

F

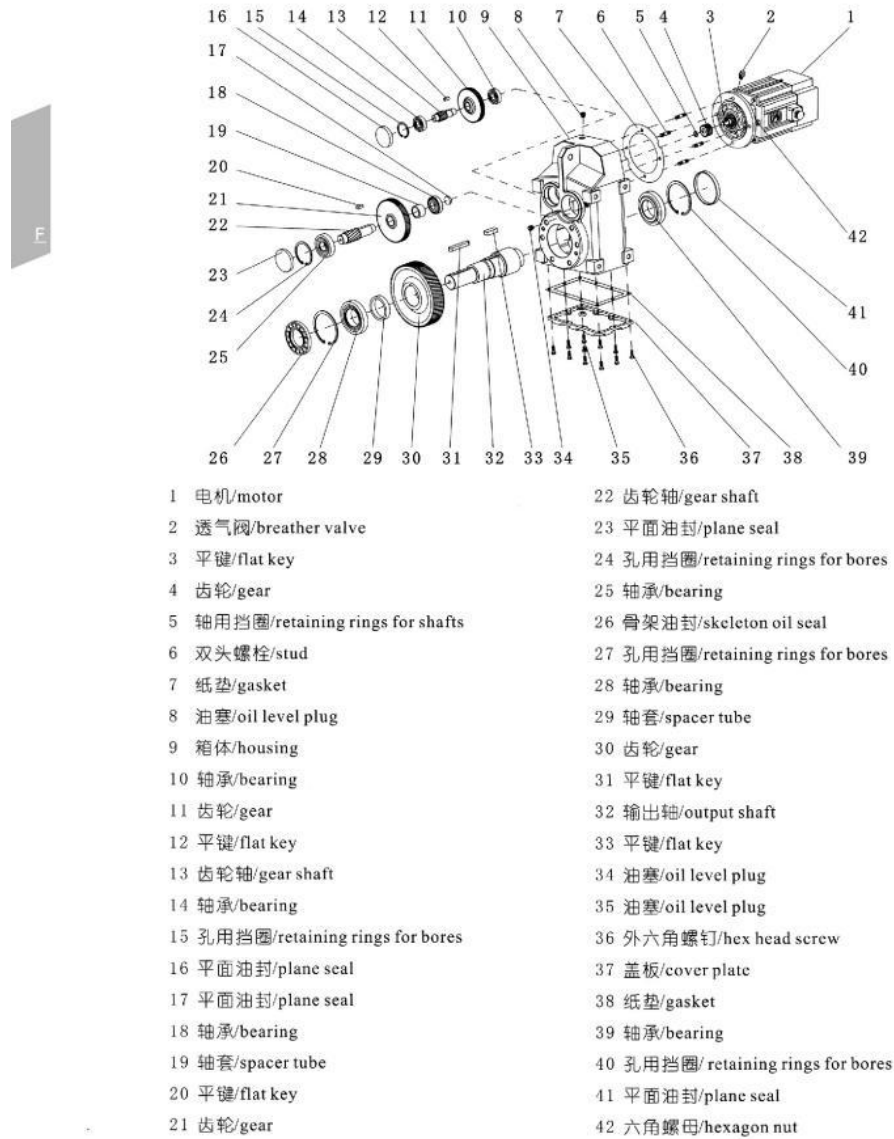
F系列平行轴-斜齿轮减速电机

F SERIES PARALLEL SHAFT

HELICAL GEARED MOTORS

▽ 我们有优质的供应链

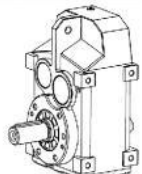
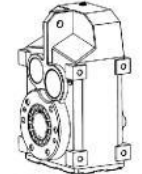
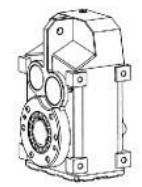
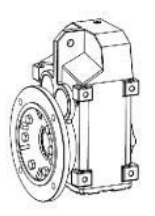
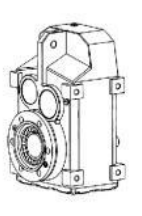
3.1 部件分解图 / Spare Parts List

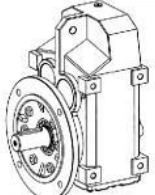
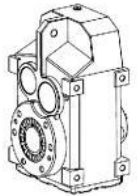
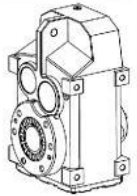
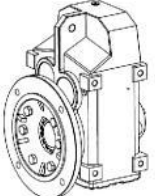
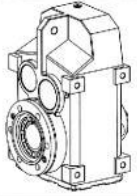




3.2 机型版本 / Versions

3.2.1 基本型式 / Basic Versions

	F.. 底脚安装平行轴 - 斜齿轮减速机 Foot-mounted parallel shaft helical geared units.
	FA..B 底脚空心轴安装平行轴 - 斜齿轮减速机 Foot-mounted parallel shaft helical geared units. FV..B 底脚花键空心轴 (DIN5480) 安装平行轴 - 斜齿轮减速机 Foot-mounted parallel shaft helical geared motor with splined hollow shaft to DIN5480.
	FA.. 空心轴安装平行轴 - 斜齿轮减速机 Parallel shaft helical geared units with hollow shaft. FV.. 花键空心轴 (DIN5480) 安装平行轴 - 斜齿轮减速机 Parallel shaft helical geared units with splined hollow shaft to DIN5480.
	FAF.. B5法兰空心轴安装平行轴 - 斜齿轮减速机 Parallel shaft helical geared units in B5 flangemounted version with hollow shaft. FVF.. B5法兰花键空心轴 (DIN5480) 安装平行轴 - 斜齿轮减速机 Parallel shaft helical geared units in B5 flange-mounted version with splined hollow shaft to DIN5480.
	FAZ.. B14法兰空心轴安装平行轴 - 斜齿轮减速机 Parallel shaft helical geared units in B14 flange-mounted version with hollow shaft. FVZ.. B14法兰花键空心轴 (DIN5480) 安装平行轴 - 斜齿轮减速机 Parallel shaft helical geared units in B14 flange-mounted version with splined hollow shaft to DIN5480.

	FF.. B5法兰安装平行轴-斜齿轮减速机 Parallel shaft helical geared units in B5 flange-mounted version.
	FH..B 底脚空心轴锁紧盘安装平行轴-斜齿轮减速机 Foot-mounted parallel shaft helical geared units with hollow shaft and shrink disk.
	FH.. 空心轴锁紧盘安装平行轴-斜齿轮减速机 Parallel shaft helical geared units with hollow shaft and shrink disk.
	FHF.. B5法兰空心轴锁紧盘安装平行轴-斜齿轮减速机 Parallel shaft helical geared units in B5 flange-mounted version with hollow shaft and shrink disk.
	FHZ.. B14法兰空心轴锁紧盘安装平行轴-斜齿轮减速机 Parallel shaft helical geared units in B14 flange-mounted with hollow shaft and shrink disk.

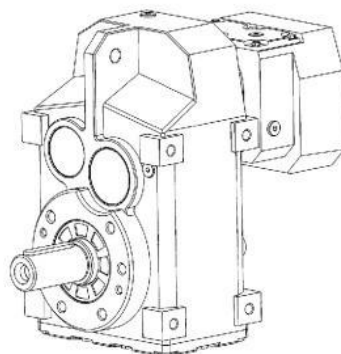


3.2.2 输入型式 / Input Versions

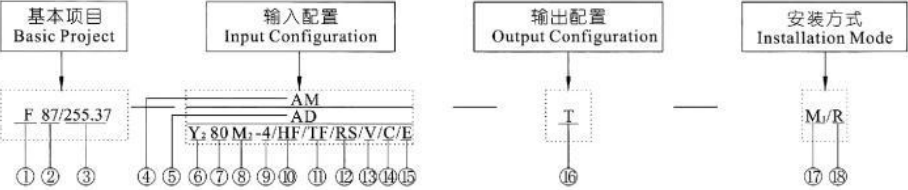
	F..Y.. 直联电机输入 Input with geared motors.
	F..AM.. AM (IEC) 法兰输入 Input with AM adapters for mounting IEC motors.
	F..AD.. AD 轴输入 Input with AD shaft assembly.

3.2.3 F..与RF..组合/F..and RF..Combination

当需要特别低速输出时，可选择RF齿轮箱作为F齿轮箱的输入。
If special low speed is needed, RF.. gearbox can be the input of F.. Gearbox.



3.3 产品标注 / Product Code



	标号 NO.	含义 Meaning	说明 Explanation
基本项目 Basic Project	①	系列代号 Series Code	F、FF、FA... (详见3.2.1) F,FF,FA...(see 3.2.1).
	②	机座号 Frame Size	机座号: 37、47、57... Frame Size: 37, 47, 57...
	③	传动比 Transmission Ratio	传动比 i Transmission Ratio I.
输入配置 Input Configuration	④	法兰输入代号 Flange Input Code	AM(IEC): 63、71、80...
	⑤	轴输入代号 Shaft Input Code	AD: 1、2、3...
	⑥	电机代号 Motor Code	Y: 三相异步电动机 Y: Three Phase Asynchronous Motor. YD: 变极多速三相异步电动机 YD: Variable-pole Multi-speed Three Phase Asynchronous Motor. YS: 小功率三相异步电动机 YS: Small Power Three Phase Asynchronous Motor. YVF: 变频调速三相异步电动机 YVF: Variable Frequency Speed Control Three Phase Asynchronous Motor. Y: EJ: 电磁制动三相异步电动机 Y: EJ: Electromagnetic Brake Three Phase Asynchronous Motor. YB2: 隔爆三相异步电动机 YB2: Flame Proof Three Phase Asynchronous Motor.
	⑦	电机机座号 Motor Frame Size.	63、71、80...
	⑧	电机定子铁芯长度代号 Length Code of Stator Core.	M、M ₁ 、M ₂ 、S、S ₁ 、S ₂ 、L、L ₁ 、L ₂
	⑨	电机极数 Pole Number of Motor.	2、4、6、8



	标号 NO.	含义 Meaning	说明 Explanation
输入配置 Input Configuration	⑩	手动释放装置 Manual Release Device	无 代 码: 无手动释放装置 No Code: No manual release device. H F: 手动释放装置带自锁功能 H F: Manual release device with self-locking Fun-ction. H R: 手动释放装置不带自锁功能 H R: Manual release device without self-Locking function.
	⑪	电机热保护装置 Motor Heat-protection Device.	无 代 码: 无电机热保护装置 No Code: No motor heat-protection device. T F: 电机热保护装置 T F: Motor heat-protection device.
	⑫	逆止器 Backstop	无 代 码: 无逆止器 No Code: No backstop. R S: 逆止器 R S: Backstop.
	⑬	强制冷却风扇 Forced Cooling Fan	无 代 码: 无强制冷却风扇 No Code: no forced cooling fan. V: 强制冷却风扇 V: Forced cooling fan.
	⑭	防雨罩 Cover	无 代 码: 无风扇防护罩 No Code: No fan cover. C: 防雨罩 C: cover.
	⑮	编码器 Encoder	无 代 码: 无编码器 No Code: No encoder. E: 编码器 E: Encoder
输出配置 Output Configuration	⑯	扭力臂 Torque Arm	无 代 码: 无扭力臂 No Code: No torque arm. T: 扭力臂 T: Torque Arm.
安装方式 Mounting Positions	⑰	安装方位 Mounting Position	M1、M2、M3、M4、M5、M6
	⑱	电机接线盒方位 Position for motor ter- minal box.	R、B、L、T

说明:

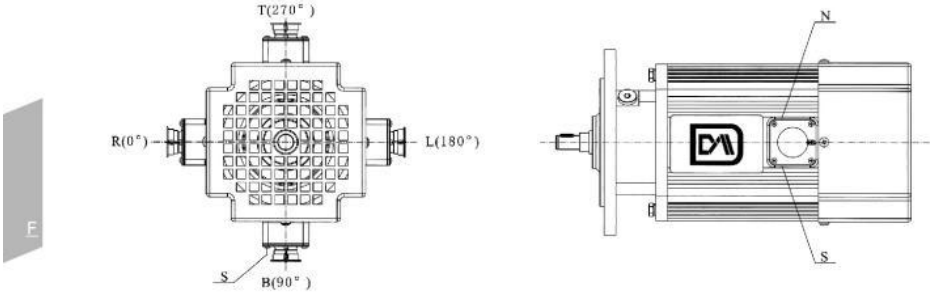
1. 基本项目不可省略;
2. 输入配置中, 只能在 AM、AD 和电机之间选择一种;
3. 安装方式参数若省略, 默认按 M1 安装方位, R 接线盒方位提供。

Notes:

1. Basic project can not be omitted.
2. Input configuration can only be one of AM, AD and motor.
3. If not mounting position, default mounting position will be M1, default position for motor terminal will be R.

3.4 安装方位 / Mounting Positions

3.4.1 电机接线盒方位 / Position of Motor Terminal Box



R(0°): 默认接线盒方位
R(0°): Default Position for Motor Terminal Box

注: 图为M1安装方位。
Mark: This picture is the installation position of M1

说明:

上图的视图方向为: 从电机尾部的风罩向前看。

可提供 R (0°)、B (90°)、L (180°)、T (270°) 四种电机接线盒方位。其中 R (0°) 位置是默认方位。如无特别说明, 将按默认方位提供。

可提供 S 和 N 两种进线方位, 其中 S 位置是默认方位。如无特别说明, 将按默认方位提供。

S: 默认进线方位
S: Default Line Position

Notes:

The view direction of above figure: from the fan cover in the end of the motor to look forward.

There will be four position for motor terminal box: R(0°)、B(90°)、L(180°)、T(270°). And default position is R(0°).If no special explanation, it will be provided in default position.If no special explanation, it will be provided in default position.

There will be two line position: S and N.Default position is S.If no special explanation, it will be provided in default position.If no special explanation, it will be provided in default position.

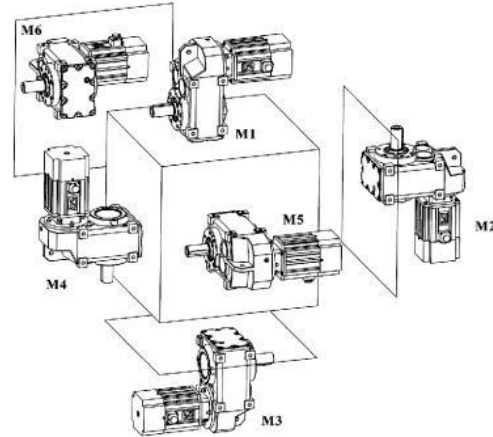
3.4.2 油位符号说明 / Oil Level Symbol Explanation

符号 Symbol	含义	Meaning
	通气帽	BREATHER VALVE
	油标	OIL LEVEL PLUG
	排油塞	OIL DRAIN PLUG

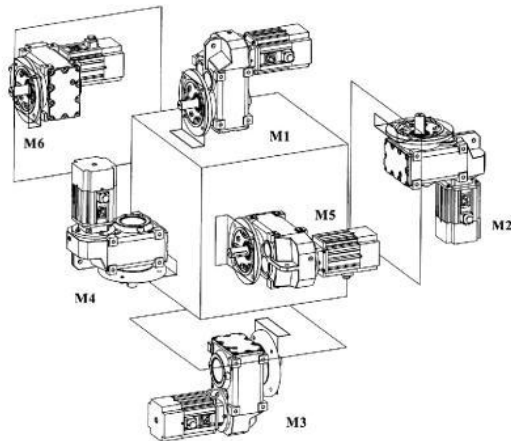


3.4.3 安装位置示意 / Mounting Position Designation

F..安装位置示意图 / F.. Mounting Position Designation



FF..安装位置示意图 / FF.. Mounting Position Designation



3.4.4 安装方位 / Mounting Positions

*→提示:

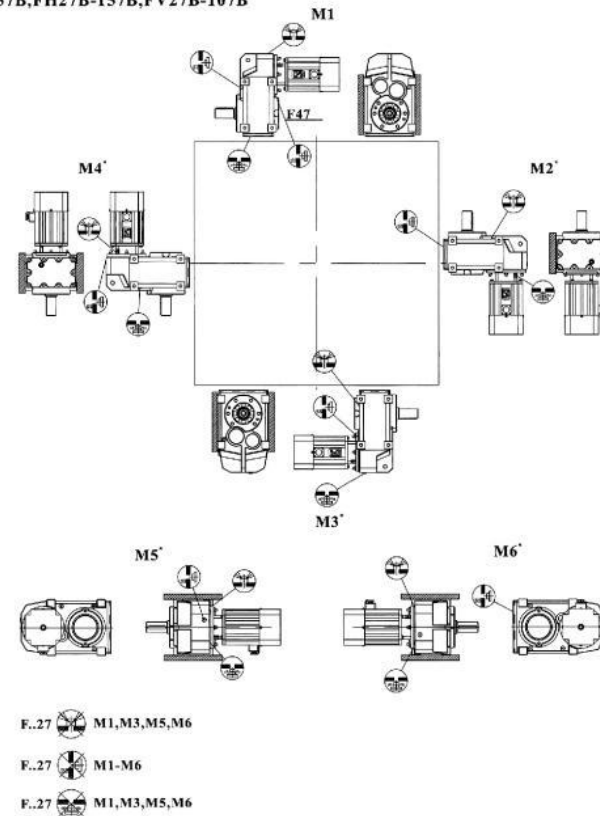
当采用下表列出的安装方式及输入转速时, 齿轮箱会产生不可忽视的搅油损失。请联系本公司。

*→Reminder:

Increased churning losses may arise in the following mounting positions. Contact Greatwall Machinery.

安装方式 Mounting Position	齿轮箱规格 Gear Unit Size	输入转速 Input Speed (r/min)
M2, M3, M4, M5, M6	97-107	>2500
	>107	>1500

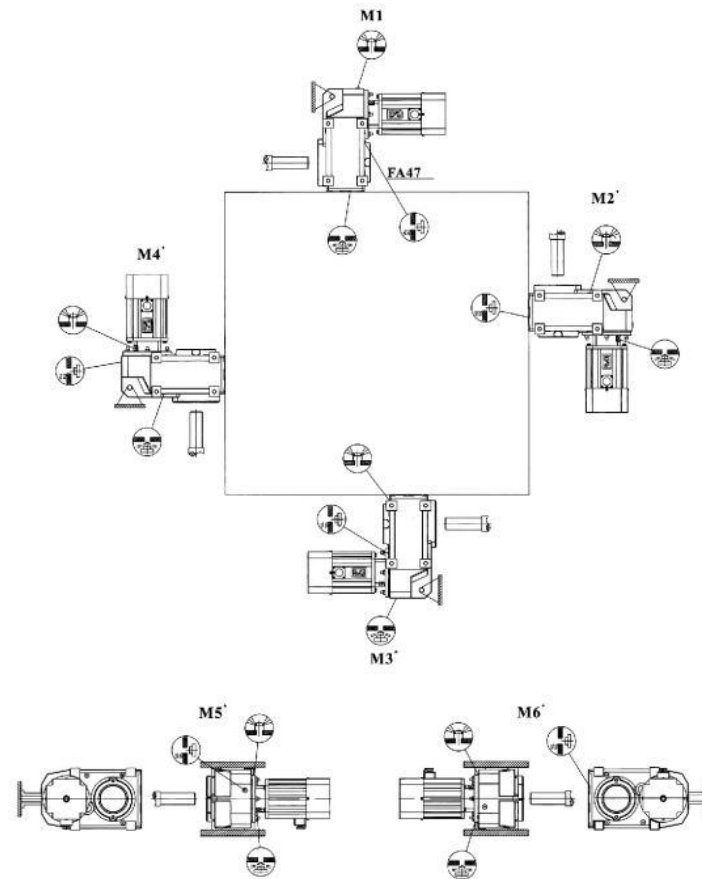
F, FA27B~157B, FH27B-157B, FV27B-107B



*→page 095



FA27-157, FH27-157, FV27-107



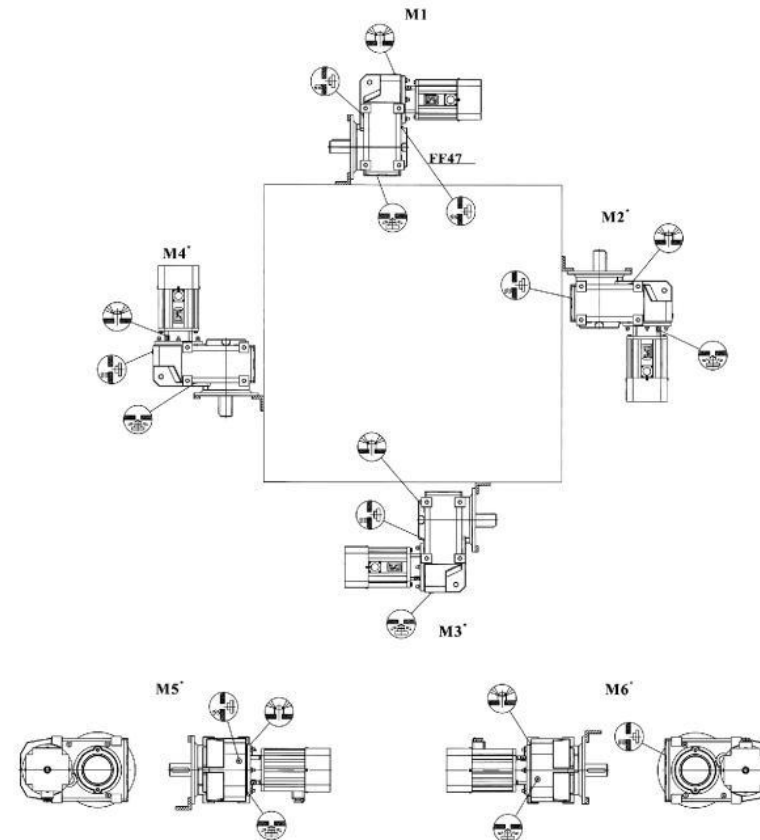
F..27  M1, M3, M5, M6

F..27  M1-M6

F..27  M1, M3, M5, M6

*→page 095

FF,FAF,FHF,FAZ,FHZ27-157,FVF27-107,FVZ27-107



F..27  M1,M3,M5,M6

F..27  M1-M6

F..27  M1,M3,M5,M6

*→page 095



3.5 减速器组合表 / Gear Unit Combination Table

为得到特别低的输出转速，可以通过RF齿轮箱与F齿轮箱相连的方式实现。

当采用这种传动方案时，可配置电动机的功率依赖于减速机的极限输出扭矩，而不能通过电动机的额定功率和减速机的总传动比计算得出减速机的输出扭矩。

RF series of gear units and F series of gear units can be connected together to get special output speed.

For this transmission scheme, the power of the motor depends on the limit output torque of the gearbox, instead of the output torque calculated based on rated power of the motor and the transmission ratio of the gear unit.

F..与RF..齿轮箱可能的组合 / Possible Combination of F.. and RF..

	RF17	RF27	RF37	RF47	RF57	RF67	RF77	RF87	RF97	RF107
F..27										
F..37										
F..47										
F..57										
F..67										
F..77										
F..87										
F..97										
F..107										
F..127										
F..157										

说明：

- ：表示可能的组合。
□：表示不允许的组合。

Notes:

- ：Possible Combination.
□：Impossible Combination.

3.6 F..功率配置 / F..Power Configuration

F27 $n_1=1400$ 1/min 130Nm									
n_1 [1/min]	M_{max} [Nm]	F_r [N]	i	0.12 ~0.55	0.75 1.10	1.50	2.20		
3									
9.90	130	4500	140.74						
11.0	130	4500	129.09						
13.0	130	4500	109.90						
15.0	130	4500	94.76						
16.0	130	4500	88.32						
18.0	130	4500	77.21						
19.0	130	4500	72.37						
22.0	130	4400	63.86						
25.0	130	4180	56.62						
28.0	130	3980	50.19						
30.0	130	3860	46.78						
34.0	130	3640	40.89						
37.0	130	3530	38.33						
41.0	130	3340	33.83						
2									
47.0	130	3140	29.56						
52.0	130	3030	27.18						
60.0	130	2820	23.25						
69.0	130	2630	20.15						
74.0	130	2550	18.84						
86.0	130	2370	16.28						
101	130	2180	13.84						
113	130	2060	12.35						
133	130	1900	10.55						
142	130	1830	9.88						
149	130	1660	9.40						
172	123	1580	8.13						
203	114	1530	6.91						
227	109	1480	6.17						
266	100	1440	5.27						
284	96	1420	4.93						
337	87	1380	4.16						
F37 $n_1=1400$ 1/min 200Nm									
n_1 [1/min]	M_{max} [Nm]	F_r [N]	i	0.12 ~0.55	0.75 1.10	1.50	2.20 3.00		
3									
11.0	200	4290	128.51						
12.0	200	4290	117.88						
14.0	200	4290	100.36						
16.0	200	4290	86.53						
17.0	200	4290	80.65						
F37 $n_1=1400$ 1/min 200Nm									
n_1 [1/min]	M_{max} [Nm]	F_r [N]	i	0.12 ~0.55	0.75 1.10	1.50	2.20 3.00		
3									
7.30	400	5920	190.76						
8.00	400	5920	175.38						
9.30	400	5920	150.06						
11.0	400	5920	130.07						
12.0	400	5920	121.57						
13.0	400	5920	105.09						
F47 $n_1=1400$ 1/min 400Nm									
n_1 [1/min]	M_{max} [Nm]	F_r [N]	i	0.12 ~0.55	0.75 1.10	1.50	2.20 3.00		
3									
7.30	400	5920	190.76						
8.00	400	5920	175.38						
9.30	400	5920	150.06						
11.0	400	5920	130.07						
12.0	400	5920	121.57						
13.0	400	5920	105.09						

F SERIES



F47 $n_1=1400$ 1/min 400Nm									
n_1 [1/min]	M_{max} [Nm]	Fr [N]	i	0.12 ~0.55	0.75 1.10	1.50	2.20 3.30		
3									
16.0	400	5920	89.29						
18.0	400	5920	79.72						
21.0	400	5920	68.09						
21.0	400	5920	65.36						
25.0	400	5920	56.49						
29.0	400	5920	48.00						
33.0	400	5920	42.86						
38.0	400	5920	36.61						
41.0	400	5920	34.29						
48.0	400	5790	28.88						
2									
45.0	400	5920	30.86						
48.0	400	5830	29.32						
54.0	400	5460	25.72						
64.0	400	5030	21.82						
71.0	400	4770	19.70						
81.0	400	4450	17.33						
86.0	400	4320	16.36						
101	400	3950	13.93						
111	400	3740	12.66						
128	400	3440	10.97						
156	330	3250	8.96						
178	380	2630	7.88						
188	380	2530	7.44						
221	350	2470	6.34						
243	340	2390	5.76						
281	320	2310	4.99						
F57 $n_1=1400$ 1/min 600Nm									
n_1 [1/min]	M_{max} [Nm]	Fr [N]	i	0.12 ~0.55	0.75 1.10	1.50	2.20 3.00	4.00	5.50
3									
7.00	600	9200	199.70						
7.60	600	9200	183.60						
8.90	600	9200	157.09						
10.0	600	9200	136.16						
11.0	600	9200	127.27						
13.0	600	9200	110.01						
15.0	600	9200	93.47						
17.0	600	9200	83.46						
19.0	600	9200	72.98						
21.0	600	9200	68.22						
24.0	600	9200	58.97						
28.0	600	9200	50.10						

F57 $n_1=1400$ 1/min 600Nm									
n_1 [1/min]	M_{max} [Nm]	Fr [N]	i	0.12 ~0.55	0.75 1.10	1.50	2.20 3.30	4.00	5.50
3									
31.0	600	9160	44.73						
37.0	600	8510	38.21						
39.0	600	8250	35.79						
46.0	590	7650	30.15						
2									
35.0	290	10500	40.13						
41.0	500	8670	34.24						
47.0	545	7890	29.94						
49.0	535	7760	28.45						
56.0	575	7060	24.96						
66.0	600	6350	21.17						
73.0	600	6020	19.11						
83.0	600	5620	16.81						
88.0	600	5450	15.88						
104	600	4980	13.52						
114	600	4710	12.29						
132	600	4320	10.64						
150	420	4760	9.31						
171	420	4450	8.19						
181	420	4310	7.73						
213	420	3940	6.58						
234	420	3730	5.98						
270	415	3460	5.18						
F67 $n_1=1400$ 1/min 820Nm									
n_1 [1/min]	M_{max} [Nm]	Fr [N]	i	0.12 ~0.55	0.75 1.10	1.50	2.20 3.00	4.00	5.50
3									
6.10	820	10300	228.99						
7.20	820	10300	195.39						
8.20	820	10300	170.85						
8.60	820	10300	162.31						
9.80	820	10300	142.40						
12.0	820	10300	120.79						
13.0	820	10300	109.04						
15.0	820	10300	95.94						
15.0	820	10300	90.59						
18.0	820	10300	79.76						
21.0	820	10300	67.65						
23.0	820	10300	61.07						
26.0	820	10300	53.73						
28.0	820	10300	50.74						
32.0	820	10300	43.20						
36.0	780	10700	39.26						
41.0	740	11000	34.01						

F67 $n_1=1400$ 1/min 820Nm									
n_2 [1/min]	M_{max} [Nm]	Fr [N]	i	0.12 -0.55	0.75 1.10	1.50	2.20 3.00	4.00	5.50
2									
39.0	820	10300	36.30						
44.0	820	10300	32.08						
51.0	820	10300	27.41						
56.0	820	10300	25.13						
63.0	820	10300	22.05						
67.0	820	10300	20.90						
77.0	820	10300	18.29						
85.0	820	10300	16.48						
97.0	820	10300	14.46						
110	820	10300	12.76						
124	820	10300	11.31						
145	820	10300	9.66						
154	530	11400	9.08						
163	570	10900	8.60						
186	610	10100	7.53						
206	620	9660	6.78						
235	610	9200	5.95						
267	590	8850	5.25						
300	560	8590	4.66						
353	500	8390	3.97						
F77 $n_1=1400$ 1/min 1500Nm									
n_2 [1/min]	M_{max} [Nm]	Fr [N]	i	0.18 -0.55	0.75 1.10	1.50	2.20 3.00	4.00	5.50 7.50
3									
5.00	1500	15700	281.71						
5.30	1500	15700	262.93						
6.20	1500	15700	225.79						
7.10	1500	15700	198.31						
7.40	1500	15700	188.40						
8.40	1500	15700	166.47						
9.80	1500	15700	142.27						
11.0	1500	15700	130.42						
12.0	1500	15700	114.45						
13.0	1500	15700	108.46						
15.0	1500	15700	94.93						
16.0	1500	15700	85.52						
19.0	1500	15700	75.02						
19.0	1500	15700	72.50						
21.0	1500	15700	66.46						
24.0	1500	15700	58.32						
25.0	1500	15700	55.27						
29.0	1500	15700	48.37						
32.0	1500	15700	43.58						
37.0	1500	15700	38.23						
41.0	1500	15700	33.74						
47.0	1500	15700	29.91						
55.0	1450	16100	25.54						

F77 $n_1=1400$ 1/min 1500Nm									
n_2 [1/min]	M_{max} [Nm]	Fr [N]	i	0.18 -0.55	0.75 1.10	1.50	2.20 3.00	4.00	5.50 7.50
2									
38.0	1110	17900	36.58						
44.0	1380	16500	31.51						
49.0	1430	16200	28.75						
55.0	1500	15700	25.50						
65.0	1500	15700	21.43						
71.0	1500	15700	19.70						
80.0	1500	15700	17.49						
90.0	1500	15700	15.64						
100	1500	15700	14.06						
115	1500	14900	12.20						
128	1500	14200	10.93						
151	1080	13800	9.30						
169	1080	13100	8.26						
189	1080	12500	7.39						
211	1080	12000	6.64						
243	1080	11300	5.76						
271	1080	10700	5.16						
327	1010	10200	4.28						
F77 $n_1=1400$ 1/min 1500Nm									
n_2 [1/min]	M_{max} [Nm]	Fr [N]	i	11.0					
3									
5.00	1500	15700	281.71						
5.30	1500	15700	262.93						
6.20	1500	15700	225.79						
7.10	1500	15700	198.31						
7.40	1500	15700	188.40						
8.40	1500	15700	166.47						
9.80	1500	15700	142.27						
11.0	1500	15700	130.42						
12.0	1500	15700	114.45						
13.0	1500	15700	108.46						
15.0	1500	15700	94.93						
16.0	1500	15700	85.52						
19.0	1500	15700	75.02						
19.0	1500	15700	72.50						
21.0	1500	15700	66.46						
24.0	1500	15700	58.32						
25.0	1500	15700	55.27						
29.0	1500	15700	48.37						
32.0	1500	15700	43.58						
37.0	1500	15700	38.23						
41.0	1500	15700	33.74						
47.0	1500	15700	29.91						
55.0	1450	16100	25.54						
2									
38.0	1110	17900	36.58						
44.0	1380	16500	31.51						

F SERIES



F77 $n_1=1400$ 1/min 1500Nm									
n_2 [1/min]	M_{max} [Nm]	Fr [N]	i	11.0					
2									
49.0	1430	16200	28.75						
55.0	1500	15700	25.50						
65.0	1500	15700	21.43						
71.0	1500	15700	19.70						
80.0	1500	15700	17.49						
90.0	1500	15700	15.64						
100	1500	15700	14.06						
115	1500	14900	12.20						
128	1500	14200	10.93						
151	1080	13800	9.30						
169	1080	13100	8.26						
189	1080	12500	7.39						
211	1080	12000	6.64						
243	1080	11300	5.76						
271	1080	10700	5.16						
327	1010	10200	4.28						
F87 $n_1=1400$ 1/min 3000Nm									
n_2 [1/min]	M_{max} [Nm]	Fr [N]	i	0.55	0.75 1.10	1.50	2.20 3.00	4.00	5.50 7.50
3									
5.20	3000	19800	270.68						
5.50	3000	19800	255.37						
6.10	3000	19800	228.93						
7.10	3000	19800	197.20						
7.80	3000	19800	179.97						
8.80	3000	19800	159.61						
10.0	3000	19800	134.16						
11.0	3000	19800	123.29						
13.0	3000	19800	109.49						
14.0	3000	19800	97.89						
16.0	3000	19800	88.01						
18.0	3000	19800	76.39						
20.0	3000	19600	68.40						
25.0	3000	17700	56.75						
28.0	2940	16800	50.36						
31.0	2820	16200	45.28						
36.0	2720	15400	39.30						
40.0	2610	14900	35.19						
48.0	2510	13800	29.20						
2									
41.0	2610	14600	33.92						
49.0	2450	13900	28.78						
53.0	3000	11100	26.50						
59.0	3000	10300	23.68						
66.0	3000	9520	21.32						
73.0	3000	8840	19.31						
82.0	3000	8040	17.12						
90.0	3000	7390	15.48						
107	3000	6370	13.12						
122	3000	5580	11.46						
146	2880	5050	9.58						
169	1530	8890	8.29						
190	1530	8280	7.35						
211	1530	7790	6.65						
249	1530	7020	5.63						
285	1530	6430	4.92						
340	1460	5980	4.12						

F87 $n_1=1400$ 1/min 3000Nm											
n_2 [1/min]	M_{max} [Nm]	Fr [N]	i	0.55	0.75 1.10	1.50	2.20 3.30	4.00	5.50 7.50		
2											
107	3000	6370	13.12								
122	3000	5580	11.46								
146	2880	5050	9.58								
169	1530	8890	8.29								
190	1530	8280	7.35								
211	1530	7790	6.65								
249	1530	7020	5.63								
285	1530	6430	4.92								
340	1460	5980	4.12								
F87 $n_1=1400$ 1/min 3000Nm											
n_2 [1/min]	M_{max} [Nm]	Fr [N]	i	11.0 15.0	18.5 22.0						
3											
5.20	3000	19800	270.68								
5.50	3000	19800	255.37								
6.10	3000	19800	228.93								
7.10	3000	19800	197.20								
7.80	3000	19800	179.97								
8.80	3000	19800	159.61								
10.0	3000	19800	134.16								
11.0	3000	19800	123.29								
13.0	3000	19800	109.49								
14.0	3000	19800	97.89								
16.0	3000	19800	88.01								
18.0	3000	19800	76.39								
20.0	3000	19600	68.40								
25.0	3000	17700	56.75								
28.0	2940	16800	50.36								
31.0	2820	16200	45.28								
36.0	2720	15400	39.30								
40.0	2610	14900	35.19								
48.0	2510	13800	29.20								
2											
41.0	2610	14600	33.92								
49.0	2450	13900	28.78								
53.0	3000	11100	26.50								
59.0	3000	10300	23.68								
66.0	3000	9520	21.32								
73.0	3000	8840	19.31								
82.0	3000	8040	17.12								
90.0	3000	7390	15.48								
107	3000	6370	13.12								
122	3000	5580	11.46								
146	2880	5050	9.58								
169	1530	8890	8.29								
190	1530	8280	7.35								
211	1530	7790	6.65								
249	1530	7020	5.63								
285	1530	6430	4.92								
340	1460	5980	4.12								

1/11

17

F97 $n_1=1400$ 1/min 4300Nm										
n_2 [1/min]	M_{2max} [Nm]	F_r [N]	i	1.10 ~1.50	2.20 3.00	4.00	5.50 7.50	11.0 15.0	18.5	22.0
3										
5.10	4300	29900	276.77							
5.50	4300	29900	253.41							
6.30	4300	29900	223.88							
7.40	4300	29900	189.92							
8.00	4300	29900	174.87							
9.00	4300	29900	156.30							
9.90	4300	29900	140.71							
11.0	4300	29900	127.42							
12.0	4300	29900	112.99							
14.0	4300	29900	102.16							
14.0	4300	29900	97.58							
16.0	4300	29900	89.85							
16.0	4300	29900	86.59							
17.0	4300	29900	80.31							
19.0	4300	29900	75.63							
19.0	4300	29900	72.29							
21.0	4300	29000	65.47							
24.0	4300	27200	58.06							
27.0	4300	25800	52.49							
31.0	4300	23600	44.49							
36.0	4300	21900	38.86							
43.0	4300	19800	32.50							
2										
32.0	3070	27600	43.28							
38.0	3070	25500	36.64							
41.0	4300	20300	33.91							
46.0	4300	19000	30.39							
51.0	4300	17900	27.44							
56.0	4300	16800	24.92							
63.0	4300	15600	22.11							
70.0	4300	14600	20.07							
81.0	4300	13200	17.25							
93.0	4300	11900	15.06							
110	4300	10500	12.77							
125	4100	10000	11.16							
155	2360	13400	9.06							
170	2360	12600	8.22							
198	2360	11500	7.07							
227	2250	11100	6.17							
268	2150	10400	5.23							
306	2050	9950	4.57							
362	1800	9960	3.87							
F97 $n_1=1400$ 1/min 4300Nm										
n_2 [1/min]	M_{2max} [Nm]	F_r [N]	i	30.0						
3										
5.10	4300	29900	276.77							
5.50	4300	29900	253.41							

F97 $n_1=1400$ 1/min 4300Nm										
n_2 [1/min]	M_{2max} [Nm]	F_r [N]	i	30.0						
3										
6.30	4300	29900	223.88							
7.40	4300	29900	189.92							
8.00	4300	29900	174.87							
9.00	4300	29900	156.30							
9.90	4300	29900	140.71							
11.0	4300	29900	127.42							
12.0	4300	29900	112.99							
14.0	4300	29900	102.16							
14.0	4300	29900	97.58							
16.0	4300	29900	89.85							
16.0	4300	29900	86.59							
17.0	4300	29900	80.31							
19.0	4300	29900	75.63							
19.0	4300	29900	72.29							
21.0	4300	29000	65.47							
24.0	4300	27200	58.06							
27.0	4300	25800	52.49							
31.0	4300	23600	44.49							
36.0	4300	21900	38.86							
43.0	4300	19800	32.50							
2										
32.0	3070	27600	43.28							
38.0	3070	25500	36.64							
41.0	4300	20300	33.91							
46.0	4300	19000	30.39							
51.0	4300	17900	27.44							
56.0	4300	16800	24.92							
63.0	4300	15600	22.11							
70.0	4300	14600	20.07							
81.0	4300	13200	17.25							
93.0	4300	11900	15.06							
110	4300	10500	12.77							
125	4100	10000	11.16							
155	2360	13400	9.06							
170	2360	12600	8.22							
198	2360	11500	7.07							
227	2250	11100	6.17							
268	2150	10400	5.23							
306	2050	9950	4.57							
362	1800	9960	3.87							
F107 $n_1=1400$ 1/min 7840Nm										
n_2 [1/min]	M_{2max} [Nm]	F_r [N]	i	2.20 3.00	4.00	5.50 7.50	11.0 15.0	18.5 22.0	30.0 ~45.0	
3										
5.50	7680	49800	254.40							
6.50	7680	49800	215.37							
7.00	7680	49800	199.31							
7.80	7680	49800	178.64							

F SERIES



F107 $n_1=1400$ 1/min 7840Nm										
n_2 [1/min]	M_{max} [Nm]	Fr [N]	i	2.20 3.00	4.00	5.50 7.50	11.0 15.0	18.5 22.0	30.0 ~45.0	
3										
8.70	7680	49800	161.28							
9.60	7680	49800	146.49							
11.0	7680	49800	129.97							
12.0	7680	49800	117.94							
14.0	7680	49800	101.38							
15.0	7680	49800	92.47							
16.0	7680	49800	88.49							
17.0	7680	49800	83.99							
19.0	7680	49800	74.52							
21.0	7680	49800	67.62							
24.0	7680	47800	58.12							
28.0	7680	45100	50.73							
33.0	7680	42000	43.03							
37.0	7680	39500	37.61							
44.0	7680	36500	31.80							
3										
41.0	7400	38300	33.79							
51.0	7840	33300	27.57							
56.0	7840	31500	25.14							
64.0	7840	28800	21.76							
73.0	7840	26500	19.20							
84.0	7840	23900	16.58							
95.0	7680	22400	14.67							
114	7000	22600	12.33							
141	6500	21500	9.96							
144	4910	23500	9.69							
167	4800	22000	8.37							
189	4600	21300	7.40							
225	4600	19000	6.22							
278	4600	16400	5.03							
F127 $n_1=1400$ 1/min 12000Nm										
n_2 [1/min]	M_{max} [Nm]	Fr [N]	i	7.50	11.0 15.0	18.5 22.0	30.0 ~45.0	55.0 90.0		
3										
8.20	12000	90000	170.83							
9.10	12000	90000	153.67							
11.0	12000	90000	125.37							
12.0	12000	88000	114.34							
14.0	12000	83000	98.95							
16.0	12000	79000	87.31							
19.0	12000	74300	75.41							
20.0	12000	72100	70.07							
22.0	12000	69400	63.91							
25.0	12000	65200	55.31							
29.0	12000	61300	48.80							
33.0	12000	56800	42.15							
38.0	12000	53200	37.28							
45.0	12000	48300	31.33							
55.0	12000	42400	25.30							

F127 $n_1=1400$ 1/min 12000Nm										
n_2 [1/min]	M_{max} [Nm]	Fr [N]	i	7.50	11.0 15.0	18.5 22.0	30.0 ~45.0	55.0 90.0		
2										
52.0	8500	53300	26.86							
57.0	8500	53300	24.57							
65.0	12000	38000	21.38							
74.0	11000	38800	18.87							
86.0	11000	35400	16.36							
96.0	11000	32600	14.55							
112	10000	33300	12.54							
137	9500	30900	10.19							
158	7000	36400	8.86							
178	6000	37000	7.88							
206	7000	32200	6.80							
254	6000	31700	5.52							
299	6000	29500	4.68							
F157 $n_1=1400$ 1/min 18000Nm										
n_2 [1/min]	M_{max} [Nm]	Fr [N]	i	11.0 15.0	18.5 22.0	30.0 ~45.0	55.0 90.0	110 132		
3										
5.20	18000	100300	267.43							
6.40	18000	100300	217.62							
7.90	18000	100300	178.20							
8.60	18000	100300	162.96							
9.90	18000	100300	141.80							
11.0	18000	100300	125.14							
13.0	18000	100300	108.49							
15.0	18000	100300	96.53							
16.0	18000	95800	85.80							
18.0	18000	92300	78.46							
21.0	18000	87000	68.28							
23.0	18000	82500	60.25							
27.0	18000	77500	52.24							
30.0	18000	73600	46.48							
35.0	18000	68900	40.06							
43.0	18000	62500	32.55							
51.0	18000	57800	27.60							
2										
26.0	8000	98400	53.55							
32.0	10000	87800	43.94							
39.0	11000	79300	35.75							
49.0	17000	60800	28.60							
55.0	15000	61500	25.43							
63.0	18000	51800	22.16							
71.0	17000	50900	19.77							
83.0	18000	44900	16.85							
100	17000	42500	13.96							
117	16000	40900	11.92							

3.7 F..性能参数 / F.. Performance Parameters

n ₁ [1/min]	M ₁ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =0.12kw						
0.06	13900	22323	86700	0.85	FA 127 RF77 FAF 127 RF77 F 127 RF77 FF 127 RF77	Y..63M ₁ -4 AM63 AD2
0.07	11800	19048	90000	1.00		
0.08	10300	16656	90000	1.15		
0.09	9180	14722	90000	1.30		
0.11	7990	12912	90000	1.50		
0.12	7040	11656	90000	1.70	FA 107 RF77 FAF 107 RF77 F 107 RF77 FF 107 RF77	Y..63M ₁ -4 AM63 AD2
0.14	6310	10191	90000	1.90		
0.10	8850	14767	65000	0.90		
0.11	7550	11348	65000	1.05		
0.13	6600	10039	65000	1.20		
0.14	5890	8548	65000	1.35	FA 97 RF57 FAF 97 RF57 F 97 RF57 FF 97 RF57	Y..63M ₁ -4 AM63 AD2
0.17	5150	7674	65000	1.55		
0.19	4490	6767	65000	1.80		
0.22	3700	5954	65000	2.20		
0.24	3210	5223	65000	2.50		
0.27	2910	4567	65000	2.70	FA 97 RF57 FAF 97 RF57 F 97 RF57 FF 97 RF57	Y..63M ₁ -4 AM63 AD2
0.32	2670	3521	65000	3.00		
0.21	4140	6469	30400	1.05		
0.25	3820	5615	31300	1.15		
0.28	3320	4961	32500	1.30		
0.32	2900	4333	33500	1.50	FA 87 RF57 FAF 87 RF57 F 87 RF57 FF 87 RF57	Y..63M ₁ -4 AM63 AD2
0.35	2690	3906	34000	1.60		
0.41	2320	3352	34800	1.85		
0.47	1910	2907	35500	2.20		
0.54	1750	2553	35800	2.40		
0.33	2760	4245	23800	1.10	FA 77 RF37 FAF 77 RF37 F 77 RF37 FF 77 RF37	Y..63M ₁ -4 AM63 AD2
0.37	2210	3721	25800	1.35		
0.43	2240	3244	25700	1.35		
0.48	1990	2881	26500	1.50		
0.54	1780	2576	27100	1.70	FA 77 RF37 FAF 77 RF37 F 77 RF37 FF 77 RF37	Y..63M ₁ -4 AM63 AD2
0.63	1510	2199	27800	2.00		
0.72	1300	1930	28300	2.30		
0.81	1170	1709	28600	2.60		
0.92	1030	1493	28900	2.90		
1.10	820	1300	29300	3.70	FA 67 RF37 FAF 67 RF37 F 67 RF37 FF 67 RF37	Y..63M ₁ -4 AM63 AD2
1.20	745	1148	29500	4.00		
0.53	1820	2613	13000	0.80		
0.60	1570	2284	15200	0.95		
0.68	1380	2029	16400	1.10	FA 57 FAF 57 F 57 FF 57	Y..63M ₁ -4 AM63 AD2
0.80	1180	1728	17500	1.25		
0.89	1090	1544	17900	1.40		
1.00	950	1354	18500	1.55		
1.20	840	1200	18800	1.75		
1.30	740	1053	19100	2.00	FA 57 FAF 57 F 57 FF 57	Y..63M ₁ -4 AM63 AD2
1.50	630	910	19400	2.40		
1.70	525	810	19600	2.80		
1.90	460	710	19800	3.20		
0.97	960	1429	7070	0.85		
1.10	860	1271	9840	0.95	FA 57 FAF 57 F 57 FF 57	Y..63M ₁ -4 AM63 AD2
1.20	725	1102	11100	1.15		
1.40	635	970	11700	1.30		
0.97	960	1429	7070	0.85		
1.10	860	1271	9840	0.95		
1.20	725	1102	11100	1.15	FA 57 FAF 57 F 57 FF 57	Y..63M ₁ -4 AM63 AD2
1.40	635	970	11700	1.30		
0.97	960	1429	7070	0.85		
1.10	860	1271	9840	0.95		
1.20	725	1102	11100	1.15		
1.40	635	970	11700	1.30		

F SERIES



n	M _i	i	Fr	K	Frame size	Input Configuration
[1/min]	[Nm]		[N]			
P ₁ =0.12kw						
7.20	158	190.76	7970	2.50	FA 47	Y..63M ₁ -4 AM63 AD1
7.90	146	175.38	8020	2.80	FAF 47	
9.20	125	150.06	8100	3.20	F 47	
11.0	108	130.07	8150	3.70	FF 47	
11.0	107	128.51	5220	1.85	FA 37	Y..63M ₁ -4 AM63 AD1
12.0	98	117.88	5270	2.00	FAF 37	
14.0	83	100.36	5340	2.40	F 37	
16.0	72	86.53	5400	2.80	FF 37	
17.0	67	80.65	5410	3.00		
9.80	117	140.74	4500	1.10		Y..63M ₁ -4 AM63 AD1
11.0	107	129.09	4500	1.20		
13.0	91	109.9	4500	1.40		
15.0	79	94.76	4500	1.65		
16.0	73	88.32	4500	1.75		
18.0	64	77.21	4500	2.00	FA 27	
19.0	60	72.37	4500	2.20	FAF 27	
22.0	53	63.86	4500	2.40	F 27	
24.0	47	56.62	4500	2.80	FF 27	
28.0	42	50.19	4500	3.10		
30.0	39	46.78	4500	3.40		
34.0	34	40.89	4500	3.80		
36.0	32	38.33	4430	4.10		
41.0	28	33.83	4270	4.60		
47.0	24	29.56	4100	5.30		Y..63M ₁ -4 AM63 AD2
51.0	23	27.18	4000	5.80	FA 27	
59.0	19	23.25	3820	6.70	FAF 27	
68.0	17	20.15	3650	7.80	F 27	
73.0	16	18.84	3580	8.30	FF 27	
85.0	14	16.28	3420	9.60		
100	12	13.84	3250	11.0		
112	10	12.35	3140	13.0		Y..63M ₁ -4 AM63 AD2
131	8.8	10.55	2990	15.0		
140	8.2	9.88	2920	16.0		
147	7.8	9.4	2870	17.0	FA 27	
170	6.7	8.13	2740	18.0	FAF 27	
200	5.7	6.91	2600	20.0	F 27	
224	5.1	6.17	2510	21.0	FF 27	
262	4.4	5.27	2390	23.0		
280	4.1	4.93	2340	23.0		
332	3.5	4.16	2210	25.0		
P ₁ =0.18kw						
0.10	13600	12912	87200	0.90		Y..63M ₁ -4 AM63 AD2
0.11	12100	11656	90000	1.00	FA 127 RF77	
0.13	10700	10191	90000	1.10	FAF 127 RF77	
0.15	8940	8831	90000	1.35	F 127 RF77	
0.17	7740	7643	90000	1.55	FF 127 RF77	
0.20	7130	6715	90000	1.70		Y..63M ₁ -4 AM63 AD2
0.15	8440	8548	47700	0.90		
0.17	8130	7674	48600	0.95	FA 107 RF77	
0.20	7070	6767	51400	1.10	FAF 107 RF77	
0.22	6080	5954	53800	1.25	F 107 RF77	
0.25	5290	5223	55700	1.45	FF 107 RF77	
0.29	4850	4567	56600	1.60		
1.50	940	858	8660	0.85		
1.80	820	755	10200	1.00	FA 67 RF37	
2.10	700	641	11200	1.15	FAF 67 RF37	
2.30	645	572	11600	1.25	F 67 RF37	
2.60	555	509	12100	1.45	FF 67 RF37	
3.00	480	437	12500	1.70		Y..63M ₁ -4 AM63 AD2
3.40	430	384	12700	1.90		
2.60	575	500	12000	1.40		
2.90	525	454	12300	1.55	FA 67 RF37	
3.40	450	392	12600	1.80	FAF 67 RF37	
4.00	380	333	12900	2.20	F 67 RF37	
4.40	335	297	13000	2.40	FF 67 RF37	
5.10	295	261	13000	2.80		



FAF

n _i [l/min]	M _i [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =0.18kw						
5.60	260	238	13000	3.10	FA 67 RF37 FAF 67 RF37 F 67 RF37 FF 67 RF37	Y..63M _i -4 AM63 AD2
2.40	635	558	7570	0.95		
2.60	570	506	9420	1.05		
2.90	495	452	9930	1.20		
3.40	425	386	10400	1.40		
3.90	370	338	10700	1.60	FA 57 RF37 FAF 57 RF37 F 57 RF37 FF 57 RF37	Y..63M _i -4 AM63 AD2
3.10	500	426	9910	1.20		
3.50	445	382	10300	1.35		
4.00	380	330	10700	1.55		
4.40	340	298	10900	1.75		
5.00	300	262	11100	2.00		
5.80	255	226	11400	2.30		
6.60	220	200	11500	2.70		
3.60	410	370	5210	0.95		
4.10	375	324	6250	1.05		
4.60	325	288	6810	1.20		
5.30	275	249	7250	1.45	FA 47 RF17 FAF 47 RF17 F 47 RF17 FF 47 RF17	Y..63M _i -4 AM63 -
4.00	385	334	6100	1.05		
4.50	335	295	6680	1.20		
5.20	285	253	7190	1.40		
6.10	250	217	7430	1.55		
7.00	220	190	7650	1.80		
7.40	205	178	7740	1.95		
7.10	215	186	4060	0.95	FA 37 RF17 FAF 37 RF17 F 37 RF17 FF 37 RF17	Y..63M _i -4 AM63 -
7.90	194	167	4380	1.05		
9.10	171	145	4660	1.15		
10.0	151	129	4870	1.30		
9.30	166	142	4500	0.80	FA 27 RF17 FAF 27 RF17 F 27 RF17 FF 27 RF17	Y..63M _i -4 AM63 -
11.0	144	124	4500	0.90		
12.0	126	109	4500	1.05		
14.0	110	96	4500	1.20		
3.10	555	281.71	19600	2.70	FA 77 FAF 77 F 77 FF 77	Y..71 M _i -6 AM71 AD2
3.30	515	262.93	19700	2.90		
3.80	445	225.79	19800	3.40		
3.80	450	228.99	12600	1.80	FA 67 FAF 67 F 67 FF 67	Y..71 M _i -6 AM71 AD2
4.40	385	195.39	12900	2.10		
5.10	335	170.85	13000	2.40		
5.80	295	228.99	13000	2.80	FA 67 FAF 67 F 67 FF 67	Y..63M _i -4 AM63 AD2
6.80	250	195.39	13000	3.20		
7.70	220	170.85	13000	3.70		
4.40	390	199.7	10600	1.50		
4.70	360	183.6	10800	1.65	FA 57 FAF 57 F 57 FF 57	Y..71 M _i -6 AM71 AD2
5.50	310	157.09	11100	1.95		
6.40	265	136.16	11300	2.20		
6.80	250	127.27	11400	2.40		
7.90	215	110.01	11500	2.80		

n _i [l/min]	M _i [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =0.18kw						
6.60	260	199.7	11300	2.30	FA 57 FAF 57 F 57 FF 57	Y..63M _i -4 AM63 AD2
7.20	235	183.6	11500	2.50		
8.40	200	157.09	11500	2.90		
9.70	177	136.16	11500	3.40		
10.0	166	127.27	11500	3.60		
4.60	375	190.76	6240	1.05	FA 47 FAF 47 F 47 FF 47	Y..71M _i -6 AM71 AD1
5.00	345	175.38	6600	1.15		
5.80	295	150.06	7090	1.35		
6.70	255	130.07	7410	1.55		
7.20	240	121.57	7530	1.65		
6.90	245	190.76	7470	1.60	FA 47 FAF 47 F 47 FF 47	Y..63M _i -4 AM63 AD1
7.50	225	175.38	7600	1.75		
8.80	195	150.06	7800	2.00		
10.0	169	130.07	7920	2.40		
11.0	158	121.57	7970	2.50		
7.40	230	117.88	3750	0.85	FA 37 FAF 37 F 37 FF 37	Y..71M _i -6 AM71 AD1
8.70	198	100.36	4320	1.00		
10.0	171	86.53	4660	1.15		
11.0	159	80.65	4790	1.25		
12.0	139	70.5	4970	1.45		
10.0	167	128.51	4700	1.20		
11.0	154	117.88	4840	1.30		
13.0	131	100.36	5040	1.55	FA 37 FAF 37 F 37 FF 37	Y..63M _i -4 AM63 AD1
15.0	113	86.53	5180	1.75		
16.0	105	80.65	5230	1.90		
19.0	92	70.5	5300	2.20		
20.0	86	66.09	5330	2.30		
23.0	76	58.32	5380	2.60		
12.0	143	109.9	4500	0.90		
14.0	123	94.76	4500	1.05		
15.0	115	88.32	4500	1.15		
17.0	100	77.21	4500	1.30		
18.0	94	72.37	4500	1.40	FA 27 FAF 27 F 27 FF 27	Y..63M _i -4 AM63 AD1
21.0	83	63.86	4500	1.55		
23.0	74	56.62	4500	1.75		
26.0	65	50.19	4500	2.00		
28.0	61	46.78	4500	2.10		
32.0	53	40.89	4410	2.40		
34.0	50	38.33	4340	2.60		
39.0	44	33.83	4200	3.00		
45.0	38.0	29.56	4040	3.40		
49.0	35.0	27.18	3950	3.70		
57.0	30.0	23.25	3780	4.30		
65.0	26.0	20.15	3630	5.00		
70.0	24.0	18.84	3560	5.30		
81.0	21.0	16.28	3410	6.10	FA 27 FAF 27 F 27 FF 27	Y..63M _i -4 AM63 AD2
95.0	18.0	13.84	3240	7.20		
107	16.0	12.35	3140	8.10		
125	14.0	10.55	2990	9.50		
134	13.0	9.88	2930	10.0		
140	12.0	9.40	2870	11.0		
162	11.0	8.13	2750	12.0		
191	9.00	6.91	2610	13.0		
214	8.00	6.17	2520	14.0		

F SERIES



n	M _i	i	Fr	K	Frame size	Input Configuration
[l/min]	[Nm]		[N]			
P₁=0.18kw						
251	6.90	5.27	2400	14.0	FA 27	Y..63M ₂ -4
268	6.40	4.93	2350	15.0	FAF 27	AM63
318	5.40	4.16	2230	16.0	F 27	AD2
					FF 27	
335	5.10	8.13	2190	24.0	FA 27	Y..63 M ₂ -2
394	4.40	6.91	2080	26.0	FAF 27	AM63
441	3.90	6.17	2000	28.0	F 27	AD2
516	3.30	5.27	1910	30.0	FF 27	
551	3.10	4.93	1870	31.0		
655	2.60	4.16	1770	33.0		
P₁=0.25kw						
0.15	13300	8831	87900	0.90	FA 127 RF77	Y..71M ₂ -4
0.17	11500	7643	90000	1.05	FAF 127 RF77	AM71
0.19	10400	6715	90000	1.15	F 127 RF77	AD2
0.22	9230	5925	90000	1.30	FF 127 RF77	
0.25	7940	5153	90000	1.50		
0.29	6890	4533	90000	1.75		
0.22	9050	5954	46000	0.85	FA 107 RF77	Y..71M ₂ -4
0.25	7890	5223	49300	0.95	FAF 107 RF77	AM71
0.28	7120	4567	51300	1.10	F 107 RF77	AD2
0.37	5430	3521	55300	1.40	FF 107 RF77	
0.43	4780	3037	56800	1.60	FA 107 RF77	Y..71M1-4
0.47	4340	2756	57700	1.75	FAF 107 RF77	AM71
0.55	3730	2369	59000	2.10	F 107 RF77	AD3
0.63	3250	2068	59900	2.40	FF 107 RF77	
0.81	2490	1597	61300	3.10		
0.93	2150	1401	61900	3.60		
0.45	4670	2907	27500	0.90	FA 97 RF57	Y..71M ₂ -4
0.51	4180	2553	30300	1.05	FAF 97 RF57	AM71
0.58	3670	2245	31600	1.15	F 97 RF57	AD2
0.66	3200	1970	32800	1.35	FF 97 RF57	
0.85	2500	1527	34400	1.70		
0.98	2090	1327	35200	2.00		
1.10	1910	1171	35500	2.20		
1.30	1670	1022	36000	2.60		
0.75	2820	1722	33700	1.50	FA 97 RF57	Y..71M ₂ -4
					FAF 97 RF57	AM71
					F 97 RF57	AD3
					FF 97 RF57	
0.67	3130	1930	13500	0.95	FA 87 RF57	Y..71M ₂ -4
0.76	2790	1709	23700	1.05	FAF 87 RF57	AM71
0.87	2440	1493	25000	1.25	F 87 RF57	AD2
1.00	2050	1300	26300	1.45	FF 87 RF57	
1.10	1830	1148	26900	1.65		
1.30	1590	1010	27600	1.90		
1.50	1410	887	28000	2.10	FA 87 RF57	Y..71M ₂ -4
1.70	1230	780	28500	2.40	FAF 87 RF57	AM71
1.90	1040	674	28900	2.90	F 87 RF57	AD3
					FF 87 RF57	
P₁=0.25kw						
1.20	1740	1053	13900	0.85	FA 77 RF37	Y..71M ₂ -4
1.40	1490	910	15700	1.00	FAF 77 RF37	AM71
1.60	1290	810	16900	1.15	F 77 RF37	AD2
1.80	1130	710	17700	1.30	FF 77 RF37	
2.10	1000	615	18300	1.50	FA 77 RF37	Y..71M ₂ -4
2.40	870	538	18700	1.70	FAF 77 RF37	AM71
2.70	775	480	19000	1.95	F 77 RF37	AD2
3.20	660	413	19400	2.30	FF 77 RF37	
2.30	930	572	9150	0.90		
2.60	810	509	10400	1.00		
3.00	700	437	11200	1.15	FA 67 RF37	Y..71M ₂ -4
2.60	830	500	10200	1.00	FAF 67 RF37	AM71
2.90	755	454	10800	1.10	F 67 RF37	AD2
3.30	650	392	11600	1.25	FF 67 RF37	
3.90	550	333	12200	1.50		
4.40	485	297	12500	1.70		
5.00	425	261	12700	1.90		
5.50	385	238	12900	2.10		
3.40	620	386	8830	0.95		
3.80	540	338	9640	1.10		
5.10	405	255	10500	1.45	FA 57 RF37	Y..71M ₂ -4
3.40	635	382	7390	0.95	FAF 57 RF37	AM71
3.90	550	330	9570	1.10	F 57 RF37	AD2
4.40	495	298	9950	1.20	FF 57 RF37	
5.00	435	262	10300	1.35		
5.80	370	226	10700	1.60		
6.50	320	200	11000	1.85		
7.60	275	170	11300	2.20		
5.20	400	249	5880	1.00		
6.00	355	218	6470	1.10		
6.70	315	193	6920	1.25	FA 47 RF17	Y..71M1-4
7.40	285	175	7180	1.40	FAF 47 RF17	AM71
5.10	410	253	4980	0.95	F 47 RF17	-
6.00	365	217	6380	1.10	FF 47 RF17	
6.80	315	190	6900	1.25		
7.30	295	178	7090	1.35		
8.70	245	149	7480	1.60		
9.90	215	131	7670	1.85		
8.90	245	145	3420	0.80	FA 37 RF17	Y..71M1-4
10.0	215	129	4040	0.90	FAF 37 RF17	AM71
11.0	198	118	4320	1.00	F 37 RF17	-
13.0	164	98	4740	1.20	FF 37 RF17	
15.0	144	87	4940	1.40		
3.20	750	281.71	19100	2.00	FA 77	Y..71 M ₂ -6
3.40	700	262.93	19300	2.10	FAF 77	AM71
4.00	600	225.79	19500	2.50	F 77	AD2
4.50	525	198.31	19600	2.80	FF 77	
4.80	500	188.40	19700	3.00		
3.90	610	228.99	11800	1.35	FA 67	Y..71 M ₂ -6
4.60	520	195.39	12300	1.55	FAF 67	AM71
5.20	455	170.85	12600	1.80	F 67	AD2
5.50	430	162.31	12700	1.90	FF 67	
6.30	375	142.40	12900	2.20		

n ₁ [1/min]	M ₁ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P₁=0.25kw						
5.70	420	228.99	12700	1.95	FA 67	Y..71 M ₁ -4 AM71 AD2
6.60	355	195.39	13000	2.30	FAF 67	
7.60	310	170.85	13000	2.60	F 67	
8.00	295	162.31	13000	2.80	FF 67	
9.10	260	142.40	13000	3.10		
4.50	530	199.70	9700	1.15	FA 57	Y..71 M ₁ -6 AM71 AD2
4.90	485	183.60	9900	1.25		
5.70	415	157.09	10500	1.45		
6.60	360	136.16	10800	1.65		
7.00	335	127.27	10900	1.75	F 57	
8.10	290	110.01	11200	2.00	FF 57	
6.50	365	199.70	10800	1.65	FA 57	Y..71M ₁ -4 AM71 AD2
7.10	335	183.60	10900	1.80		
8.30	285	157.09	11200	2.10		
9.60	250	136.16	11400	2.40		
10.0	230	127.27	11500	2.60	F 57	
12.0	200	110.01	11500	3.00	FF 57	
6.00	400	150.06	5920	1.00	FA 47	Y..71M ₁ -6 AM71 AD1
6.90	345	130.07	6590	1.15		
7.40	320	121.57	6830	1.25		
8.50	280	105.09	7230	1.45		
6.80	350	190.76	6550	1.15	FA 47	Y..71M ₁ -4 AM71 AD1
7.40	320	175.38	6850	1.25		
8.70	275	150.06	7270	1.45		
10.0	235	130.07	7540	1.65		
11.0	220	121.57	7640	1.80	F 47	
12.0	193	105.09	7810	2.10	FF 47	
15.0	164	89.29	7950	2.40		
10.0	235	128.51	3690	0.85	FA 37	Y..71M ₁ -4 AM71 AD1
11.0	215	117.88	4040	0.90		
13.0	184	100.36	4500	1.10		
15.0	159	86.53	4790	1.25		
16.0	148	80.65	4900	1.35	FAF 37	
18.0	130	70.50	5060	1.55	F 37	
20.0	121	66.09	5120	1.65	FF 37	
22.0	107	58.32	5210	1.85		
24.0	100	54.54	5260	2.00		
25.0	95	51.70	5280	2.10		
28.0	86	47.02	5330	2.30	FA 37	Y..71M ₁ -4 AM71 AD2
30.0	80	43.83	5360	2.50		
34.0	70	38.31	5400	2.80		
36.0	66	35.91	5420	3.00		
41.0	58	31.69	5440	3.40	FF 37	
17.0	142	77.21	4500	0.90	FA 27	Y..71M ₁ -4 AM71 AD1
18.0	133	72.37	4500	1.00		
20.0	117	63.86	4500	1.10		
23.0	104	56.62	4500	1.25		
26.0	92	50.19	4440	1.40	FAF 27	
28.0	86	46.78	4370	1.50	F 27	
32.0	75	40.89	4240	1.75	FF 27	
34.0	70	38.33	4180	1.85		
38.0	62	33.83	4060	2.10		

n ₁ [1/min]	M ₁ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P₁=0.25kw						
44.0	54	29.56	3920	2.40	FA 27	Y..71M ₁ -4 AM71 AD2
48.0	50	27.18	3840	2.60		
56.0	43	23.25	3690	3.00		
64.0	37	20.15	3550	3.50		
69.0	35	18.84	3480	3.80	FAF 27	Y..71M ₁ -4 AM71 AD2
80.0	30	16.28	3350	4.40		
94.0	25	13.84	3200	5.10		
105	23	12.35	3090	5.70		
123	19	10.55	2950	6.70	F 27	
132	18	9.88	2900	7.20	FF 27	
138	17	9.4	2840	7.50		
160	15	8.13	2720	8.30		
188	13	6.91	2590	9.00		
211	11	6.17	2500	9.60		
247	9.7	5.27	2380	10.0		
264	9.1	4.93	2340	11.0		
313	7.6	4.16	2220	11.0		
327	7.3	8.13	2180	17.0	FA 27	Y..63 M ₁ -2 AM63 AD2
385	6.2	6.91	2080	18.0		
431	5.5	6.17	2000	20.0		
505	4.7	5.27	1910	21.0		
539	4.4	4.93	1870	22.0	F 27	
640	3.7	4.16	1770	24.0	FF 27	
P₁=0.37kw						
0.21	14900	6715	84600	0.80	FA 127 RF77	Y..71M ₁ -4 AM71 AD2
0.23	13200	5925	88100	0.90		
0.27	11400	5153	90000	1.05		
0.30	9930	4533	90000	1.20		
0.35	8690	3926	90000	1.40	F 127 RF77	
0.40	7560	3454	90000	1.60	FF 127 RF77	
0.46	6610	3031	90000	1.80		
0.45	6850	3037	52000	1.10	FA 107 RF77	Y..71M ₁ -4 AM71 AD3
0.50	6210	2756	53500	1.25		
0.58	5340	2369	55500	1.45		
0.67	4660	2068	57000	1.65		
0.86	3570	1597	59300	2.20	FF 107 RF77	
0.70	4540	1970	29200	0.95	FA 97 RF57	Y..71M ₁ -4 AM71 AD2
0.90	3540	1527	32000	1.20		
1.00	2990	1327	33300	1.45		
1.20	2710	1171	33900	1.60		
1.40	2370	1022	34700	1.80	F 97 RF57	
1.50	2000	898	35400	2.10	FA 97 RF57	Y..71M ₁ -4 AM71 AD3
0.80	3990	1722	30800	1.10		
1.10	2930	1300	22000	1.00	FA 87 RF57	Y..71M ₁ -4 AM71 AD2
1.20	2610	1148	24400	1.15		
1.40	2280	1010	25600	1.30		
1.60	2010	887	26400	1.50	FA 87 RF57	Y..71M ₁ -4 AM71 AD3
1.80	1760	780	27100	1.70		
2.00	1500	674	27800	2.00		

F SERIES



n ₁ [1/min]	M ₁ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P₁=0.37kw						
2.30	1370	609	28100	2.20	FA 87 RF57	Y..71M ₁ -4 AM71 AD3
2.70	1150	515	28600	2.60	FAF 87 RF57	
3.00	1020	452	28900	2.90	F 87 RF57	
					FF 87 RF57	
1.70	1840	810	11300	0.80	FA 77 RF37	Y..71M ₁ -4 AM71 AD2
1.90	1620	710	14900	0.95		
2.20	1420	615	16200	1.05		
2.60	1240	538	17200	1.20		
2.90	1100	480	17900	1.35		
3.40	940	413	18500	1.60		
3.80	840	367	18900	1.80	FA 67 RF37	Y..71M ₁ -4 AM71 AD2
4.30	750	323	19100	2.00		
3.60	880	384	9670	0.95	FA 57 RF37	Y..71M ₁ -4 AM71 AD2
4.10	785	338	10600	1.05		
4.50	700	305	11200	1.15		
5.40	590	257	11900	1.40		
6.00	520	231	12300	1.55		
5.40	580	255	9330	1.05	FA 47 RF17	Y..71M ₁ -4 AM71 AD2
6.90	455	201	10200	1.30		
7.60	410	181	10500	1.45		
5.30	615	262	9070	0.95		
6.10	525	226	9740	1.15		
6.90	460	200	10200	1.30		
8.10	390	170	10600	1.50	FA 47 RF17	Y..71M ₁ -4 AM71 AD2
9.00	345	152	10900	1.70		
10.0	305	134	11100	1.95		
7.90	400	175	5860	1.00	FA 47 RF17	Y..71M ₁ -4 AM71 AD2
9.40	340	147	6660	1.15		
11.0	300	130	7050	1.35		
3.30	1050	270.68	28900	2.80	FA 87	Y..80M ₁ -6 AM80 AD2
3.50	990	255.37	29000	3.00	FAF 87	
4.00	890	228.93	29200	3.40	F 87	
					FF 87	
4.00	880	225.79	18700	1.70	FA 77	Y..80 M ₁ -6 AM80 AD2
4.60	770	198.31	19100	1.95		
4.80	735	188.40	19200	2.00		
5.40	645	166.47	19400	2.30		
6.40	555	142.27	19600	2.70	FA 77	Y..71 M ₁ -4 AM71 AD2
4.90	720	281.71	19200	2.10		
5.20	670	262.93	19300	2.20		
6.10	575	225.79	19500	2.60		
7.00	505	198.31	19700	3.00	FA 67	Y..80M ₁ -6 AM80 AD2
4.60	760	195.39	10800	1.05		
5.30	665	170.85	11500	1.25		
5.60	630	162.31	11700	1.30		
6.40	555	142.40	12100	1.45		
7.50	470	120.79	12500	1.75		

n ₁ [1/min]	M ₁ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =0.37kw						
73.0	48	18.84	3290	2.70	FA 27 FAF 27 F 27 FF 27	Y..71M1-4 AM71 AD2
85.0	42	16.28	3170	3.10		
100	35	13.84	3040	3.70		
112	32	12.35	2950	4.10		
131	27	10.55	2820	4.80		
140	25	9.88	2770	5.10		
147	24	9.4	2710	5.40		
170	21	8.13	2600	5.90		
200	18	6.91	2490	6.40		
224	16	6.17	2410	6.90		
262	14	5.27	2300	7.40	FA 27 FAF 27 F 27 FF 27	Y..71M1-2 AM71 AD2
280	13	4.93	2250	7.60		
332	11	4.16	2140	8.20		
326	11	8.13	2150	11.0		
384	9.2	6.91	2050	12.0		
430	8.2	6.17	1980	13.0		
503	7	5.27	1890	14.0		
537	6.6	4.93	1850	15.0		
638	5.5	4.16	1750	16.0		
P ₁ =0.55kw						
0.22	20100	6295	93100	0.90	FA 157 RF97	Y..80M1-4
0.26	16800	5404	103500	1.05	FAF 157 RF97	AM80
0.50	8660	2780	119000	2.10	F 157 RF97	AD3
0.57	7660	2427	120000	2.40	FF 157 RF97	Y..80M1-4 AM80 AD5
0.82	5440	1674	120000	3.30	FA 157 RF97	Y..80M1-4 AM80 AD4
					FAF 157 RF97	
					F 157 RF97	
					FF 157 RF97	
1.10	4200	1308	120000	4.30	FA 157 RF97	Y..80M1-4 AM80 AD5
					FAF 157 RF97	
					F 157 RF97	
1.20	3680	1169	120000	4.90	FF 157 RF97	
0.35	13200	3926	88100	0.90	FA 127 RF77	Y..80M1-4
0.40	11500	3454	90000	1.05	FAF 127 RF77	AM80
0.46	10100	3031	90000	1.20	F 127 RF77	AD2
0.58	8120	2369	48600	0.95	FF 127 RF77	Y..80M1-4 AM80 AD3
0.67	7090	2068	51400	1.10	FA 107 RF77 FAF 107 RF77 F 107 RF77 FF 107 RF77	Y..80M1-4 AM80 AD3
0.76	6090	1826	53800	1.25		
0.86	5450	1597	55300	1.40		
0.98	4750	1401	56900	1.60		
1.10	4140	1243	58100	1.85		
1.30	3710	1087	59000	2.10		
1.40	3170	950	60100	2.40		
1.70	2750	834	60800	2.80		

n ₁ [1/min]	M ₁ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =0.55kw						
2.20	2140	640	61900	3.60	FA 107 RF77	Y..80M ₁ -4
					FAF 107 RF77	AM80
					F 107 RF77	AD4
					FF 107 RF77	AD4
1.00	4550	1327	29100	0.95	FA 97 RF57	Y..80M ₁ -4
1.20	4080	1171	30500	1.05	FAF 97 RF57	AM80
1.40	3570	1022	31900	1.20	F 97 RF57	AD2
1.50	3050	898	33200	1.40	FA 97 RF57	Y..80M ₁ -4
					FAF 97 RF57	AM80
					F 97 RF57	AD3
					FF 97 RF57	AD3
1.80	2700	784	34000	1.60	FA 87 RF57 FAF 87 RF57 F 87 RF57 FF 87 RF57	Y..80M ₁ -4 AM80 AD3
2.00	2340	690	34700	1.85		
2.30	2070	605	35300	2.10		
2.60	1790	529	35800	2.40		
3.00	1580	467	36100	2.70		
3.40	1360	406	36500	3.20		
3.80	1220	363	36700	3.50		
1.60	3050	887	17400	1.00		
1.80	2670	780	24200	1.10		
2.00	2290	674	25500	1.30		
2.30	2080	609	26200	1.45		
2.70	1760	515	27100	1.70		
3.00	1550	452	27700	1.95		
4.00	1160	345	28600	2.60		
2.90	1660	480	14500	0.90	FA 77 RF37	Y..80M ₁ -4
3.40	1420	413	16200	1.05	FAF 77 RF37	AM80
3.80	1270	367	17100	1.20	F 77 RF37	AD2
4.30	1120	323	17800	1.35	FF 77 RF37	AD2
5.40	890	257	9610	0.90	FA 67 RF37	Y..80M ₁ -4
6.00	790	231	10500	1.05	FAF 67 RF37	AM80
6.70	705	205	11200	1.15	F 67 RF37	AD2
7.90	600	175	11900	1.35	FF 67 RF37	AD2
3.40	1550	270.68	27700	1.95	FA 87 FAF 87 F 87 FF 87	Y..80M ₁ -6 AM80 AD2
3.60	1460	255.37	27900	2.00		
4.00	1310	228.93	28300	2.30		
4.60	1130	197.20	28700	2.60		
5.10	1030	179.97	28900	2.90		
4.00	1290	225.79	17000	1.15	FA 77	Y..80M ₁ -6
4.60	1130	198.31	17700	1.30	FAF 77	AM80
4.90	1080	188.40	18000	1.40	F 77	AD2
5.50	950	166.47	18500	1.55	FA 77	Y..80M ₁ -6
					FAF 77	AM80
					F 77	AD2
					FF 77	AD2
6.10	850	225.79	18800	1.75	FA 77 FAF 77 F 77 FF 77	Y..80M ₁ -4 AM80 AD2
7.00	750	198.31	19100	2.00		
7.30	715	188.4	19200	2.10		
8.30	630	166.47	19400	2.40		
9.70	540	142.27	19600	2.80		
11.00	495	130.42	19700	3.00		
12.00	435	114.45	19800	3.40		
13.00	410	108.46	19800	3.60		
15.00	360	94.93	19900	4.20		
7.10	740	195.39	10900	1.10	FA 67 FAF 67 F 67 FF 67	Y..80M ₁ -4 AM80 AD2
8.10	650	170.85	11600	1.25		
8.50	615	162.31	11800	1.35		
9.70	540	142.4	12200	1.50		
11.0	455	120.79	12600	1.80		
13.0	415	109.04	12800	2.00		

F SERIES



n _i [1/min]	M _i [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P_i=0.55kw						
14.0	365	95.94	12900	2.20	FA 67	Y..80M _i -4
15.0	340	90.59	13000	2.40	FAF 67	AM80
17.0	300	79.76	13000	2.70	F 67	AD2
					FF 67	
8.80	595	157.09	9220	1.00		
10.0	515	136.16	9800	1.15		
11.0	480	127.27	10000	1.25	FA 57	Y..80M _i -4
13.0	415	110.01	10500	1.45	FAF 57	AM80
15.0	355	93.47	10800	1.70	F 57	AD2
17.0	315	83.46	11000	1.90	FF 57	
19.0	275	72.98	11300	2.20		
20.0	255	68.22	11400	2.30		
23.0	220	58.97	11500	2.70		
13.0	395	105.09	5920	1.00	FA 47	Y..80M _i -4
15.0	335	89.29	6670	1.20	FAF 47	AM80
17.0	300	79.72	7030	1.30	F 47	AD1
20.0	255	68.09	7390	1.55	FF 47	
21.0	245	65.36	7470	1.60	FA 47	Y..80M _i -4
24.0	215	56.49	7690	1.85	FAF 47	AM80
29.0	183	48.00*	7860	2.20	F 47	AD2
32.0	163	42.86	7950	2.40	FF 47	
24.0	220	58.32	3950	0.90	FA 37	Y..80M _i -4
25.0	205	54.54	4180	0.95	FAF 37	AM80
27.0	197	51.70	4340	1.00	F 37	AD1
					FF 37	
29.0	179	47.02	4570	1.10		
31.0	167	43.83	4710	1.20	FA 37	Y..80M _i -4
36.0	146	38.31	4920	1.35	FAF 37	AM80
38.0	137	35.91	5000	1.45	F 37	AD2
44.0	121	31.69	4980	1.65	FF 37	
49.0	107	28.09	4860	1.85		
58.0	91	23.88	4680	2.20		
58.0	90	23.63	4670	2.20	FA 37	Y..80M _i -4
67.0	78	20.57	4520	2.60	FAF 37	AM80
72.0	73	19.27	4450	2.70	F 37	AD2
81.0	65	17.03	4320	3.10	FF 37	
96.0	54	14.33	4130	3.70		
36.0	144	77.21	3410	0.90	FA 27	Y..71M _i -2
39.0	135	72.37	3390	0.95	FAF 27	AM71
44.0	119	63.86	3350	1.10	F 27	AD1
50.0	106	56.62	3290	1.25	FF 27	
56.0	94	50.19	3230	1.40		
59.0	88	23.25	3200	1.45		
68.0	77	20.15	3120	1.70		
73.0	72	18.84	3080	1.80		
85.0	62	16.28	2990	2.10	FA 27	Y..80M _i -4
100	53	13.84	2890	2.50	FAF 27	AM80
112	47	12.35	2810	2.80	F 27	AD2
131	40	10.55	2710	3.20	FF 27	
140	38	9.88	2660	3.50		
147	36	9.40	2600	3.60		
170	31	8.13	2500	4.00		

n _i [1/min]	M _i [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P_i=0.55kw						
200	26	6.91	2400	4.30	FA 27	Y..80M _i -4
224	24	6.17	2330	4.60	FAF 27	AM80
262	20	5.27	2230	5.00	F 27	AD2
280	19	4.93	2190	5.10	FF 27	
332	16	4.16	2090	5.50		
346	15	8.13	2070	8.10		
407	13	6.91	1970	8.80	FA 27	Y..71M _i -2
456	12	6.17	1910	9.50	FAF 27	AM71
533	9.8	5.27	1820	10.0	F 27	AD2
570	9.2	4.93	1790	10.0	FF 27	
676	7.8	4.16	1700	11.0		
P_i=0.75kw						
0.52	11700	2780	114600	1.55	FA 157 RF97	Y..80M _i -4
					FAF 157 RF97	AM80
					F 157 RF97	AD3
					FF 157 RF97	
0.86	7310	1674	120000	2.50	FA 157 RF97	Y..80M _i -4
					FAF 157 RF97	AM80
					F 157 RF97	AD4
					FF 157 RF97	
0.59	10300	2427	116800	1.75	FA 157 RF97	Y..80M _i -4
1.10	5640	1308	120000	3.20	FAF 157 RF97	AM80
1.20	4980	1169	120000	3.60	F 157 RF97	AD5
					FF 157 RF97	
0.47	13400	3031	87600	0.90	FA 127 RF77	Y..80M _i -4
					FAF 127 RF77	AM80
					F 127 RF77	AD2
					FF 127 RF77	
0.54	12100	2672	90000	1.00	FA 127 RF77	Y..80M _i -4
0.61	10600	2357	90000	1.15	FAF 127 RF77	AM80
0.70	9150	2038	90000	1.30	F 127 RF77	AD3
0.80	7960	1784	90000	1.50	FF 127 RF77	
0.89	7150	1606	90000	1.70		
0.79	8120	1826	48600	0.95		
0.90	7220	1597	51000	1.05	FA 107 RF77	Y..80M _i -4
1.00	6310	1401	53300	1.20	FAF 107 RF77	AM80
1.20	5530	1243	55100	1.40	F 107 RF77	AD3
1.30	4920	1087	56500	1.55	FF 107 RF77	
1.50	4220	950	58000	1.80		
1.70	3680	834	59100	2.10		
2.20	2860	640	60600	2.70	FA 107 RF77	Y..80M _i -4
3.30	1940	436	62300	3.90	FAF 107 RF77	AM80
					F 107 RF77	AD4
					FF 107 RF77	
1.40	4710	1022	26300	0.90	FA 97 RF57	Y..80M _i -4
					FAF 97 RF57	AM80
					F 97 RF57	AD2
					FF 97 RF57	

F

n _i [l/min]	M _i [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P₁=0.75kw						
1.60	4050	898	30600	1.05	FA 97 RF57 FAF 97 RF57 F 97 RF57 FF 97 RF57	Y..80M _i -4 AM80 AD3
1.80	3580	784	31900	1.20		
2.10	3110	690	33000	1.40		
2.40	2740	605	33900	1.55		
2.70	2380	529	34600	1.80		
3.10	2100	467	35200	2.00		
3.50	1810	406	35700	2.40		
4.00	1620	363	36100	2.60		
2.10	3040	674	18000	1.00	FA 87 RF57 FAF 87 RF57 F 87 RF57 FF 87 RF57	Y..80M _i -4 AM80 AD3
2.40	2760	609	23800	1.10		
2.80	2330	515	25400	1.30		
3.20	2050	452	26300	1.45		
4.20	1540	345	27700	1.95		
3.90	1680	367	14400	0.90	FA 77 RF37 FAF 77 RF37 F 77 RF37 FF 77 RF37	Y..80M _i -4 AM80 AD2
4.40	1480	323	15800	1.00		
5.10	1280	280	17000	1.15		
3.40	2100	276.77	35200	2.00	FA 97 FAF 97 F 97 FF 97	Y..90S-6 AM90 AD3
3.70	1930	253.41	35500	2.20		
4.20	1700	223.88	35900	2.50		
3.50	2060	270.68	26200	1.45	FA 87 FAF 87 F 87 FF 87	Y..90S-6 AM90 AD2
3.70	1940	255.37	26600	1.55		
4.10	1740	228.93	27200	1.70		
4.80	1500	197.20	27800	2.00		
5.20	1370	179.97	28100	2.20		
5.90	1210	159.61	28500	2.50		
5.30	1350	270.68	28200	2.20	FA 87 FAF 87 F 87 FF 87	Y..80M _i -4 AM80 AD2
5.60	1270	255.37	28400	2.40		
6.30	1140	228.93	28700	2.60		
4.70	1510	198.31	15700	1.00	FA 77 FAF 77 F 77 FF 77	Y..90S-6 AM90 AD2
5.00	1430	188.40	16100	1.05		
5.60	1260	166.47	17100	1.20		
6.60	1080	142.27	18000	1.40		
7.20	990	130.42	18300	1.50		
6.40	1120	225.79	17800	1.35	FA 77 FAF 77 F 77 FF 77	Y..80M _i -4 AM80 AD2
7.20	980	198.31	18300	1.50		
7.60	940	188.40	18500	1.60		
8.60	830	166.47	18900	1.80		
10.0	710	142.27	19200	2.10		
11.0	650	130.42	19400	2.30		
13.0	570	114.45	19600	2.60		
13.0	540	108.46	19600	2.80		
8.40	850	170.85	10000	0.95	FA 67 FAF 67 F 67 FF 67	Y..80M _i -4 AM80 AD2
8.80	810	162.31	10400	1.00		
10.0	710	142.40	11200	1.15		
12.0	600	120.79	11900	1.35		
13.0	540	109.04	12200	1.50		
15.0	475	95.94	12500	1.70		
16.0	450	90.59	12600	1.80		
18.0	395	79.76	12800	2.10		

n _i [l/min]	M _i [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P₁=0.75kw						
21.0	335	67.65	13000	2.40	FA 67 FAF 67 F 67 FF 67	Y..80M _i -4 AM80 AD2
24.0	300	61.07	13000	2.70		
11.0	635	127.27	7770	0.95	FA 57 FAF 57 F 57 FF 57	Y..80M _i -4 AM80 AD2
13.0	545	110.01	9580	1.10		
15.0	465	93.47	10100	1.30		
17.0	415	83.46	10500	1.45		
20.0	360	72.98	10800	1.65		
21.0	340	68.22	10900	1.75		
24.0	290	58.97	11200	2.00		
29.0	250	50.10	11400	2.40		
32.0	220	44.73	11300	2.70		
18.0	395	79.72	5950	1.00	FA 47 FAF 47 F 47 FF 47	Y..80M _i -4 AM80 AD1
21.0	335	68.09	6670	1.20		
22.0	325	65.36	6810	1.25	FA 47 FAF 47 F 47 FF 47	Y..80M _i -4 AM80 AD2
25.0	280	56.49	7220	1.40		
30.0	235	48.00	7530	1.65		
33.0	210	42.86	7690	1.85		
39.0	183	36.61	7860	2.20		
42.0	171	34.29	7780	2.30		
50.0	144	28.88	7460	2.80		
31.0	230	47.02	3720	0.85	FA 37 FAF 37 F 37 FF 37	Y..80M _i -4 AM80 AD2
33.0	215	43.83	4000	0.90		
37.0	191	38.31	4420	1.05		
40.0	179	35.91	4570	1.10		
45.0	158	31.69	4590	1.25		
51.0	140	28.09	4510	1.45		
61.0	118	23.63	4370	1.70		
70.0	103	20.57	4260	1.95		
74.0	96	19.27	4200	2.10		
84.0	85	17.03	4090	2.40		
100	72	14.33	3930	2.80		
112	64	12.87	3840	3.10		
62.0	116	23.25	2910	1.10	FA 27 FAF 27 F 27 FF 27	Y..80M _i -4 AM80 AD2
71.0	101	20.15	2860	1.30		
76.0	94	18.84	2840	1.40		
88.0	81	16.28	2770	1.60		
104	69	13.84	2700	1.90		
116	62	12.35	2640	2.10		
136	53	10.55	2560	2.50		
145	49	9.88	2520	2.60		
153	47	9.40	2450	2.80	FA 27 FAF 27 F 27 FF 27	Y..80M _i -4 AM80 AD2
177	41	8.13	2370	3.00		
208	34	6.91	2290	3.30		
233	31	6.17	2230	3.50		
272	26	5.27	2140	3.80		
291	25	4.93	2100	3.90		
345	21	4.16	2010	4.20		

F SERIES



n ₁ [1/min]	M ₂ [Nm]	i	F _r [N]	K	Frame size	Input Configuration
P ₁ =0.75kw						
356	20	8.13	2000	6.10	FA 27 FAF 27 F 27 FF 27	Y..90M-2 AM80 AD2
418	17	6.91	1910	6.70		
469	15	6.17	1850	7.10		
549	13	5.27	1770	7.60		
586	12	4.93	1740	7.90		
695	10	4.16	1650	8.40		
P ₁ =1.10kw						
0.51	17900	2780	100500	1.00	FA 157 RF97 FAF 157 RF97 F 157 RF97 FF 157 RF97	Y..90S-4 AM90 AD3
0.58	15800	2427	106100	1.15	FA 157 RF97 FAF 157 RF97 F 157 RF97 FF 157 RF97	Y..90S-4 AM90 AD5
0.65	14100	2185	110000	1.25		
0.73	12500	1944	113100	1.45		
0.85	11100	1674	115600	1.60		
1.10	8610	1308	119100	2.10		
1.20	7630	1169	120000	2.40		
1.50	6100	953	120000	3.00		
1.70	5330	845	120000	3.40		
3.20	2810	446	120000	6.40		
4.70	1900	302	120000	9.40		
0.70	13700	2038	87000	0.85	FA 127 RF77 FAF 127 RF77 F 127 RF77 FF 127 RF77	Y..90S-4 AM90 AD3
0.80	12000	1784	90000	1.00		
0.88	10700	1606	90000	1.10		
1.00	9330	1390	90000	1.30		
1.20	8150	1220	90000	1.45		
1.30	7250	1077	90000	1.65		
1.10	8350	1243	48000	0.90	FA 107 RF77 FAF 107 RF77 F 107 RF77 FF 107 RF77	Y..90S-4 AM90 AD3
1.30	7380	1087	50600	1.05		
1.50	6380	950	53100	1.20		
1.70	5570	834	55000	1.40		
1.90	4890	736	56500	1.55		
2.20	4310	6405	7800	1.80	FA 107 RF77 FAF 107 RF77 F 107 RF77 FF 107 RF77	Y..90S-4 AM90 AD4
2.10	4670	690	27400	0.90	FA 97 RF57 FAF 97 RF57 F 97 RF57 FF 97 RF57	Y..90S-4 AM90 AD3
2.40	4110	605	30400	1.05		
2.70	3580	529	31900	1.20		
3.00	3160	467	32900	1.35		
3.50	2730	406	33900	1.55		
3.90	2450	363	34500	1.75		
3.10	3080	452	16400	0.95	FA 87 RF57 FAF 87 RF57 F 87 RF57 FF 87 RF57	Y..90S-4 AM90 AD3
4.10	2320	345	25400	1.30		
4.70	2010	300	26400	1.50		
5.70	1670	249	27400	1.80		
3.40	3090	276.77	33100	1.40	FA 97 FAF 97 F 97 FF 97	Y..90L-6 AM90 AD3
3.70	2830	253.41	33700	1.50		
4.20	2500	223.88	34400	1.70		
5.00	2120	189.92	35200	2.00		
5.40	1950	174.87	35500	2.20		
P ₁ =1.10kw						
5.10	2040	276.77	35300	2.10	FA 97 FAF 97 F 97 FF 97	Y..90S-4 AM90 AD3
5.60	1870	253.41	35600	2.30		
6.30	1650	223.88	36000	2.60		
4.10	2550	228.93	24600	1.15	FA 87 FAF 87 F 87 FF 87	Y..90L-6 AM90 AD2
4.80	2200	197.20	25800	1.35		
5.20	2010	179.97	26400	1.50		
5.90	1780	159.61	27100	1.70		
5.20	2000	270.68	26400	1.50	FA 87 FAF 87 F 87 FF 87	Y..90S-4 AM90 AD2
5.60	1880	255.37	26800	1.60		
6.20	1690	228.93	27300	1.75		
7.20	1450	197.20	27900	2.10		
7.90	1330	179.97	28200	2.20	FA 87 FAF 87 F 87 FF 87	Y..90S-4 AM90 AD2
8.90	1180	159.61	28600	2.50		
11.0	990	134.16	29000	3.00		
12.0	910	123.29	29200	3.30		
7.20	1460	198.31	15900	1.00	FA 77 FAF 77 F 77 FF 77	Y..90S-4 AM90 AD2
7.50	1390	188.4	16400	1.10		
8.50	1230	166.47	17300	1.20		
10.0	1050	142.27	18100	1.45		
11.0	960	130.42	18400	1.55		
12.0	840	114.45	18800	1.75		
13.0	800	108.46*	19000	1.85		
15.0	700	94.93	19300	2.10		
17.0	630	85.52	19400	2.40		
19.0	555	75.02	19600	2.70		
12.0	890	120.79	9600	0.90	FA 67 FAF 67 F 67 FF 67	Y..90S-4 AM90 AD2
13.0	800	109.04	10400	1.00		
15.0	705	95.94	11200	1.15		
16.0	670	90.59	11500	1.20		
18.0	590	79.76	12000	1.40		
21.0	500	67.65	12400	1.65		
23.0	450	61.07	12600	1.80		
26.0	395	53.73	12800	2.10		
28.0	375	50.74	12900	2.20		
33.0	315	43.20	13000	2.60		
36.0	290	39.26	13000	2.70		
42.0	250	34.01	13000	2.90		
17.0	615	83.46	9070	0.95	FA 57 FAF 57 F 57 FF 57	Y..90S-4 AM90 AD2
19.0	535	72.98	9640	1.10		
21.0	500	68.22	9890	1.20		
24.0	435	58.97	10300	1.40		
28.0	370	50.10	10700	1.60		
32.0	330	44.73	10700	1.80		
37.0	280	38.21	10300	2.10		
40.0	260	35.79	10200	2.30		
47.0	220	30.15	9780	2.60		
25.0	415	56.49	4570	0.95	FA 47 FAF 47 F 47 FF 47	Y..90S-4 AM90 AD2
30.0	355	48.00*	6500	1.15		
33.0	315	42.86	6900	1.25		
39.0	270	36.61	7300	1.50		
41.0	250	34.29	7240	1.60		
49.0	210	28.88	7020	1.85		

n	M _i	i	Fr	K	Frame size	Input Configuration
[1/min]	[Nm]		[N]			
P ₁ =1.10kw						
46.0	225	30.86	7110	1.75	FA 47	Y..90S-4 AM90 AD2
48.0	215	29.32	7040	1.85	FAF 47	
55.0	190	25.72	6860	2.10	F 47	
65.0	161	21.82	6620	2.50	FF 47	
72.0	146	19.70	6470	2.80	FA 37 FAF 37 F 37 FF 37	Y..90S-4 AM90 AD2
45.0	230	31.69	3720	0.85		
51.0	205	28.09	3970	0.95		
59.0	177	23.88	3930	1.15		
69.0	152	20.57	3870	1.30		
74.0	143	19.27	3840	1.40		
83.0	126	17.03	3770	1.60		
99.0	106	14.33	3670	1.90		
110	95	12.87	3600	2.10		
128	82	11.08	3490	2.30		
136	77	10.42	3450	2.40		
158	66	8.97	3340	2.60		
70.0	149	20.15	2440	0.85	FA 27 FAF 27 F 27 FF 27	Y..90S-4 AM90 AD2
75.0	139	18.84	2440	0.95		
87.0	120	16.28	2440	1.10		
103	102	13.84	2410	1.25		
115	91	12.35	2390	1.40		
135	78	10.55	2340	1.65		
144	73	9.88	2320	1.80		
151	70	9.40	2240	1.85		
175	60	8.13	2190	2.00		
206	51	6.91	2130	2.20		
230	46	6.17	2090	2.40		
270	39	5.27	2020	2.60		
288	36	4.93	2000	2.60		
342	31	4.16	1920	2.80		
353	30	8.13	1910	4.10	FA 27 FAF 27 F 27 FF 27	Y..80M ₁ -2 AM80 AD2
416	25	6.91	1840	4.50		
465	23	6.17	1780	4.80		
545	19	5.27	1720	5.20		
582	18	4.93	1680	5.30		
691	15	4.16	1610	5.70		
P ₁ =1.50kw						
0.85	15200	1674	107600	1.20	FA 157 RF97 FAF 157 RF97 F 157 RF97 FF 157 RF97	Y..90L-4 AM90 AD4
0.59	21800	2427	86800	0.80	FA 157 RF97 FAF 157 RF97 F 157 RF97 FF 157 RF97	Y..90L-4 AM90 AD5
0.65	19500	2185	95400	0.90		
0.74	17300	1944	102100	1.05		
1.10	11800	1308	114400	1.50		
1.20	10500	1169	116500	1.70		
1.50	8450	953	119300	2.10		
1.70	7410	845	120000	2.40		
3.20	3910	446	120000	4.60		
4.70	2650	302	120000	6.80		

n [1/min]	M _i [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P₁=1.50kw						
0.89	14700	1606	85100	0.80	FA 127 RF77 FAF 127 RF77 F 127 RF77 FF 127 RF77	Y..90L-4 AM90 AD3
1.00	12700	1390	89000	0.95		
1.20	11100	1220	90000	1.05		
1.30	9910	1077	90000	1.20		
1.50	8500	930	90000	1.40		
1.70	7480	820	90000	1.60	FA 127 RF77 FAF 127 RF77 F 127 RF77 FF 127 RF77	Y..90L-4 AM90 AD4
2.00	6610	727	90000	1.80		
2.20	5960	648	90000	2.00		
2.20	5960	648	90000	2.00		
1.50	8720	950	46900	0.90	FA 107 RF77 FAF 107 RF77 F 107 RF77 FF 107 RF77	Y..90L-4 AM90 AD3
1.70	7630	834	49900	1.00		
1.90	6710	736	52300	1.15		
2.20	5890	640	54300	1.30		
2.60	5090	560	56100	1.50		
2.90	4440	489	57500	1.75	FA 107 RF77 FAF 107 RF77 F 107 RF77 FF 107 RF77	Y..90L-4 AM90 AD4
3.30	4010	436	58400	1.90		
3.90	3400	370	59600	2.30		
3.90	3400	370	59600	2.30		
2.70	4880	529	19300	0.90	FA 97 RF57 FAF 97 RF57 F 97 RF57 FF 97 RF57	Y..90L-4 AM90 AD3
3.10	4320	467	29800	1.00		
3.50	3730	406	31500	1.15		
3.90	3340	363	32500	1.30		
4.80	2760	300	23900	1.10	FA 87 RF57 FAF 87 RF57 F 87 RF57 FF 87 RF57	Y..90L-4 AM90 AD3
5.70	2290	249	25500	1.30		
5.70	2290	249	25500	1.30		
3.70	3870	254.40	58700	2.00	FA 107 FAF 107 F 107 FF 107	Y..100L-6 AM100 AD3
4.40	3280	215.37	59800	2.30		
4.70	3030	199.31	60300	2.50		
5.30	2720	178.64	60900	2.80		
3.40	4210	276.77	30100	1.00	FA 97 FAF 97 F 97 FF 97	Y..100L-6 AM100 AD3
3.70	3860	253.41	31100	1.10		
4.20	3410	223.88	32300	1.25		
5.00	2890	189.92	33600	1.50		
5.40	2660	174.87	34100	1.60		
5.20	2770	276.77	33800	1.55	FA 97 FAF 97 F 97 FF 97	Y..90L-4 AM90 AD3
5.60	2530	253.41	34300	1.70		
6.40	2240	223.88	34900	1.90		
7.50	1900	189.92	35600	2.30		
8.20	1750	174.87	35800	2.40		
5.30	2710	270.68	24000	1.10	FA 87 FAF 87 F 87 FF 87	Y..90L-4 AM90 AD2
5.60	2550	255.37	24600	1.15		
6.20	2290	228.93	25500	1.30		
7.20	1970	197.20	26500	1.50		

F SERIES



n _i	M _i	i	Fr	K	Frame size	Input Configuration
[l/min]	[Nm]		[N]			
P_i=1.50kw						
8.00	1800	179.97	27000	1.65	FA 87	Y..90L-4 AM90 AD2
9.00	1590	159.61	27600	1.90	FAF 87	
11.00	1340	134.16	28200	2.20	F 87	
13.00	1090	109.49	28800	2.70	FF 87	
15.00	980	97.89	29000	3.10		
8.60	1660	166.47	14500	0.90		Y..90L-4 AM90 AD2
10.0	1420	142.27	16200	1.05	FA 77	
11.0	1300	130.42	16900	1.15	FAF 77	
12.0	1140	114.45	17700	1.30	F 77	
13.0	1080	108.46	18000	1.40	FF 77	
15.0	950	94.93	18500	1.60		
17.0	850	85.52	18800	1.75		
19.0	750	75.02	19100	2.00		
20.0	725	72.50	19200	2.10	FA 77	Y..90L-4 AM90 AD2
22.0	665	66.46	19300	2.20	FAF 77	
25.0	580	58.32	19500	2.60	F 77	
26.0	550	55.27	19600	2.70	FF 77	
30.0	480	48.37	19700	3.10		
33.0	435	43.58	19800	3.40	FA 77	Y..90L-4 AM90 AD3
37.0	380	38.23	19900	3.90	FAF 77	
39.0	365	36.58	19900	3.00	F 77	
45.0	315	31.51	20000	4.40	FF 77	
16.0	900	90.59	9450	0.90		Y..90L-4 AM90 AD2
18.0	795	79.76	10500	1.05	FA 67	
21.0	675	67.65	11400	1.20	FAF 67	
23.0	610	61.07	11800	1.35	F 67	
27.0	535	53.73	12200	1.50	FF 67	
28.0	505	50.74	12400	1.60		
33.0	430	43.20	12700	1.90		
36.0	390	39.26	12800	2.00		
39.0	360	36.30	12900	2.30		
45.0	320	32.08	13000	2.60	FA 67	Y..90L-4 AM90 AD3
52.0	270	27.41	13000	3.00	FAF 67	
57.0	250	25.13	13000	3.30	F 67	
					FF 67	
24.0	590	58.97	9270	1.00		Y..90L-4 AM90 AD2
29.0	500	50.10	9910	1.20	FA 57	
32.0	445	44.73	9970	1.35	FAF 57	
37.0	380	38.21	9710	1.55	F 57	
40.0	355	35.79	9600	1.65	FF 57	
47.0	300	30.15	9280	1.95		
39.0	365	36.61	6360	1.10	FA 47	Y..90L-4 AM90 AD2
42.0	340	34.29	6610	1.15	FAF 47	
50.0	285	28.88	6480	1.40	F 47	
46.0	305	30.86	6540	1.30	FF 47	
49.0	290	29.32	6500	1.35		Y..90L-4 AM90 AD2
56.0	255	25.72	6380	1.55	FA 47	
66.0	215	21.82	6210	1.85	FAF 47	
73.0	197	19.70	6100	2.00	F 47	
83.0	174	17.33	5950	2.30	FF 47	
87.0	164	16.36	5880	2.40		
103	140	13.93	5680	2.90		
n _i	M _i	i	Fr	K	Frame size	Input Configuration
[l/min]	[Nm]		[N]			
P_i=1.50kw						
70.0	205	20.57	3410	0.95		Y..90L-4 AM90 AD2
74.0	193	19.27	3410	1.05	FA 37	
84.0	170	17.03	3390	1.15	FAF 37	
100	144	14.33	3350	1.40	F 37	
111	129	12.87	3310	1.55	FF 37	
129	111	11.08	3240	1.70		
137	104	10.42	3210	1.75		
159	90	8.97	3130	1.95		
178	80	8.01	3070	2.10		
103	139	13.84	2080	0.95		Y..90L-4 AM90 AD2
116	124	12.35	2090	1.05	FA 27	
136	106	10.55	2090	1.25	FAF 27	
145	99	9.88	2080	1.30	F 27	
152	94	9.40	1990	1.40	FF 27	
176	81	8.13	1970	1.50		
207	69	6.91	1950	1.65		
232	62	6.17	1920	1.75		
271	53	5.27	1880	1.90		
290	49	4.93	1860	1.95		
344	42	4.16	1810	2.10		
348	41	8.13	1810	3.00		Y..90S-2 AM90 AD2
410	35	6.91	1750	3.30	FA 27	
459	31	6.17	1710	3.50	FAF 27	
537	27	5.27	1650	3.80	F 27	
574	25	4.93	1630	3.80	FF 27	
681	21	4.16	1560	4.10		
P_i=2.20kw						
0.99	18500	1441	98700	0.95	FA 157 RF97	Y..100L-4 AM100 AD4
					FAF 157 RF97	
					F 157 RF97	
					FF 157 RF97	
1.10	17600	1308	101300	1.00		Y..100L-4 AM100 AD5
1.20	15700	1169	106400	1.15	FA 157 RF97	
1.50	12600	953	112900	1.40	FAF 157 RF97	
1.70	11100	845	115500	1.60	F 157 RF97	
1.90	10000	764	117200	1.80	FF 157 RF97	
2.10	8930	680	118700	2.00		
2.50	7490	576	120000	2.40		
3.20	5900	446	120000	3.00		
4.70	3990	302	120000	4.50		
5.20	3590	273	120000	5.00		
6.20	3010	232	120000	6.00		
7.30	2550	197	120000	7.00		
1.30	14700	1077	85200	0.80	FA 127 RF77	Y..100L-4 AM100 AD3
1.50	12600	930	89200	0.95	FAF 127 RF77	
1.70	11100	820	90000	1.10	F 127 RF77	
2.00	9840	727	90000	1.20	FF 127 RF77	
2.20	8840	648	90000	1.35		Y..100L-4 AM100 AD4
2.60	7490	549	90000	1.60	FA 127 RF77	
2.90	6740	495	90000	1.80	FAF 127 RF77	
3.30	5830	428	90000	2.10	F 127 RF77	

n _i [1/min]	M _i [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P₁=2.20kw						
2.50	7590	560	50000	1.00	FA 107 RF77	Y..100L,-4
2.90	6620	489	52500	1.15	FAF 107 RF77	AM100
					F 107 RF77	AD3
					FF 107 RF77	
2.20	8730	640	46900	0.90	FA 107 RF77	Y..100L,-4
3.30	5950	436	54100	1.30	FAF 107 RF77	AM100
3.80	5040	370	56200	1.50	F 107 RF77	AD4
4.30	4540	333	57300	1.70	FF 107 RF77	
5.00	3900	285	31000	1.10	FA 97 RF57	Y..100L,-4
5.80	3350	245	32500	1.30	FAF 97 RF57	AM100
					F 97 RF57	AD3
					FF 97 RF57	
3.80	5590	254.40	55000	1.35	FA 107	Y..112M-6
4.40	4730	215.37	56900	1.60	FAF 107	AM112
4.80	4380	199.31	57600	1.75	F 107	AD3
5.40	3920	178.64	58600	1.95	FF 107	
5.60	3750	254.40	58900	2.00	FA 107	Y..100L,-4
6.60	3170	215.37	60100	2.40	FAF 107	AM100
7.20	2930	199.31	60500	2.60	F 107	AD3
8.00	2630	178.64	61100	2.90	FF 107	
4.30	4920	223.88	17400	0.85	FA 97	Y..112M-6
5.00	4170	189.92	30300	1.05	FAF 97	AM112
5.50	3840	174.87	31200	1.10	F 97	AD3
6.10	3430	156.30	32300	1.25	FF 97	
5.20	4080	276.77	30500	1.05		Y..100L,-4
5.60	3730	253.41	31500	1.15	FA 97	AM100
6.40	3300	223.88	32600	1.30	FAF 97	AD3
7.50	2790	189.92	33800	1.55	F 97	
8.20	2570	174.87	34200	1.65	FF 97	
9.10	2300	156.30	34800	1.85		
10.0	2070	140.71	35300	2.10		
11.0	1870	127.42	35600	2.30		
7.20	2900	197.20	23000	1.05		Y..100L,-4
7.90	2650	179.97	24300	1.15	FA 87	AM100
8.90	2350	159.61	25300	1.25	FAF 87	AD2
11.0	1970	134.16	26500	1.50	F 87	
12.0	1810	123.29	27000	1.65	FF 87	
13.0	1610	109.49	27500	1.85		
15.0	1440	97.89	28000	2.10		
16.0	1290	88.01	28300	2.30		
19.0	1120	76.39	27800	2.70		
21.0	1000	68.40	27100	3.00	FA 87	Y..100L,-4
25.0	830	56.75	25900	3.60	FAF 87	AM100
28.0	740	50.36	25100	4.00	F 87	AD3
31.0	665	45.28	24400	4.20	FF 87	
12.0	1680	114.45	14300	0.90	FA 77	Y..100L,-4
13.0	1590	108.46	15000	0.95	FAF 77	AM100
15.0	1390	94.93	16400	1.05	F 77	AD2
17.0	1260	85.52	17100	1.20	FF 77	
19.0	1100	75.02	17900	1.35		
21.0	970	66.46	18400	1.55		

n _i [1/min]	M _i [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P₁=2.20kw						
24.0	850	58.32	18800	1.75	FA 77	Y..100L,-4
26.0	810	55.27	18900	1.85	FAF 77	AM100
29.0	710	48.37	19200	2.10	F 77	AD2
					FF 77	
33.0	640	43.58	19400	2.30	FA 77	Y..100L,-4
39.0	535	36.58	19600	2.10	FAF 77	AM100
45.0	460	31.51	19800	3.00	F 77	AD3
50.0	420	28.75	19800	3.40	FF 77	
56.0	375	25.50	19900	4.00	FA 77	Y..100L,-4
					FAF 77	AM100
					F 77	AD4
					FF 77	
23.0	900	61.07	9520	0.90		Y..100L,-4
27.0	790	53.73	10600	1.05	FA 67	AM100
28.0	745	50.74	10900	1.10	FAF 67	AD2
33.0	635	43.20	11700	1.30	F 67	
36.0	575	39.26	12000	1.35	FF 67	
42.0	500	34.01	12400	1.50		
44.0	470	32.08	12500	1.75		Y..100L,-4
52.0	400	27.41	12800	2.00	FA 67	AM100
57.0	370	25.13	12900	2.20	FAF 67	AD3
65.0	325	22.05	13000	2.50	F 67	
68.0	305	20.90*	13000	2.70	FF 67	
78.0	265	18.29	13000	3.00		
32.0	655	44.73	5420	0.90	FA 57	Y..100L,-4
37.0	560	38.21	8660	1.05	FAF 57	AM100
40.0	525	35.79	8610	1.15	F 57	AD2
47.0	440	30.15	8450	1.35	FF 57	
57.0	365	24.96	8230	1.55		
67.0	310	21.17	8000	1.90	FA 57	Y..100L,-4
75.0	280	19.11	7850	2.10	FAF 57	AM100
85.0	245	16.81	7650	2.40	F 57	AD3
90.0	230	15.88	7560	2.60	FF 57	
55.0	375	25.72	5560	1.05		Y..100L,-4
65.0	320	21.82	5520	1.25		AM100
72.0	290	19.70	5470	1.40	FA 47	AD2
82.0	255	17.33	5400	1.55	FAF 47	
87.0	240	16.36	5360	1.65	F 47	
102	205	13.93	5240	1.95	FF 47	
113	187	12.66	5160	2.10		
130	162	10.97	5030	2.50		
159	132	8.96	4730	2.50		
99.0	210	14.33	2800	0.95		Y..100L,-4
111	190	12.87	2810	1.05		AM100
129	163	11.08	2820	1.15		AD2
137	154	10.42	2810	1.20	FA 37	
159	132	8.97	2790	1.30	FAF 37	
178	118	8.01	2760	1.45	F 37	
211	99	6.74	2620	1.40	FF 37	
236	89	6.05	2590	1.50		
273	77	5.21	2540	1.65		
291	72	4.90	2510	1.65		

F SERIES



n	M _L	i	Fr	K	Frame size	Input Configuration		
[l/min]	[Nm]		[N]					
P _i =2.20kw								
338	62	4.22	2450	1.75	FA 37	Y..100L _i -4 AM100 AD2		
378	56	3.77	2400	1.90	FAF 37			
					F 37			
					FF 37			
177	119	16.28	1720	1.10	FA 27 FAF 27 F 27 FF 27	Y..100L _i -4 AM100 AD2		
208	101	13.84	1730	1.30				
233	90	12.35	1730	1.45				
273	77	10.55	1720	1.70				
291	72	9.88	1710	1.80				
354	59	8.13	1610	2.10				
417	50	6.91	1590	2.30				
467	45	6.17	1560	2.40				
547	38	5.27	1520	2.60				
584	36	4.93	1510	2.70				
693	30	4.16	1460	2.90				
P _i =3.00kw								
1.20	21100	1169	89500	0.85	FA 157 RF97 FAF 157 RF97 F 157 RF97 FF 157 RF97	Y..100L _i -4 AM100 AD5		
1.50	17100	953	102800	1.05				
1.70	15100	845	107900	1.20				
1.90	13500	764	111100	1.30				
2.10	12000	680	114000	1.50				
2.50	10100	576	117000	1.75				
3.30	7980	446	119800	2.20				
4.80	5400	302	120000	3.30				
5.30	4860	273	120000	3.70				
6.30	4080	232	120000	4.40				
7.40	3460	197	120000	5.20				
2.00	13200	727	88100	0.90	FA 127 RF77 FAF 127 RF77 F 127 RF77 FF 127 RF77	Y..100L _i -4 AM100 AD3		
2.20	11800	648	90000	1.00	FA 127 RF77 FAF 127 RF77 F 127 RF77 FF 127 RF77	Y..100L _i -4 AM100 AD4		
2.60	10000	549	90000	1.20	FA 107 RF77 FAF 107 RF77 F 107 RF77 FF 107 RF77	Y..100L _i -4 AM100 AD4		
2.90	9040	495	90000	1.35				
3.30	7970	436	49000	0.95				
3.90	6760	370	52200	1.15				
4.40	6090	333	53800	1.25	FA 107 FAF 107 F 107 FF 107	Y..132S-6 AM132 AD3		
5.00	5320	291	55600	1.45				
3.80	7630	254.40*	49900	1.00				
4.40	6460	215.37	52900	1.20				
4.80	5970	199.31	54100	1.30	FA 107 FAF 107 F 107 FF 107	Y..100L _i -4 AM100 AD3		
5.40	5350	178.64	55500	1.45				
5.70	5000	254.40*	56300	1.55				
6.80	4240	215.37	57900	1.80				
7.30	3920	199.31	58600	1.95	FA 107 FAF 107 F 107 FF 107	Y..100L _i -4 AM100 AD3		
8.10	3510	178.64	59400	2.20				
9.00	3170	161.28*	60100	2.40				
6.50	4400	223.88	29600	1.00				
7.70	3730	189.92	31500	1.15	FA 97 FAF 97 F 97 FF 97	Y..100L _i -4 AM100 AD3		
8.30	3440	174.87	32200	1.25				
P _i =3.00kw								
9.30	3070	156.30	33100	1.40			FA 97 FAF 97 F 97 FF 97	Y..100L _i -4 AM100 AD3
10.0	2770	140.71	33800	1.55				
11.0	2500	127.42	34400	1.70				
13.0	2220	112.99	35000	1.95				
14.0	2010	102.16	35400	2.10	FA 87 FAF 87 F 87 FF 87	Y..100L _i -4 AM100 AD2		
16.0	1760	89.85	35800	2.40				
11.0	2640	134.16	24300	1.15				
12.0	2420	123.29	25100	1.25				
13.0	2150	109.49	26000	1.40	FA 87 FAF 87 F 87 FF 87	Y..100L _i -4 AM100 AD2		
15.0	1920	97.89	26700	1.55				
17.0	1730	88.01	26700	1.75				
19.0	1500	76.39	26100	2.00				
21.0	1340	68.40	25500	2.20	FA 87 FAF 87 F 87 FF 87	Y..100L _i -4 AM100 AD3		
26.0	1110	56.75	24600	2.70				
29.0	990	50.36	23900	3.00				
17.0	1680	85.52	14400	0.90	FA 77 FAF 77 F 77 FF 77	Y..100L _i -4 AM100 AD2		
19.0	1470	75.02	15900	1.00				
22.0	1300	66.46	16900	1.15				
25.0	1140	58.32	17700	1.30				
26.0	1080	55.27	18000	1.40	FA 77 FAF 77 F 77 FF 77	Y..100L _i -4 AM100 AD3		
30.0	950	48.37	18500	1.55				
33.0	850	43.58	18800	1.75				
38.0	750	38.23	19100	2.00				
40.0	720	36.58	19200	1.55	FA 77 FAF 77 F 77 FF 77	Y..100L _i -4 AM100 AD3		
46.0	620	31.51	19500	2.20				
51.0	565	28.75	19600	2.50				
57.0	500	25.50*	19700	3.00	FA 77 FAF 77 F 77 FF 77	Y..100L _i -4 AM100 AD4		
68.0	420	21.43	19800	3.60				
34.0	850	43.20	10000	0.95	FA 67 FAF 67 F 67 FF 67	Y..100L _i -4 AM100 AD2		
37.0	770	39.26	10700	1.00				
43.0	665	34.01	11500	1.10				
45.0	630	32.08	11700	1.30	FA 67 FAF 67 F 67 FF 67	Y..100L _i -4 AM100 AD3		
53.0	535	27.41	12200	1.50				
58.0	490	25.13	12400	1.65				
66.0	430	22.05	12700	1.90				
70.0	410	20.90*	12800	2.00				
80.0	360	18.29	12900	2.30				
88.0	320	16.48	13000	2.50				
101	280	14.46	13000	2.90				
58.0	490	24.96	7420	1.15	FA 57 FAF 57 F 57 FF 57	Y..100L _i -4 AM100 AD2		
69.0	415	21.17	7310	1.45	FA 57 FAF 57 F 57 FF 57	Y..100L _i -4 AM100 AD3		
76.0	375	19.11	7220	1.60				
87.0	330	16.81	7100	1.80				

n ₁ [1/min]	M ₁ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =3.00kw						
92.0	310	15.88	7040	1.90	FA 57	Y..100L ₁ -4 AM100 AD3
108	265	13.52	6850	2.20	FAF 57	
118	240	12.29	6730	2.50	F 57	
137	205	10.64	6540	2.90	FF 57	
74.0	385	19.70	4760	1.05	FA 47 FAF 47 F 47 FF 47	Y..100L ₁ -4 AM100 AD2
84.0	340	17.33	4760	1.15		
89.0	320	16.36	4760	1.25		
104	270	13.93	4720	1.45		
115	245	12.66	4690	1.60		
133	215	10.97	4620	1.85		
162	176	8.96	4350	1.85		
131	215	11.08	2340	0.85	FA 37 FAF 37 F 37 FF 37	Y..100L ₁ -4 AM100 AD2
140	205	10.42	2360	0.90		
162	177	8.97	2400	1.00		
182	158	8.01	2410	1.10		
216	133	6.74	2290	1.05		
240	119	6.05	2290	1.15		
279	103	5.21	2280	1.20		
297	96	4.90	2270	1.25		
345	83	4.22	2240	1.35		
386	74	3.77	2210	1.40		
P ₁ =4.00kw						
1.70	20200	845	92900	0.90	FA 157 RF97 FAF 157 RF97 F 157 RF97 FF 157 RF97	Y..112M-4 AM112 AD5
1.90	18200	764	99500	1.00		
2.20	16200	680	105100	1.10		
2.50	13600	576	111000	1.30		
3.30	10700	446	116200	1.70		
4.80	7240	302	120000	2.50		
5.30	6520	273	120000	2.80		
6.30	5500	232	120000	3.30		
7.40	4660	197	120000	3.90	FA 127 RF77 FAF 127 RF77 F 127 RF77 FF 127 RF77	Y..112M-4 AM112 AD4
2.70	13300	549	87800	0.90		
3.00	12000	495	90000	1.00		
3.40	10400	428	90000	1.15		
3.90	9140	376	90000	1.30	FA 107 RF77 FAF 107 RF77 F 107 RF77 FF 107 RF77	Y..112M-4 AM112 AD4
4.40	8120	333	48600	0.95		
5.00	7090	291	51300	1.10		
5.70	6210	255	53500	1.25	FA 107 FAF 107 F 107 FF 107	Y..112M-4 AM112 AD3
5.70	6650	254.40	52400	1.15		
6.80	5630	215.37	54900	1.35		
7.30	5210	199.31	55800	1.45		
8.20	4670	178.64	57000	1.65		
9.00	4210	161.28	58000	1.80		
10.0	3830	146.49	58800	2.00		
11.0	3400	129.97	59600	2.30		
12.0	3080	117.94	60200	2.50		
14.0	2650	101.38	61000	2.90		
					FAF 107	
					F 107	
					FF 107	

n ₁ [1/min]	M ₁ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P₁=4.00kw						
8.40	4570	174.87	29100	0.95	FA 97 FAF 97 F 97 FF 97	Y..112M-4 AM112 AD3
9.30	4080	156.30	30500	1.05		
10.0	3680	140.71	31600	1.15		
11.0	3330	127.42	32500	1.30		
13.0	2950	112.99	33400	1.45		
14.0	2670	102.16	34000	1.60		
15.0	2550	97.58	34300	1.70		
16.0	2350	89.85	34700	1.85		
18.0	2100	80.31	35200	2.00	FA 97 FAF 97 F 97 FF 97	Y..112M-4 AM112 AD4
20.0	1890	72.29	35600	2.30		
22.0	1710	65.47	35900	2.50		
13.0	2860	109.49	23500	1.05	FA 87 FAF 87 F 87 FF 87	Y..112M-4 AM112 AD2
15.0	2560	97.89	24600	1.15	FA 87 FAF 87 F 87 FF 87	Y..112M-4 AM112 AD3
17.0	2300	88.01	24500	1.30		
19.0	1990	76.39	24100	1.50		
21.0	1780	68.40	23800	1.70		
26.0	1480	56.75	23100	2.00	FA 77 FAF 77 F 77 FF 77	Y..112M-4 AM112 AD2
29.0	1310	50.36	22600	2.20		
32.0	1180	45.28	22200	2.40		
22.0	1730	66.46	13900	0.85	FA 77 FAF 77 F 77 FF 77	Y..112M-4 AM112 AD3
25.0	1520	58.32	15600	1.00		
26.0	1440	55.27	16100	1.05		
30.0	1260	48.37	17100	1.20		
34.0	1140	43.58	17700	1.30	FA 77 FAF 77 F 77 FF 77	Y..112M-4 AM112 AD3
38.0	1000	38.23	18300	1.50		
43.0	880	33.74	18700	1.70		
49.0	780	29.91	19000	1.90		
57.0	665	25.54	19300	2.20		
46.0	820	31.51	18900	1.65	FA 77 FAF 77 F 77 FF 77	Y..112M-4 AM112 AD4
51.0	750	28.75	19100	1.90		
57.0	665	25.50	19300	2.20		
68.0	560	21.43	19600	2.70	FA 67 FAF 67 F 67 FF 67	Y..112M-4 AM112 AD3
74.0	515	19.70	19700	2.90		
53.0	715	27.41	11100	1.15	FA 67 FAF 67 F 67 FF 67	Y..112M-4 AM112 AD3
58.0	655	25.13	11600	1.25		
66.0	575	22.05	12000	1.40		
70.0	545	20.90	12200	1.50		
80.0	475	18.29	12500	1.70		
89.0	430	16.48	12700	1.90		
101	375	14.46	12900	2.20	FA 67 FAF 67 F 67 FF 67	Y..112M-4 AM112 AD3
114	330	12.76	13000	2.50		
129	295	11.31	13000	2.80		
151	250	9.66	13000	3.20		
161	235	9.08	12900	2.20		
170	225	8.60	12700	2.50		
194	197	7.53	12300	3.10		
215	178	6.78	12000	3.50		
245	156	5.95	11700	3.90		

F SERIES



n _i [l/min]	M _i [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P _i =4.00kw						
278	137	5.25	11300	4.30	FA 67	Y..112M-4 AM112 AD3
314	122	4.66	11000	4.60	FAF 67	
367	104	3.97	10500	4.80	F 67	
					FF 67	
69.0	550	21.17	6490	1.10	FA 57 FAF 57 F 57 FF 57	Y..112M-4 AM112 AD3
76.0	500	19.11	6480	1.20		
87.0	435	16.81	6440	1.35		
92.0	415	15.88	6420	1.45		
108	350	13.52	6320	1.70		
119	320	12.29	6250	1.85		
137	275	10.64	6120	2.20		
157	240	9.31	5820	1.70		
178	210	8.19	5710	1.95		
189	200	7.73	5650	2.10		
222	172	6.58	5480	2.40		
244	157	5.98	5380	2.70		
282	136	5.18	5220	3.10		
P _i =5.50kw						
2.50	19000	576	96900	0.95	FA 157 RF97 FAF 157 RF97 F 157 RF97 FF 157 RF97	Y..132S-4 AM132 AD5
2.90	16500	503	104200	1.10		
3.30	14800	446	108400	1.20		
4.10	11600	353	114800	1.55		
4.80	10000	302	117200	1.80		
5.30	9080	273	118500	2.00		
6.30	7660	232	120000	2.40		
7.20	6660	202	120000	2.70		
7.40	6500	197	120000	2.80		
3.50	13900	418	86600	0.85	FA 127 RF87 FAF 127 RF87 F 127 RF87 FF 127 RF87	Y..132S-4 AM132 AD4
3.90	12500	374	89500	0.95		
4.70	10400	312	90000	1.15		
5.00	9770	293	90000	1.25		
5.60	8620	259	90000	1.40	FA 127 RF87 FAF 127 RF87 F 127 RF87 FF 127 RF87	Y..132S-4 AM132 AD5
6.50	7450	223	90000	1.60		
3.40	14400	428	85700	0.85		
3.90	12600	376	89200	0.95		
6.80	7770	215.37	49600	1.00	FA 107 FAF 107 F 107 FF 107	Y..132S-4 AM132 AD3
7.30	7190	199.31	51100	1.05		
8.10	6440	178.64	53000	1.20		
9.00	5820	161.28	54400	1.30		
9.90	5280	146.49	55700	1.45	FA 107 FAF 107 F 107 FF 107	Y..132S-4 AM132 AD3
11.0	4690	129.97	57000	1.65		
12.0	4250	117.94	57900	1.80		
14.0	3650	101.38	59100	2.10		
16.0	3330	92.47	59700	2.30	FA 107 FAF 107 F 107 FF 107	Y..132S-4 AM132 AD4
16.0	3190	88.49	60000	2.40		
17.0	3030	83.99	60300	2.50		

n _i [l/min]	M _i [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P_i=5.50kw						
11.0	4590	127.42	29000	0.95	FA 97 FAF 97 F 97 FF 97	Y..132S-4 AM132 AD3
13.0	4070	112.99	30500	1.05		
14.0	3680	102.16	31600	1.15		
15.0	3520	97.58	32000	1.20	FA 97 FAF 97 F 97 FF 97	Y..132S-4 AM132 AD3
16.0	3240	89.85	32700	1.35		
17.0	3120	86.59	33000	1.40		
18.0	2890	80.31	33500	1.50		
19.0	2730	75.63	33900	1.60	FA 97 FAF 97 F 97 FF 97	Y..132S-4 AM132 AD4
20.0	2600	72.29	34200	1.65		
22.0	2360	65.47	34700	1.80		
25.0	2090	58.06	34400	2.00		
28.0	1890	52.49	33800	2.30	FA 87 FAF 87 F 87 FF 87	Y..132S-4 AM132 AD2
17.0	3170	88.01	11000	0.95		
19.0	2750	76.39	21200	1.10		
21.0	2460	68.40	21200	1.20	FA 87 FAF 87 F 87 FF 87	Y..132S-4 AM132 AD3
26.0	2040	56.75	21000	1.45		
29.0	1810	50.36	20700	1.60		
32.0	1630	45.28	20500	1.75		
37.0	1410	39.30	20100	1.90	FA 87 FAF 87 F 87 FF 87	Y..132S-4 AM132 AD4
41.0	1270	35.19	19700	2.00		
50.0	1050	29.20	19100	2.40		
43.0	1220	33.92	19600	2.10		
51.0	1030	28.78	19000	2.40	FA 87 FAF 87 F 87 FF 87	Y..132S-4 AM132 AD5
55.0	950	26.50	18700	3.10		
61.0	850	23.68	18300	3.50		
30.0	1740	48.37	13800	0.85	FA 77 FAF 77 F 77 FF 77	Y..132S-4 AM132 AD2
33.0	1570	43.58	15200	0.95		
38.0	1380	38.23	16500	1.10		
43.0	1210	33.74	17400	1.25		
49.0	1070	29.91	18000	1.40	FA 77 FAF 77 F 77 FF 77	Y..132S-4 AM132 AD3
57.0	920	25.54	18600	1.55		
57.0	920	25.50	18600	1.65		
68.0	770	21.43	19100	1.95		
74.0	710	19.70	19200	2.10	FA 77 FAF 77 F 77 FF 77	Y..132S-4 AM132 AD4
83.0	630	17.49	19400	2.40		
93.0	560	15.64	19600	2.70		
103	505	14.06	19200	3.00		
119	440	12.20	18600	3.40		

F

n [l/min]	M _i [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =5.50kw						
66.0	795	22.05	10500	1.05	FA 67 FAF 67 F 67 FF 67	Y..132S-4 AM132 AD3
70.0	750	20.90	10900	1.10		
80.0	660	18.29	11500	1.25		
88.0	590	16.48	11900	1.40		
101	520	14.46	12300	1.55		
114	460	12.76	12600	1.80		
129	405	11.31	12800	2.00		
151	345	9.66	12900	2.40		
160	325	9.08	12400	1.60		
169	310	8.60	12200	1.85		
193	270	7.53	11900	2.20		
214	240	6.78	11700	2.50		
245	210	5.95	11300	2.80		
277	190	5.25	11000	3.10		
313	168	4.66	10700	3.30		
366	144	3.97	10300	3.50		
87.0	605	16.81	5460	1.00	FA 57 FAF 57 F 57 FF 57	Y..132S-4 AM132 AD3
92.0	570	15.88	5490	1.05		
108	485	13.52	5530	1.25		
118	440	12.29	5530	1.35		
137	380	10.64	5500	1.55		
178	295	8.19	5180	1.40	FA 57 FAF 57 F 57 FF 57	Y..132S-4 AM132 AD3
188	275	7.73	5150	1.50		
221	235	6.58	5060	1.75		
243	215	5.98	5000	1.95		
281	187	5.18	4890	2.20		
P ₁ =7.50kw						
4.70	14100	312	86300	0.85	FA 127 RF87 FAF 127 RF87 F 127 RF87 FF 127 RF87	Y..132M-4 AM132 AD5
5.00	13200	293	88000	0.90		
5.70	11700	259	90000	1.05		
6.60	10100	223	90000	1.20		
7.40	8930	198	90000	1.35		
8.60	8320	170.83	90000	1.45	FA 127 FAF 127 F 127 FF 127	Y..132M-4 AM132 AD4
9.60	7480	153.67	90000	1.60		
12.0	6100	125.37	90000	1.95		
8.20	8700	178.64	47000	0.90	FA 107 FAF 107 F 107 FF 107	Y..132M-4 AM132 AD3
9.10	7850	161.28	49300	1.00		
10.0	7130	146.49	51200	1.10		
11.0	6330	129.97	53200	1.20		
12.0	5740	117.94	54600	1.35		
14.0	4930	101.38	56400	1.55	FA 107 FAF 107 F 107 FF 107	Y..132M-4 AM132 AD4
16.0	4500	92.47	57400	1.70		
17.0	4310	88.49	57800	1.80		
18.0	4090	83.99	58200	1.90		
20.0	3630	74.52	59200	2.10		
22.0	3290	67.62	59800	2.30		
15.0	4750	97.58	24800	0.90	FA 97 FAF 97 F 97 FF 97	Y..132M-4 AM132 AD3
16.0	4370	89.85	29700	1.00		
17.0	4210	86.59	30100	1.00		
18.0	3910	80.31	31000	1.10		
19.0	3680	75.63	31600	1.15		

n [l/min]	M _i [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P₁=7.50kw						
20.0	3520	72.29	32000	1.20	FA 97 FAF 97 F 97 FF 97	Y..132M-4 AM132 AD3
22.0	3180	65.47	32200	1.35	FA 97 FAF 97 F 97 FF 97	Y..132M-4 AM132 AD4
25.0	2820	58.06	31700	1.50		
28.0	2550	52.49	31300	1.70		
33.0	2160	44.49	30500	2.00		
38.0	1890	38.86	29800	2.30		
45.0	1580	32.50	28800	2.70		
34.0	2100	43.28	30400	1.45		
40.0	1780	36.64	29400	1.70		
43.0	1650	33.91	29000	2.60	FA 97 FAF 97 F 97 FF 97	Y..132M-4 AM132 AD5
48.0	1480	30.39	28400	2.90		
26.0	2760	56.75	18100	1.10	FA 87 FAF 87 F 87 FF 87	Y..132M-4 AM132 AD3
29.0	2450	50.36	18200	1.20		
32.0	2200	45.28	18200	1.30		
37.0	1910	39.30	18100	1.40		
42.0	1710	35.19	17900	1.50	FA 87 FAF 87 F 87 FF 87	Y..132M-4 AM132 AD4
50.0	1420	29.20	17600	1.75		
51.0	1400	28.78	17500	1.75		
55.0	1290	26.50	17300	2.30	FA 87 FAF 87 F 87 FF 87	Y..132M-4 AM132 AD5
62.0	1150	23.68	17100	2.60		
69.0	1030	21.32	16800	2.90		
76.0	940	19.31	16500	3.20		
86.0	830	17.12	16100	3.60		
95.0	750	15.48	15800	4.00		
44.0	1640	33.74	14700	0.90	FA 77 FAF 77 F 77 FF 77	Y..132M-4 AM132 AD3
49.0	1450	29.91	16000	1.05		
58.0	1240	25.54	17200	1.15		
58.0	1240	25.50	17200	1.20	FA 77 FAF 77 F 77 FF 77	Y..132M-4 AM132 AD4
69.0	1040	21.43	18100	1.45		
75.0	950	19.70	18500	1.55		
84.0	850	17.49	18800	1.75		
94.0	760	15.64	18900	1.95		
105	685	14.06	18500	2.20		
120	590	12.20	17900	2.50		
135	530	10.93	17500	2.80		
158	450	9.30	16400	2.40		
178	400	8.26	16000	2.70		
199	355	7.39	15600	3.00		
221	320	6.64	15200	3.30		
255	280	5.76	14700	3.80		
285	250	5.16	14400	4.30		
343	205	4.28	13700	4.80		

F SERIES



n ₁ [1/min]	M ₁ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =11.0kw						
4.90	20000	302	93600	0.90	FA 157 RF97 FAF 157 RF97 F 157 RF97 FF 157 RF97	Y..160M-4 AM160 AD5
5.40	18100	273	99900	1.00		
6.40	15300	232	107400	1.15		
7.30	13300	202	111600	1.35		
7.50	12900	197	112300	1.40		
6.60	14800	223	84900	0.80	FA 127 RF87 FAF 127 RF87 F 127 RF87 FF 127 RF87	Y..160M-4 AM160 AD5
7.50	13100	198	88300	0.90		
8.90	11000	166	90000	1.10		
5.50	19000	267.43	97000	0.95	FA 157 FAF 157 F 157 FF 157	Y..160M-4 AM160 AD5
6.80	15400	217.62	106900	1.15		
8.30	12600	178.20	112900	1.40		
9.00	11600	162.96	114800	1.55		
10.0	10000	141.80	117100	1.80		
12.0	8910	125.14	118700	2.00		
14.0	7720	108.49	120000	2.30		
15.0	6870	96.53	120000	2.60		
17.0	6110	85.80	117400	3.00		
19.0	5580	78.46	115000	3.20		
22.0	4860	68.28	111300	3.70		
8.60	12100	170.83	90000	1.00	FA 127 FAF 127 F 127 FF 127	Y..160M-4 AM160 AD4
9.60	10900	153.67	90000	1.10		
12.0	8920	125.37	90000	1.35		
13.0	8140	114.34	90000	1.45		
15.0	7040	98.95	90000	1.70		
17.0	6210	87.31	90000	1.95		
20.0	5370	75.41	88200	2.20	FA 107 FAF 107 F 107 FF 107	Y..160M-4 AM160 AD3
13.0	8390	117.94	47900	0.90		
15.0	7210	101.38	51000	1.05		
16.0	6580	92.47	52600	1.15		
18.0	5980	83.99	54100	1.30		
20.0	5300	74.52	55600	1.45	FA 107 FAF 107 F 107 FF 107	Y..160M-4 AM160 AD4
22.0	4810	67.62	56700	1.60		
25.0	4130	58.12	56200	1.85		
29.0	3610	50.73	54900	2.10		
34.0	3060	43.03	53300	2.50		
44.0	2400	33.79	50700	3.10	FA 107 FAF 107 F 107 FF 107	Y..160M-4 AM160 AD6
54.0	1960	27.57	48500	4.00		
59.0	1790	25.14	47500	4.40		
23.0	4660	65.47	26900	0.90	FA 97 FAF 97 F 97 FF 97	Y..160M-4 AM160 AD4
25.0	4130	58.06	27100	1.05		
28.0	3730	52.49	27100	1.15		
33.0	3160	44.49	26900	1.35		
38.0	2760	38.86	26700	1.55		
45.0	2310	32.50	26200	1.85		

n ₁ [1/min]	M ₁ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =11.0kw						
44.0	2410	33.91	26300	1.80	FA 97 FAF 97 F 97 FF 97	Y..160M-4 AM160 AD5
49.0	2160	30.39	25900	2.00		
54.0	1950	27.44	25500	2.20		
59.0	1770	24.92	25100	2.40		
67.0	1570	22.11	24600	2.70	FA 97 FAF 97 F 97 FF 97	Y..160M-4 AM160 AD5
38.0	2790	39.30	14600	0.95		
42.0	2500	35.19	14800	1.05		
51.0	2070	29.20	15000	1.20		
56.0	1880	26.50	15000	1.60	FA 87 FAF 87 F 87 FF 87	Y..160M-4 AM160 AD5
62.0	1680	23.68	15000	1.80		
69.0	1510	21.32	14900	2.00		
76.0	1370	19.31	14800	2.20		
86.0	1210	17.12	14600	2.50		
95.0	1100	15.48	14400	2.70		
112	930	13.12	14000	3.20	FA 87 FAF 87 F 87 FF 87	Y..160M-4 AM160 AD4
75.0	1400	19.70	16300	1.05		
84.0	1240	17.49	17200	1.20		
94.0	1110	15.64	17600	1.35		
105	1000	14.06	17300	1.50		
121	860	12.20	16900	1.75		
135	775	10.93	16600	1.95	FA 77 FAF 77 F 77 FF 77	Y..160M-4 AM160 AD4
159	660	9.30	15400	1.65		
179	585	8.26	15100	1.85		
200	525	7.39	14800	2.00		
222	470	6.64	14500	2.30		
256	410	5.76	14100	2.60		
286	365	5.16	13800	2.90	FA 77 FAF 77 F 77 FF 77	Y..160M-4 AM160 AD4
345	300	4.28	13300	3.30		
P ₁ =15.0kw						
6.30	21100	232	89700	0.85	FA 157 RF97 FAF 157 RF97 F 157 RF97 FF 157 RF97	Y..160L-4 AM160 AD5
7.20	18400	202	99000	1.00		
7.50	17900	197	100500	1.00		
6.70	21200	217.62	89000	0.85		
8.20	17400	178.20	101900	1.05	FA 157 FAF 157 F 157 FF 157	Y..160L-4 AM160 AD5
9.00	15900	162.96	105900	1.15		
10.0	13800	141.80	110600	1.30		
12.0	12200	125.14	113700	1.45		
14.0	10600	108.49	116400	1.70		
15.0	9430	96.53	115700	1.90		
17.0	8380	85.80	113200	2.20		
19.0	7670	78.46	111100	2.40		
21.0	6670	68.28	108000	2.70		

n	M _i	i	Fr	K	Frame size	Input Configuration
[l/min]	[Nm]		[N]			
P₁=15.0kw						
24.0	5890	60.25	105100	3.10	FA 157 FAF 157 F 157 FF 157	Y..160L-4 AM160 AD5
12.0	12200	125.37	89000	1.00	FA 127 FAF 127 F 127 FF 127	Y..160L-4 AM160 AD4
13.0	11100	114.34	88300	1.05		
15.0	9670	98.95	87000	1.25		
17.0	8530	87.31	85600	1.40		
19.0	7370	75.41	83800	1.65		
21.0	6850	70.07	82800	1.75	FA 127 FAF 127 F 127 FF 127	Y..160L-4 AM160 AD5
16.0	9040	92.47	46000	0.85	FA 107 FAF 107 F 107 FF 107	Y..160L-4 AM160 AD4
17.0	8650	88.49	47100	0.90		
17.0	8210	83.99	48400	0.95		
20.0	7280	74.52	50800	1.05		
22.0	6610	67.62	52600	1.15		
25.0	5680	58.12	52200	1.35	FA 107 FAF 107 F 107 FF 107	Y..160L-4 AM160 AD4
29.0	4960	50.73	51500	1.55		
34.0	4200	43.03	50300	1.85		
39.0	3670	37.61	49300	2.10		
46.0	3100	31.80	47900	2.50		
43.0	3300	33.79	48400	2.20	FA 107 FAF 107 F 107 FF 107	Y..160L-4 AM160 AD6
53.0	2690	27.57	46700	2.90		
58.0	2450	25.14	45800	3.20		
67.0	2120	21.76	44500	3.70		
33.0	4340	44.49	22900	1.00	FA 97 FAF 97 F 97 FF 97	Y..160L-4 AM160 AD4
38.0	3790	38.86	23100	1.15		
45.0	3170	32.50	23200	1.35		
43.0	3310	33.91	23200	1.30		
48.0	2970	30.39	23200	1.45		
53.0	2680	27.44	23100	1.60	FA 97 FAF 97 F 97 FF 97	Y..160L-4 AM160 AD5
59.0	2430	24.92	22900	1.75		
66.0	2160	22.11	22600	2.00		
73.0	1960	20.07	22400	2.20		
85.0	1680	17.25	21900	2.60		
97.0	1470	15.06	21400	2.90		
115	1240	12.77	20800	3.40	FA 97 FAF 97 F 97 FF 97	Y..160L-4 AM160 AD6
131	1090	11.16	20200	3.80		
55.0	2590	26.50	12400	1.15		
62.0	2310	23.68	12600	1.30		
69.0	2080	21.32	12700	1.45		
76.0	1880	19.31	12800	1.60	FA 87 FAF 87 F 87 FF 87	Y..160L-4 AM160 AD5

n	M _i	i	Fr	K	Frame size	Input Configuration
[l/min]	[Nm]		[N]			
P ₁ =15.0kw						
86.0	1670	17.12	12900	1.80	FA 87 FAF 87 F 87 FF 87	Y..160L-4 AM160 AD5
95.0	1510	15.48	12800	2.00		
112	1280	13.12*	12700	2.30		
128	1120	11.46	12600	2.70		
153	930	9.58	12300	3.10		
177	810	8.29	11700	1.90		
199	715	7.35	11500	2.10		
220	645	6.65	11300	2.40		
260	550	5.63	11000	2.80		
298	480	4.92	10700	3.20		
356	400	4.12	10300	3.60		
P ₁ =18.5kw						
7.20	22700	202	70200	0.80	FA 157 RF97 FAF 157 RF97 F 157 RF97 FF 157 RF97	Y..180M-4 AM180 AD5
7.50	22100	197	83800	0.80		
8.20	21400	178.20	88200	0.85	FA 157 FAF 157 F 157 FF 157	Y..180M-4 AM180 AD5
9.00	19600	162.96	95000	0.90		
10.0	17000	141.80	102800	1.05		
12.0	15000	125.14	107900	1.20		
14.0	13000	108.49	112100	1.40		
15.0	11600	96.53	111300	1.55		
17.0	10300	85.80	109300	1.75		
19.0	9460	78.46	107600	1.90		
21.0	8230	68.28	104900	2.20		
24.0	7260	60.25	102300	2.50		
28.0	6290	52.24	99400	2.90	FA 157 FAF 157 F 157 FF 157	Y..180M-4 AM180 AD6
13.0	13700	114.34	82200	0.85	FA 127 FAF 127 F 127 FF 127	Y..180M-4 AM180 AD4
15.0	11900	98.95	81700	1.00		
17.0	10500	87.31	80900	1.15		
19.0	9090	75.41	79700	1.30		
21.0	8450	70.07	79000	1.40	FA 127 FAF 127 F 127 FF 127	Y..180M-4 AM180 AD5
23.0	7700	63.91	78100	1.55		
26.0	6660	55.31	76400	1.80		
30.0	5880	48.80	74900	2.00		
20.0	8980	74.52	46200	0.85	FA 107 FAF 107 F 107 FF 107	Y..180M-4 AM180 AD4
22.0	8150	67.62	48500	0.95		
25.0	7000	58.12	48700	1.10		
29.0	6110	50.73	48400	1.25		
34.0	5180	43.03	47700	1.50	FA 107 FAF 107 F 107 FF 107	Y..180M-4 AM180 AD5
39.0	4530	37.61	47000	1.70		
46.0	3830	31.80	46000	2.00		
43.0	4070	33.79	46400	1.80	FA 107 FAF 107 F 107 FF 107	Y..180M-4 AM180 AD6
53.0	3320	27.57	45000	2.40		
58.0	3030	25.14	44300	2.60		
67.0	2620	21.76	43200	3.00		

F SERIES



n _i [l/min]	M _i [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P_i=18.5kw						
38.0	4680	38.86	20000	0.90	FA 97	Y..180M-4
45.0	3910	32.50	20600	1.10	FAF 97	AM180
					F 97	AD4
					FF 97	
53.0	3300	27.44	20900	1.30	FA 97	Y..180M-4
59.0	3000	24.92	20900	1.45	FAF 97	AM180
66.0	2660	22.11	20900	1.60	F 97	AD5
73.0	2410	20.07	20800	1.80	FF 97	
85.0	2070	17.25	20500	2.10		
97.0	1810	15.06	20200	2.40		
115	1530	12.77	19800	2.80	FA 97	Y..180M-4
131	1340	11.16	19300	3.00	FAF 97	AM180
					F 97	AD6
					FF 97	
69.0	2570	21.32	10900	1.15		
76.0	2320	19.31	11100	1.30		
86.0	2060	17.12	11400	1.45		
95.0	1860	15.48	11500	1.60		
112	1580	13.12	11600	1.90		
128	1380	11.46	11600	2.20	FA 87	Y..180M-4
153	1150	9.58	11500	2.50	FAF 87	AM180
177	990	8.29	10900	1.55	F 87	AD5
199	880	7.35	10800	1.75	FF 87	
220	800	6.65	10700	1.90		
260	675	5.63	10400	2.20		
298	590	4.92	10200	2.60		
356	495	4.12	9900	2.90		
P_i=22.0kw						
10.0	20100	141.80	93100	0.90		
12.0	17800	125.14	100800	1.00		
14.0	15400	108.49	107000	1.15	FA 157	Y..180L-4
15.0	13700	96.53	106900	1.30	FAF 157	AM180
17.0	12200	85.80	105200	1.45	F 157	AD5
19.0	11100	78.46	103900	1.60	FF 157	
22.0	9720	68.28	101600	1.85		
24.0	8580	60.25	99500	2.10		
28.0	7440	52.24	96800	2.40	FA 157	Y..180L-4
					FAF 157	AM180
					F 157	AD6
					FF 157	
32.0	6610	46.48	94600	2.70	FA 157	Y..180L-4
37.0	5700	40.06	91800	3.20	FAF 157	AM180
45.0	4630	32.55	87700	3.90	F 157	AD7
					FF 157	
15.0	14000	98.95	76300	0.85	FA 127	Y..180L-4
17.0	12400	87.31	76300	0.95	FAF 127	AM180
20.0	10700	75.41	75700	1.10	F 127	AD4
					FF 127	
21.0	9980	70.07	75300	1.20	FA 127	Y..180L-4
23.0	9100	63.91	74600	1.30	FAF 127	AM180
27.0	7870	55.31	73400	1.50	F 127	AD5
					FF 127	
P_i=22.0kw						
30.0	6950	48.80	72200	1.75	FA 127	Y..180L-4
35.0	6000	42.15	70600	2.00	FAF 127	AM180
					F 127	AD5
					FF 127	
25.0	8270	58.12	45200	0.95	FA 107	Y..180L-4
29.0	7220	50.73	45300	1.05	FAF 107	AM180
					F 107	AD4
					FF 107	
34.0	6120	43.03	45100	1.25	FA 107	Y..180L-4
39.0	5350	37.61	44700	1.45	FAF 107	AM180
46.0	4520	31.80	44000	1.70	F 107	AD5
					FF 107	
44.0	4810	33.79	44300	1.55	FA 107	Y..180L-4
54.0	3920	27.57	43300	2.00	FAF 107	AM180
59.0	3580	25.14	42700	2.20	F 107	AD6
68.0	3090	21.76	41800	2.50	FF 107	
77.0	2730	19.20	40900	2.90		
54.0	3900	27.44	18700	1.10		
59.0	3540	24.92	18900	1.20	FA 97	Y..180L-4
67.0	3140	22.11	19100	1.35	FAF 97	AM180
74.0	2850	20.07	19200	1.50	F 97	AD5
86.0	2450	17.25	19100	1.75	FF 97	
98.0	2140	15.06	19000	2.00		
116	1810	12.77	18700	2.40	FA 97	Y..180L-4
132	1580	11.16	18400	2.60	FAF 97	AM180
					F 97	AD6
					FF 97	
69.0	3030	21.32	9020	1.00		
76.0	2740	19.31	9450	1.10		
86.0	2430	17.12	9870	1.25		
95.0	2200	15.48	10100	1.35		
112	1860	13.12	10400	1.60		
129	1630	11.46	10600	1.85	FA 87	Y..180L-4
154	1360	9.58	10600	2.10	FAF 87	AM180
178	1180	8.29	10100	1.30	F 87	AD5
201	1040	7.35	10100	1.45	FF 87	
222	940	6.65	10000	1.60		
262	800	5.63	9890	1.90		
300	700	4.92	9740	2.20		
358	585	4.12	9490	2.50		
P_i=30.0kw						
14.0	21000	108.49	89800	0.85		
15.0	18700	96.53	96900	0.95	FA 157	Y..200L-4
17.0	16600	85.80	96400	1.10	FAF 157	AM200
19.0	15200	78.46	95800	1.20	F 157	AD5
22.0	13200	68.28	94600	1.35	FF 157	
24.0	11700	60.25	93200	1.55		
28.0	10100	52.24	91400	1.75	FA 157	Y..200L-4
					FAF 157	AM200
					F 157	AD6
					FF 157	

n _i [1/min]	M _i [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P_i=30.0kw						
32.0	9020	46.48	89800	2.00	FA 157 FAF 157	Y..200L-4 AM200
37.0	7780	40.06	87600	2.30	F 157 FF 157	AD7
20.0	14600	75.41	64500	0.80	FA 127 FAF 127 F 127 FF 127	Y..200L-4 AM200 AD4
21.0	13600	70.07	65700	0.90	FA 127	Y..200L-4
23.0	12400	63.91	66800	0.95	FAF 127	AM200
27.0	10700	55.31	66700	1.10	F 127	AD5
30.0	9470	48.80	66300	1.25	FF 127	
35.0	8180	42.15	65500	1.45		
40.0	7240	37.28	64700	1.65	FA 127 FAF 127	Y..200L-4 AM200
55.0	5210	26.86	61800	1.65	F 127 FF 127	AD6
60.0	4770	24.57	60800	1.80		
47.0	6080	31.33	63200	1.95	FA 127 FAF 127 F 127 FF 127	Y..200L-4 AM200 AD7
58.0	4910	25.30	61100	2.40		
69.0	4150	21.38	59300	2.90	FA 127 FAF 127 F 127 FF 127	Y..200L-4 AM200 AD8
78.0	3660	18.87	57900	3.00		
34.0	8350	43.03	39200	0.90	FA 107 FAF 107	Y..200L-4 AM200
39.0	7300	37.61	39600	1.05	F 107 FF 107	AD5
46.0	6170	31.80	39700	1.25		
54.0	5350	27.57	39500	1.45		
59.0	4880	25.14	39300	1.60		
68.0	4220	21.76	38800	1.85	FA 107 FAF 107 F 107 FF 107	Y..200L-4 AM200 AD6
77.0	3720	19.20	38300	2.10		
89.0	3220	16.58	37600	2.40		
101	2840	14.67	36900	2.70		
120	2390	12.33	35800	2.90		
148	1930	9.96	34400	3.40		
67.0	4290	22.11	15100	1.00	FA 97 FAF 97	Y..200L-4 AM200
74.0	3890	20.07	15500	1.10	F 97 FF 97	AD5
86.0	3350	17.25	16000	1.30		
98.0	2920	15.06	16300	1.45		
116	2480	12.77	16400	1.75		
132	2160	11.16	16400	1.90	FA 97 FAF 97 F 97 FF 97	Y..200L-4 AM200 AD6
163	1760	9.06	15400	1.35		
179	1590	8.22	15300	1.50		
209	1370	7.07	15100	1.70		
239	1190	6.17	14900	1.90		
282	1010	5.23	14600	2.10		
322	880	4.57	14300	2.30		

n _i [1/min]	M _i [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P_i=37.0kw						
17.0	20500	85.80	88600	0.90	FA 157 FAF 157	Y..225S-4 AM225
19.0	18700	78.46	88700	0.95	F 157 FF 157	AD5
22.0	16300	68.28	88400	1.10		
25.0	14400	60.25	87800	1.25		
28.0	12400	52.24	86700	1.45	FA 157 FAF 157 F 157 FF 157	Y..225S-4 AM225 AD6
32.0	11100	46.48	85600	1.60	FA 157 FAF 157	Y..225S-4 AM225
37.0	9580	40.06	84000	1.90	F 157 FF 157	AD7
45.0	7780	32.55	81300	2.30		
54.0	6600	27.60	79000	2.70	FA 157 FAF 157 F 157 FF 157	Y..225S-4 AM225 AD8
27.0	13200	55.31	59200	0.90	FA 127 FAF 127 F 127 FF 127	Y..225S-4 AM225 AD5
30.0	11600	48.80	60800	1.05		
35.0	10000	42.15	61100	1.20		
40.0	8910	37.28	60700	1.35	FA 127 FAF 127 F 127 FF 127	Y..225S-4 AM225 AD6
55.0	6420	26.86	58900	1.30		
60.0	5870	24.57	58200	1.45		
47.0	7490	31.33	59900	1.60	FA 127 FAF 127 F 127 FF 127	Y..225S-4 AM225 AD7
58.0	6050	25.30	58500	2.00		
69.0	5110	21.38	57100	2.40		
78.0	4510	18.87	55900	2.40		
90.0	3910	16.36	54500	2.80	FA 127 FAF 127 F 127 FF 127	Y..225S-4 AM225 AD8
102	3480	14.55	53400	3.20		
118	3000	12.54	51800	3.30		
145	2430	10.19	49600	3.90		
167	2110	8.86	47700	3.30		
187	1880	7.88	46400	3.20		
54.0	6590	27.57	36200	1.20		
59.0	6010	25.14	36300	1.30		
68.0	5200	21.76	36200	1.50		
77.0	4590	19.20	36000	1.70		
89.0	3960	16.58	35600	2.00	FA 107 FAF 107 F 107 FF 107	Y..225S-4 AM225 AD6
101	3500	14.67	35100	2.20		
120	2940	12.33	34300	2.40		
148	2380	9.96	33200	2.70		
152	2310	9.69	32400	2.10		
176	2000	8.37	31700	2.40		
199	1770	7.40	31000	2.60		
237	1480	6.22	30000	3.10		

F SERIES



n ₁ [1/min]	M ₁ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =45.0kw						
22.0	19800	68.28	81400	0.90	FA 157 FAF 157 F 157 FF 157	Y..225M-4
25.0	17500	60.25	81600	1.05		AM225
						AD5
28.0	15100	52.24	81300	1.20	FA 157 FAF 157 F 157 FF 157	Y..225M-4 AM225 AD6
32.0	13500	46.48	80800	1.35	FA 157	Y..225M-4
37.0	11600	40.06	79800	1.55	FAF 157	AM225
45.0	9460	32.55	78000	1.90	F 157 FF 157	AD7
54.0	8020	27.60	76200	2.20	FA 157 FAF 157 F 157 FF 157	Y..225M-4 AM225 AD8
30.0	14100	48.80	51600	0.85	FA 127 FAF 127 F 127 FF 127	Y..225M-4 AM225 AD5
35.0	12200	42.15	54300	1.00		
40.0	10800	37.28	55800	1.10	FA 127	Y..225M-4
55.0	7810	26.86	55700	1.10	FAF 127	AM225
60.0	7140	24.57	55300	1.20	F 127 FF 127	AD6
47.0	9100	31.33	56100	1.30	FA 127	Y..225M-4
58.0	7350	25.30	55400	1.65	FAF 127 F 127 FF 127	AM225 AD7
69.0	6210	21.38	54500	1.95	FA 127 FAF 127 F 127 FF 127	Y..225M-4 AM225 AD8
78.0	5480	18.87	53600	2.00		
90.0	4750	16.36	52600	2.30		
102	4230	14.55	51600	2.60		
118	3640	12.54	50300	2.70		
145	2960	10.19	48300	3.20		
167	2570	8.86	46500	2.70		
187	2290	7.88	45400	2.60		
218	1970	6.80	44000	3.50		
268	1600	5.52	42000	3.70		
54.0	8010	27.57	31500	1.00	FA 107 FAF 107 F 107 FF 107	Y..225M-4 AM225 AD6
59.0	7310	25.14	32600	1.05		
68.0	6320	21.76	33200	1.25		
77.0	5580	19.20	33300	1.40		
89.0	4820	16.58	33300	1.65		
101	4260	14.67	33100	1.80		
120	3580	12.33	32600	1.95		
148	2890	9.96	31900	2.20		
152	2810	9.69	30900	1.75		
177	2430	8.37	30400	1.95		
200	2150	7.40	29900	2.10		
238	1800	6.22	29000	2.50		

n ₁ [1/min]	M ₁ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =55.0kw						
24.0	21400	60.25	73800	0.85	FA 157 FAF 157 F 157 FF 157	Y..250M-4
						AM250
						AD5
28.0	18600	52.24	74600	0.95	FA 157 FAF 157 F 157 FF 157	Y..250M-4 AM250 AD6
32.0	16500	46.48	74800	1.10	FA 157	Y..250M-4
37.0	14200	40.06	74700	1.25	FAF 157	AM250
45.0	11500	32.55	73800	1.55	F 157 FF 157	AD7
53.0	9820	27.60	72600	1.85	FA 157 FAF 157 F 157 FF 157	Y..250M-4 AM250 AD8
52.0	10100	28.60	72900	1.65		
58.0	9050	25.43	71900	1.65		
67.0	7890	22.16	70600	2.30		
75.0	7030	19.77	69400	2.40		
88.0	6000	16.85	67600	3.00	FA 127 FAF 127 F 127 FF 127	Y..250M-4 AM250 AD6
40.0	13200	37.28	46900	0.90		
47.0	11100	31.33	49900	1.10		
58.0	9010	25.30	51600	1.35		
69.0	7610	21.38	51300	1.60		
78.0	6710	18.87	50800	1.65	FA 127 FAF 127 F 127 FF 127	Y..250M-4 AM250 AD8
90.0	5820	16.36	50100	1.90		
101	5180	14.55	49400	2.10		
118	4460	12.54	48400	2.20		
145	3620	10.19	46800	2.60		
166	3150	8.86	45100	2.20		
187	2800	7.88	44200	2.10		
217	2410	6.80	42900	2.90		
315	1660	4.68	39600	3.60		
P ₁ =75.0kw						
32.0	22400	46.48	62900	0.80	FA 157 FAF 157	Y..280S-4
37.0	19300	40.06	64400	0.95	F 157 FF 157	AM280
45.0	15700	32.55	65400	1.15		AD7
54.0	13300	27.60	65500	1.35	FA 157 FAF 157 F 157 FF 157	Y..280S-4 AM280 AD8
52.0	13800	28.60	65500	1.25		
58.0	12300	25.43	65400	1.20		
67.0	10700	22.16	64900	1.70		
75.0	9560	19.77	64300	1.80		
88.0	8150	16.85	63200	2.20		
106	6750	13.96	61600	2.50		
124	5760	11.92	60100	2.80		

E

n _i [1/min]	M _i [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P _I =75.0kw						
58.0	12200	25.30	40000	1.00	FA 127 FAF 127 F 127 FF 127	Y..280S-4 AM280 AD7
69.0	10300	21.38	43000	1.15	FA 127 FAF 127 F 127 FF 127	Y..280S-4 AM280 AD8
78.0	9120	18.87	44400	1.20		
90.0	7910	16.36	45200	1.40		
102	7040	14.55	45000	1.55		
118	6060	12.54	44600	1.65		
145	4930	10.19	43700	1.95		
167	4280	8.86	42200	1.65		
188	3810	7.88	41600	1.55		
218	3280	6.80	40700	2.10		
268	2670	5.52	39300	2.20		
316	2260	4.68	38100	2.60		
P _I =90.0kw						
45.0	18900	32.55	59100	0.95	FA 157 FAF 157 F 157 FF 157	Y..280M-4 AM280 AD7
54.0	16000	27.60	60200	1.10	FA 157 FAF 157 F 157 FF 157	Y..280M-4 AM280 AD8
67.0	12800	22.16	60600	1.40		
75.0	11400	19.77	60500	1.50		
88.0	9780	16.85	59900	1.85		
106	8100	13.96	58900	2.10		
124	6920	11.92	57800	2.30		

n _i [1/min]	M _i [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P_i=90.0kw						
58.0	14600	25.30	29600	0.80	FA 127 FAF 127 F 127 FF 127	Y..280M-4 AM280 AD7
90.0	9490	16.36	39900	1.15	FA 127 FAF 127 F 127 FF 127	Y..280M-4 AM280 AD8
102	8450	14.55	41100	1.30		
118	7280	12.54	41800	1.35		
145	5910	10.19	41400	1.60		
167	5140	8.86	40100	1.35		
188	4570	7.88	39700	1.30		
218	3940	6.80	39000	1.75		
268	3200	5.52	37900	1.85		
316	2710	4.68	36900	2.20		
P_i=110kw						
54.0	19500	27.60	53100	0.90	FA 157 FAF 157 F 157 FF 157	Y..315S-4 - AD8
67.0	15600	22.16	54900	1.15		
75.0	14000	19.77	55400	1.20		
88.0	11900	16.85	55600	1.50		
106	9890	13.96	55300	1.70		
124	8440	11.92	54700	1.90		
P_i=132kw						
67.0	18800	22.16	48700	0.95	FA 157 FAF 157 F 157 FF 157	Y..315M-4 - AD8
75.0	16700	19.77	49800	1.00		
88.0	14300	16.85	50900	1.25		
106	11800	13.96	51400	1.45		
125	10100	11.92	51400	1.60		



3.8 F../RF..性能参数 / F../RF.. Performance Parameters

n: [1/min]	i	Fr [N]	Frame size	Motor
M_{2max} = 130Nm				
0.15	8972	4500		
0.18	7736	4500		
0.19	7211	4500		
0.22	6303	4500		
0.25	5435	4500	FA 27 RF17	Y..63M ₁ -4
0.28	4855	4500	FAF 27 RF17	Y..63M ₁ -4
0.33	4243	4500	F 27 RF17	Y..63M ₁ -4
0.37	3715	4500	FF 27 RF17	Y..63M ₁ -4
0.43	3247	4500		
0.48	2878	4500		
0.55	2515	4500		
0.62	2217	4500		
0.73	1898	4500		
0.84	1645	4500		
0.90	1525	4500		
1.00	1322	4500		
1.20	1146	4500	FA 27 RF17	Y..63M ₁ -4
1.40	1013	4500	FAF 27 RF17	Y..63M ₁ -4
1.60	890	4500	F 27 RF17	Y..63M ₁ -4
1.80	778	4500	FF 27 RF17	Y..63M ₁ -4
2.00	682	4500		
2.30	602	4500		
2.60	520	4500		
3.00	458	4500		
3.50	397	4500		
4.00	342	4500	FA 27 RF17	Y..63M ₁ -4
4.60	302	4500	FAF 27 RF17	Y..63M ₁ -4
5.20	266	4500	F 27 RF17	Y..63M ₁ -4
5.80	236	4500	FF 27 RF17	Y..63M ₁ -4
6.50	211	4500		
7.40	186	4500		
9.30	142	4500	FA 27 RF17	Y..63M ₁ -4
11.0	124	4500	FAF 27 RF17	Y..63M ₁ -4
			F 27 RF17	Y..63M ₁ -4
			FF 27 RF17	Y..63M ₁ -4
12.0	109	4500	FA 27 RF17	Y..71M ₁ -4
14.0	96	4500	FAF 27 RF17	Y..71M ₁ -4
			F 27 RF17	Y..71M ₁ -4
			FF 27 RF17	Y..71M ₁ -4
M_{2max} = 200Nm				
0.17	8193	4290		
0.20	7064	4290		
0.21	6585	4290		
0.24	5756	4290		
0.28	4963	4290	FA 37 RF17	Y..63M ₁ -4
0.31	4434	4290	FAF 37 RF17	Y..63M ₁ -4
0.36	3875	4290	F 37 RF17	Y..63M ₁ -4
0.41	3392	4290	FF 37 RF17	Y..63M ₁ -4
0.47	2965	4290		
0.53	2587	4290		
0.60	2284	4290		
0.69	1997	4290		
n: [1/min]	i	Fr [N]	Frame size	Motor
M_{2max} = 200Nm				
0.72	1929	4290		
0.82	1679	4290		
0.89	1550	4290		
1.00	1356	4290		
1.20	1180	4290		
1.30	1044	4290	FA 37 RF17	Y..63M ₁ -4
1.50	914	4290	FAF 37 RF17	Y..63M ₁ -4
1.70	808	4290	F 37 RF17	Y..63M ₁ -4
2.00	698	4290	FF 37 RF17	Y..63M ₁ -4
2.20	616	4290		
2.50	544	4290		
3.00	466	4290		
3.40	411	4290		
3.80	364	4290		
4.20	326	4290	FA 37 RF17	Y..63M ₁ -4
4.80	285	4290	FAF 37 RF17	Y..63M ₁ -4
			F 37 RF17	Y..63M ₁ -4
			FF 37 RF17	Y..63M ₁ -4
5.30	250	4290	FA 37 RF17	Y..63M ₁ -4
6.00	219	4290	FAF 37 RF17	Y..63M ₁ -4
7.10	186	4290	F 37 RF17	Y..63M ₁ -4
			FF 37 RF17	Y..63M ₁ -4
7.80	167	4290	FA 37 RF17	Y..71M ₁ -4
8.90	145	4290	FAF 37 RF17	Y..71M ₁ -4
10.0	129	4290	F 37 RF17	Y..71M ₁ -4
			FF 37 RF17	Y..71M ₁ -4
M_{2max} = 400Nm				
0.11	12251	5920		
0.13	10619	5920		
0.14	9846	5920		
0.16	8534	5920		
0.19	7460	5920		
0.21	6536	5920	FA 47 RF17	Y..63M ₁ -4
0.24	5746	5920	FAF 47 RF17	Y..63M ₁ -4
0.27	5022	5920	F 47 RF17	Y..63M ₁ -4
0.31	4401	5920	FF 47 RF17	Y..63M ₁ -4
0.36	3883	5920		
0.40	3443	5920		
0.46	2976	5920		
0.52	2629	5920		
0.55	2519	5920		
0.58	2394	5920		
0.64	2172	5920		
0.68	2025	5920		
0.78	1770	5920	FA 47 RF17	Y..63M ₁ -4
0.88	1576	5920	FAF 47 RF17	Y..63M ₁ -4
1.00	1363	5920	F 47 RF17	Y..63M ₁ -4
1.20	1192	5920	FF 47 RF17	Y..63M ₁ -4
1.30	1061	5920		
1.50	931	5920		
1.70	822	5920		
2.00	706	5920		

n ₂ [1/min]	i	Fr [N]	Frame size	Motor
M_{2max} = 400Nm				
2.20	619	5920	FA 47 RF17 FAF 47 RF17 F 47 RF17 FF 47 RF17	Y..63M ₁ -4 Y..63M ₁ -4 Y..63M ₁ -4 Y..63M ₁ -4
2.50	524	5920	FA 47 RF17	Y..63M ₁ -4
2.70	489	5920	FAF 47 RF17	Y..63M ₁ -4
3.10	427	5920	F 47 RF17	Y..63M ₁ -4
3.50	381	5920	FF 47 RF17	Y..63M ₁ -4
3.90	334	5920	FA 47 RF17	Y..71M ₁ -4
4.40	295	5920	FAF 47 RF17	Y..71M ₁ -4
5.10	253	5920	F 47 RF17 FF 47 RF17	Y..71M ₁ -4 Y..71M ₁ -4
6.40	217	5920	FA 47 RF17	Y..71M ₁ -4
7.30	190	5920	FAF 47 RF17	Y..71M ₁ -4
7.80	178	5920	F 47 RF17 FF 47 RF17	Y..71M ₁ -4 Y..71M ₁ -4
9.20	149	5920	FA 47 RF17	Y..80M ₁ -4
11.0	131	5920	FAF 47 RF17 F 47 RF17 FF 47 RF17	Y..80M ₁ -4 Y..80M ₁ -4 Y..80M ₁ -4
M_{2max} = 600Nm				
0.09	14832	9200		
0.10	13604	9200		
0.11	12602	9200		
0.12	11252	9200		
0.14	9986	9200		
0.16	8787	9200	FA 57 RF37	Y..63M ₁ -4
0.17	7908	9200	FAF 57 RF37	Y..63M ₁ -4
0.20	6913	9200	F 57 RF37	Y..63M ₁ -4
0.23	6030	9200	FF 57 RF37	Y..63M ₁ -4
0.26	5289	9200		
0.30	4654	9200		
0.34	4060	9200		
0.39	3564	9200		
0.44	3161	9200		
0.48	2854	9200		
0.54	2576	9200		
0.61	2266	9200		
0.69	2012	9200		
0.77	1791	9200	FA 57 RF37	Y..63M ₁ -4
0.85	1617	9200	FAF 57 RF37	Y..63M ₁ -4
0.97	1422	9200	F 57 RF37	Y..63M ₁ -4
1.10	1243	9200	FF 57 RF37	Y..63M ₁ -4
1.30	1066	9200		
1.40	949	9200		
1.60	856	9200		
1.80	749	9200	FA 57 RF37	Y..63M ₁ -4
2.00	658	9200	FAF 57 RF37	Y..63M ₁ -4
2.40	549	9200	F 57 RF37 FF 57 RF37	Y..63M ₁ -4 Y..63M ₁ -4
M_{2max} = 600Nm				
2.70	483	9200	FA 57 RF37 FAF 57 RF37 F 57 RF37 FF 57 RF37	Y..71M ₁ -4 Y..71M ₁ -4 Y..71M ₁ -4 Y..71M ₁ -4
3.00	426	9200	FA 57 RF37	Y..71M ₁ -4
3.40	382	9200	FAF 57 RF37 F 57 RF37 FF 57 RF37	Y..71M ₁ -4 Y..71M ₁ -4 Y..71M ₁ -4
4.20	330	9200	FA 57 RF37	Y..71M ₁ -4
4.60	298	9200	FAF 57 RF37	Y..71M ₁ -4
5.30	262	9200	F 57 RF37 FF 57 RF37	Y..71M ₁ -4 Y..71M ₁ -4
6.10	226	9200	FA 57 RF37	Y..80M ₁ -4
6.90	200	9200	FAF 57 RF37 F 57 RF37 FF 57 RF37	Y..80M ₁ -4 Y..80M ₁ -4 Y..80M ₁ -4
8.40	170	9200	FA 57 RF37	Y..80M ₁ -4
9.40	152	9200	FAF 57 RF37	Y..80M ₁ -4
11.0	134	9200	F 57 RF37 FF 57 RF37	Y..80M ₁ -4 Y..80M ₁ -4
M_{2max} = 820Nm				
0.07	19199	10300		
0.08	17610	10300		
0.09	14992	10300		
0.11	12926	10300		
0.12	11480	10300		
0.14	10220	10300		
0.15	8933	10300		
0.17	7940	10300	FA 67 RF37	Y..63M ₁ -4
0.19	7096	10300	FAF 67 RF37	Y..63M ₁ -4
0.23	6080	10300	F 67 RF37	Y..63M ₁ -4
0.26	5341	10300	FF 67 RF37	Y..63M ₁ -4
0.29	4690	10300		
0.34	4091	10300		
0.39	3574	10300		
0.44	3133	10300		
0.50	2756	10300		
0.57	2439	10300		
0.41	3377	10300		
0.47	2912	10300		
0.51	2714	10300	FA 67 RF37	Y..63M ₁ -4
0.58	2372	10300	FAF 67 RF37	Y..63M ₁ -4
0.65	2126	10300	F 67 RF37	Y..63M ₁ -4
0.85	1631	10300	FF 67 RF37	Y..63M ₁ -4
0.96	1437	10300		
1.10	1256	10300		
1.20	1126	10300	FA 67 RF37	Y..63M ₁ -4
1.30	984	10300	FAF 67 RF37	Y..63M ₁ -4
1.50	864	10300	F 67 RF37 FF 67 RF37	Y..63M ₁ -4 Y..63M ₁ -4

F SERIES



n_2 [1/min]	i	F_r [N]	Frame size	Motor
$M_{2max} = 820Nm$				
1.80	722	10300	FA 67 RF37	Y..71M ₁ -4
2.00	634	10300	FAF 67 RF37	Y..71M ₁ -4
2.40	539	10300	F 67 RF37	Y..71M ₁ -4
			FF 67 RF37	Y..71M ₁ -4
0.73	1884	10300	FA 67 RF37	Y..63M ₁ -4
			FAF 67 RF37	Y..63M ₁ -4
			F 67 RF37	Y..63M ₁ -4
			FF 67 RF37	Y..63M ₁ -4
2.60	500	10300	FA 67 RF37	Y..71M ₁ -4
			FAF 67 RF37	Y..71M ₁ -4
			F 67 RF37	Y..71M ₁ -4
			FF 67 RF37	Y..71M ₁ -4
3.00	454	10300	FA 67 RF37	Y..71M ₁ -4
3.50	392	10300	FAF 67 RF37	Y..71M ₁ -4
			F 67 RF37	Y..71M ₁ -4
			FF 67 RF37	Y..71M ₁ -4
4.10	333	10300	FA 67 RF37	Y..80M ₁ -4
4.60	297	10300	FAF 67 RF37	Y..80M ₁ -4
5.30	261	10300	F 67 RF37	Y..80M ₁ -4
5.80	238	10300	FF 67 RF37	Y..80M ₁ -4
7.20	200	10300	FA 67 RF37	Y..80M ₁ -4
			FAF 67 RF37	Y..80M ₁ -4
			F 67 RF37	Y..80M ₁ -4
			FF 67 RF37	Y..80M ₁ -4
$M_{2max} = 1500Nm$				
0.07	19180	15700	FA 77 RF37	Y..63M ₁ -4
0.08	17593	15700		
0.09	16128	15700		
0.09	14978	15700		
0.10	13731	15700		
0.11	12049	15700		
0.13	11035	15700		
0.14	9683	15700		
0.16	8464	15700		
0.18	7520	15700		
0.21	6580	15700		
0.24	5808	15700		
0.27	5026	15700		
0.31	4435	15700		
0.36	3832	15700		
0.46	2978	15700		
0.53	2613	15700		
0.60	2284	15700		
0.65	2029	15700	FA 77 RF37	Y..63M ₂ -4
0.76	1728	15700	FAF 77 RF37	Y..63M ₂ -4
0.86	1544	15700	F 77 RF37	Y..63M ₂ -4
0.98	1354	15700	FF 77 RF37	Y..63M ₂ -4
1.10	1200	15700	FA 77 RF37	Y..71M ₁ -4
1.20	1053	15700	FAF 77 RF37	Y..71M ₁ -4
			F 77 RF37	Y..71M ₁ -4
			FF 77 RF37	Y..71M ₁ -4
$M_{2max} = 1500Nm$				
1.50	910	15700	FA 77 RF37	Y..71M ₂ -4
1.70	810	15700	FAF 77 RF37	Y..71M ₂ -4
1.90	710	15700	F 77 RF37	Y..71M ₂ -4
			FF 77 RF37	Y..71M ₂ -4
2.20	615	15700	FA 77 RF37	Y..80M ₁ -4
2.60	538	15700	FAF 77 RF37	Y..80M ₁ -4
2.90	480	15700	F 77 RF37	Y..80M ₁ -4
			FF 77 RF37	Y..80M ₁ -4
3.50	413	15700	FA 77 RF37	Y..80M ₁ -4
3.90	367	15700	FAF 77 RF37	Y..80M ₁ -4
			F 77 RF37	Y..80M ₁ -4
			FF 77 RF37	Y..80M ₁ -4
4.40	323	15700	FA 77 RF37	Y..90S-4
			FAF 77 RF37	Y..90S-4
			F 77 RF37	Y..90S-4
			FF 77 RF37	Y..90S-4
$M_{2max} = 3000Nm$				
0.06	23042	19800	FA 87 RF57	Y..63M ₁ -4
0.07	20462	19800		
0.08	18238	19800		
0.09	15877	19800		
0.10	14099	19800		
0.11	12205	19800		
0.13	10433	19800		
0.15	9381	19800		
0.17	8142	19800		
0.19	7100	19800		
0.22	6273	19800		
0.25	5510	19800		
0.28	4954	19800		
0.31	4245	19800		
0.35	3721	19800		
0.41	3244	19800		
0.46	2881	19800		
0.50	2576	19800	FA 87 RF57	Y..71M ₁ -4
0.59	2199	19800	FAF 87 RF57	Y..71M ₁ -4
0.67	1930	19800	F 87 RF57	Y..71M ₁ -4
			FF 87 RF57	Y..71M ₁ -4
0.81	1709	19800	FA 87 RF57	Y..71M ₂ -4
0.92	1493	19800	FAF 87 RF57	Y..71M ₂ -4
			F 87 RF57	Y..71M ₂ -4
			FF 87 RF57	Y..71M ₂ -4
1.10	1300	19800	FA 87 RF57	Y..80M ₁ -4
1.20	1148	19800	FAF 87 RF57	Y..80M ₁ -4
1.40	1010	19800	F 87 RF57	Y..80M ₁ -4
1.60	887	19800	FF 87 RF57	Y..80M ₁ -4
1.80	780	19800	FA 87 RF57	Y..80M ₂ -4
2.10	674	19800	FAF 87 RF57	Y..80M ₂ -4
			F 87 RF57	Y..80M ₂ -4
			FF 87 RF57	Y..80M ₂ -4

F

n ₂ [1/min]	i	Fr [N]	Frame size	Motor
M_{2max} = 3000Nm				
2.30	609	19800	FA 87 RF57	Y..90S-4
2.80	515	19800	FAF 87 RF57	Y..90S-4
3.10	452	19800	F 87 RF57	Y..90S-4
			FF 87 RF57	Y..90S-4
4.10	345	19800	FA 87 RF57	Y..90L-4
			FAF 87 RF57	Y..90L-4
			F 87 RF57	Y..90L-4
			FF 87 RF57	Y..90L-4
M_{2max} = 4300Nm				
0.07	20183	29900		
0.08	18119	29900		
0.09	15472	29900		
0.10	14022	29900	FA 97 RF57	Y..63M ₁ -4
0.11	12324	29900	FAF 97 RF57	Y..63M ₁ -4
0.13	10838	29900	F 97 RF57	Y..63M ₁ -4
0.14	9576	29900	FF 97 RF57	Y..63M ₁ -4
0.17	8318	29900		
0.19	7328	29900		
0.20	6469	29900	FA 97 RF57	Y..63M ₁ -4
0.24	5615	29900	FAF 97 RF57	Y..63M ₁ -4
0.27	4961	29900	F 97 RF57	Y..63M ₁ -4
0.30	4333	29900	FF 97 RF57	Y..63M ₁ -4
0.34	3906	29900		
0.39	3352	29900	FA 97 RF57	Y..71M ₁ -4
			FAF 97 RF57	Y..71M ₁ -4
0.45	2907	29900	F 97 RF57	Y..71M ₁ -4
			FF 97 RF57	Y..71M ₁ -4
0.54	2553	29900	FA 97 RF57	Y..71M ₁ -4
0.61	2245	29900	FAF 97 RF57	Y..71M ₁ -4
0.70	1970	29900	F 97 RF57	Y..71M ₁ -4
			FF 97 RF57	Y..71M ₁ -4
0.80	1722	29900	FA 97 RF57	Y..80M ₁ -4
0.90	1527	29900	FAF 97 RF57	Y..80M ₁ -4
1.00	1327	29900	F 97 RF57	Y..80M ₁ -4
			FF 97 RF57	Y..80M ₁ -4
1.20	1171	29900	FA 97 RF57	Y..80M ₁ -4
1.40	1022	29900	FAF 97 RF57	Y..80M ₁ -4
			F 97 RF57	Y..80M ₁ -4
			FF 97 RF57	Y..80M ₁ -4
1.60	898	29900	FA 97 RF57	Y..90S-4
1.80	784	29900	FAF 97 RF57	Y..90S-4
2.10	690	29900	F 97 RF57	Y..90S-4
			FF 97 RF57	Y..90S-4
2.40	605	29900	FA 97 RF57	Y..90L-4
2.70	529	29900	FAF 97 RF57	Y..90L-4
3.10	467	29900	F 97 RF57	Y..90L-4
			FF 97 RF57	Y..90L-4

n ₂ [1/min]	i	Fr [N]	Frame size	Motor
M_{2max} = 600Nm				
3.50	406	29900	FA 97 RF57	Y..100L ₁ -4
3.90	363	29900	FAF 97 RF57	Y..100L ₁ -4
			F 97 RF57	Y..100L ₁ -4
			FF 97 RF57	Y..100L ₁ -4
5.10	285	29900	FA 97 RF57	Y..100L ₂ -4
6.00	245	29900	FAF 97 RF57	Y..100L ₂ -4
			F 97 RF57	Y..100L ₂ -4
			FF 97 RF57	Y..100L ₂ -4
M_{2max} = 7680Nm				
0.05	25375	49800		
0.06	21652	49800	FA 107 RF77	Y..63M ₁ -4
0.07	18933	49800	FAF 107 RF77	Y..63M ₁ -4
0.08	16888	49800	F 107 RF77	Y..63M ₁ -4
0.09	14767	49800	FF 107 RF77	Y..63M ₁ -4
0.12	11348	49800	FA 107 RF77	Y..63M ₁ -4
0.13	10039	49800	FAF 107 RF77	Y..63M ₁ -4
0.15	8548	49800	F 107 RF77	Y..63M ₁ -4
0.17	7674	49800	FF 107 RF77	Y..63M ₁ -4
0.19	6767	9800	FA 107 RF77	Y..71M ₁ -4
0.22	5954	49800	FAF 107 RF77	Y..71M ₁ -4
0.25	5223	49800	F 107 RF77	Y..71M ₁ -4
			FF 107 RF77	Y..71M ₁ -4
0.30	4567	49800	FA 107 RF77	Y..71M ₁ -4
0.39	3521	49800	FAF 107 RF77	Y..71M ₁ -4
			F 107 RF77	Y..71M ₁ -4
			FF 107 RF77	Y..71M ₁ -4
0.45	3037	49800	FA 107 RF77	Y..80M ₁ -4
0.50	2756	49800	FAF 107 RF77	Y..80M ₁ -4
0.58	2369	49800	F 107 RF77	Y..80M ₁ -4
			FF 107 RF77	Y..80M ₁ -4
0.69	2068	49800	FA 107 RF77	Y..80M ₁ -4
0.79	1826	49800	FAF 107 RF77	Y..80M ₁ -4
			F 107 RF77	Y..80M ₁ -4
			FF 107 RF77	Y..80M ₁ -4
0.89	1597	49800	FA 107 RF77	Y..90S-4
1.00	1401	49800	FAF 107 RF77	Y..90S-4
1.10	1243	49800	F 107 RF77	Y..90S-4
			FF 107 RF77	Y..90S-4
1.30	1087	49800	FA 107 RF77	Y..90L-4
1.50	950	49800	FAF 107 RF77	Y..90L-4
			F 107 RF77	Y..90L-4
			FF 107 RF77	Y..90L-4
1.70	834	49800	FA 107 RF77	Y..100L ₁ -4
1.90	736	49800	FAF 107 RF77	Y..100L ₁ -4
2.20	640	49800	F 107 RF77	Y..100L ₁ -4
			FF 107 RF77	Y..100L ₁ -4

F SERIES



n ₂ [1/min]	i	Fr [N]	Frame size	Motor
M_{2max} = 7680Nm				
2.60	560	49800	FA 107 RF77	Y..100L ₂ -4
3.00	489	49800	FAF 107 RF77	Y..100L ₂ -4
3.30	436	49800	F 107 RF77	Y..100L ₂ -4
			FF 107 RF77	Y..100L ₂ -4
4.00	370	49800	FA 107 RF77	Y..112M-4
4.40	333	49800	FAF 107 RF77	Y..112M-4
			F 107 RF77	Y..112M-4
			FF 107 RF77	Y..112M-4
M_{2max} = 12000Nm				
0.06	24478	90000	FA 127 RF77	Y..63M ₁ -4
0.06	22323	90000	FAF 127 RF77	Y..63M ₁ -4
			F 127 RF77	Y..63M ₁ -4
			FF 127 RF77	Y..63M ₁ -4
0.07	19048	90000	FA 127 RF77	Y..63M ₂ -4
0.08	16656	90000	FAF 127 RF77	Y..63M ₂ -4
0.09	14722	90000	F 127 RF77	Y..63M ₂ -4
0.10	12912	90000	FF 127 RF77	Y..63M ₂ -4
0.11	11656	90000		
0.13	10191	90000	FA 127 RF77	Y..71M ₁ -4
0.15	8831	90000	FAF 127 RF77	Y..71M ₁ -4
			F 127 RF77	Y..71M ₁ -4
			FF 127 RF77	Y..71M ₁ -4
0.18	7643	90000	FA 127 RF77	Y..71M ₂ -4
0.21	6715	90000	FAF 127 RF77	Y..71M ₂ -4
0.23	5925	90000	F 127 RF77	Y..71M ₂ -4
			FF 127 RF77	Y..71M ₂ -4
0.27	5153	90000	FA 127 RF77	Y..80M ₁ -4
0.30	4533	90000	FAF 127 RF77	Y..80M ₁ -4
0.35	3926	90000	F 127 RF77	Y..80M ₁ -4
			FF 127 RF77	Y..80M ₁ -4
0.42	3454	90000	FA 127 RF77	Y..80M ₂ -4
0.47	3031	90000	FAF 127 RF77	Y..80M ₂ -4
0.54	2672	90000	F 127 RF77	Y..80M ₂ -4
			FF 127 RF77	Y..80M ₂ -4
0.60	2357	90000	FA 127 RF77	Y..90S-4
0.70	2038	90000	FAF 127 RF77	Y..90S-4
0.80	1784	90000	F 127 RF77	Y..90S-4
			FF 127 RF77	Y..90S-4
0.89	1606	90000	FA 127 RF77	Y..90L-4
1.00	1390	90000	FAF 127 RF77	Y..90L-4
			F 127 RF77	Y..90L-4
			FF 127 RF77	Y..90L-4
1.20	1220	90000	FA 127 RF77	Y..100L ₁ -4
1.30	1077	90000	FAF 127 RF77	Y..100L ₁ -4
1.50	930	90000	F 127 RF77	Y..100L ₁ -4
			FF 127 RF77	Y..100L ₁ -4

n ₂ [1/min]	i	Fr [N]	Frame size	Motor
M_{2max} = 12000Nm				
1.80	820	90000	FA 127 RF77	Y..100L ₂ -4
2.00	727	90000	FAF 127 RF77	Y..100L ₂ -4
			F 127 RF77	Y..100L ₂ -4
			FF 127 RF77	Y..100L ₂ -4
2.20	648	90000	FA 127 RF77	Y..112M-4
2.70	549	90000	FAF 127 RF77	Y..112M-4
3.00	495	90000	F 127 RF77	Y..112M-4
			FF 127 RF77	Y..112M-4
3.40	428	90000	FA 127 RF77	Y..132S-4
3.90	376	90000	FAF 127 RF77	Y..132S-4
			F 127 RF77	Y..132S-4
			FF 127 RF77	Y..132S-4
3.00	483	90000	FA 127 RF77	Y..132S-4
3.50	418	90000	FAF 127 RF77	Y..132S-4
3.90	374	90000	F 127 RF77	Y..132S-4
			FF 127 RF77	Y..132S-4
4.70	312	90000	FA 127 RF77	Y..132M-4
5.00	293	90000	FAF 127 RF77	Y..132M-4
			F 127 RF77	Y..132M-4
			FF 127 RF77	Y..132M-4
7.50	198	90000	FA 127 RF77	Y..160M-4
			FAF 127 RF77	Y..160M-4
			F 127 RF77	Y..160M-4
			FF 127 RF77	Y..160M-4
M_{2max} = 18000Nm				
0.04	31434	100300		
0.05	26173	100300		
0.06	23464	100300	FA 157 RF97	Y..80M ₁ -4
0.07	20212	100300	FAF 157 RF97	Y..80M ₁ -4
0.08	17984	100300	F 157 RF97	Y..80M ₁ -4
0.08	16358	100300	FF 157 RF97	Y..80M ₁ -4
0.10	13751	100300		
0.11	12235	100300		
0.14	10033	100300	FA 157 RF97	Y..80M ₂ -4
0.16	9021	100300	FAF 157 RF97	Y..80M ₂ -4
0.18	8026	100300	F 157 RF97	Y..80M ₂ -4
			FF 157 RF97	Y..80M ₂ -4
0.20	7075	100300	FA 157 RF97	Y..80M ₁ -4
0.22	6295	100300	FAF 157 RF97	Y..80M ₁ -4
			F 157 RF97	Y..80M ₁ -4
			FF 157 RF97	Y..80M ₁ -4
0.27	5404	100300	FA 157 RF97	Y..80M ₂ -4
0.30	4831	100300	FAF 157 RF97	Y..80M ₂ -4
			F 157 RF97	Y..80M ₂ -4
			FF 157 RF97	Y..80M ₂ -4
0.34	4130	100300	FA 157 RF97	Y..90S-4
			FAF 157 RF97	Y..90S-4
			F 157 RF97	Y..90S-4
			FF 157 RF97	Y..90S-4

F



n_2 [1/min]	i	Fr [N]	Frame size	Motor
$M_{2max} = 18000Nm$				
0.40 0.44	3607 3210	100300	FA 157 RF97	Y..100L-4
			FAF 157 RF97	Y..100L-4
			F 157 RF97	Y..100L-4
			FF 157 RF97	Y..100L-4
0.51	2780	100300	FA 157 RF97	Y..90L-4
			FAF 157 RF97	Y..90L-4
			F 157 RF97	Y..90L-4
			FF 157 RF97	Y..90L-4
0.99	1441	100300	FA 157 RF97	Y..100L-4
			FAF 157 RF97	Y..100L-4
			F 157 RF97	Y..100L-4
			FF 157 RF97	Y..100L-4
0.59 0.65	2427 2185	100300	FA 157 RF97	Y..90L-4
			FAF 157 RF97	Y..90L-4
			F 157 RF97	Y..90L-4
			FF 157 RF97	Y..90L-4
0.73 0.85	1944 1674	100300	FA 157 RF97	Y..100L-4
			FAF 157 RF97	Y..100L-4
			F 157 RF97	Y..100L-4
			FF 157 RF97	Y..100L-4
1.10 1.20	1308 1169	100300	FA 157 RF97	Y..100L-4
			FAF 157 RF97	Y..100L-4
			F 157 RF97	Y..100L-4
			FF 157 RF97	Y..100L-4

n_2 [1/min]	i	Fr [N]	Frame size	Motor
$M_{2max} = 18000Nm$				
1.50 1.70 1.90	953 845 764	100300	FA 157 RF97	Y..112M-4
			FAF 157 RF97	Y..112M-4
			F 157 RF97	Y..112M-4
			FF 157 RF97	Y..112M-4
2.10 2.50	680 576	100300	FA 157 RF97	Y..132S-4
			FAF 157 RF97	Y..132S-4
			F 157 RF97	Y..132S-4
			FF 157 RF97	Y..132S-4
2.90 3.30	503 446	100300	FA 157 RF97	Y..132M-4
			FAF 157 RF97	Y..132M-4
			F 157 RF97	Y..132M-4
			FF 157 RF97	Y..132M-4
4.90 5.40	302 273	100300	FA 157 RF97	Y..160M-4
			FAF 157 RF97	Y..160M-4
			F 157 RF97	Y..160M-4
			FF 157 RF97	Y..160M-4
6.30 7.20	232 202	100300	FA 157 RF97	Y..160L-4
			FAF 157 RF97	Y..160L-4
			F 157 RF97	Y..160L-4
			FF 157 RF97	Y..160L-4
7.50	197	100300	FA 157 RF97	Y..180M-4
			FAF 157 RF97	Y..180M-4
			F 157 RF97	Y..180M-4
			FF 157 RF97	Y..180M-4



3.9 外形尺寸 / Dimensions

