.3	5.6	5.6	20.4	12.0
F 40 3_84.9	84.9	1.1	2.5	2.5	3.9	3.9	5.2	5.2	20.0	11.6
F 40 3_106.0	106.0	0.8	2.3	2.3	3.7	3.6	5.0	5.0	19.7	9.9
F 40 3_134.4	134.4	0.5	2.0	1.9	3.3	3.3	4.6	4.6	19.4	9.6
F 40 3_168.7	168.7	0.4	1.8	1.8	3.2	3.2	4.5	4.5	19.3	9.5
F 40 3_198.9	198.9	0.3	1.8	1.8	3.1	3.1	4.4	4.4	—	9.4
F 40 3_240.1	240.1	0.2	1.7	1.7	3.1	3.0	4.3	4.3	—	9.3
F 40 3_296.6	296.6	0.1	1.6	1.6	3.0	3.0	4.2	4.2	—	9.3
F 40 3_344.8	344.8	0.1	1.6	1.6	3.0	3.0	4.2	4.2	—	9.2

## F 50




	i	J ( $\cdot 10^{-4}$ ) [Kgm <sup>2</sup> ]										
			63	71	80	90	100	112	132	160		180
F 50 2_7.2	7.2	22.9	—	—	25.8	25.7	27.0	27.0	41.8	101	99	33
F 50 2_9.1	9.1	15.3	—	—	18.1	18.0	19.3	19.3	34.2	94	91	25.8
F 50 2_12.2	12.2	9.1	—	—	11.9	11.9	13.2	13.2	28.0	87	85	19.6
F 50 2_15.4	15.4	5.9	—	—	8.8	8.7	10.0	10.0	24.8	84	82	16.4
F 50 2_19.5	19.5	3.9	5.4	5.4	6.4	6.7	8.0	8.0	22.8	82	80	14.4
F 50 2_24.0	24.0	2.7	4.2	4.2	5.5	5.5	6.8	6.8	21.6	81	79	11.8
F 50 2_30.7	30.7	1.7	3.2	3.2	4.6	4.5	5.8	5.8	20.6	80	78	10.8
F 50 2_37.5	37.5	1.2	2.7	2.6	4.0	4.0	5.3	5.3	20.1	79	77	10.3
F 50 3_38.9	38.9	6.7	—	—	9.6	9.5	10.1	10.1	25.6	85	83	17.2
F 50 3_48.9	48.9	5.0	—	—	7.8	7.8	9.1	9.1	23.9	83	81	15.5
F 50 3_65.8	65.8	3.4	—	—	6.3	6.2	7.5	7.5	22.3	82	79	13.9
F 50 3_83.2	83.2	2.4	—	—	5.2	5.1	6.4	6.4	21.3	81	78	12.9
F 50 3_105.1	105.1	1.7	3.1	3.1	4.5	4.5	5.8	5.8	20.6	80	78	12.2
F 50 3_129.9	129.9	1.2	2.7	2.7	4.1	4.0	5.3	5.3	20.1	79	77	10.4
F 50 3_165.6	165.6	0.8	2.3	2.3	3.7	3.6	4.9	4.9	19.7	79	77	9.9
F 50 3_202.4	202.4	0.6	2.1	2.0	3.4	3.4	4.7	4.7	19.5	79	76	9.7
F 50 3_239.8	239.8	0.5	1.9	1.9	3.3	3.3	4.5	4.5	—	—	—	9.6
F 50 3_285.9	285.9	0.3	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	9.5
F 50 3_352.5	352.5	0.2	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	9.3

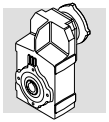





	i	J ( $\cdot 10^{-4}$ ) [Kgm <sup>2</sup> ]										
			63	71	80	90	100	112	132	160	180	
F 60 3_9.0	9.0	40	—	—	—	—	—	—	59	118	116	61
F 60 3_9.7	9.7	38	—	—	—	—	—	—	57	116	114	59
F 60 3_11.8	11.8	25.0	—	—	27.9	27.8	29.1	29.1	44	103	101	46
F 60 3_12.7	12.7	23.9	—	—	26.8	26.7	28.0	28.1	43	102	100	45
F 60 3_14.5	14.5	17.6	—	—	20.5	20.4	21.7	21.7	37	96	94	39
F 60 3_15.7	15.7	16.9	—	—	19.8	19.7	21.0	21.0	36	95	93	38
F 60 3_19.1	19.1	10.3	—	—	13.2	13.1	14.4	14.4	29.2	89	86	31
F 60 3_20.7	20.7	9.9	—	—	12.8	12.7	14.0	14.0	28.8	88	86	31
F 60 3_23.5	23.5	7.3	—	—	10.2	10.1	11.4	11.4	26.2	86	83	28.3
F 60 3_25.4	25.4	7.1	—	—	9.9	9.9	11.1	11.1	26.0	85	83	28.0
F 60 3_29.6	29.6	15.0	—	—	—	—	—	—	33.9	93	91	36
F 60 3_32.1	32.1	14.8	—	—	—	—	—	—	33.7	93	91	36
F 60 3_38.8	38.8	10.6	—	—	13.5	13.4	14.7	14.7	29.5	89	87	32
F 60 3_42.1	42.1	10.5	—	—	13.4	13.3	14.6	14.6	29.4	89	87	31
F 60 3_47.8	47.8	8.2	—	—	11.0	11.0	12.2	12.2	27.1	86	84	29.1
F 60 3_51.8	51.8	8.1	—	—	10.9	10.9	12.2	12.2	27.0	86	84	29.1
F 60 3_63.0	63.0	4.9	—	—	7.7	7.6	8.9	8.9	23.8	83	81	25.8
F 60 3_68.3	68.3	4.8	—	—	7.7	7.6	8.9	8.9	23.7	83	81	25.8
F 60 3_77.6	77.6	3.7	—	—	6.6	6.5	7.8	7.8	22.6	82	80	24.7
F 60 3_84.0	84.0	3.7	—	—	6.5	6.5	7.8	7.8	22.6	82	80	24.6
F 60 3_98.2	98.2	2.7	4.2	4.2	5.6	5.5	6.8	6.8	21.6	81	79	23.7
F 60 3_106.4	106.4	2.7	4.2	4.2	5.5	5.4	6.8	6.8	21.6	81	79	23.6
F 60 3_120.5	120.5	1.8	3.2	3.2	4.6	4.6	5.9	5.9	20.7	80	78	22.7
F 60 3_130.5	130.5	1.8	3.2	3.2	4.6	4.6	5.8	5.8	20.7	80	78	22.7
F 60 3_150.4	150.4	1.3	2.7	2.7	4.1	4.1	5.4	5.4	20.2	80	77	22.2
F 60 3_162.9	162.9	1.3	2.7	2.7	4.1	4.1	5.4	5.4	20.2	80	77	22.2
F 60 3_185.9	185.9	0.9	2.4	2.4	3.8	3.7	5.0	5.0	19.9	79	77	21.9
F 60 3_201.4	201.4	0.9	2.4	2.4	3.8	3.7	5.0	5.0	19.8	79	77	21.9
F 60 3_217.6	217.6	0.7	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	21.7
F 60 3_235.8	235.8	0.7	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	21.7
F 60 3_259.1	259.1	0.5	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	21.5
F 60 3_280.7	280.7	0.5	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	21.5

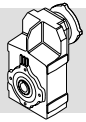


# F 70




	i	J ( $\cdot 10^4$ ) [Kgm <sup>2</sup> ]									
			 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	23.3	—	—	—	42	101	99	108	65	
F 70 3_49.0	49.0	23.1	—	—	—	42	101	99	108	65	
F 70 3_57.7	57.7	16.9	—	—	—	36	95	93	—	58	
F 70 3_62.5	62.5	16.8	—	—	—	36	95	93	—	58	
F 70 3_67.9	67.9	14.0	—	—	—	33	92	90	—	55	
F 70 3_73.6	73.6	13.9	—	—	—	33	92	90	—	55	
F 70 3_85.4	85.4	9.0	11.4	11.4	12.7	12.7	27.9	87	85	—	50
F 70 3_92.5	92.5	9.0	11.4	11.3	12.6	12.6	27.9	87	85	—	50
F 70 3_101.2	101.2	6.3	8.9	8.8	10.1	10.1	25.2	85	82	—	47
F 70 3_109.6	109.6	6.3	8.9	8.8	10.1	10.1	25.2	85	82	—	47
F 70 3_122.7	122.7	5.1	7.9	7.8	9.1	9.1	24.0	83	81	—	46
F 70 3_133.0	133.0	5.1	7.9	7.8	9.1	9.1	24.0	83	81	—	46
F 70 3_153.8	153.8	3.2	6.0	6.0	7.3	7.3	22.1	81	79	—	44
F 70 3_166.7	166.7	3.2	6.0	6.0	7.3	7.3	22.1	81	79	—	44
F 70 3_180.9	180.9	2.3	5.1	5.1	6.3	6.3	21.2	81	78	—	43
F 70 3_196.0	196.0	2.3	5.1	5.0	6.3	6.3	21.2	81	78	—	43

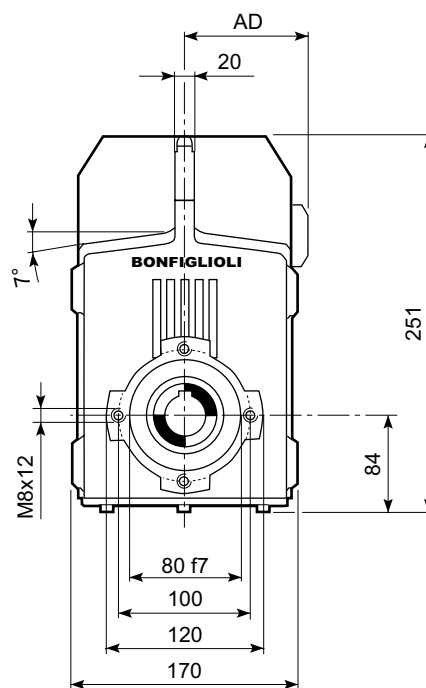
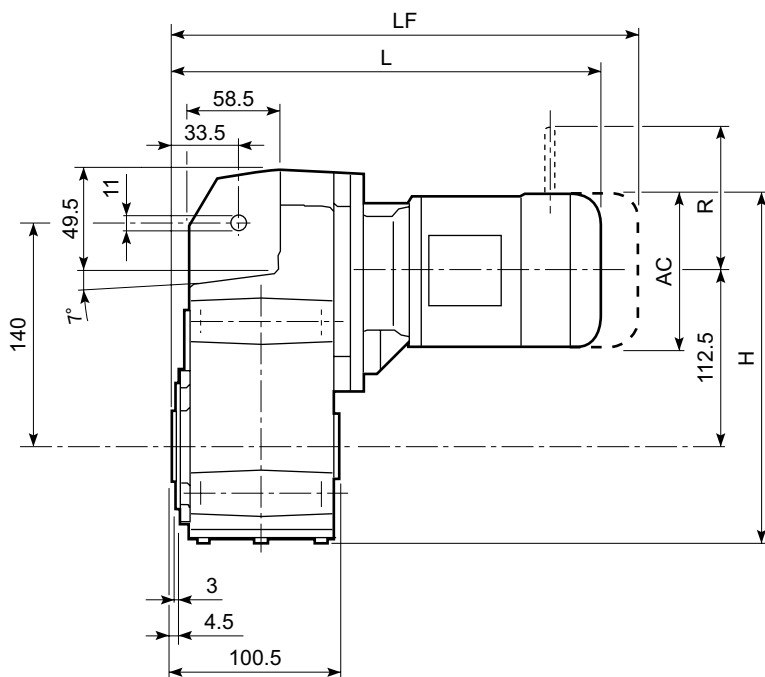
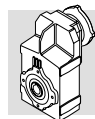


	i	J ( $\cdot 10^4$ ) [Kgm <sup>2</sup> ]										
			 IEC									
			80	90	100	112	132	160	180	200	225	
F 80 3_10.3	10.3	—	—	—	—	—	—	—	286	300	578	252
F 80 3_11.2	11.2	—	—	—	—	—	—	—	277	291	569	244
F 80 3_12.9	12.9	—	—	—	—	—	—	217	218	231	509	184
F 80 3_14.0	14.0	—	—	—	—	—	—	212	212	226	504	178
F 80 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	26.7	—	—	—	—	46	105	103	133	397	68
F 80 3_76.3	76.3	26.5	—	—	—	—	45	105	103	133	396	68
F 80 3_85.2	85.2	20.4	—	—	—	—	39	99	96	126	389	62
F 80 3_92.3	92.3	20.3	—	—	—	—	39	99	96	126	389	61
F 80 3_105.0	105.0	13.6	16.0	15.9	17.2	17.2	32	92	90	119	383	55
F 80 3_113.8	113.8	13.5	15.9	15.9	17.1	17.1	32	92	90	119	382	55
F 80 3_122.5	122.5	12.6	15.2	15.2	16.5	16.5	32	91	89	118	381	54
F 80 3_132.7	132.7	12.6	15.2	15.1	16.4	16.4	31	91	89	118	381	54
F 80 3_147.9	147.9	8.5	11.3	11.2	12.5	12.5	27.4	87	85	114	377	50
F 80 3_160.2	160.2	8.5	11.2	11.1	12.5	12.5	27.4	87	84	—	—	50
F 80 3_184.6	184.6	5.1	7.9	7.8	9.1	9.1	24.0	83	81	—	—	46
F 80 3_200.0	200.0	5.0	7.9	7.8	9.1	9.1	23.9	83	81	—	—	46



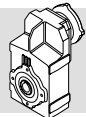
# F 90

	i	J ( $\cdot 10^4$ ) [Kgm <sup>2</sup> ]											
			 IEC										
		80	90	100	112	132	160	180	200	225	250		
F 90 3_10.3	10.3	—	—	—	—	—	—	—	—	843	870	510	
F 90 3_11.1	11.1	—	—	—	—	—	—	—	—	823	850	489	
F 90 3_13.4	13.4	—	—	—	—	—	—	—	—	667	694	333	
F 90 3_14.5	14.5	—	—	—	—	—	—	—	—	655	682	321	
F 90 3_16.5	16.5	—	—	—	—	—	—	—	—	580	607	246	
F 90 3_17.9	17.9	—	—	—	—	—	—	—	—	572	599	238	
F 90 3_20.6	20.6	—	—	—	—	—	224	222	232	516	542	184	
F 90 3_22.3	22.3	—	—	—	—	—	220	217	227	511	537	179	
F 90 3_25.4	25.4	103	—	—	—	122	181	179	188	474	500	142	
F 90 3_28.6	28.6	—	—	—	—	—	—	—	—	585	613	252	
F 90 3_31.0	31.0	—	—	—	—	—	—	—	—	583	610	250	
F 90 3_37.4	37.4	—	—	—	—	—	—	—	—	516	543	182	
F 90 3_40.5	40.5	—	—	—	—	—	—	—	—	514	541	181	
F 90 3_46.1	46.1	—	—	—	—	—	—	—	—	480	507	147	
F 90 3_49.9	49.9	—	—	—	—	—	—	—	—	479	506	146	
F 90 3_57.3	57.3	73	—	—	—	—	161	158	168	452	479	120	
F 90 3_62.1	62.1	72	—	—	—	—	160	158	167	451	478	120	
F 90 3_70.8	70.8	61	—	—	—	80	139	137	146	432	458	100	
F 90 3_76.7	76.7	60	—	—	—	79	139	136	146	431	458	100	
F 90 3_88.4	88.4	44	—	—	—	63	123	120	151	414	441	83	
F 90 3_95.8	95.8	44	—	—	—	63	122	120	151	414	441	83	
F 90 3_103.3	103.3	41	—	—	—	59	119	117	146	410	436	78	
F 90 3_111.9	111.9	40	—	—	—	59	119	116	146	409	436	78	
F 90 3_126.8	126.8	26	29	29	30	30	45	105	102	132	395	422	64
F 90 3_137.3	137.3	26	29	29	30	30	45	104	102	132	395	422	64
F 90 3_150.3	150.3	21	24	24	25	25	40	100	97	127	390	417	59
F 90 3_162.8	162.8	21	24	24	25	25	40	100	97	127	390	417	59
F 90 3_179.2	179.2	14	16	16	18	18	33	92	90	—	—	—	51
F 90 3_194.2	194.2	14	16	16	17	17	33	92	90	—	—	—	51

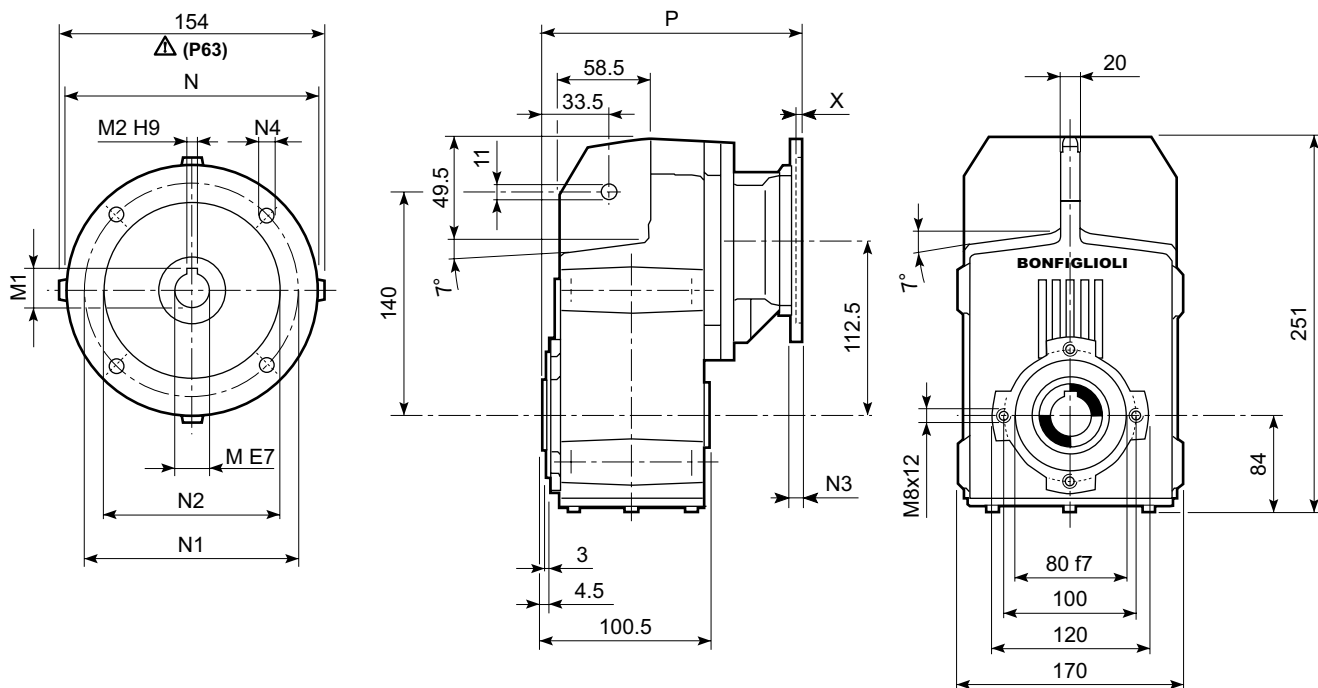


F 10													
Image	Image	Image	AC	H	L	AD	Kg	M_FD		M_FD		M_FA	
								LF	Kg	R	AD	R	AD
F 10 2	S05	M05	121	220.5	311.5	95	12	377.5	13	96	119	116	95
F 10 2	S1	M1S	138	265.5	316.5	108	12	379.5	15	103	132	124	108
F 10 2	S1	M1L	138	265.5	340.5	108	14	401.5	17	103	132	124	108
F 10 2	S2	M2S	156	274.5	369.5	119	18	439.5	21	129	143	134	119
F 10 2	S3	M3S	195	294	412.5	142	22	508.5	30	160	155	160	142
F 10 2	S3	M3L	195	294	444.5	142	24	535.5	31	160	155	160	142

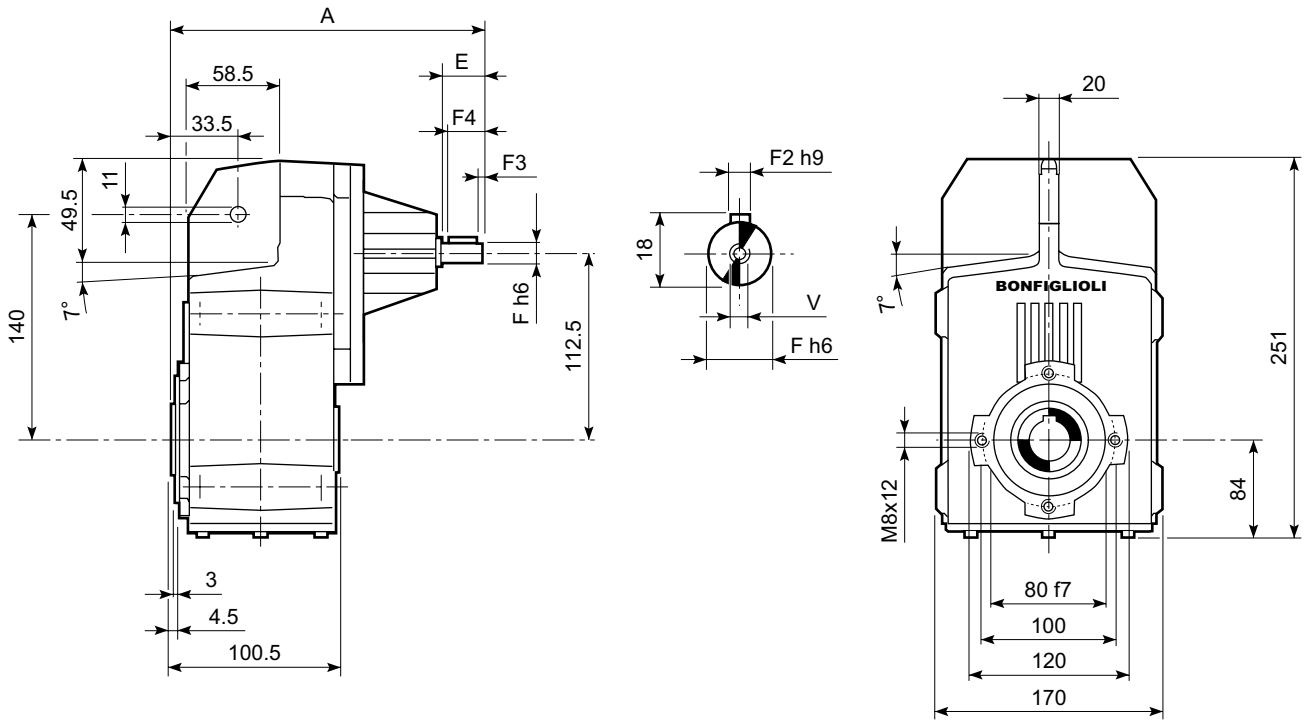
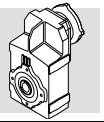




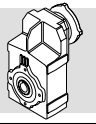
# F 10...P(IEC)



F 10														
		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	—	M10x12	4	205	9
		F 10 2	P90	24	27.3	8	200	165	130	—	M10x12	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

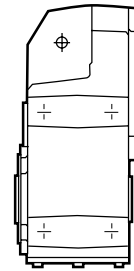
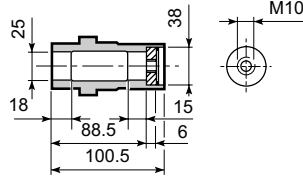
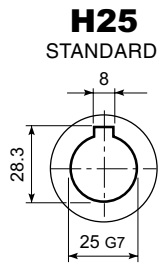


F 10										
		A	E	F	F1	F2	F3	F4	V	
F 10 2	HS	192	40	16	18	5	2.5	35	M6x16	7.5

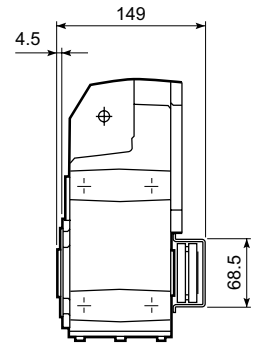
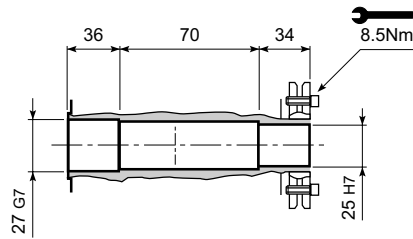


# F 10

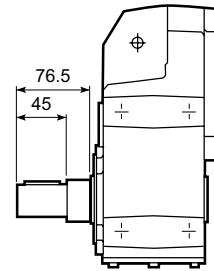
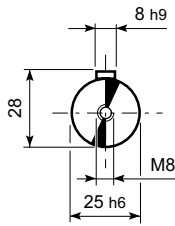
## F 10...H



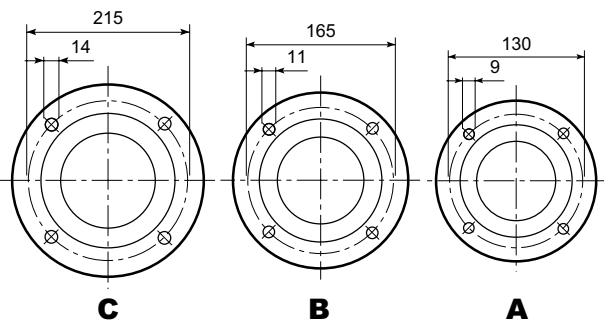
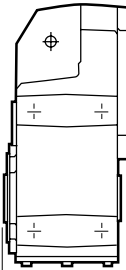
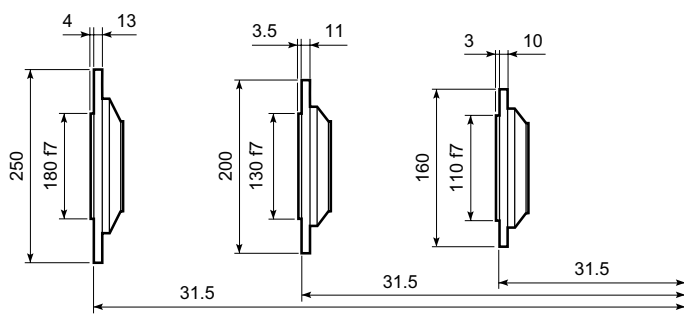
## F 10...S

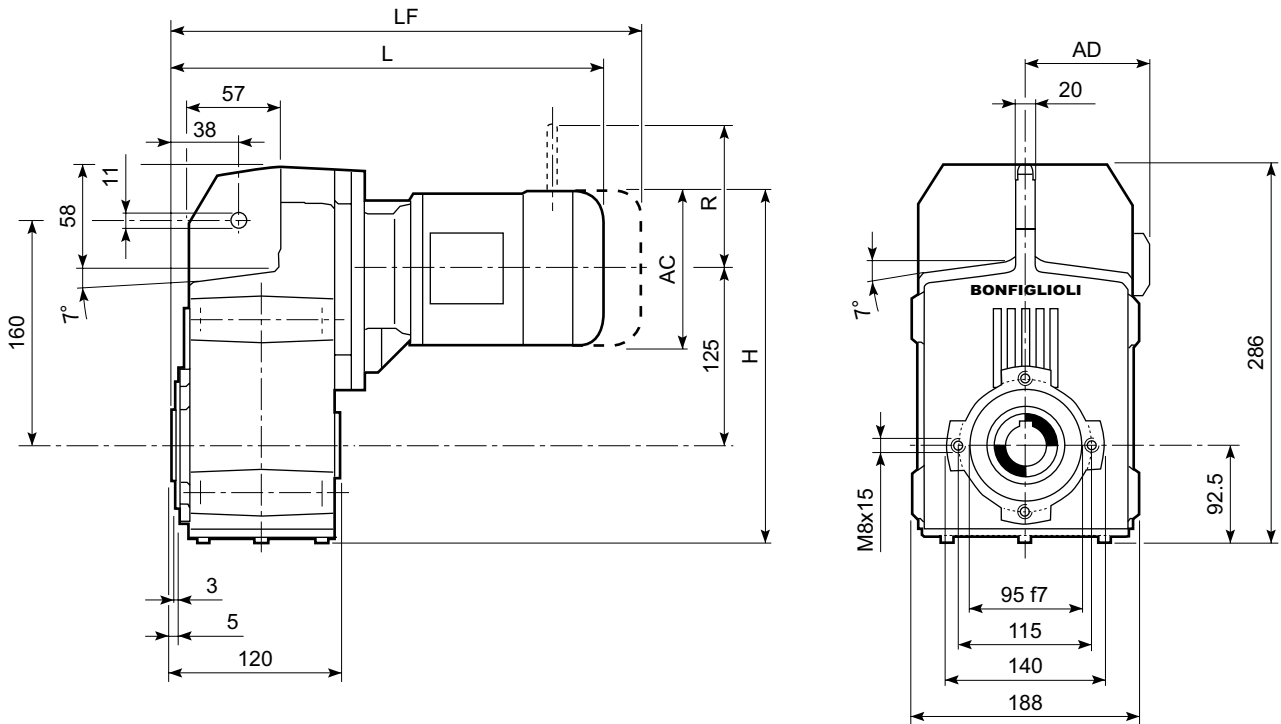
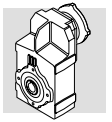


## F 10...R

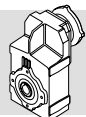


## F 10...F...

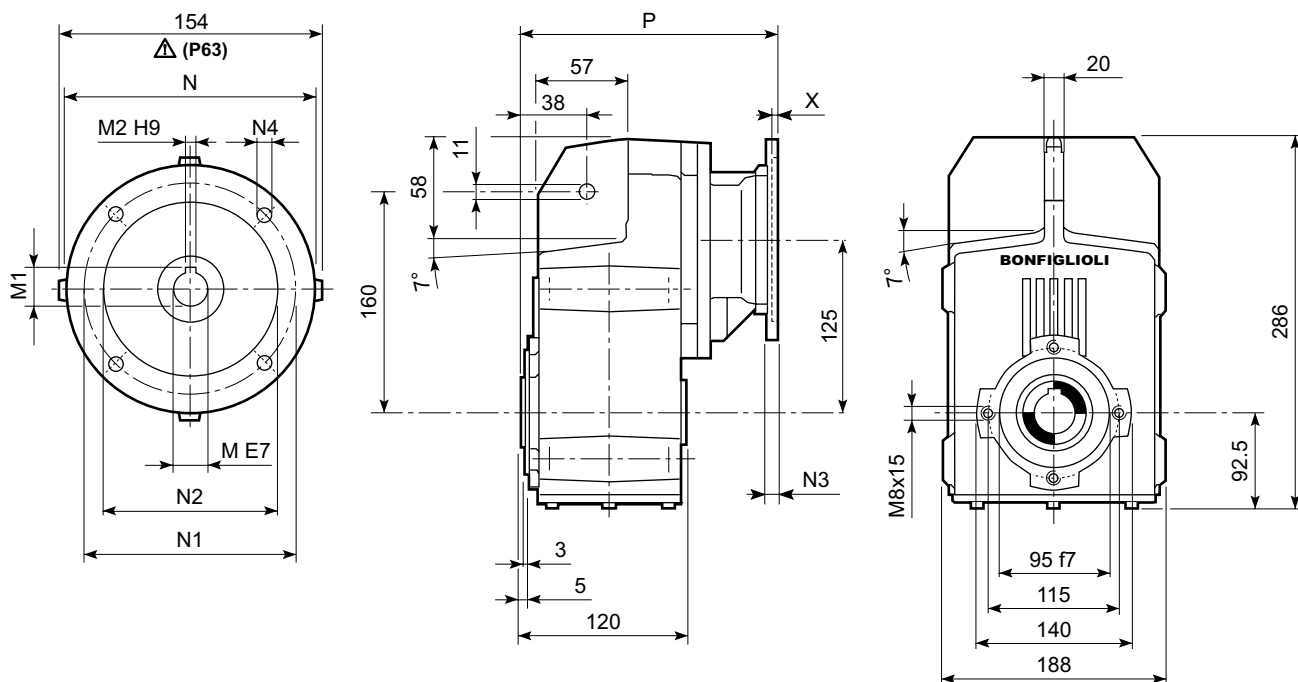




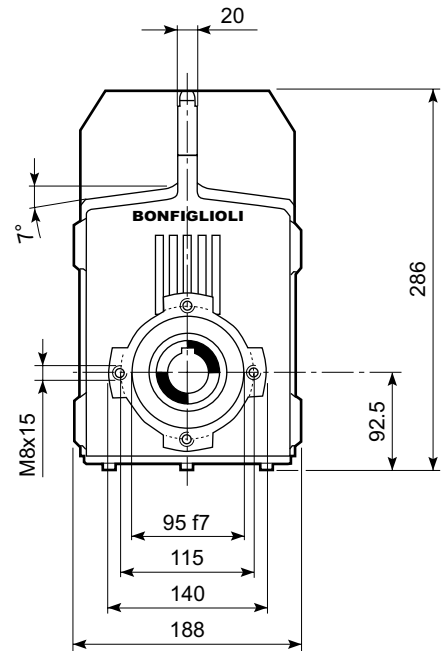
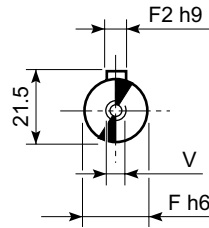
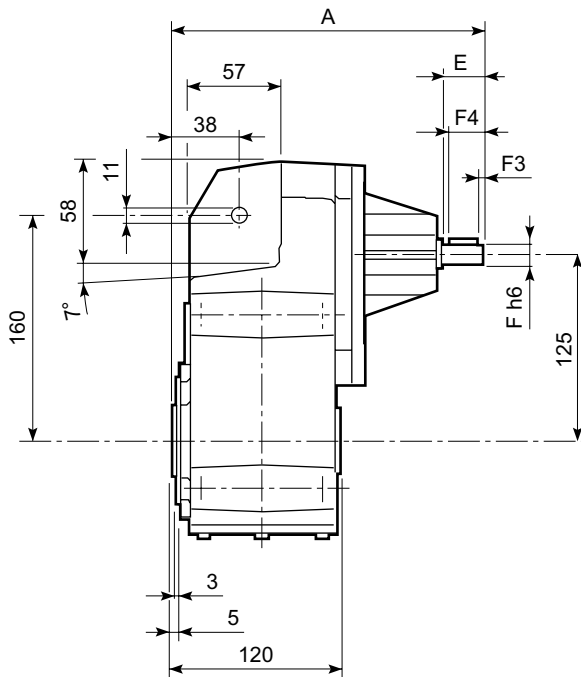
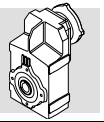
F 20													
Image 1	Image 2	Image 3	AC	H	L	AD	Kg	M_FD M_FA		M_FD		M_FA	
								LF	Kg	R	AD	R	AD
			121	278.2	323.5	95	15	389.5	17	96	119	116	95
<b>F 20 2</b>	<b>S05</b>	<b>M05</b>	138	286.7	328.5	108	16	391.5	19	103	132	124	108
<b>F 20 2</b>	<b>S1</b>	<b>M1S</b>	138	286.7	352.5	108	17	413.5	20	103	132	124	108
<b>F 20 2</b>	<b>S1</b>	<b>M1L</b>	156	295.7	381.5	119	21	451.5	25	129	143	134	119
<b>F 20 2</b>	<b>S2</b>	<b>M2S</b>	195	315.2	424.5	142	26	520.5	33	160	155	160	142
<b>F 20 2</b>	<b>S3</b>	<b>M3S</b>	195	315.2	456.5	142	31	547.5	38	160	155	160	142
<b>F 20 2</b>	<b>S3</b>	<b>M3L</b>	121	278.2	379	95	17	445	18	96	119	116	95
<b>F 20 3</b>	<b>S05</b>	<b>M05</b>	138	286.7	384	108	18	447	20	103	132	124	108
<b>F 20 3</b>	<b>S1</b>	<b>M1S</b>	138	286.7	408	108	19	469	21	103	132	124	108
<b>F 20 3</b>	<b>S1</b>	<b>M1L</b>	156	295.7	437	119	22	507	26	129	143	134	119
<b>F 20 3</b>	<b>S2</b>	<b>M2S</b>	195	315.2	480	142	27	576	34	160	155	160	142
<b>F 20 3</b>	<b>S3</b>	<b>M3S</b>	195	315.2	512	142	32	603	39	160	155	160	142
<b>F 20 3</b>	<b>S3</b>	<b>M3L</b>											





# F 20...P(IEC)

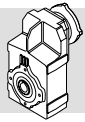


F 20												
		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 20 2	P63	11	12.8	4	140	115	95	—	M8x19	4	197.5	12
F 20 2	P71	14	16.3	5	160	130	110	—	M8x16	4.5	197.5	12
F 20 2	P80	19	21.8	6	200	165	130	—	M10x12	4	217	13
F 20 2	P90	24	27.3	8	200	165	130	—	M10x12	4	217	12
F 20 2	P100	28	31.3	8	250	215	180	—	M12x16	4.5	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	—	M10x12	4	272.5	14
F 20 3	P90	24	27.3	8	200	165	130	—	M10x12	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



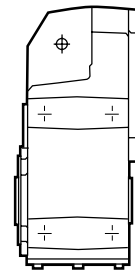
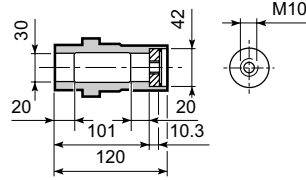
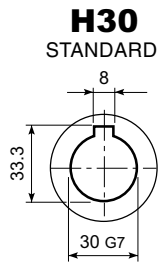
## F 20

		A	E	F	F1	F2	F3	F4	V	Kg
										
<b>F 20 2</b>	<b>HS</b>	247.5	40	19	21.5	6	2.5	35	M6x16	11.5
<b>F 20 3</b>		260	40	16	18	5	2.5	35	M6x16	12.4

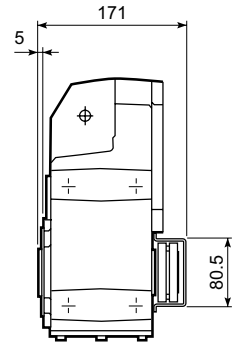
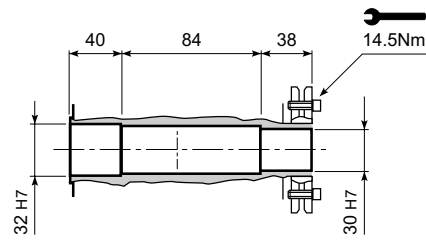


# F 20

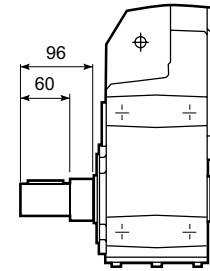
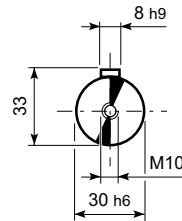
## F 20...H



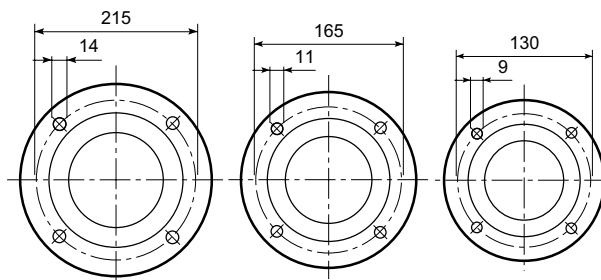
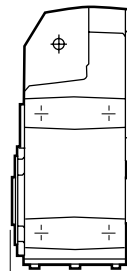
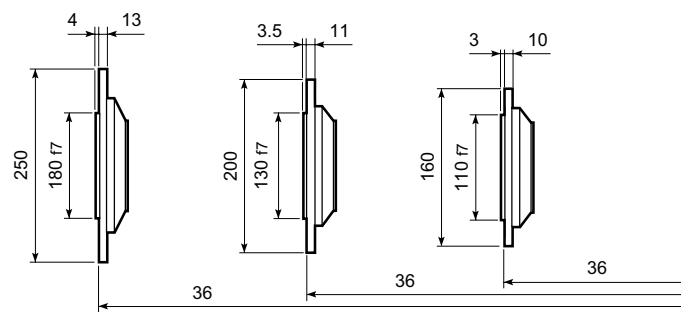
## F 20...S



## F 20...R



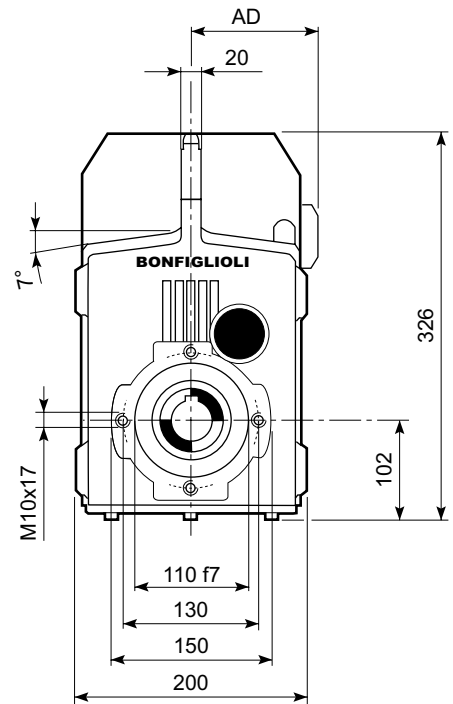
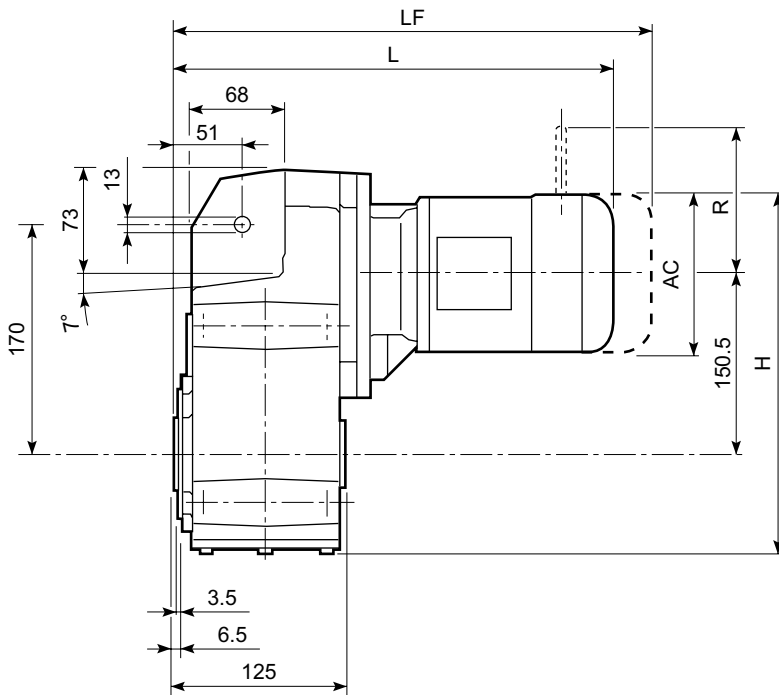
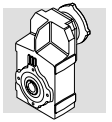
## F 20...F...



C

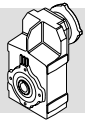
B

A

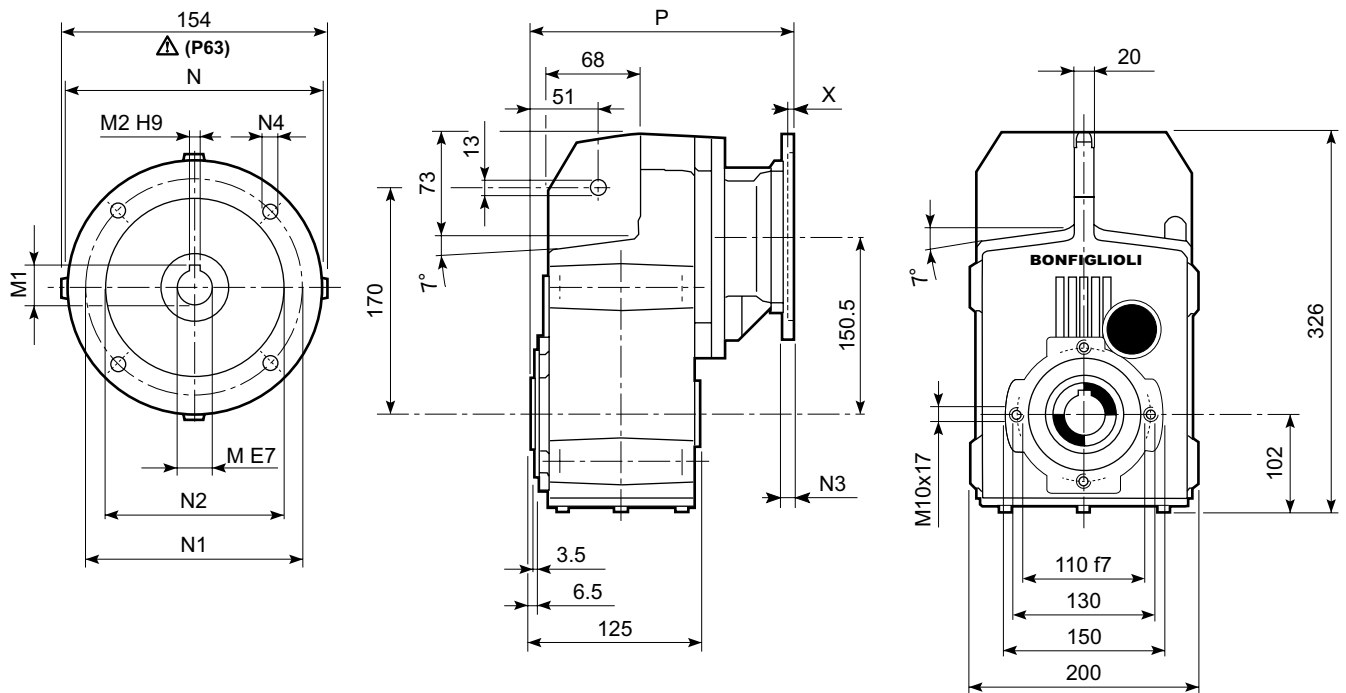


F 30														
Image	Image	Image							M_FD M_FA		M_FD		M_FA	
			AC	H	L	AD	kg	LF	kg	R	AD	R	AD	
F 30 2/3	S1	M1S	138	321.3	356.5	108	21	419.5	23	103	132	124	108	
F 30 2/3	S1	M1L	138	321.3	380.5	108	22	441.5	25	103	132	124	108	
F 30 2/3	S2	M2S	156	330.3	409.5	119	26	479.5	30	129	143	134	119	
F 30 2/3	S3	M3S	195	349.8	452.5	142	31	548.5	38	160	155	160	142	
F 30 2/3	S3	M3L	195	349.8	484.5	142	38	575.5	45	160	155	160	142	
F 30 4	S05	M05	121	312.8	409	95	20	475	22	96	119	116	95	
F 30 4	S1	M1S	138	321.3	414	108	21	477	24	103	132	124	108	
F 30 4	S1	M1L	138	321.3	438	108	22	499	25	103	132	124	108	
F 30 4	S2	M2S	156	330.3	467	119	26	537	31	129	143	134	119	
F 30 4	S3	M3S	195	349.8	510	142	31	606	39	160	155	160	142	
F 30 4	S3	M3L	195	349.8	542	142	38	633	46	160	155	160	142	

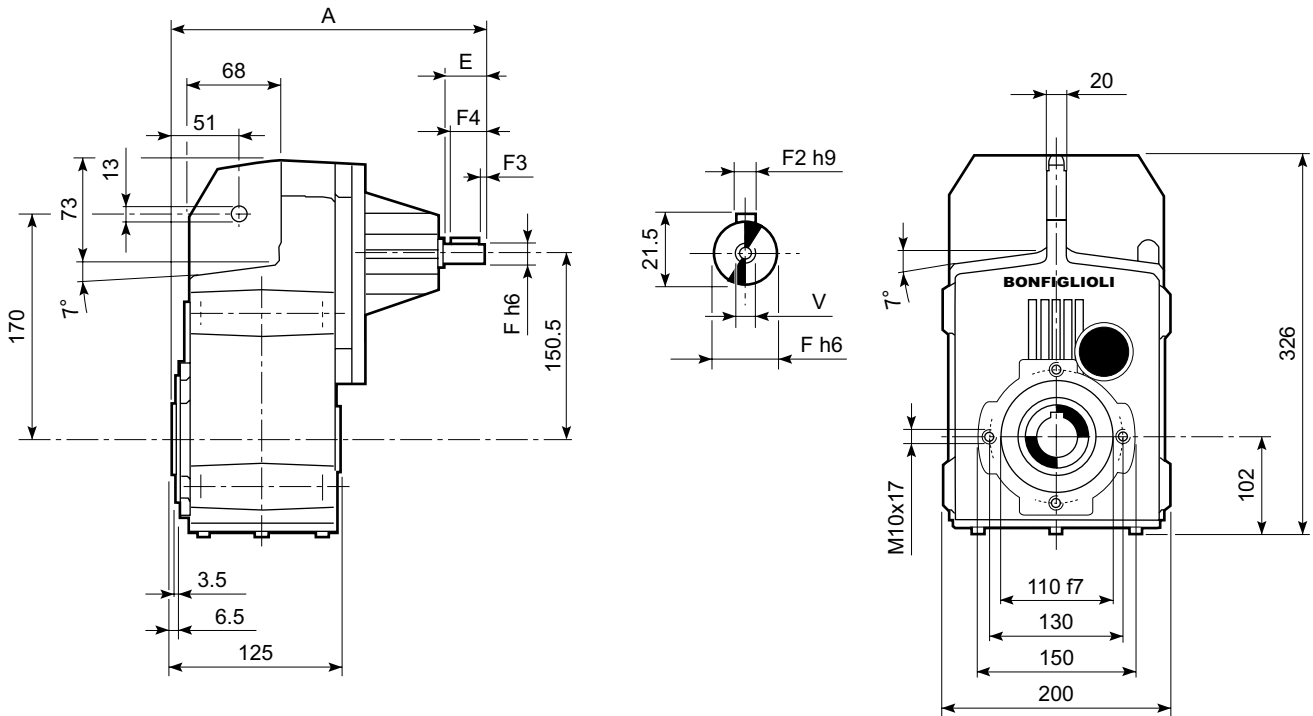
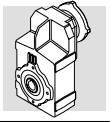






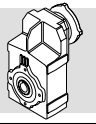
# F 30...P(IEC)



F 30														
		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg		
		F 30 2/3	P63	11	12.8	4	140	115	95	—	M8x19	4	225.5	17
		F 30 2/3	P71	14	16.3	5	160	130	110	—	M8x16	4.5	225.5	17
		F 30 2/3	P80	19	21.8	6	200	165	130	—	M10x12	4	245	18
		F 30 2/3	P90	24	27.3	8	200	165	130	—	M10x12	4	245	17
		F 30 2/3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	255	21
		F 30 2/3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	255	21
		F 30 4	P63	11	12.8	4	140	115	95	—	M8x19	4	283	17
		F 30 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	283	17
		F 30 4	P80	19	21.8	6	200	165	130	—	M10x12	4	302.5	18
		F 30 4	P90	24	27.3	8	200	165	130	—	M10x12	4	302.5	18
		F 30 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	312.5	22
		F 30 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	312.5	22

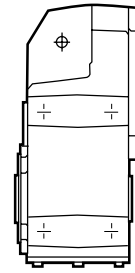
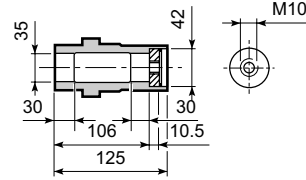
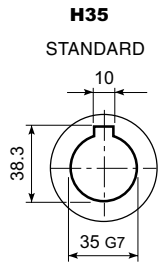


F 30										
		A	E	F	F1	F2	F3	F4	V	Kg
	HS	275.5	40	19	21.5	6	2.5	35	M6x16	16.7
		275.5	40	19	21.5	6	2.5	35	M6x16	16.7
		290	40	16	18	5	2.5	35	M6x16	16.5

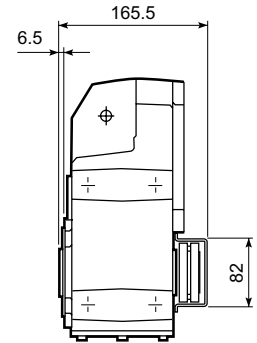
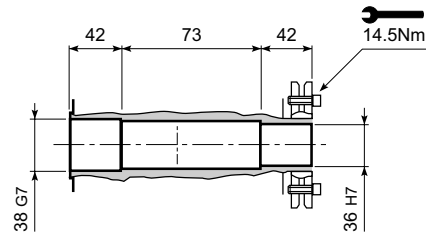


# F 30

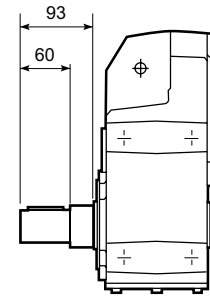
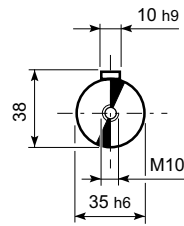
## F 30...H



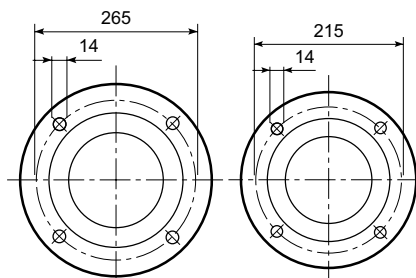
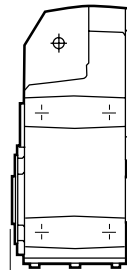
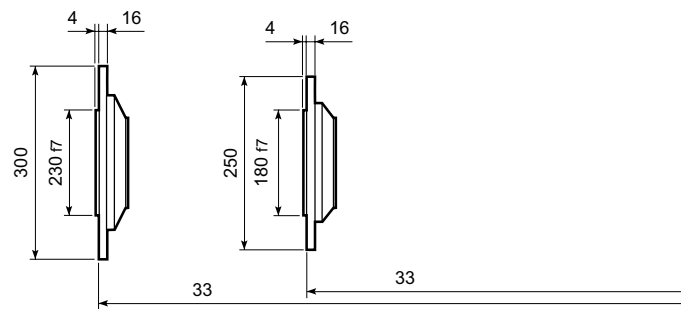
## F 30...S



## F 30...R

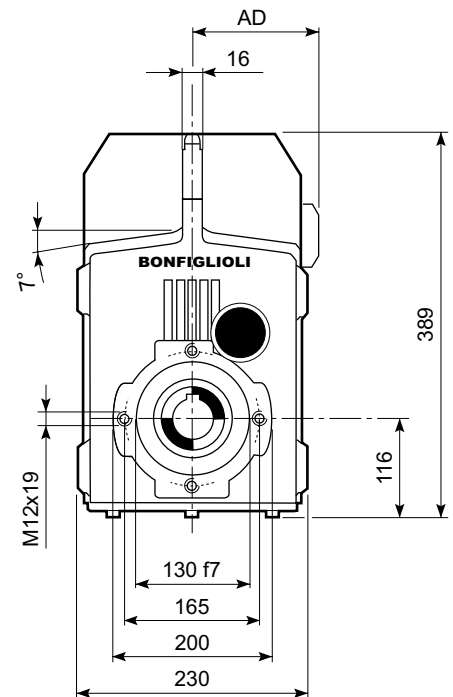
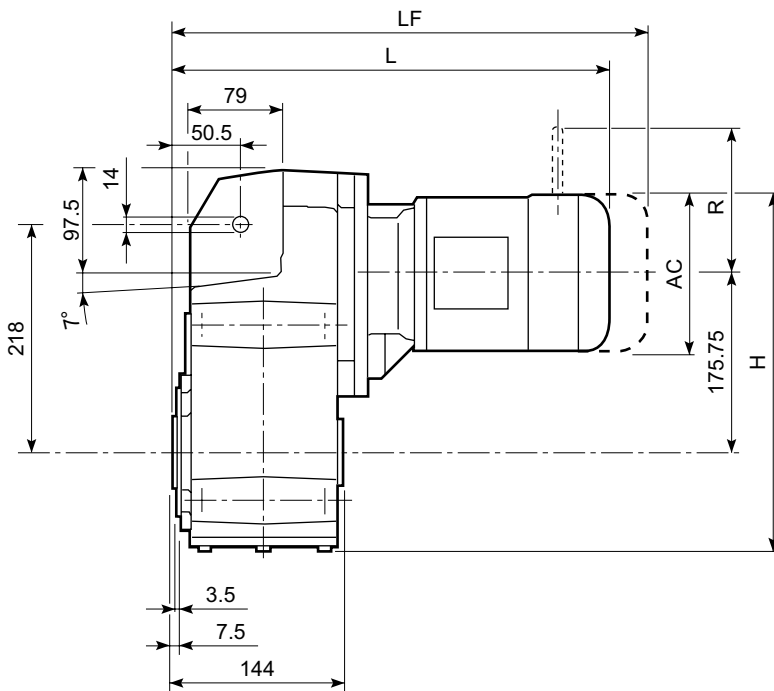
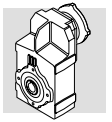


## F 30...F...



**B**

**A**



F 40													
Image	S	M	AC	H	L	AD	Kg	M_FD M_FA		M_FD		M_FA	
								LF	Kg	R	AD	R	AD
	S1	M1S	138	360.8	377	108	44	440	47	103	132	124	108
	S1	M1L	138	360.8	401	108	46	462	48	103	132	124	108
	S2	M2S	156	369.8	430	119	49	500	53	129	143	134	119
	S3	M3S	195	389.3	473	142	54	569	62	160	155	160	142
	S3	M3L	195	389.3	505	142	62	596	69	160	155	160	142
	S4	M4S	258	420.8	575	193	81	684	95	226	193	217	193
	S4	M4L	258	420.8	613	193	96	722	114	226	193	217	193
	S4	M4LC	258	420.8	648	193	104	747	122	226	193	217	193
	S05	M05	231	352.3	433.5	95	45	499.5	46	96	119	116	95
	S1	M1S	138	360.8	438.5	108	45	501.5	48	103	132	124	108
	S1	M1L	138	360.8	462.5	108	47	523.5	49	103	132	124	108
	S2	M2S	156	369.8	491.5	119	50	561.5	58	129	143	134	119
	S3	M3S	195	389.3	534.5	142	55	630.5	62	160	155	160	142
	S3	M3L	195	389.3	566.5	142	63	657.5	70	160	155	160	142