



S

S系列斜齿轮-涡轮蜗杆减速电机

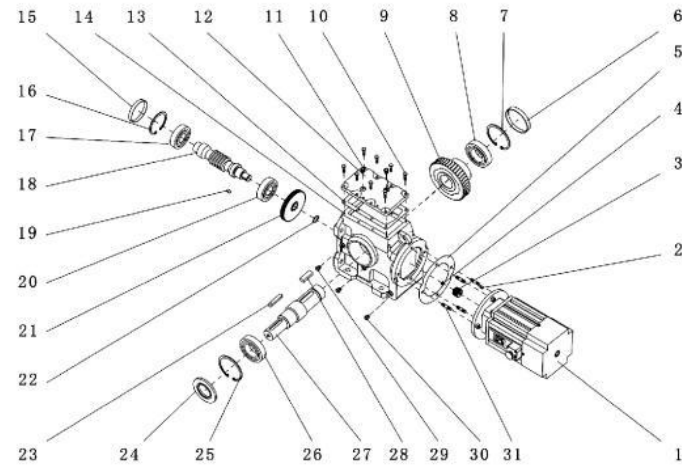
S SERIES HELICAL

WORM GEARED MOTORS

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5.1 部件分解图 / Spare Parts List

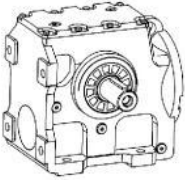
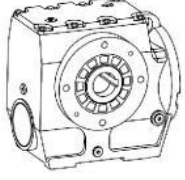
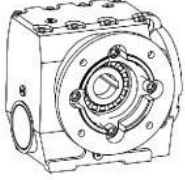


- | | |
|-----------------------------------|-----------------------------------|
| 1 电机/motor | 17 轴承/bearing |
| 2 平键/flat key | 18 蜗杆/worm |
| 3 齿轮/gear | 19 平键/flat key |
| 4 轴用挡圈/retaining rings for shaft | 20 轴承/bearing |
| 5 纸垫/gasket | 21 齿轮/gear |
| 6 平面油封/plan seal | 22 轴用挡圈/retaining rings for shaft |
| 7 孔用挡圈/retaining rings for bores | 23 平键/flat key |
| 8 轴承/bearing | 24 骨架油封/skeleton oil seal |
| 9 蜗轮/worm gear | 25 孔用挡圈/retaining rings for bores |
| 10 外六角螺钉/six angle screw | 26 轴承/bearing |
| 11 油塞/oil level plug | 27 输出轴/output shaft |
| 12 盖板/cover plate | 28 平键/flat key |
| 13 纸垫/gasket | 29 油塞/oil level plug |
| 14 箱体/housing | 30 油塞/oil level plug |
| 15 平面油封/plan seal | 31 双头螺栓/stud |
| 16 孔用挡圈/retaining rings for bores | 32 六角螺母/hexagon nut |

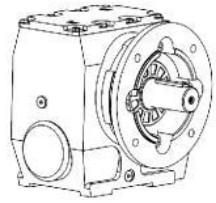
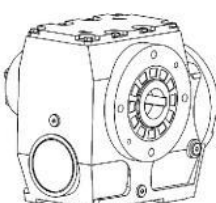
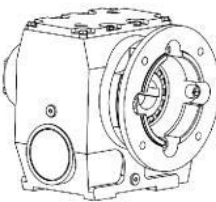
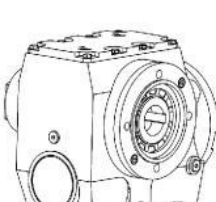
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5.2 机型版本 / Versions

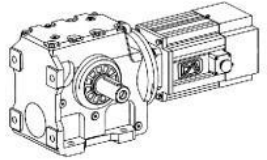
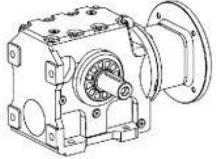
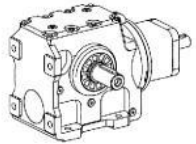
5.2.1 基本型式 / Basic Versions

	S.. 底脚安装斜齿轮-蜗轮蜗杆减速机 Foot-mounted helical worm geared units.
	SA.. 空心轴安装斜齿轮-蜗轮蜗杆减速机 Helical-worm geared units with hollow shaft.
	SAF.. B5法兰空心轴安装斜齿轮-蜗轮蜗杆减速机 Helical-worm geared units in B5 flange mounted version with hollow shaft.
	SAZ.. B14法兰空心轴安装斜齿轮-蜗轮蜗杆减速机 Helical-worm geared units in B14 flange mounted version with hollow shaft.



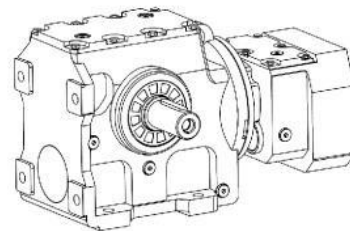
	SF.. B5法兰安装斜齿轮-蜗轮蜗杆减速机 Helical-worm geared units in B5 flange mounted version.
	SH.. 空心轴锁紧盘安装斜齿轮-蜗轮蜗杆减速机 Helical-worm geared units with hollow shaft and shrink disk.
	SHF.. B5法兰空心轴锁紧盘安装斜齿轮-蜗轮蜗杆减速机 Helical-worm geared units in B5 flange-mounted version with hollow shaft and shrink disk.
	SHZ.. B14法兰空心轴锁紧盘安装斜齿轮-蜗轮蜗杆减速机 Helical-worm geared units in B14 flange-mounted version with hollow shaft and shrink disk.

5.2.2 输入型式 / Input Versions

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

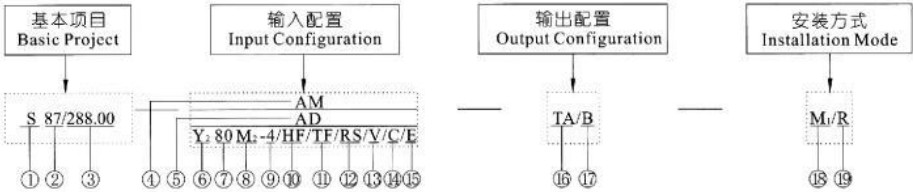
5.2.3 S..与 RF..组合 / S.. and RF.. Combination

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





5.3 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	S、SF、SA...(详见5.2.1) S,SF,SA...(see 5.2.1).
	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. YEJ: 电磁制动三相异步电动机 YEJ: 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 A: 扭力臂指向 A T A: Torque arm pointing to A. T B: 扭力臂指向 B T B: Torque arm pointing to B.
	⑰	法兰或轴指向 Flange or Shaft Pointing direction.	A: 法兰或轴指向 A A: Flange or shaft pointing to A. B: 法兰或轴指向 B B: Flange or shaft pointing to B. A+B: 双出轴或双法兰 A+B: Double flange or shaft.
安装方式 Mounting Positions	⑱	安装方位 Mounting Position	M1、M2、M3、M4、M5、M6
	⑲	电机接线盒方位 Position for motor ter- minal box.	R、B、L、T



说明:

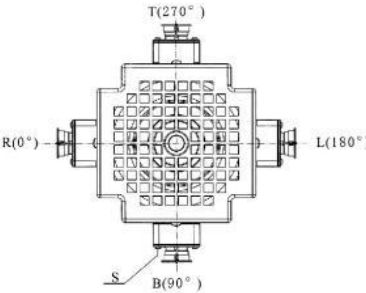
1. 基本项目不可省略;
2. 输入配置中, 只能在 AM、AD 和电机之间选择一种;
3. 输出配置参数若省略, 默认按A方向提供;
4. 安装方式参数若省略, 默认按 M1 安装方位, R 接线盒方位提供。

Notes:

1. Basic project can not be omitted.
2. Input configuration can only be one of AM, AD and motor.
3. If no output configuration, default pointing direction will be A.
4. If not mounting position, default mounting position will be M1, default position for motor terminal will be R.

5.4 安装方位 / Mounting Positions

5.4.1 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。

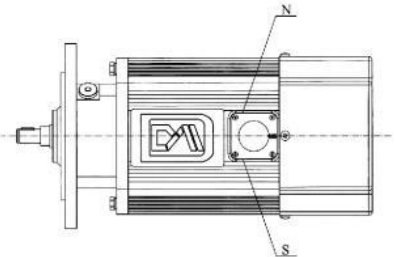
Mark: This picture is the installation position of M1

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

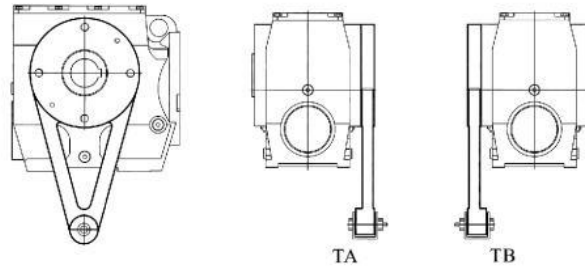
Notes:

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.

5.4.2 扭力臂方位 / Position of Torque Arm



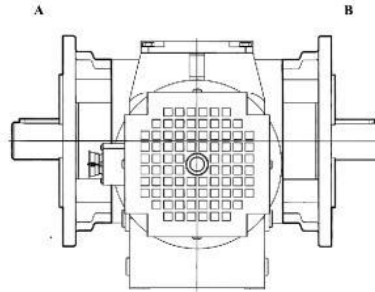
说明:

扭力臂方位 TA 与 TB 是对称的。

Notes:

TA and TB are symmetrical.

5.4.3 法兰或轴指向 / Position of The Output Shaft and Flange



说明:

上图的视图方向为：从电机尾部的风罩向前看。

可提供 A、B 或 A+B 三种输出法兰或输出轴的方位。

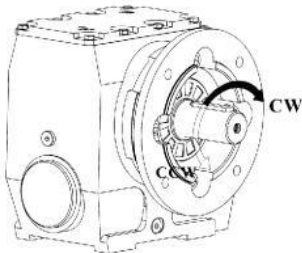
Notes:

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

There are three positions: A or B or A+B.



5.4.4 输出轴旋转方向 / Direction of Rotation of Output Shaft.



说明:

当减速电机带逆止器时，需规定输出轴的旋转方向。

上图中，从输出轴观看，顺时针旋转规定为 CW；逆时针旋转规定为 CCW。

当减速电机采用 A+B 方式输出时（见 5.4.3），需指出给定的旋转方向是从 A 端观看还是从 B 端观看。

Notes:

It is necessary to stipulate the direction of rotation of the output shaft if the drive has a back stop.

For above figure, the following definition applies:

Looking onto the output shaft,

CW = Rotating Clockwise

CCW = Rotation Counter-clockwise

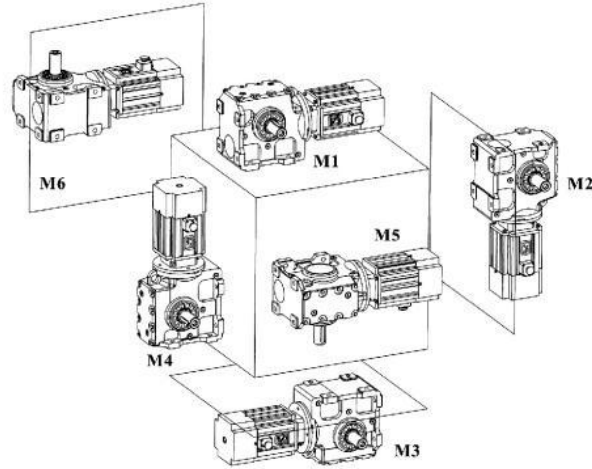
If the position of the output shaft or flange is A-B, it is necessary to stipulate for certain direction of rotation, it was looked on the A or B.

5.4.5 油位符号说明 / Oil Level Symbol Explanation

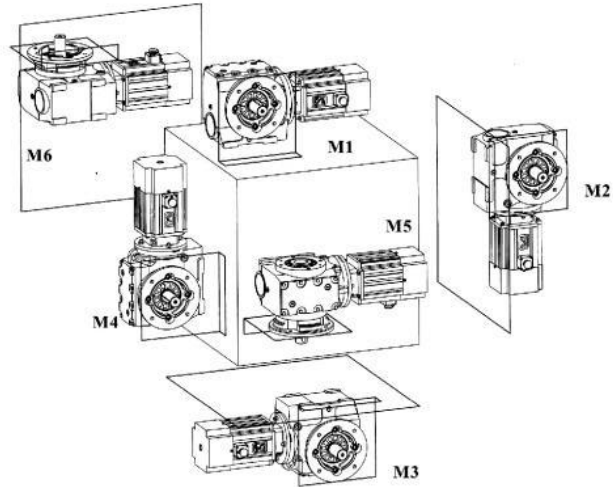
符号 Symbol	含义	Meaning
	通气帽	BREATHER VALVE
	油标	OIL LEVEL PLUG
	排油塞	OIL DRAIN PLUG

5.4.6 安装位置示意 / Mounting Position Designation

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



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





5. 4. 7 安装方位 / Mounting Positions

*→提示:

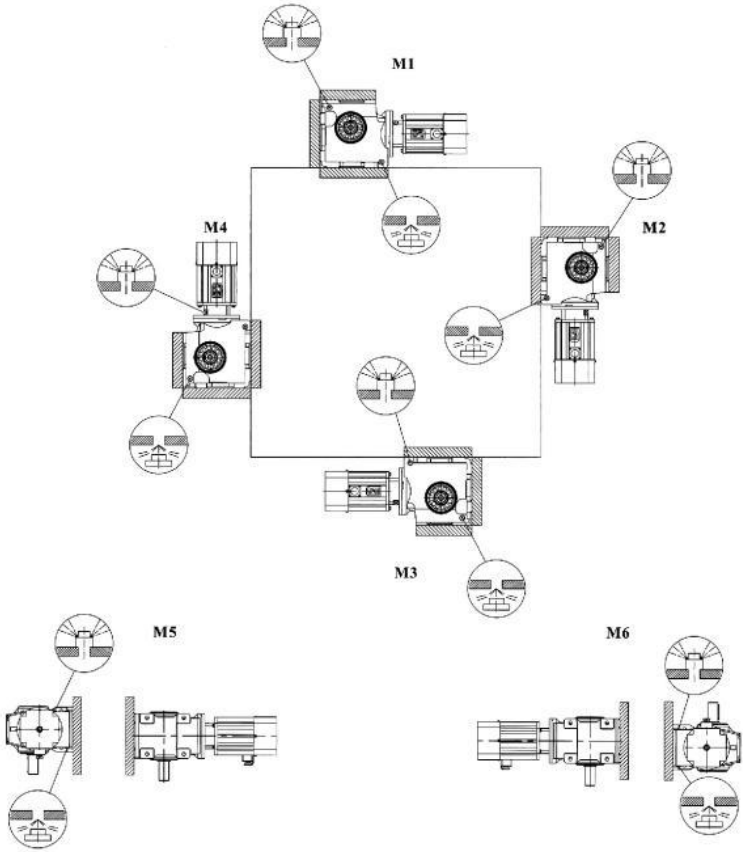
当采用下表列出的安装方式及输入转速时, 齿轮箱会产生不可忽视的搅油损失。请联系本公司。

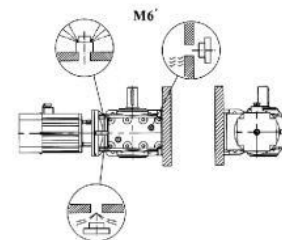
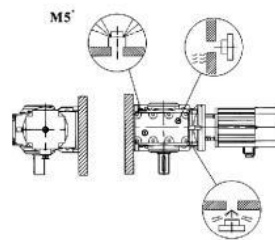
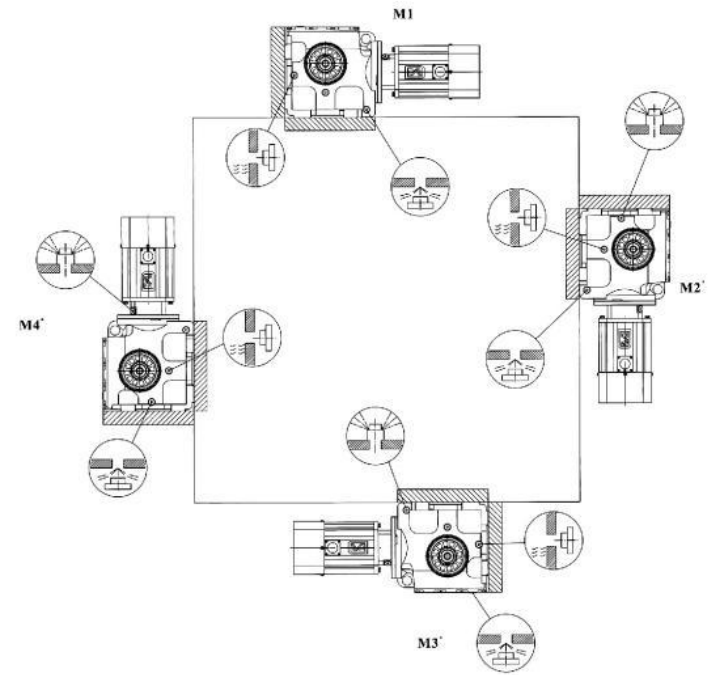
*→Reminder:

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	77-97	>2500

S37

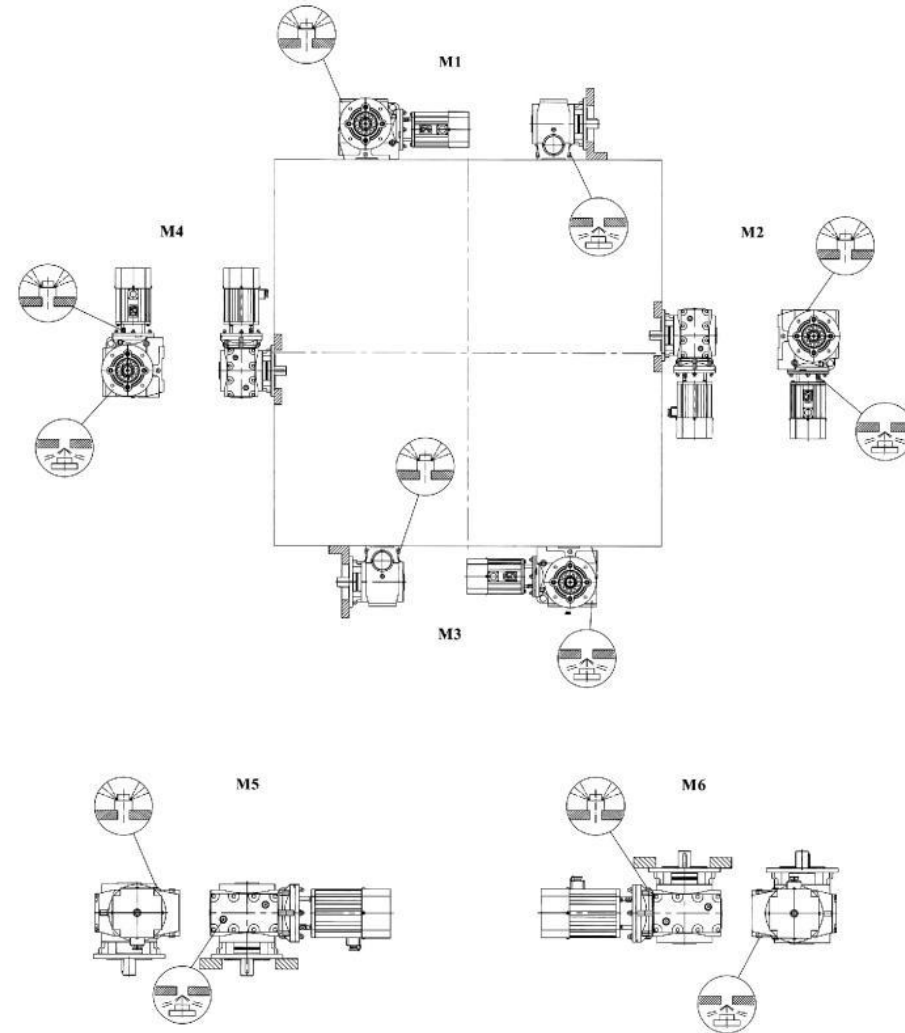




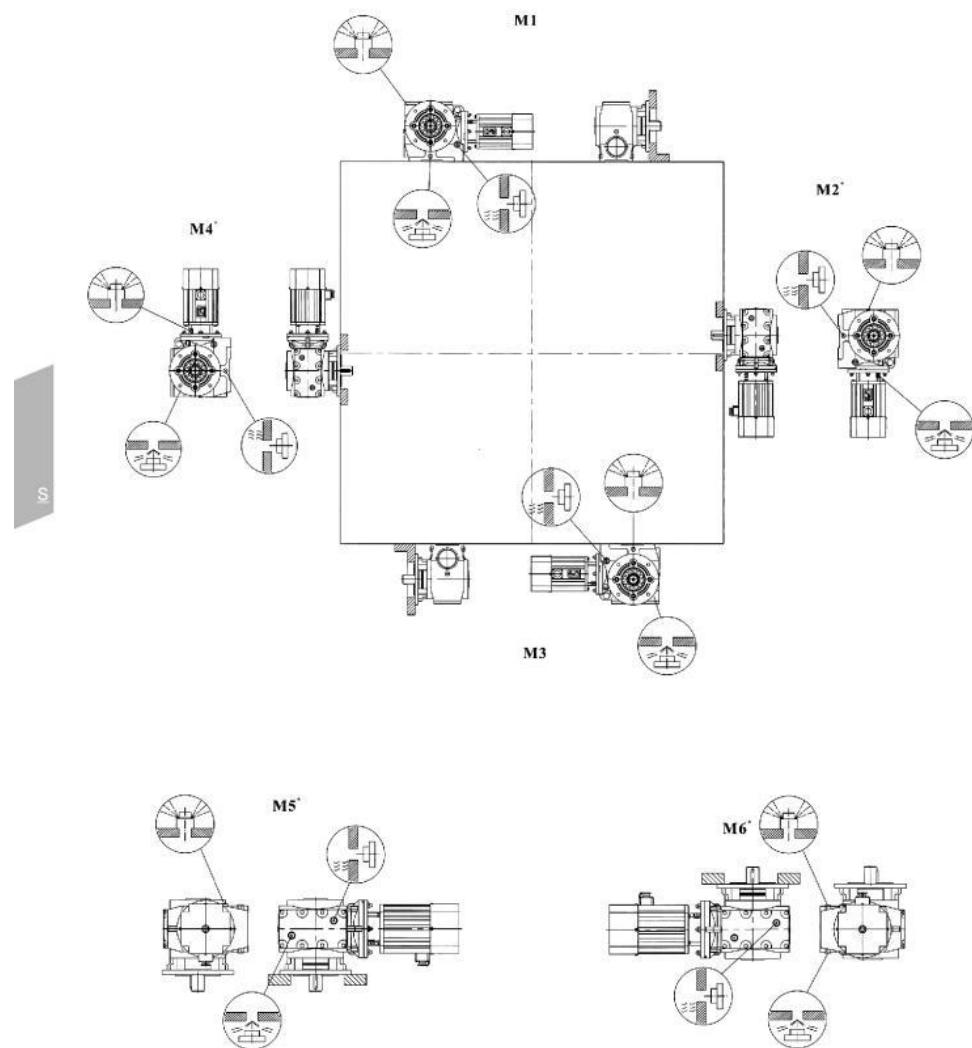
*→page 223



SFF/SEAF/SFHF37



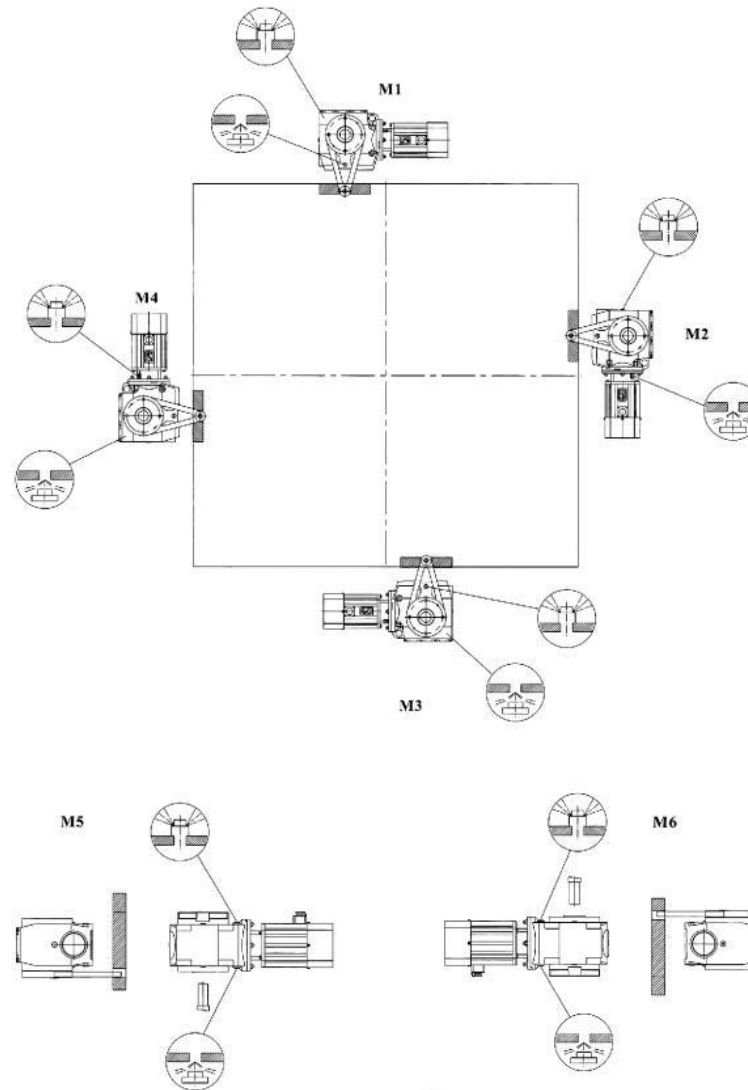
S



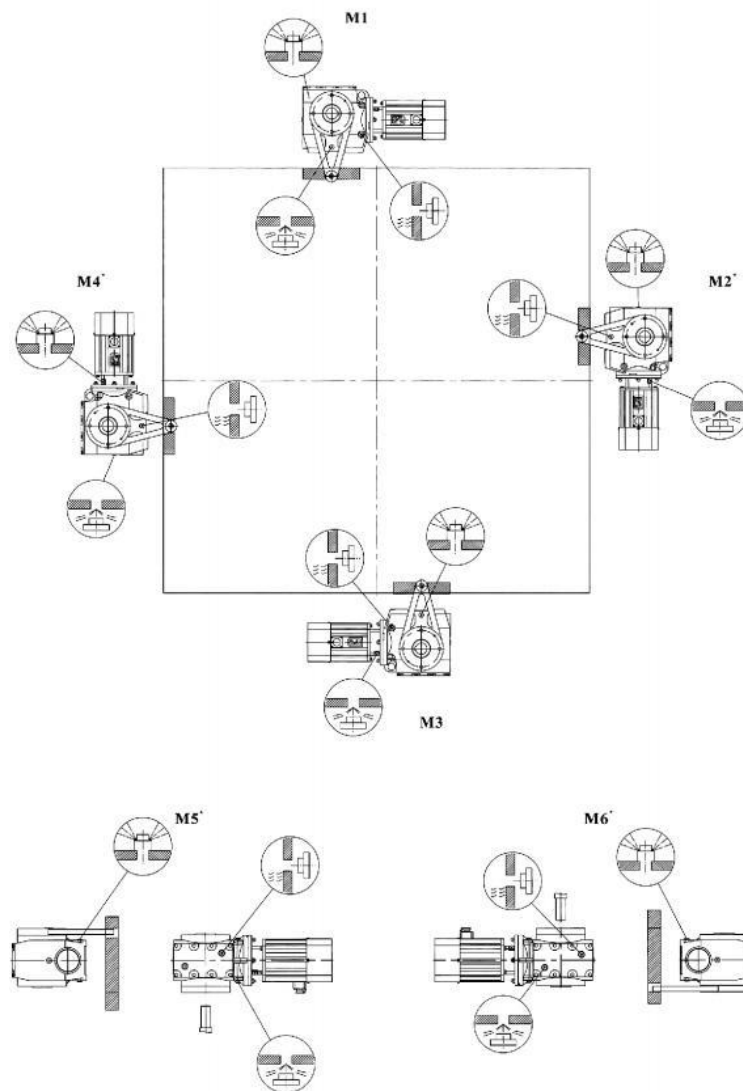
*→page 223



SFA/SFH37/T



* → page 223



* → page 223



5.5 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 S 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 S 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.

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

	RF17	RF27	RF37	RF47	RF57
S..37					
S..47					
S..57					
S..67					
S..77					
S..87					
S..97					

说明：

- ☐ : 表示可能的组合。
☐ : 表示不允许的组合。

Notes:

- ☐ : Possible Combination.
☐ : Impossible Combination.

5.6 S..功率配置 / S..Power Configuration

S37 $n_1=1400$ 1/min 92Nm									
n_2 [1/min]	M_{max} [Nm]	F_r [N]	i	0.12 ~0.55	0.75 1.10				
8.90	92	3000	157.43						
9.70	92	3000	144.40						
11.0	91	3000	122.94						
13.0	88	3000	106.00						
14.0	87	3000	98.80						
16.0	86	3000	86.36						
17.0	85	3000	80.96						
20.0	84	3000	71.44						
22.0	82	3000	63.33						
25.0	81	3000	55.93						
26.0	80	3000	53.83						
27.0	81	3000	51.30						
32.0	81	3000	43.68						
37.0	79	3000	37.66						
40.0	78	3000	35.10						
46.0	76	2860	30.68						
49.0	75	2800	28.76						
55.0	74	2660	25.38						
62.0	73	2530	22.50						
70.0	52	2470	19.89						
73.0	71	2380	19.13						
77.0	52	2380	18.24						
90.0	50	2240	15.53						
105	49	2110	13.39						
112	48	2060	12.48						
128	48	1940	10.91						
137	47	1900	10.23						
155	46	1810	9.02						
175	45	1730	8.00						
206	43	1630	6.80						
221	35	1670	6.33						
260	34	1570	5.38						
288	33	1520	4.86						
353	32	1400	3.97						
S47 $n_1=1400$ 1/min 170Nm									
n_2 [1/min]	M_{max} [Nm]	F_r [N]	i	0.12 ~0.55	0.75 1.10	1.50			
13.0	168	5350	110.73						
15.0	168	5350	94.08						
17.0	167	5360	84.00						
20.0	167	5360	71.75						
20.0	155	5370	69.39						
21.0	167	5360	67.20						
22.0	155	5370	63.80						
25.0	165	5320	56.61						
26.0	155	5150	54.59						
30.0	155	4850	47.32						
32.0	155	4710	44.22						
37.0	155	4420	38.23						
43.0	155	4120	32.48						
48.0	155	3920	29.00						
57.0	155	3650	24.77						
60.0	152	3570	23.20						
69.0	110	3370	20.33						
72.0	144	3370	19.54						
79.0	110	3160	17.62						
85.0	110	3060	16.47						
98.0	110	2850	14.24						
116	109	2650	12.10						
130	109	2500	10.80						
152	109	2310	9.23						
162	109	2230	8.64						
192	103	2110	7.28						
205	78	2300	6.83						
S57 $n_1=1400$ 1/min 295Nm									
n_2 [1/min]	M_{max} [Nm]	F_r [N]	i	0.12 ~0.55	0.75 1.10	1.50	2.20 3.00		
7.00	295	7130	201.00						
7.60	295	7130	184.80						
8.90	295	7130	158.12						
10.0	295	7130	137.05						
11.0	295	7130	128.10						
13.0	295	7130	110.73						
15.0	295	7130	94.08						
17.0	295	7130	84.00						
20.0	290	7170	71.75						
20.0	245	7520	69.39						
21.0	285	7220	67.20						
22.0	245	7520	63.80						

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S57 $n_1=1400$ 1/min 295Nm									
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		
25.0	265	7370	56.61						
26.0	245	7520	54.59						
30.0	245	7520	47.32						
32.0	245	7520	44.22						
37.0	245	7320	38.23						
43.0	245	6840	32.48						
48.0	245	6520	29.00						
57.0	245	6100	24.77						
60.0	245	5930	23.20						
69.0	168	5690	20.33						
72.0	215	5720	19.54						
79.0	168	5350	17.62						
85.0	168	5200	16.47						
98.0	169	4860	14.24						
116	169	4520	12.10						
130	169	4290	10.80						
152	169	3990	9.23						
162	166	3900	8.64						
192	146	3790	7.28						
205	100	4100	6.83						
219	98	4010	6.40						
260	95	3760	5.39						
294	93	3590	4.76						
350	88	3380	4.00						
S67 $n_1=1400$ 1/min 520Nm									
n_1 [1/min]	M_{max} [Nm]	F_r [N]	i	0.25 ~0.55	0.75 1.10	1.50	2.20 3.00	4.00	5.50
6.40	520	8680	217.41						
7.40	520	8680	190.11						
7.80	520	8680	180.60						
8.80	520	8680	158.45						
10.0	520	8680	134.40						
12.0	520	8680	121.33						
13.0	520	8680	106.75						
14.0	520	8680	100.80						
16.0	520	8680	85.83						
18.0	520	8680	78.00						
19.0	480	9020	75.06						
21.0	520	8680	67.57						
21.0	480	9020	65.63						
22.0	480	9020	62.35						
24.0	500	8850	58.80						
26.0	480	8670	54.70						
30.0	480	8060	46.40						

S67 $n_1=1400$ 1/min 520Nm									
n_1 [1/min]	M_{max} [Nm]	F_r [N]	i	0.25 ~0.55	0.75 1.10	1.50	2.20 3.00	4.00	5.50
33.0	480	7690	41.89						
38.0	480	7250	36.85						
40.0	480	7060	34.80						
47.0	480	6540	29.63						
52.0	480	6240	26.93						
57.0	340	6040	24.44						
60.0	480	5810	23.33						
60.0	340	5890	23.22						
69.0	340	5520	20.37						
69.0	425	5760	20.30						
81.0	340	5080	17.28						
90.0	340	4820	15.60						
102	340	4510	13.73						
108	340	4310	12.96						
127	340	3660	11.03						
140	340	3290	10.03						
161	335	2860	8.69						
185	295	3220	7.56						

S77 $n_1=1400$ 1/min 1270Nm									
n_1 [1/min]	M_{max} [Nm]	F_r [N]	i	0.55	0.75 1.10	1.50	2.20 3.00	4.00	5.50 7.50
5.50	1270	11700	256.47						
6.20	1270	11700	225.26						
6.50	1270	11700	214.00						
7.40	1270	11700	189.09						
8.70	1260	11800	161.60						
9.40	1240	12000	148.15						
11.0	1210	12200	130.00						
11.0	1200	12300	123.20						
13.0	1170	12600	107.83						
14.0	1140	12800	97.14						
16.0	1100	13100	85.22						
19.0	1070	12800	75.20						
19.0	1100	11900	75.09						
20.0	1100	11600	71.33						
21.0	1040	12300	66.67						
22.0	1100	10900	63.03						
25.0	990	11600	56.92						
26.0	1100	10100	53.87						
28.0	1100	9650	49.38						
32.0	1100	9010	43.33						
34.0	1100	8750	41.07						
39.0	1100	8140	35.94						
43.0	1090	7720	32.38						

S



S77 $n_1=1400$ 1/min										1270Nm
n_2 [1/min]	M_{tot} [Nm]	F_r [N]	i	0.55	0.75 1.10	1.50	2.20 3.00	4.00	5.50 7.50	
49.0	1050	7370	28.41							
56.0	1020	7010	25.07							
61.0	705	5960	22.89							
63.0	980	6740	22.22							
67.0	705	5380	20.99							
74.0	930	6390	18.97							
76.0	705	4550	18.42							
80.0	710	4120	17.45							
92.0	710	3320	15.28							
102	710	2710	13.76							
116	720	1890	12.07							
131	720	1130	10.65							
148	725	415	9.44							
174	680	440	8.06							

S87 $n_1=1400$ 1/min										2280Nm
n_2 [1/min]	M_{tot} [Nm]	F_r [N]	i	0.75 1.10	1.50	2.20 3.00	4.00	5.50 7.50	11.0 15.0	
4.90	2280	27900	288.00							
5.40	2280	27900	258.18							
6.30	2280	27900	222.40							
6.90	2260	28000	202.96							
7.80	2210	28100	180.00							
9.30	2150	28200	151.30							
10.0	2100	28300	139.05							
11.0	2060	28300	123.48							
13.0	2000	28400	110.40							
14.0	1960	29100	99.26							
15.0	1510	28600	91.20							
16.0	1880	29000	86.15							
17.0	1600	28700	81.76							
18.0	1820	29000	77.14							
20.0	1600	29000	70.43							
22.0	1600	28900	64.27							
22.0	1700	28900	64.00							
25.0	1600	29000	57.00							
29.0	1600	29000	47.91							
32.0	1600	29000	44.03							
36.0	1600	28200	39.10							
40.0	1600	27100	34.96							
45.0	1600	26000	31.43							
51.0	1600	24700	27.28							
55.0	1240	23400	25.50							
57.0	1600	23700	24.43							
65.0	1240	21800	21.43							

S87 $n_1=1400$ 1/min										2280Nm
n_2 [1/min]	M_{tot} [Nm]	F_r [N]	i	0.75 1.10	1.50	2.20 3.00	4.00	5.50 7.50	11.0 15.0	
69.0	1600	22100	20.27							
71.0	1240	21100	19.70							
80.0	1240	20200	17.49							
90.0	1240	19300	15.64							
100	1240	18500	14.06							
115	1240	17400	12.21							
128	1240	16400	10.93							
154	1140	15900	9.07							
178	1010	15700	7.88							

S97 $n_1=1400$ 1/min										4000Nm
n_2 [1/min]	M_{tot} [Nm]	F_r [N]	i	1.50	2.20 3.00	4.00	5.50 7.50	11.0 15.0	18.5 22.0	
4.90	4000	33200	286.40							
5.30	4000	33200	262.22							
6.00	4000	33200	231.67							
7.10	4000	33200	196.52							
7.70	3920	33400	180.95							
8.70	3840	33500	161.74							
9.60	3730	33700	145.60							
11.0	3650	33900	131.85							
12.0	3510	34100	116.92							
13.0	3440	34300	105.71							
16.0	3240	34600	89.60							
17.0	3230	34600	80.85							
18.0	3080	34800	78.26							
20.0	3300	34500	71.43							
21.0	2900	35100	65.45							
23.0	3300	34500	60.59							
25.0	3300	34500	55.79							
28.0	3300	34500	49.87							
31.0	3300	34100	44.89							
34.0	3300	32800	40.65							
39.0	3300	31300	36.05							
43.0	3200	30400	32.60							
51.0	3010	29000	27.63							
53.0	2600	26100	26.39							
58.0	2870	28000	24.13							
59.0	2600	24500	23.59							
66.0	2600	22800	21.23							
73.0	2600	21200	19.23							
82.0	2570	19700	17.05							
91.0	2470	19400	15.42							
107	2330	18800	13.07							
123	2210	18400	11.41							
147	2040	18200	9.55							
169	1770	18800	8.26							



5. 7 S..性能参数 / S.. Performance Parameters

n [1/min]	M _L [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P₁=0.12kw						
0.12	4740	11267	25100	0.90	S	97 RF57
0.14	4330	10078	32500	0.95	SF	97 RF57
0.16	3590	8608	34000	1.15	SA	97 RF57
0.18	3180	7554	34700	1.30	SAF	97 RF57
0.21	2690	6706	27100	0.95	S	87 RF57
0.23	2400	5875	27700	1.05	SF	87 RF57
0.27	1980	5187	28500	1.25	SA	87 RF57
0.30	1760	4606	28800	1.40	SAF	87 RF57
0.36	1460	3872	29200	1.70		
0.39	1370	3540	7240	0.90		
0.45	1200	3098	12300	1.05		
0.58	1320	2374	10600	0.95	S	77 RF37
0.66	1160	2083	12600	1.05	SF	77 RF37
0.76	980	1813	13900	1.25	SA	77 RF37
0.79	930	1745	14200	1.30	SAF	77 RF37
0.86	860	1600	14600	1.45		
0.98	755	1404	15100	1.65		
1.10	660	1245	15500	1.90		
1.20	585	1194	7990	0.95		
1.30	530	1045	8560	1.05		
1.50	455	914	9180	1.25	S	67 RF37
1.70	415	809	9460	1.35	SF	67 RF37
1.90	365	712	9780	1.55	SA	67 RF37
2.20	305	615	10100	1.85	SAF	67 RF37
2.50	275	543	10200	2.10		
2.90	225	469	10400	2.50		
3.30	200	424	10500	2.80		
3.80	187	365	10500	3.00		
2.10	325	655	6800	0.90		
2.40	285	574	7200	1.05	S	57 RF17
2.70	250	506	7480	1.20	SF	57 RF17
3.20	215	438	7700	1.40	SA	57 RF17
3.60	189	388	7850	1.60	SAF	57 RF17
4.10	169	336	7950	1.80		
4.70	145	294	8050	2.10		
5.10	139	269	8070	2.20		
3.20	215	438	5010	0.85		
3.60	189	388	5170	1.00	S	47 RF17
4.10	168	336	5290	1.10	SF	47 RF17
4.70	143	294	5420	1.30	SA	47 RF17
5.40	98	257	5660	1.90	SAF	47 RF17
6.00	118	229	5550	1.55		
6.90	102	200	5610	1.80		
7.40	96	187	5640	1.95		
6.80	103	202	3000	0.90	S	37 RF17
7.70	91	179	3000	1.00	SF	37 RF17
8.70	82	158	3000	1.15	SA	37 RF17
9.60	75	144	3000	1.20	SAF	37 RF17
12.0	61	118	3000	1.50		
13.0	57	110	3000	1.60		
n [1/min]	M _L [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P₁=0.12kw						
6.90	95	201.00	5680	1.80		
7.50	89	184.80	5700	1.90	S	47
8.70	77	158.12	5740	2.20	SF	47
10.0	68	137.05	5780	2.50	SA	47
11.0	64	128.10	5790	2.60	SAF	47
12.0	57	110.73	5810	3.00		
8.80	74	157.43	3000	1.25		
9.60	68	144.40	3000	1.35	S	37
11.0	60	122.94	3000	1.55	SF	37
13.0	52	106.00	3000	1.70	SA	37
14.0	49	98.80	3000	1.75	SAF	37
16.0	44	86.36	3000	1.95		
17.0	41	80.96	3000	2.10		
19.0	37	71.44	3000	2.30	S	37
22.0	33	63.33	3000	2.50	SF	37
25.0	35	55.93	3000	2.30	SA	37
					SAF	37
27.0	33	51.30	3000	2.50		
32.0	28	43.68	3000	2.90		
37.0	24	37.66	3000	3.20		
39.0	23	35.10	3000	3.40	S	37
45.0	20	30.68	3000	3.70	SF	37
48.0	19	28.76	3000	3.90	SA	37
54.0	17	25.38	3000	4.40	SAF	37
61.0	15	22.50	3000	4.80		
69.0	14	19.89	3000	3.60		
76.0	13	18.24	3000	3.90		
89.0	11	15.53	2870	4.40		
P₁=0.18kw						
0.29	3010	4606	19200	0.85		
0.34	2510	3872	27500	1.00		
0.38	2420	3475	27700	1.05	S	87 RF57
0.45	2030	2905	28400	1.25	SF	87 RF57
0.51	1760	2586	28800	1.40	SA	87 RF57
0.57	1570	2335	29100	1.60	SAF	87 RF57
0.64	1360	2054	29300	1.85		
0.72	1200	1824	29500	2.10		
0.81	1080	1631	29600	2.30	S	87 RF57
					SF	87 RF57
					SA	87 RF57
					SAF	87 RF57
0.94	1240	1404	11900	1.00	S	77 RF37
1.10	1090	1245	13200	1.15	SF	77 RF37
					SA	77 RF37
					SAF	77 RF37

n _i [1/min]	M _L [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P₁=0.18kw						
1.20	1020	1100	13700	1.20	S 77 RF37 SF 77 RF37 SA 77 RF37 SAF 77 RF37	Y..63M ₁ -4 AM63 AD2
1.40	870	954	14500	1.40		
1.60	770	837	15000	1.60		
1.80	640	714	15600	1.95		
2.10	565	637	15800	2.20		
2.30	515	574	16000	2.40		
1.90	600	712	7860	0.95	S 67 RF37 SF 67 RF37 SA 67 RF37 SAF 67 RF37	Y..63M ₁ -4 AM63 AD2
2.20	505	615	8800	1.15		
2.40	450	543	9230	1.25		
2.80	375	469	9720	1.50		
3.10	340	424	9930	1.65		
3.60	305	365	10100	1.85		
3.00	355	438	6520	0.85	S 57 RF17 SF 57 RF17 SA 57 RF17 SAF 57 RF17	Y..63M ₁ -4 AM63
3.40	310	388	6970	0.95		
3.90	275	336	7290	1.10		
4.50	235	294	7560	1.25		
4.90	225	269	7650	1.35		
5.80	193	229	7830	1.55		
6.50	174	204	7920	1.75		
7.00	159	187	7990	1.90		
4.50	235	294	4480	0.80	S 47 RF17 SF 47 RF17 SA 47 RF17 SAF 47 RF17	Y..63M ₁ -4 AM63
5.10	162	257	5380	1.15		
5.80	190	229	5170	0.95		
6.60	167	200	5300	1.10		
7.00	156	187	5360	1.20		
8.00	138	165	5450	1.35		
9.00	124	148	5520	1.50		
10.0	110	131	5580	1.70		
4.00	250	217.41	10300	2.20	S 67 SF 67 SA 67 SAF 67	Y..71M ₁ -6 AM71 AD2
4.60	220	190.11	10400	2.50		
4.80	210	180.60	10400	2.60		
4.30	220	201.00	7670	1.35	S 57 SF 57 SA 57 SAF 57	Y..71M ₁ -6 AM71 AD1
4.70	205	184.80	7760	1.45		
5.50	180	158.12	7900	1.65		
6.40	158	137.05	7990	1.85		
6.60	154	201.00	8010	1.90	S 57 SF 57 SA 57 SAF 57	Y..63M ₁ -4 AM63 AD1
7.10	143	184.80	8050	2.10		
8.40	125	158.12	8120	2.40		
9.60	110	137.05	8160	2.70		
4.30	210	201.00	5090	0.85	S 47 SF 47 SA 47 SAF 47	Y..71M ₁ -6 AM71 AD1
4.70	199	184.80	5180	0.90		
5.50	173	158.12	5320	1.00		
6.40	153	137.05	5420	1.10		
6.80	144	128.10	5460	1.20		
6.60	149	201.00	5440	1.15	S 47 SF 47 SA 47 SAF 47	Y..63M ₁ -4 AM63 AD1
7.10	138	184.80	5490	1.25		
8.40	121	158.12	5570	1.40		
9.60	106	137.05	5630	1.60		
10.0	100	128.10	5660	1.65		
12.0	88	110.73	5700	1.90		

n _i [1/min]	M _L [Nm]	i	Fr [N]	K	Frame size		Input Configuration	
P ₁ =0.18kw								
14.0	77	94.08	5750	2.20	S	47	Y..63M ₁ -4 AM63 AD1	
16.0	69	84.00	5770	2.40	SF	47		
18.0	60	71.75	5800	2.80	SA	47		
19.0	69	69.39	5750	2.20	SAF	47		
8.40	115	157.43	3000	0.80	S	37	Y..63M ₁ -4 AM63 AD1	
9.10	107	144.40	3000	0.85		SF		37
11.0	93	122.94	3000	1.00		SA		37
12.0	82	106.00	3000	1.10		SAF		37
13.0	77	98.80	3000	1.15				
15.0	68	86.36	3000	1.25				
16.0	64	80.96	3000	1.30				
18.0	58	71.44	3000	1.45	S	37	Y..63M ₁ -4 AM63 AD1	
21.0	52	63.33	3000	1.60				
24.0	55	55.93	3000	1.45				
26.0	51	51.30	3000	1.60				
30.0	44	43.68	3000	1.85				
35.0	38	37.66	3000	2.10		SF		37
38.0	36	35.10	3000	2.20		SA		37
43.0	32	30.68	3000	2.40		SAF		37
46.0	30	28.76	3000	2.50				
52.0	26	25.38	3000	2.80				
59.0	24	22.50	3000	3.10				
66.0	22	19.89	3000	2.30				
72.0	21	18.24	2940	2.50				
85.0	18	15.53	2810	2.80				
99.0	15	13.39	2700	3.20	SF	37	Y..63M ₁ -4 AM63 AD2	
106	14	12.48	2650	3.40	SA	37		
121	13	10.91	2550	3.80	SAF	37		
129	12	10.23	2500	4.00				
P ₁ =0.25kw								
0.45	2930	2905	22200	0.85	S	87 RF57	Y..71M ₁ -4 AM71 AD2	
0.50	2560	2586	27400	1.00		SF		87 RF57
0.56	2290	2335	27900	1.10		SA		87 RF57
0.63	1990	2054	28400	1.25		SAF		87 RF57
0.71	1770	1824	28800	1.40				
0.80	1580	1631	29100	1.60	S	87 RF57	Y..71M ₁ -4 AM71 AD3	
1.40	930	930	29700	2.70		SAF		87 RF57
1.40	1250	954	11800	1.00	S	77 RF37	Y..71M ₁ -4 AM71 AD2	
1.60	1100	837	13100	1.10		SF		77 RF37
1.80	920	714	14200	1.35		SA		77 RF37
2.00	820	637	14800	1.50		SAF		77 RF37
2.30	745	574	15200	1.65				
2.60	635	499	15600	1.95				
2.40	650	543	6280	0.85	S	67 RF37	Y..71M ₁ -4 AM71 AD2	
2.80	550	469	8390	1.05		SF		67 RF37
3.10	495	424	8880	1.15		SA		67 RF37
3.60	440	365	9320	1.30		SAF		67 RF37
4.10	380	319	9700	1.50				
4.60	335	281	9960	1.70				

DECHI S SERIES



n	M _i	i	Fr	K	Frame size	Input Configuration
[l/min]	[Nm]		[N]			
P _I =0.25kw						
4.40	340	340	6640	0.85	S SF SA SAF	57 RF17 57 RF17 57 RF17 57 RF17
4.80	320	320	6870	0.95		
5.70	275	275	7280	1.10		
6.40	245	245	7490	1.20		
6.90	225	187	7630	1.30		
7.90	200	165	7780	1.50	S SF SA SAF	67 67 67 67
9.90	162	131	7980	1.85		
4.10	340	217.41	9920	1.65		
4.70	300	190.11	10100	1.85		
5.00	290	180.60	10200	1.90		
5.60	255	158.45	10300	2.10	S SF SA SAF	67 67 67 67
6.00	245	217.41	10300	2.10		
6.80	215	190.11	10400	2.40		
7.20	205	180.60	10500	2.50		
8.20	187	158.45	10500	2.80		
9.70	161	134.40	10600	3.20	S SF SA SAF	67 67 67 67
11.0	147	121.33	10600	3.50		
12.0	131	106.75	10700	4.00		
4.40	300	201.00	7080	1.00		
4.80	275	184.80	7270	1.10	S SF SA SAF	57 57 57 57
5.70	240	158.12	7530	1.20		
6.50	210	137.05	7710	1.35		
7.00	200	128.10	7780	1.45		
6.50	215	201.00	7700	1.35	S SF SA SAF	57 57 57 57
7.00	200	184.80	7790	1.45		
8.20	176	158.12	7920	1.70		
9.50	155	137.05	8010	1.90		
10.0	146	128.10	8040	2.00	S SF SA SAF	57 57 57 57
12.0	128	110.73	8110	2.30		
14.0	111	94.08	8160	2.60		
15.0	100	84.00	8190	2.90		
6.50	205	201.00	5120	0.80	S SF SA SAF	47 47 47 47
7.00	194	184.80	5210	0.85		
8.20	170	158.12	5340	1.00		
9.50	150	137.05	5440	1.10		
10.0	141	128.10	5480	1.20	S SF SA SAF	47 47 47 47
12.0	124	110.73	5560	1.35		
14.0	108	94.08	5630	1.55		
15.0	98	84.00	5670	1.70		
18.0	85	71.75	5720	1.95	S SF SA SAF	47 47 47 47
19.0	97	69.39	5640	1.60		
19.0	80	67.20	5740	2.10		
20.0	90	63.80	5670	1.70		
24.0	78	54.59	5720	2.00	S SF SA SAF	37 37 37 37
27.0	68	47.32	5760	2.30		
13.0	108	98.80	3000	0.80		
15.0	96	86.36	3000	0.90		
16.0	91	80.96	3000	0.95	S SF SA SAF	37 37 37 37
18.0	81	71.44	3000	1.05		
21.0	73	63.33	3000	1.10		
23.0	78	55.93	3000	1.05		
25.0	72	51.30	3000	1.15		
30.0	62	43.68	3000	1.30	S SF SA SAF	37 37 37 37
4.30	540	319	8450	1.05		
4.90	475	281	9030	1.20		
5.60	430	246	9380	1.30		
4.30	540	319	8450	1.05	S SF SA SAF	67 RF37 67 RF37 67 RF37 67 RF37
4.90	475	281	9030	1.20		
5.60	430	246	9380	1.30		
4.30	540	319	8450	1.05		
4.90	475	281	9030	1.20		
5.60	430	246	9380	1.30	S SF SA SAF	67 RF37 67 RF37 67 RF37 67 RF37
35.0	54	37.66	3000	1.45		
37.0	51	35.10	3000	1.55		
42.0	45	30.68	3000	1.70		
45.0	42	28.76	3000	1.80		
51.0	37	25.38	3000	2.00		
58.0	33	22.50	3000	2.20		
65.0	32	19.89	2870	1.65		
71.0	29	18.24	2820	1.80		
84.0	25	15.53	2710	2.00		
97.0	22	13.39	2620	2.30		
104	20	12.48	2570	2.40		
119	18	10.91	2480	2.70		
127	17	10.23	2440	2.80		
144	15	9.02	2360	3.10		
162	13	8.00	2280	3.40		
191	191	6.80	2180	3.80		
205	205	6.33	2130	3.30		
241	241	5.38	2030	3.80		
267	267	4.86	1980	4.10		
328	328	3.97	1860	4.80		
92.0	21	28.76	2740	3.00		
105	19	25.38	2650	3.30		
118	17	22.50	2560	3.40		
134	16	19.89	2410	2.80		
146	15	18.24	2350	3.00		
171	12	15.53	2250	3.40		
199	11	13.39	2160	3.80		
213	10	12.48	2120	4.00		
P _I =0.37kw						
0.67	2850	2054	24500	0.90		
0.76	2530	1824	27400	1.00		
0.85	2260	1631	28000	1.10		
1.50	1340	930	29400	1.85		
1.70	1210	831	29500	2.10		
1.90	1310	714	11300	0.95		
2.20	1160	637	12600	1.05		
2.40	1050	574	13400	1.15		
2.80	900	499	14300	1.35		
3.20	795	438	14900	1.55		
3.60	705	389	15300	1.75		
3.80	620	365	7560	0.90		
4.30	540	319	8450	1.05		
4.90	475	281	9030	1.20		
5.60	430	246	9380	1.30		

S

n ₁ [1/min]	M ₂ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P₁=0.37kw						
3.50	635	256.47	15600	2.00	S 77	Y..80M ₁ -6 AM80 AD2
4.00	565	225.26	15800	2.20	SF 77	
4.20	540	214.00	15900	2.30	SA 77	
4.20	540	214.00	15900	2.30	SAF 77	
4.20	500	217.41	8830	1.10	S 67	Y..80M ₁ -6 AM80 AD2
4.80	445	190.11	9280	1.25	SF 67	
5.00	425	180.60	9410	1.30	SA 67	
5.70	380	158.45	9710	1.45	SAF 67	
6.40	345	217.41	9900	1.50	S 67	Y..71M ₁ -4 AM71 AD2
7.30	305	190.11	10100	1.70	SF 67	
7.60	290	180.60	10200	1.75	SA 67	
8.70	260	158.45	10300	2.00	SAF 67	
10.0	225	134.40	10400	2.30	SAF 67	
11.0	205	121.33	10500	2.50		
5.70	355	158.12	6510	0.85	S 57	Y..80M ₁ -6 AM80 AD1
6.60	310	137.05	6950	0.95	SF 57	
7.10	295	128.10	7110	1.00	SA 57	
8.20	260	110.73	7400	1.15	SAF 57	
9.60	225	94.08	7640	1.30		
11.0	205	84.00	7770	1.45		
6.90	300	201.00	7050	0.95	S 57	Y..71M ₁ -4 AM71 AD1
7.50	280	184.80	7230	1.05	SF 57	
8.70	245	158.12	7510	1.20	SA 57	
10.0	215	137.05	7690	1.35	SAF 57	
11.0	205	128.10	7770	1.45		
12.0	180	110.73	7900	1.65		
15.0	156	94.08	8000	1.90		
16.0	141	84.00	8060	2.10		
19.0	122	71.75	8130	2.40	S 57	Y..71M ₁ -4 AM71 AD2
20.0	139	69.39	8070	1.75	SF 57	
21.0	115	67.20	8150	2.50	SA 57	
22.0	128	63.80	8110	1.90	SAF 57	
10.0	210	137.05	5110	0.80	S 47	Y..71M ₁ -4 AM71 AD1
11.0	198	128.10	5180	0.85	SF 47	
12.0	175	110.73	5320	0.95	SA 47	
15.0	151	94.08	5430	1.10	SAF 47	
16.0	137	84.00	5500	1.20		
19.0	119	71.75	5580	1.40		
20.0	136	69.39	5460	1.15		
21.0	112	67.20	5610	1.50		
22.0	126	63.80	5510	1.25		
25.0	109	54.59	5590	1.40		
29.0	96	47.32	5410	1.60		
31.0	90	44.22	5330	1.75		
36.0	78	38.23	5140	2.00		
42.0	67	32.48	4930	2.30	S 47	Y..71M ₁ -4 AM71 AD2
48.0	60	29.00	4790	2.60	SF 47	
56.0	52	24.77	4590	3.00	SA 47	
59.0	49	23.20	4510	3.10	SAF 47	
68.0	46	20.33	4180	2.40		
78.0	40	17.62	4030	2.80		
84.0	37	16.47	3960	3.00		

n ₁ [1/min]	M ₂ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P₁=0.37kw						
22.0	103	63.33	3000	0.80		S 37 SF 37 SA 37 SAF 37 Y..71M ₁ -4 AM71 AD1
27.0	101	51.30	3000	0.80		
32.0	87	43.68	3000	0.95		
37.0	76	37.66	3000	1.05		
39.0	71	35.10	3000	1.10		
45.0	62	30.68	3000	1.20		
48.0	59	28.76	3000	1.30		
54.0	52	25.38	2940	1.40		
61.0	47	22.50	2870	1.55		
69.0	44	19.89	2610	1.20		
76.0	41	18.24	2570	1.30		S 37 SF 37 SA 37 SAF 37 Y..71M ₁ -4 AM71 AD2
89.0	35	15.53	2500	1.45		
103	30	13.39	2420	1.60		
111	28	12.48	2390	1.70		
126	25	10.91	2320	1.95		
135	23	10.23	2280	2.00		
153	21	9.02	2220	2.20		
172	18	8.00	2150	2.40		
203	16	6.80	2070	2.70		
218	15	6.33	2020	2.40		
256	12	5.38	1930	2.70		S 37 SF 37 SA 37 SAF 37 Y..71M ₁ -2 AM71 AD1
284	11	4.86	1880	2.90		
348	9.3	3.97	1780	3.40		
104	28	25.38	2540	2.20		
118	25	22.50	2460	2.30		
133	24	19.89	2290	1.85		S 37 SF 37 SA 37 SAF 37 Y..71M ₁ -2 AM71 AD2
145	22	18.24	2240	2.00		
171	19	15.53	2160	2.30		
198	16	13.39	2080	2.60		
212	15	12.48	2040	2.70		
243	13	10.91	1970	3.00		S 87 RF57 SF 87 RF57 SA 87 RF57 SAF 87 RF57 Y..80M ₁ -4 AM80 AD3
259	12	10.23	1940	3.10		
294	11	9.02	1870	3.30		
1.00	2800	1332	25400	0.90		
1.20	2530	1191	27400	1.00		
1.30	2200	1032	28100	1.15		S 77 RF37 SF 77 RF37 SA 77 RF37 SAF 77 RF37 Y..80M ₁ -4 AM80 AD2
1.50	2030	930	28400	1.25		
1.70	1840	831	28700	1.35		
1.90	1600	719	29000	1.55		
2.20	1390	624	29300	1.80		
2.50	1260	558	29400	2.00		S 67 RF37 SF 67 RF37 SA 67 RF37 SAF 67 RF37 Y..80M ₁ -4 AM80 AD2
3.20	1010	435	29700	2.40		
3.20	1200	438	12300	1.05		
3.60	1070	389	13300	1.15		
4.20	900	327	14400	1.35		
4.80	810	289	14800	1.50		S 67 RF37 SF 67 RF37 SA 67 RF37 SAF 67 RF37 Y..80M ₁ -4 AM80 AD2
5.50	705	250	15300	1.75		
5.60	645	246	6520	0.90		
6.20	580	221	8080	1.00		
7.00	525	198	8590	1.10		S 67 RF37 SF 67 RF37 SA 67 RF37 SAF 67 RF37 Y..80M ₁ -4 AM80 AD2
8.20	450	168	9220	1.25		

DECHI S SERIES



n	M _L	i	Fr	K	Frame size	Input Configuration
[l/min]	[Nm]		[N]			
P ₁ =0.55kw						
3.20	1110	288.00	29600	2.20	S 87	Y..80M..-6 AM80 AD2
3.50	1000	258.18	29700	2.40	SF 87	
4.10	880	222.40	29800	2.70	SA 87	
4.50	810	202.96	29800	2.90	SAF 87	
3.60	940	256.47	14200	1.35	S 77	Y..80M..-6 AM80 AD2
4.10	830	225.26	14700	1.50	SF 77	
4.30	800	214.00	14900	1.60	SA 77	
4.80	715	189.09	15300	1.75	SAF 77	
5.70	620	161.60	15600	2.00		
5.40	650	256.47	15500	1.95	S 77	Y..80M..-4 AM80 AD2
6.10	580	225.26	15800	2.20	SF 77	
6.40	550	214.00	15900	2.30	SA 77	
7.30	495	189.09	16000	2.60	SAF 77	
6.40	515	217.41	8720	1.00		Y..80M..-4 AM80 AD2
7.30	455	190.11	9190	1.15		
7.60	435	180.60	9340	1.20		
8.70	385	158.45	9650	1.35	S 67	
10.0	335	134.40	9950	1.55	SF 67	
11.0	305	121.33	10100	1.70	SA 67	
13.0	270	106.75	10200	1.90	SAF 67	
14.0	255	100.80	10300	2.00		
16.0	220	85.83	10400	2.30		
18.0	225	75.06	10400	2.10		
21.0	200	65.63	10500	2.40		
9.70	330	94.08	6760	0.90	S 57	Y..80M..-6 AM80 AD1
11.0	300	84.00	7070	1.00	SF 57	
					SA 57	
					SAF 57	
13.0	260	71.75	7390	1.10	S 57	Y..80M..-6 AM80 AD2
14.0	245	67.20	7500	1.20	SF 57	
17.0	240	54.59	7540	1.10	SA 57	
19.0	210	47.32	7730	1.30	SAF 57	
21.0	199	44.22	7800	1.35		
24.0	173	38.23	7930	1.55		
8.70	365	158.12	6390	0.80	S 57	Y..80M..-4 AM80 AD1
10.0	320	137.05	6860	0.90	SF 57	
11.0	300	128.10	7040	0.95	SA 57	
12.0	265	110.73	7350	1.10	SAF 57	
15.0	230	94.08	7600	1.25		
16.0	205	84.00	7740	1.40		
19.0	182	71.75	7890	1.60		Y..80M..-4 AM80 AD2
21.0	172	67.20	7940	1.65		
25.0	165	54.59	7970	1.50		
29.0	144	47.32	8050	1.70	S 57	
31.0	135	44.22	8080	1.80	SF 57	
36.0	118	38.23	8140	2.10	SA 57	
42.0	101	32.48	7940	2.40	SAF 57	
48.0	91	29.00	7690	2.70		
56.0	78	24.77	7360	3.10		
59.0	74	23.20	7220	3.30		
68.0	68	20.33	6740	2.50		
16.0	200	84.00	5160	0.80	S 47	Y..80M..-4 AM80 AD1
19.0	177	71.75	5310	0.95	SF 47	
21.0	167	67.20	5360	1.00	SA 47	
25.0	162	54.59	5120	0.95	SAF 47	
29.0	142	47.32	5000	1.10		
31.0	133	44.22	4940	1.15		
36.0	116	38.23	4800	1.35		Y..80M..-4 AM80 AD2
42.0	100	32.48	4640	1.55		
48.0	90	29.00	4530	1.75		
56.0	77	24.77	4360	2.00	S 47	
59.0	73	23.20	4300	2.10	SF 47	
68.0	68	20.33	3910	1.60	SA 47	
78.0	59	17.62	3790	1.85	SAF 47	
84.0	56	16.47	3740	2.00		
97.0	48	14.24	3620	2.30		
114	41	12.10	3480	2.60		
128	37	10.80	3390	3.00		
150	32	9.23	3260	3.40		
45.0	93	30.68	2680	0.80	S 37	Y..80M..-4 AM80 AD1
48.0	87	28.76	2660	0.85	SF 37	
54.0	78	25.38	2630	0.95	SA 37	
61.0	69	22.50	2590	1.05	SAF 37	
89.0	52	15.53	2230	0.95		
103	45	13.39	2190	1.10		
72.0	60	19.13	2530	1.20		Y..80M..-4 AM80 AD2
111	42	12.48	2170	1.15		
126	37	10.91	2130	1.30		
135	35	10.23	2110	1.35	S 37	
153	31	9.02	2060	1.50	SF 37	
172	27	8.00	2010	1.65	SA 37	
203	23	6.80	1950	1.85	SAF 37	
218	22	6.33	1900	1.60		
256	19	5.38	1830	1.85		
284	17	4.86	1790	1.95		
348	14	3.97	1700	2.30		
98.0	45	28.76	2400	1.45		Y..71M..-2 AM71 AD1
111	40	25.38	2340	1.55		
125	35	22.50	2290	1.60		
141	33	19.89	2090	1.35	S 37	
154	30	18.24	2060	1.45	SF 37	
181	26	15.53	2000	1.60	SA 37	
210	23	13.39	1930	1.80	SAF 37	
225	21	12.48	1900	1.90		
258	18	10.91	1850	2.10		
275	17	10.23	1820	2.20		
311	15	9.02	1770	2.30		
351	14	8.00	1710	2.60		
413	12	6.80	1640	2.50		
P ₁ =0.75kw						
1.20	4710	1223	23400	0.90	S 97 RF57	Y..80M..-4 AM80 AD2
1.30	4130	1070	32200	1.00	SF 97 RF57	
1.60	3550	928	34000	1.20	SA 97 RF57	
1.70	3140	824	34700	1.35	SA 97 RF57	

S



n_1 [1/min]	M_1 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
P₁=0.75kw						
2.00	2240	714	35900	1.85	S 97 RF57	Y..80M ₁ -4 AM80 AD3
2.30	2380	626	35800	1.75	SF 97 RF57	
2.70	2040	538	36100	2.00	SA 97 RF57	
3.00	1850	484	36300	2.30	SAF 97 RF57	
1.40	2940	1032	21700	0.85	S 87 RF57 SF 87 RF57 SA 87 RF57 SAF 87 RF57	Y..80M ₁ -4 AM80 AD3
1.50	2710	930	27000	0.90		
1.70	2450	831	27600	1.00		
2.00	2130	719	28200	1.15		
2.30	1860	624	28700	1.35		
2.60	1680	558	28900	1.50		
3.30	1340	435	29300	1.80		
4.40	1030	323	29700	2.30		
4.40	1200	327	12300	1.05	S 77 RF37	Y..80M ₁ -4 AM80 AD2
5.00	1080	289	13200	1.15	SF 77 RF37	
5.70	930	250	14200	1.30	SA 77 RF37	
6.60	820	219	14800	1.50	SAF 77 RF37	
3.30	1480	288.00	29200	1.65	S 87	Y..90S-6 AM90 AD2
3.60	1340	258.18	29400	1.80	SF 87	
4.20	1170	222.40	29500	2.00	SA 87	
4.60	1080	202.96	29600	2.20	SAF 87	
5.00	1010	288.00	29700	2.20	S 87	Y..80M ₁ -4 AM80 AD2
5.60	910	258.18	29800	2.50	SF 87	
6.40	800	222.40	29800	2.80	SA 87	
7.10	735	202.96	29900	3.10	SAF 87	
4.20	1110	225.26	13000	1.15	S 77	Y..90S-6 AM90 AD2
4.40	1060	214.00	13400	1.20	SF 77	
5.00	950	189.09	14100	1.35	SA 77	
5.80	820	161.60	14800	1.55	SAF 77	
5.60	850	256.47	14600	1.50	S 77 SF 77 SA 77 SAF 77	Y..80M ₁ -4 AM80 AD2
6.40	760	225.26	15100	1.65		
6.70	730	214.00	15200	1.75		
7.60	650	189.09	15500	1.95		
8.90	565	161.60	15800	2.20		
9.70	520	148.15	16000	2.40		
11.0	460	130.00	16000	2.60		
12.0	440	123.20	16000	2.70		
13.0	390	107.83	16000	3.00		
7.60	600	190.11	7820	0.85	S 67 SF 67 SA 67 SAF 67	Y..80M ₁ -4 AM80 AD2
8.00	575	180.60	8120	0.90		
9.10	510	158.45	8740	1.00		
11.0	440	134.40	9300	1.15		
12.0	400	121.33	9560	1.30		
13.0	360	106.75	9820	1.45		
14.0	340	100.80	9920	1.50		
17.0	295	85.83	10100	1.75		
19.0	300	75.06	10100	1.60		
22.0	260	65.63	10300	1.80		
23.0	250	62.35	10300	1.90		
26.0	220	54.70	10200	2.20		
31.0	191	46.40	9740	2.50		

n_1 [1/min]	M_1 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
P₁=0.75kw						
13.0	345	71.75	6590	0.85	S 57 SF 57 SA 57 SAF 57	Y..90S-6 AM90 AD2
14.0	330	67.20	6800	0.90		
17.0	280	56.61	7230	1.05		
20.0	280	47.32	7250	0.95		
21.0	260	44.22	7380	1.00		
13.0	350	110.73	6550	0.85	S 57 SF 57 SA 57 SAF 57	Y..80M ₁ -4 AM80 AD1
15.0	305	94.08	7040	0.95		
17.0	275	84.00	7290	1.05		
20.0	235	71.75	7560	1.20		
21.0	225	67.20	7640	1.25	S 57 SF 57 SA 57 SAF 57	Y..80M ₁ -4 AM80 AD2
26.0	215	54.59	7700	1.15		
30.0	190	47.32	7850	1.30		
32.0	178	44.22	7910	1.40		
38.0	155	38.23	7910	1.60		
44.0	133	32.48	7590	1.85		
49.0	119	29.00	7380	2.00		
58.0	103	24.77	7080	2.40		
62.0	96	23.20	6950	2.50		
71.0	90	20.33	6420	1.90		
81.0	78	17.62	6200	2.20		
87.0	73	16.47	6100	2.30		
101	64	14.24	5870	2.70		
30.0	187	47.32	4510	0.85	S 47 SF 47 SA 47 SAF 47	Y..80M ₁ -4 AM80 AD1
32.0	175	44.22	4480	0.90		
38.0	153	38.23	4400	1.00		
44.0	131	32.48	4290	1.20		
49.0	118	29.00	4200	1.30	S 47 SF 47 SA 47 SAF 47	Y..80M ₁ -4 AM80 AD2
58.0	102	24.77	4080	1.55		
62.0	96	23.20	4030	1.60		
71.0	89	20.33	3590	1.25		
81.0	78	17.62	3510	1.40		
87.0	73	16.47	3470	1.50		
101	63	14.24	3380	1.75		
119	54	12.10	3280	2.00		
133	48	10.80	3200	2.20		
156	42	9.23	3090	2.60	S 47 SF 47 SA 47 SAF 47	Y..80M ₁ -4 AM80 AD2
166	39	8.64	3040	2.80		
197	33	7.28	2920	3.10		
224	29	6.40	2810	2.60		
266	25	5.39	2690	3.00		
301	22	4.76	2610	3.30		
359	18	4.00	2490	3.30		
75.0	78	19.13	2260	0.90	S 37 SF 37 SA 37 SAF 37	Y..80M ₁ -4 AM80 AD2
115	55	12.48	1930	0.85		
132	48	10.91	1910	1.00		
140	46	10.23	1900	1.05		
159	40	9.02	1880	1.15		
179	36	8.00	1850	1.25		
211	31	6.80	1800	1.40		
227	29	6.33	1760	1.20		

DECHI S SERIES



n _i [l/min]	M _i [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P_i=0.75kw						
267	24	5.38	1710	1.40	S 37	Y..80M..-4
295	22	4.86	1680	1.50	SF 37	AM80
362	18	3.97	1610	1.75	SA 37	AD2
					SAF 37	
151	40	19.13	2060	1.10	S 37	Y..80M..-2
216	30	13.39	1800	1.35	SF 37	AM80
232	28	12.48	1780	1.45	SA 37	AD2
265	24	10.91	1730	1.60	SAF 37	
283	23	10.23	1710	1.65		
320	20	9.02	1670	1.75		
361	18	8.00	1630	1.95		
425	16	6.80	1570	1.85		
186	35	15.53	1840	1.20	S 37	Y..80M..-2
					SF 37	AM80
					SA 37	AD1
					SAF 37	
P_i=1.10kw						
1.70	4700	824	23500	0.90	S 97 RF57	Y..90S-4
					SF 97 RF57	AM90
					SA 97 RF57	AD2
					SAF 97 RF57	
2.00	3360	714	34400	1.25	S 97 RF57	Y..90S-4
2.30	3570	626	34000	1.15	SF 97 RF57	AM90
2.60	3070	538	34800	1.35	SA 97 RF57	AD3
2.90	2780	484	35300	1.50	SAF 97 RF57	
3.40	2410	420	35700	1.75		
2.30	2800	624	25500	0.90	S 87 RF57	Y..90S-4
2.60	2530	558	27400	1.00	SF 87 RF57	AM90
2.90	2230	485	28000	1.10	SA 87 RF57	AD3
3.30	2030	435	28400	1.20	SAF 87 RF57	
3.80	1780	378	28800	1.35		
4.40	1550	323	29100	1.55		
5.00	1360	281	29300	1.75		
5.60	1450	255	29200	1.35		
6.40	1270	222	29400	1.55		
6.90	1190	205	29500	1.65		
6.50	1230	219	12000	1.00	S 77 RF37	Y..90S-4
					SF 77 RF37	AM90
					SA 77 RF37	AD2
					SAF 77 RF37	
3.30	2260	286.40	35900	1.85	S 97	Y..90L-6
3.60	2080	262.22	36100	2.00	SF 97	AM90
4.10	1860	231.67	36300	2.20	SA 97	AD3
					SAF 97	
3.60	1970	258.18	28500	1.25	S 87	Y..90L-6
4.20	1720	222.40	28900	1.40	SF 87	AM90
4.60	1580	202.96	29100	1.50	SA 87	AD2
					SAF 87	
P_i=1.10kw						
4.90	1490	288.00	29200	1.50	S 87	Y..90S-4
5.50	1350	258.18	29300	1.70	SF 87	AM90
6.40	1180	222.40	29500	1.90	SA 87	AD2
7.00	1080	202.96	29600	2.10	SAF 87	
7.90	970	180.00	29700	2.30		
9.40	830	151.30	29800	2.60		
6.30	1130	225.26	12900	1.10	S 77	Y..90S-4
6.60	1080	214.00	13300	1.15	SF 77	AM90
7.50	960	189.09	14000	1.30	SA 77	AD2
8.80	830	161.60	14700	1.50	SAF 77	
9.60	775	148.15	15000	1.60		
11.0	685	130.00	15400	1.75		
12.0	655	123.20	15500	1.85		
13.0	575	107.83	15800	2.00		
15.0	525	97.14	15900	2.20		
17.0	465	85.22	16000	2.40		
12.0	595	121.33	7880	0.85	S 67	Y..90S-4
13.0	530	106.75	8550	0.95	SF 67	AM90
14.0	505	100.80	8800	1.05	SA 67	AD2
17.0	435	85.83	9340	1.20	SAF 67	
18.0	400	78.00	9580	1.30		
22.0	390	65.63	9640	1.20		
23.0	370	62.35	9750	1.30		
26.0	330	54.70	9540	1.45		
31.0	280	46.40	9210	1.70		
34.0	255	41.89	9010	1.85		
39.0	225	36.85	8750	2.10		
41.0	215	34.80	8630	2.20		
48.0	185	29.63	8300	2.60		
20.0	350	71.75	6530	0.80	S 57	Y..90S-4
21.0	330	67.20	6750	0.85	SF 57	AM90
25.0	285	56.61	7210	0.95	SA 57	AD2
30.0	280	47.32	7250	0.85	SAF 57	
32.0	260	44.22	7390	0.95	S 57	Y..90S-4
37.0	225	38.23	7390	1.05	SF 57	AM90
44.0	197	32.48	7150	1.25	SA 57	AD2
49.0	177	29.00	6980	1.40	SAF 57	
57.0	152	24.77	6740	1.60		
61.0	143	23.20	6640	1.70		
73.0	121	19.54	6370	1.75		
81.0	116	17.62	5850	1.45		
86.0	108	16.47	5770	1.55		
100	94	14.24	5590	1.80		
117	80	12.10	5380	2.10		
131	72	10.80	5240	2.40		
154	62	9.23	5040	2.70		
49.0	175	29.00	3720	0.90	S 47	Y..90S-4
57.0	151	24.77	3660	1.05	SF 47	AM90
61.0	142	23.20	3640	1.05	SA 47	AD2
73.0	120	19.54	3560	1.20	SAF 47	
81.0	115	17.62	3070	0.95		
86.0	108	16.47	3060	1.00		
100	94	14.24	3030	1.15		
117	80	12.10	2980	1.35		



n _i [1/min]	M _i [Nm]	i	Fr [N]	K	Frame size		Input Configuration			
P _i =1.10kw										
131	72	10.80	2930	1.50	S SF SA SAF	47 47 47 47	Y..90S-4 AM90 AD2			
154	62	9.23	2860	1.75						
164	58	8.64	2830	1.90						
195	49	7.28	2740	2.10						
222	44	6.40	2650	1.75						
263	37	5.39	2560	2.00						
298	32	4.76	2490	2.20	S SF SA SAF	37 37 37 37	Y..90S-4 AM90 AD2			
355	27	4.00	2390	2.20						
178	53	8.00	1580	0.85						
209	45	6.80	1580	0.95						
224	42	6.33	1540	0.80						
264	36	5.38	1520	0.95						
292	33	4.86	1510	1.00	S SF SA SAF	37 37 37 37	Y..80M-2 AM80 AD2			
358	27	3.97	1470	1.20						
214	44	13.39	1580	0.95						
230	41	12.48	1570	0.95						
263	36	10.91	1560	1.10						
281	34	10.23	1550	1.10						
318	30	9.02	1520	1.20	S SF SA SAF	37 37 37 37	Y..80M-2 AM80 AD2			
359	27	8.00	1500	1.30						
422	23	6.80	1460	1.25						
P _i =1.50kw										
2.00	4580	714	29300	0.90	S SF SA SAF	97 RF57 97 RF57 97 RF57 97 RF57	Y..90L-4 AM90 AD3			
2.30	4870	626	19700	0.85						
2.70	4200	538	31300	1.00						
3.00	3790	484	33600	1.10						
3.40	3300	420	34500	1.25						
3.80	2980	376	35000	1.40						
4.40	2610	327	35500	1.60	S SF SA SAF	87 RF57 87 RF57 87 RF57 87 RF57	Y..90L-4 AM90 AD3			
3.00	3050	485	17700	0.80						
3.30	2770	435	26100	0.90						
3.80	2440	378	27600	1.00						
4.40	2120	323	28200	1.15						
5.10	1860	281	28700	1.30						
5.60	1990	255	28400	1.00	S SF SA SAF	97 97 97 97	Y..100L-6 AM100 AD3			
6.40	1740	222	28800	1.15						
7.00	1620	205	29000	1.20						
3.30	3080	286.40	34800	1.35						
3.60	2840	262.22	35200	1.45						
4.10	2540	231.67	35600	1.65	S SF SA SAF	97 97 97 97	Y..100L-6 AM100 AD3			
4.80	2190	196.52	36000	1.90						
5.00	2100	286.40	36100	1.90						
5.40	1940	262.22	36200	2.10						
6.20	1730	231.67	36400	2.30	S SF SA SAF	97 97 97 97	Y..90L-4 AM90 AD3			
7.30	1480	196.52	36600	2.70						
3.60	2680	258.18	27100	0.90				S SF SA SAF	87 87 87 87	Y..100L-6 AM100 AD2
4.20	2340	222.40	27800	1.00						
4.60	2160	202.96	28200	1.10						
5.20	1930	180.00	28500	1.20						

n _i [1/min]	M _i [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P _i =1.50kw						
5.00	2030	288.00	28400	1.10	S 87 SF 87 SA 87 SAF 87	Y..90L-4 AM90 AD2
5.50	1830	258.18	28700	1.25		
6.40	1600	222.40	29000	1.40		
7.00	1470	202.96	29200	1.55		
7.90	1320	180.00	29400	1.65		
9.40	1120	151.30	29600	1.90		
10.0	1040	139.05	29700	2.00	S 77 SF 77 SA 77 SAF 77	Y..90L-4 AM90 AD2
12.0	930	123.48	29700	2.20		
13.0	840	110.40	29800	2.40		
14.0	760	99.26	29900	2.60		
7.60	1310	189.09	11300	0.95		
8.80	1130	161.60	12800	1.10	S 77 SF 77 SA 77 SAF 77	Y..90L-4 AM90 AD2
9.60	1050	148.15	13500	1.20		
11.0	930	130.00	14200	1.30		
12.0	880	123.20	14500	1.35		
13.0	785	107.83	15000	1.50		
15.0	710	97.14	15300	1.60		
17.0	630	85.22	15400	1.75	S 67 SF 67 SA 67 SAF 67	Y..90L-4 AM90 AD2
19.0	635	75.09	14100	1.70		
20.0	605	71.33	14000	1.80		
21.0	500	66.67	14500	2.10		
23.0	540	63.03	13600	2.00		
25.0	430	56.92	14000	2.30		
27.0	465	53.87	13200	2.40	S 67 SF 67 SA 67 SAF 67	Y..90L-4 AM90 AD2
29.0	425	49.38	12900	2.60		
33.0	375	43.33	12500	2.90		
17.0	590	85.83	7940	0.90		
18.0	540	78.00	8460	0.95		
22.0	530	65.63	8570	0.90	S 67 SF 67 SA 67 SAF 67	Y..90L-4 AM90 AD2
23.0	505	62.35	8800	0.95		
26.0	445	54.70	8790	1.05		
31.0	380	46.40	8570	1.25		
34.0	345	41.89	8420	1.40		
39.0	305	36.85	8230	1.55		
41.0	290	34.80	8140	1.65	S 57 SF 57 SA 57 SAF 57	Y..90L-4 AM90 AD2
48.0	250	29.63	7880	1.90		
53.0	225	26.93	7720	2.10		
59.0	215	24.44	6990	1.55		
62.0	205	23.22	6930	1.65		
70.0	184	20.37	6770	1.85		
83.0	157	17.28	6560	2.20	S 57 SF 57 SA 57 SAF 57	Y..90L-4 AM90 AD2
92.0	142	15.60	6420	2.40		
104	125	13.73	6240	2.70		
44.0	265	32.48	6620	0.90		
49.0	235	29.00	6500	1.00		
58.0	205	24.77	6330	1.20		
62.0	194	23.20	6250	1.25	S 57 SF 57 SA 57 SAF 57	Y..90L-4 AM90 AD2
73.0	164	19.54	6040	1.30		
81.0	157	17.62	5420	1.05		
87.0	147	16.47	5360	1.15		
100	128	14.24	5240	1.35		
118	109	12.10	5080	1.55		
132	98	10.80	4970	1.75	S 57 SF 57 SA 57 SAF 57	Y..90L-4 AM90 AD2
155	84	9.23	4800	2.00		

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n	M _L	i	Fr	K	Frame size	Input Configuration
[1/min]	[Nm]		[N]			
P₁=1.50kw						
100	127	14.24	2620	0.85	S 47	Y..90L-4
118	108	12.10	2620	1.00	SF 47	AM90
132	97	10.80	2620	1.10	SA 47	AD2
155	83	9.23	2590	1.30	SAF 47	
166	78	8.64	2580	1.40		
196	66	7.28	2530	1.55	S 47	Y..90L-4
223	59	6.40	2450	1.30	SF 47	AM90
265	50	5.39	2390	1.50	SA 47	AD2
300	44	4.76	2340	1.65	SAF 47	
358	37	4.00	2260	1.65		
314	42	9.02	1350	0.85	S 47	Y..90S-2
354	37	8.00	1350	0.95	SF 47	AM90
416	32	6.80	1330	0.90	SA 47	AD2
SAF 47						
P₁=2.20kw						
3.40	4890	420	19000	0.85	S 97 RF57	Y..100L-4
3.80	4410	376	28300	0.95	SF 97 RF57	AM100
4.40	3870	327	33400	1.10	SA 97 RF57	AD3
5.00	3420	287	34300	1.25	SAF 97 RF57	
5.70	2990	252	35000	1.40		
3.30	4460	286.40	31100	0.95	S 97	Y..112M-6
3.60	4110	262.22	32900	1.00	SF 97	AM112
4.10	3670	231.67	33800	1.15	SA 97	AD3
4.90	3160	196.52	34700	1.35	SAF 97	
5.00	3090	286.40	34800	1.30		
5.40	2850	262.22	35200	1.40		
6.20	2540	231.67	35600	1.55		
7.20	2180	196.52	36000	1.85	S 97	Y..100L-4
7.90	2020	180.95	36100	1.95	SF 97	AM100
8.80	1820	161.74	36300	2.10	SA 97	AD3
9.80	1650	145.60	36500	2.20	SAF 97	
11.0	1500	131.85	36600	2.40		
12.0	1340	116.92	36700	2.60		
13.0	1220	105.71	36800	2.80		
16.0	1040	89.60	36900	3.10		
5.50	2700	258.18	27000	0.85	S 87	Y..100L-4
6.40	2360	222.40	27800	0.95	SF 87	AM100
7.00	2170	202.96	28100	1.05	SA 87	AD2
7.90	1940	180.00	28500	1.15	SAF 87	
9.40	1650	151.30	29000	1.30		
10.0	1530	139.05	29100	1.35		
12.0	1370	123.48	29300	1.50		
13.0	1230	110.40	29500	1.60		
14.0	1120	99.26	29600	1.75	S 87	Y..100L-4
17.0	980	86.15	29700	1.90	SF 87	AM100
17.0	1050	81.76	29600	1.50	SA 87	AD2
18.0	880	77.14	29800	2.10	SAF 87	
20.0	910	70.43	29800	1.75		
22.0	830	64.27	29800	1.90		
25.0	740	57.00	29900	2.20		
P₁=2.20kw						
11.0	1370	130.00	7440	0.90		
12.0	1300	123.20	11300	0.90		
13.0	1150	107.83	12700	1.00		
15.0	1040	97.14	13500	1.10		
17.0	920	85.22	14100	1.20	S 77	Y..100L-4
19.0	820	75.20	13800	1.30	SF 77	AM100
21.0	735	66.67	13500	1.40	SA 77	AD2
23.0	795	63.03	12400	1.40	SAF 77	
25.0	635	56.92	13100	1.55		
26.0	685	53.87	12100	1.60		
29.0	630	49.38	11900	1.75		
33.0	555	43.33	11700	2.00		
35.0	525	41.07	11500	2.10		
40.0	460	35.94	11300	2.40		
44.0	420	32.38	11000	2.60	S 77	Y..100L-4
50.0	370	28.41	10700	2.80	SF 77	AM100
57.0	325	25.07	10400	3.10	SA 77	AD3
62.0	305	22.89	9470	2.30	SAF 77	
68.0	280	20.99	9320	2.50		
31.0	560	46.40	7470	0.85	S 67	Y..100L-4
34.0	510	41.89	7430	0.95	SF 67	AM100
39.0	450	36.85	7350	1.05	SA 67	AD2
41.0	425	34.80	7310	1.10	SAF 67	
48.0	365	29.63	7170	1.30		
53.0	335	26.93	7070	1.45		
61.0	290	23.33	6910	1.65	S 67	Y..100L-4
70.0	270	20.37	6060	1.25	SF 67	AM100
82.0	230	17.28	5950	1.50	SA 67	AD2
91.0	205	15.60	5870	1.65	SAF 67	
104	184	13.73	5760	1.85		
110	174	12.96	5700	1.95		
129	149	11.03	5540	2.30	S 67	Y..100L-4
142	136	10.03	5440	2.50	SF 67	AM100
164	118	8.69	5280	2.80	SA 67	AD3
SAF 67						
100	188	14.24	4640	0.90		
118	160	12.10	4570	1.05		
132	144	10.80	4520	1.20		
154	123	9.23	4420	1.35	S 57	Y..100L-4
165	116	8.64	4370	1.45	SF 57	AM100
196	98	7.28	4240	1.50	SA 57	AD2
223	87	6.40	4090	1.15	SAF 57	
264	73	5.39	3960	1.30		
299	65	4.76	3850	1.45		
356	55	4.00	3710	1.60		
P₁=3.00kw						
5.10	4580	287	25700	0.90	S 97 RF57	Y..100L-4
5.80	4020	252	33100	1.05	SF 97 RF57	AM100
6.60	3510	219	34100	1.20	SA 97 RF57	AD3
7.10	3300	205	34500	1.25	SAF 97 RF57	

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n ₁ [1/min]	M ₁ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P₁=3.00kw						
5.10	4140	286.40	32900	0.95	S 97 SF 97 SA 97 SAF 97	Y...100L...-4 AM100 AD3
5.60	3820	262.22	33600	1.05		
6.30	3410	231.67	34300	1.15		
7.40	2920	196.52	35100	1.35		
8.00	2710	180.95	35400	1.45		
9.00	2440	161.74	35700	1.55		
10.0	2210	145.60	36000	1.70		
11.0	2010	131.85	36200	1.80	S 97 SF 97 SA 97 SAF 97	Y...100L...-4 AM100 AD3
12.0	1800	116.92	36300	1.95		
14.0	1630	105.71	36500	2.10		
16.0	1390	89.60	36700	2.30		
18.0	1410	80.85	36600	2.30		
8.10	2600	180.00	27300	0.85	S 87 SF 87 SA 87 SAF 87	Y...100L...-4 AM100 AD2
9.60	2210	151.30	28100	0.95		
10.0	2050	139.05	28400	1.00		
12.0	1830	123.48	28700	1.10		
13.0	1650	110.40	29000	1.20		
15.0	1490	99.26	29200	1.30		
17.0	1310	86.15	29400	1.45		
18.0	1400	81.76	29300	1.15		
19.0	1180	77.14	29500	1.55		
21.0	1210	70.43	29500	1.30		
23.0	1110	64.27	29600	1.45		
26.0	990	57.00	29700	1.60		
30.0	830	47.91	29800	1.90	S 87 SF 87 SA 87 SAF 87	Y...100L...-4 AM100 AD3
33.0	770	44.03	29900	2.10		
37.0	685	39.10	29900	2.30		
42.0	615	34.96	29900	2.60		
17.0	1240	85.22	11900	0.90	S 77 SF 77 SA 77 SAF 77	Y...100L...-4 AM100 AD2
19.0	1100	75.20	12500	0.95		
22.0	980	66.67	12300	1.05		
23.0	1060	63.03	10900	1.05		
26.0	850	56.92	12000	1.15		
27.0	910	53.87	10800	1.20		
29.0	840	49.35	10800	1.30		
34.0	740	43.33	10600	1.50		
35.0	705	41.07	10600	1.55		
40.0	620	35.94	10400	1.75	S 77 SF 77 SA 77 SAF 77	Y...100L...-4 AM100 AD3
45.0	560	32.38	10200	1.95		
51.0	490	28.41	10000	2.10		
58.0	435	25.07	9770	2.30		
64.0	410	22.89	8640	1.70		
69.0	375	20.99	8550	1.85		
79.0	330	18.42	8400	2.10		
83.0	315	17.45	8340	2.20		
95.0	275	15.28	8160	2.60		
106	250	13.76	8010	2.80		
121	220	12.07	7810	3.30		
137	195	10.65	7610	3.70		
42.0	570	34.80	6350	0.85	S 67 SF 67 SA 67 SAF 67	Y...100L...-4 AM100 AD2
49.0	490	29.63	6340	1.00		
54.0	445	26.93	6320	1.05		
62.0	390	23.33	6250	1.25		

n: [1/min]	M ₁ [Nm]	i	Fr [N]	K	Frame size		Input Configuration	
P ₁ =3.00kw								
71.0	360	20.37	5240	0.95	S 67 SF 67 SA 67 SAF 67	Y..100L-4 AM100 AD2		
84.0	305	17.28	5250	1.10				
93.0	275	15.60	5230	1.20				
106	245	13.73	5190	1.40				
112	230	12.96	5170	1.45				
132	199	11.03	5080	1.70	S 67 SF 67 SA 67 SAF 67	Y..100L-4 AM100 AD3		
145	181	10.03	5020	1.90				
167	157	8.69	4910	2.10				
192	137	7.56	4800	2.20				
135	192	10.80	3990	0.90	S 57 SF 57 SA 57 SAF 57	Y..100L-4 AM100 AD2		
158	164	9.23	3960	1.05				
168	154	8.64	3950	1.10				
200	130	7.28	3880	1.10				
227	116	6.40	3760	0.85				
270	98	5.39	3670	0.95				
306	87	4.76	3600	1.05				
364	73	4.00	3480	1.20				
P ₁ =4.00kw								
6.70	4690	219	24100	0.90	S 97 RF57 SF 97 RF57 SA 97 RF57 SAF 97 RF57	Y..112M-4 AM112 AD3		
	7.10	4410	205	28500			0.95	
6.30	4530	231.67	30200	0.90			S 97 SF 97 SA 97 SAF 97	Y..112M-4 AM112 AD3
7.40	3890	196.52	33400	1.05				
8.10	3600	180.95	34000	1.10				
9.00	3240	161.74	34600	1.20				
10.0	2940	145.60	35000	1.25				
11.0	2680	131.85	35400	1.35				
12.0	2390	116.92	35800	1.45				
14.0	2170	105.71	36000	1.60				
16.0	1850	89.60	36300	1.75				
18.0	1880	80.85	36300	1.70				
20.0	1670	71.43	36400	1.95	S 97 SF 97 SA 97 SAF 97	Y..112M-4 AM112 AD4		
24.0	1420	60.59	36600	2.30				
26.0	1310	55.79	36700	2.50				
12.0	2440	123.48	27600	0.85	S 87 SF 87 SA 87 SAF 87	Y..112M-4 AM112 AD2		
13.0	2200	110.40	28100	0.90				
15.0	1990	99.26	28500	1.00				
17.0	1740	86.15	28800	1.10				
19.0	1570	77.14	29100	1.15				
21.0	1610	70.43	29000	1.00				
23.0	1480	64.27	29200	1.10				
26.0	1310	57.00	29400	1.20				
30.0	1110	47.91	29600	1.45	S 87 SF 87 SA 87 SAF 87	Y..112M-4 AM112 AD3		
33.0	1020	44.03	29700	1.55				
37.0	910	39.10	29700	1.75				
42.0	820	34.96	29700	1.95				
46.0	740	31.43	28900	2.20				
54.0	645	27.28	28000	2.50				

DECHI S SERIES



n _i [1/min]	M _i [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P_i=4.00kw						
57.0	615	25.50	26400	2.00	S 87 SF 87 SA 87 SAF 87	Y..112M-4 AM112 AD4
26.0	1130	56.92	10800	0.85	S 77 SF 77 SA 77 SAF 77	Y..112M-4 AM112 AD2
27.0	1210	53.87	9280	0.90		
30.0	1120	49.38	9330	1.00		
34.0	980	43.33	9370	1.10		
36.0	930	41.07	9370	1.15		
41.0	820	35.94	9330	1.35		
45.0	745	32.38	9270	1.45		
51.0	655	28.41	9160	1.60		
58.0	580	25.07	9040	1.75	S 77 SF 77 SA 77 SAF 77	Y..112M-4 AM112 AD3
64.0	545	22.89	7650	1.30		
70.0	500	20.99	7640	1.40		
79.0	440	18.42	7600	1.60		
84.0	420	17.45	7580	1.70		
96.0	365	15.28	7490	1.90		
106	330	13.76	7400	2.10		
121	290	12.07	7280	2.40		
137	255	10.65	7140	2.80	S 77 SF 77 SA 77 SAF 77	Y..112M-4 AM112 AD4
155	230	9.44	6990	3.20		
181	197	8.06	6790	3.40		
84.0	405	17.28	3910	0.85	S 67 SF 67 SA 67 SAF 67	Y..112M-4 AM112 AD2
94.0	370	15.60	4270	0.90		
106	325	13.73	4510	1.05		
113	305	12.96	4520	1.10		
132	260	11.03	4530	1.30	S 67 SF 67 SA 67 SAF 67	Y..112M-4 AM112 AD3
146	240	10.03	4520	1.40		
168	205	8.69	4480	1.60		
193	182	7.56	4420	1.60		
P_i=5.50kw						
9.00	4470	161.74	31000	0.85		
10.0	4050	145.60	33100	0.90		
11.0	3690	131.85	33800	1.00	S 97 SF 97 SA 97 SAF 97	Y..132S-4 AM132 AD3
12.0	3300	116.92	34500	1.05		
14.0	3000	105.71	35000	1.15		
16.0	2560	89.60	35500	1.25		
19.0	2250	78.26	35900	1.35		
22.0	1900	65.45	36300	1.55		
20.0	2300	71.43	35800	1.45		
24.0	1960	60.59	36200	1.70	S 97 SF 97 SA 97 SAF 97	Y..132S-4 AM132 AD4
26.0	1810	55.79	36300	1.80		
29.0	1620	49.87	36500	2.00		
32.0	1470	44.89	36600	2.20		
36.0	1330	40.65	36700	2.50		
19.0	2160	77.14	28200	0.85	S 87 SF 87 SA 87 SAF 87	Y..132S-4 AM132 AD2
26.0	1810	57.00	28700	0.90		
30.0	1530	47.91	29100	1.05		
P_i=5.50kw						
23.0	1810	64.00	28700	0.95		
33.0	1410	44.03	29200	1.15	S 87 SF 87 SA 87 SAF 87	Y..132S-4 AM132 AD3
37.0	1260	39.10	29100	1.25		
42.0	1130	34.96	28500	1.40		
46.0	1020	31.43	27900	1.55		
53.0	890	27.28	27100	1.80		
57.0	850	25.50	25200	1.45		
68.0	715	21.43	24400	1.70		
74.0	660	19.70	24000	1.85	S 87 SF 87 SA 87 SAF 87	Y..132S-4 AM132 AD4
83.0	585	17.49	23400	2.10		
93.0	525	15.64	22900	2.40		
103	475	14.06	22400	2.60		
119	410	12.21	21700	3.00		
133	370	10.93	21100	3.30		
35.0	1290	41.07	7590	0.85	S 77 SF 77 SA 77 SAF 77	Y..132S-4 AM132 AD2
40.0	1130	35.94	7770	0.95		
45.0	1020	32.38	7860	1.05		
51.0	900	28.41	7920	1.15		
58.0	800	25.07	7940	1.25		
65.0	710	22.22	7920	1.35	S 77 SF 77 SA 77 SAF 77	Y..132S-4 AM132 AD3
79.0	610	18.42	6000	1.15		
83.0	580	17.45	6240	1.20		
95.0	505	15.28	6500	1.40		
106	460	13.76	6510	1.55		
121	400	12.07	6490	1.80		
137	355	10.65	6440	2.00		
154	315	9.44	6380	2.30		
180	270	8.06	6260	2.50		
132	360	11.03	2990	0.95	S 67 SF 67 SA 67 SAF 67	Y..132S-4 AM132 AD3
145	330	10.03	3310	1.00		
167	285	8.69	3720	1.15		
192	250	7.56	3850	1.15		
P_i=7.50kw						
14.0	4050	105.71	33100	0.85	S 97 SF 97 SA 97 SAF 97	Y..132M-4 AM132 AD3
16.0	3460	89.60	34200	0.95		
19.0	3040	78.26	34900	1.00		
22.0	2560	65.45	35500	1.15		
21.0	3110	71.43	34800	1.05		
24.0	2650	60.59	35400	1.25		
26.0	2450	55.79	35700	1.35		
29.0	2190	49.87	36000	1.50	S 97 SF 97 SA 97 SAF 97	Y..132M-4 AM132 AD4
33.0	1980	44.89	36200	1.65		
36.0	1800	40.65	36300	1.85		
41.0	1600	36.05	36000	2.10		
45.0	1450	32.60	35300	2.20		
56.0	1200	26.39	31900	2.20		
62.0	1080	23.59	31200	2.40	S 97 SF 97 SA 97 SAF 97	Y..132M-4 AM132 AD5
69.0	970	21.23	30600	2.70		
76.0	880	19.23	30000	2.90		



n _i [1/min]	M _i [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P _i =7.50kw						
33.0	1910	44.03	27700	0.85	S 87 SF 87 SA 87 SAF 87	Y..132M-4 AM132 AD3
38.0	1700	39.10	27300	0.95		
42.0	1520	34.96	26900	1.05		
47.0	1370	31.43	26400	1.15		
54.0	1200	27.28	25800	1.35		
P _i =11.0kw						
58.0	1150	25.50	23400	1.10	S 87 SF 87 SA 87 SAF 87	Y..132M-4 AM132 AD4
69.0	970	21.43	22900	1.30		
75.0	890	19.70	22600	1.40		
84.0	795	17.49	22200	1.55		
94.0	710	15.64	21800	1.75		
105	640	14.06	21400	1.95		
120	555	12.21	20800	2.20		
135	500	10.93	20400	2.50		
162	415	9.07	19600	2.70		
186	360	7.88	19000	2.80		
52.0	1220	28.41	6290	0.85	S 77 SF 77 SA 77 SAF 77	Y..132M-4 AM132 AD3
59.0	1080	25.07	6490	0.95		
66.0	960	22.22	6620	1.00		
80.0	820	18.42	2080	0.85		
84.0	780	17.45	2500	0.90		
96.0	685	15.28	3420	1.05		
107	620	13.76	4040	1.15		
122	545	12.07	4690	1.30		
138	480	10.65	5210	1.50	S 77	Y..132M-4
156	425	9.44	5560	1.70	SF 77	AM132
182	365	8.06	5560	1.85	SA 77	AD4
SAF 77						
P _i =11.0kw						
26.0	3580	55.79	34000	0.90	S 97 SF 97 SA 97 SAF 97	Y..160M-4 AM160 AD4
30.0	3210	49.87	34600	1.05		
33.0	2900	44.89	34700	1.15		
36.0	2630	40.65	34200	1.25		
41.0	2340	36.05	33700	1.40		
45.0	2120	32.60	33100	1.50		
56.0	1760	26.39	29300	1.45		
63.0	1580	23.59	28900	1.65	S 97 SF 97 SA 97 SAF 97	Y..160M-4 AM160 AD5
69.0	1420	21.23	28500	1.80		
77.0	1290	19.23	28100	2.00		
86.0	1140	17.05	27500	2.20		
96.0	1040	15.42	27100	2.40		
113	880	13.07	26200	2.60		
129	770	11.41	25500	2.90		
54.0	1750	27.28	23600	0.90	S 87 SF 87 SA 87 SAF 87	Y..160M-4 AM160 AD3
60.0	1570	24.43	23300	1.00	S 87 SF 87 SA 87 SAF 87	Y..160M-4 AM160 AD4
73.0	1310	20.27	22700	1.20		
75.0	1300	19.70	20300	0.95		
84.0	1160	17.49	20200	1.05		
94.0	1040	15.64	20000	1.20		
105	930	14.06	19700	1.30		

n _i [1/min]	M _i [Nm]	i	Fr [N]	K	Frame size	Input Configuration	
P _i =11.0kw							
121	810	12.21	19400	1.50	S 87	Y..160M-4 AM160 AD4	
135	730	10.93	19100	1.70	SF 87		
163	605	9.07	18500	1.85	SA 87		
187	530	7.88	18000	1.90	SAF 87		
P _i =15.0kw							
33.0	3980	44.89	31400	0.85	S 97	Y..160L-4 AM160 AD4	
36.0	3610	40.65	31300	0.90	SF 97		
41.0	3210	36.05	31000	1.05	SA 97		
45.0	2910	32.60	30700	1.10	SAF 97		
56.0	2420	26.39	26400	1.05			
62.0	2170	23.59	26300	1.20		Y..160L-4 AM160 AD5	
69.0	1950	21.23	26200	1.35			
76.0	1770	19.23	26000	1.45	S 97		
86.0	1570	17.05	25700	1.65	SF 97		
95.0	1420	15.42	25400	1.75	SA 97		
112	1210	13.07	24800	1.90	SAF 97		
128	1060	11.41	24300	2.10			
153	880	9.55	23600	2.30			
177	770	8.26	22900	2.30			
94.0	1430	15.64	16800	0.85			Y..160L-4 AM160 AD4
104	1280	14.06	17900	0.95	S 87		
120	1120	12.21	17800	1.10	SF 87		
134	1000	10.93	17600	1.25	SA 87		
162	830	9.07	17300	1.35	SAF 87		
186	725	7.88	17000	1.40			
P _i =18.5kw							
41.0	3960	36.05	28700	0.85	S 97	Y..180M-4 AM180 AD4	
45.0	3590	32.60	28600	0.90	SF 97		
					SA 97		
					SAF 97		
53.0	3050	27.63	28400	1.00		Y..180M-4 AM180 AD5	
61.0	2670	24.13	28100	1.05	S 97		
69.0	2410	21.23	24100	1.10	SF 97		
76.0	2190	19.23	24100	1.20	SA 97		
86.0	1940	17.05	24000	1.30	SAF 97		
95.0	1760	15.42	23900	1.40			
112	1490	13.07	23500	1.55			
128	1300	11.41	23200	1.70			
153	1090	9.55	22600	1.85			
177	950	8.26	22100	1.85			
P _i =22.0kw							
53.0	3610	27.63	26600	0.85		Y..180L-4 AM180 AD5	
61.0	3160	24.13	26500	0.90			
69.0	2850	21.23	18600	0.90	S 97		
77.0	2580	19.23	20500	1.00	SF 97		
86.0	2290	17.05	22300	1.10	SA 97		
96.0	2080	15.42	22400	1.20	SAF 97		
113	1760	13.07	22300	1.30			
129	1540	11.41	22100	1.45			
155	1290	9.55	21700	1.60			
178	1120	8.26	21300	1.60			



5. S../RF..性能参数 / S../RF.. Performance Parameters

n_1 [1/min]	i	F_r [N]	Frame size	Motor
$M_{max}=92Nm$				
0.14	10037	3000		
0.16	8654	3000		
0.17	8066	3000		
0.20	7051	3000		
0.23	6079	3000		
0.25	5431	3000		
0.29	4747	3000		
0.33	4155	3000		
0.38	3632	3000	S 37 RF17	Y..63M-4
0.48	2866	3000	SF 37 RF17	Y..63M-4
0.56	2471	3000	SA 37 RF17	Y..63M-4
0.64	2160	3000	SAF 37 RF17	Y..63M-4
0.73	1887	3000		
0.83	1665	3000		
0.95	1456	3000		
1.10	1271	3000		
1.20	1121	3000		
1.40	994	3000		
1.60	869	3000		
1.80	774	3000		
2.10	666	3000		
2.30	596	3000		
2.60	521	3000		
3.00	456	3000	S 37 RF17	Y..63M-4
3.50	398	3000	SF 37 RF17	Y..63M-4
3.90	351	3000	SA 37 RF17	Y..63M-4
4.60	303	3000	SAF 37 RF17	Y..63M-4
5.20	265	3000		
6.00	232	3000		
6.80	202	3000		
7.40	179	3000	S 37 RF17	Y..63M-4
8.30	158	3000	SF 37 RF17	Y..63M-4
9.10	144	3000	SA 37 RF17	Y..63M-4
11.0	118	3000	SAF 37 RF17	Y..63M-4
12.0	110	3000		
$M_{max}=185Nm$				
0.11	12909	5250		
0.12	11189	5250		
0.13	10374	5250		
0.15	8992	5250		
0.18	7860	5250		
0.20	6887	5250		
0.23	6055	5250		
0.26	5292	5250	S 47 RF17	Y..63M-4
0.30	4637	5250	SF 47 RF17	Y..63M-4
0.34	4092	5250	SA 47 RF17	Y..63M-4
0.39	3582	5200	SAF 47 RF17	Y..63M-4
0.44	3131	5200		
0.51	2714	5200		
0.57	2412	5200		
0.65	2131	5200		
0.74	1863	5200		
0.83	1663	5200		
0.96	1435	5200		
$M_{max}=185Nm$				
1.10	1254	5200		
1.20	1120	5200		
1.30	1083	5200		
1.40	965	5200	S 47 RF17	Y..63M-4
1.60	865	5200	SF 47 RF17	Y..63M-4
1.80	750	5200	SA 47 RF17	Y..63M-4
2.10	655	5200	SAF 47 RF17	Y..63M-4
2.40	574	5200		
2.70	506	5200		
3.20	438	5200		
3.60	388	5200		
3.90	336	5200	S 47 RF17	Y..63M-4
4.50	294	5200	SF 47 RF17	Y..63M-4
5.80	229	5200	SA 47 RF17	Y..63M-4
			SAF 47 RF17	Y..63M-4
5.00	257	5260	S 47 RF17	Y..71M-4
6.50	200	5200	SF 47 RF17	Y..71M-4
6.90	187	5200	SA 47 RF17	Y..71M-4
7.90	165	5200	SAF 47 RF17	Y..71M-4
9.40	148	5200	S 47 RF17	Y..71M-4
11.0	131	5200	SF 47 RF17	Y..71M-4
			SA 47 RF17	Y..71M-4
			SAF 47 RF17	Y..71M-4
$M_{max}=330Nm$				
0.11	12909	6800		
0.12	11189	6800		
0.13	10374	6800		
0.15	8992	6800		
0.18	7860	6800	S 57 RF17	Y..63M-4
0.20	6887	6800	SF 57 RF17	Y..63M-4
0.23	6055	6800	SA 57 RF17	Y..63M-4
0.26	5292	6800	SAF 57 RF17	Y..63M-4
0.30	4637	6800		
0.34	4092	6800		
0.38	3628	6800		
$M_{max}=300Nm$				
0.44	3131	7080		
0.51	2714	7080		
0.57	2412	7080		
0.65	2131	7080		
0.74	1863	7080	S 57 RF17	Y..63M-4
0.83	1663	7080	SF 57 RF17	Y..63M-4
0.96	1435	7080	SA 57 RF17	Y..63M-4
1.10	1254	7080	SAF 57 RF17	Y..63M-4
1.30	1083	7080		
1.40	965	7080		
1.60	865	7080		
1.80	750	7080		
2.10	655	7080		



n_2 [1/min]	i	Fr [N]	Frame size		Motor
M _{max} =300Nm					
2.30	574	7080	S	57 RF17	Y..63M ₁ -4
2.60	506	7080	SF	57 RF17	Y..63M ₁ -4
3.00	438	7080	SA	57 RF17	Y..63M ₁ -4
3.40	388	7080	SAF	57 RF17	Y..63M ₁ -4
3.90	336	7080	S	57 RF17	Y..71M ₁ -4
4.40	294	7080	SF	57 RF17	Y..71M ₁ -4
4.80	269	7080	SA	57 RF17	Y..71M ₁ -4
			SAF	57 RF17	Y..71M ₁ -4
6.00	229	7080	S	57 RF17	Y..71M ₁ -4
6.80	204	7080	SF	57 RF17	Y..71M ₁ -4
7.40	187	7080	SA	57 RF17	Y..71M ₁ -4
			SAF	57 RF17	Y..71M ₁ -4
8.40	165	7080	S	57 RF17	Y..80M ₁ -4
11.0	131	7080	SF	57 RF17	Y..80M ₁ -4
			SA	57 RF17	Y..80M ₁ -4
			SAF	57 RF17	Y..80M ₁ -4
M _{max} =570Nm					
0.06	21362	8190			
0.07	19594	8190			
0.08	18120	8190			
0.08	16682	8190			
0.10	14383	8190			
0.11	12774	8190			
0.13	11013	8190			
0.14	9694	8190			
0.16	8529	8190			
0.19	7455	8190			
0.21	6531	8190	S	67 RF37	Y..63M ₁ -4
0.24	5759	8190	SF	67 RF37	Y..63M ₁ -4
0.28	4965	8190	SA	67 RF37	Y..63M ₁ -4
0.31	4410	8190	SAF	67 RF37	Y..63M ₁ -4
0.36	3880	8190			
0.40	3432	8190			
0.47	2944	8190			
0.52	2630	8190			
0.61	2279	8190			
0.69	2014	8190			
0.78	1772	8190			
0.88	1559	8190			
1.00	1363	8190			
1.20	1194	8190			
1.30	1045	8190	S	67 RF37	Y..63M ₁ -4
1.40	914	8190	SF	67 RF37	Y..63M ₁ -4
1.60	809	8190	SA	67 RF37	Y..63M ₁ -4
1.90	712	8190	SAF	67 RF37	Y..63M ₁ -4
			S	67 RF37	Y..71M ₁ -4
2.10	615	8190	SF	67 RF37	Y..71M ₁ -4
2.40	543	8190	SA	67 RF37	Y..71M ₁ -4
			SAF	67 RF37	Y..71M ₁ -4

n_2 [1/min]	i	Fr [N]	Frame size		Motor
M _{max} =570Nm					
2.90	469	8190	S	67 RF37	Y..71M ₁ -4
3.30	424	8190	SF	67 RF37	Y..71M ₁ -4
3.80	365	8190	SA	67 RF37	Y..71M ₁ -4
			SAF	67 RF37	Y..71M ₁ -4
4.30	319	8190	S	67 RF37	Y..80M ₁ -4
4.90	281	8190	SF	67 RF37	Y..80M ₁ -4
5.60	246	8190	SA	67 RF37	Y..80M ₁ -4
6.20	221	8190	SAF	67 RF37	Y..80M ₁ -4
7.30	198	8190	S	67 RF37	Y..80M ₁ -4
			SF	67 RF37	Y..80M ₁ -4
			SA	67 RF37	Y..80M ₁ -4
			SAF	67 RF37	Y..80M ₁ -4
M _{max} =1270Nm					
0.05	25493	11700			
0.06	21787	11700			
0.07	19907	11700			
0.08	17013	11700			
0.09	14668	11700			
0.11	13110	11700			
0.12	11569	11700	S	77 RF37	Y..63M ₁ -4
0.14	9887	11700	SF	77 RF37	Y..63M ₁ -4
0.16	8817	11700	SA	77 RF37	Y..63M ₁ -4
0.18	7735	11700	SAF	77 RF37	Y..63M ₁ -4
0.20	6735	11700			
0.23	5943	11700			
0.26	5214	11700			
0.30	4618	11700			
0.35	3992	11700			
0.39	3540	11700			
0.43	3098	11700	S	77 RF37	Y..63M ₁ -4
			SF	77 RF37	Y..63M ₁ -4
			SA	77 RF37	Y..63M ₁ -4
			SAF	77 RF37	Y..63M ₁ -4
M _{max} =1240Nm					
0.50	2753	12000	S	77 RF37	Y..63M ₁ -4
0.58	2374	12000	SF	77 RF37	Y..63M ₁ -4
			SA	77 RF37	Y..63M ₁ -4
			SAF	77 RF37	Y..63M ₁ -4
0.63	2083	12000	S	77 RF37	Y..63M ₁ -4
0.73	1813	12000	SF	77 RF37	Y..63M ₁ -4
0.76	1745	12000	SA	77 RF37	Y..63M ₁ -4
0.82	1600	12000	SAF	77 RF37	Y..63M ₁ -4
0.94	1404	12000			
1.00	1245	12000	S	77 RF37	Y..71M ₁ -4
1.20	1100	12000	SF	77 RF37	Y..71M ₁ -4
1.40	954	12000	SA	77 RF37	Y..71M ₁ -4
			SAF	77 RF37	Y..71M ₁ -4

DECHI S SERIES



n ₂ [1/min]	i	Fr [N]	Frame size	Motor
M_{max}=1240Nm				
1.60	837	12000	S 77 RF37	Y..71M-4
1.90	714	12000	SF 77 RF37	Y..71M-4
			SA 77 RF37	Y..71M-4
			SAF 77 RF37	Y..71M-4
2.20	637	12000	S 77 RF37	Y..80M-4
2.40	574	12000	SF 77 RF37	Y..80M-4
2.80	499	12000	SA 77 RF37	Y..80M-4
			SAF 77 RF37	Y..80M-4
3.30	438	12000	S 77 RF37	Y..80M-4
3.70	389	12000	SF 77 RF37	Y..80M-4
			SA 77 RF37	Y..80M-4
			SAF 77 RF37	Y..80M-4
4.30	327	12000	S 77 RF37	Y..90S-4
4.90	289	12000	SF 77 RF37	Y..90S-4
5.70	250	12000	SA 77 RF37	Y..90S-4
			SAF 77 RF37	Y..90S-4
6.50	219	12000	S 77 RF37	Y..90L-4
			SF 77 RF37	Y..90L-4
			SA 77 RF37	Y..90L-4
			SAF 77 RF37	Y..90L-4
M_{max}=2500Nm				
0.05	25987	27500		
0.06	23940	27500		
0.07	20568	27500		
0.08	18265	27500		
0.08	16774	27500	S 87 RF57	Y..63M-4
0.09	14820	27500	SF 87 RF57	Y..63M-4
0.10	13160	27500	SA 87 RF57	Y..63M-4
0.12	11200	27500	SAF 87 RF57	Y..63M-4
0.14	9904	27500		
0.16	8549	27500		
0.18	7643	27500		
0.21	6706	27500		
0.22	5875	27500	S 87 RF57	Y..63M-4
0.25	5187	27500	SF 87 RF57	Y..63M-4
0.29	4606	27500	SA 87 RF57	Y..63M-4
0.34	3872	27500	SAF 87 RF57	Y..63M-4
0.37	3475	27500	S 87 RF57	Y..71M-4
0.45	2905	27500	SF 87 RF57	Y..71M-4
0.50	2586	27500	SA 87 RF57	Y..71M-4
			SAF 87 RF57	Y..71M-4
0.59	2335	27500	S 87 RF57	Y..71M-4
0.67	2054	27500	SF 87 RF57	Y..71M-4
0.76	1824	27500	SA 87 RF57	Y..71M-4
			SAF 87 RF57	Y..71M-4
0.85	1631	27500	S 87 RF57	Y..80M-4
1.00	1332	27500	SF 87 RF57	Y..80M-4
1.20	1191	27500	SA 87 RF57	Y..80M-4
			SAF 87 RF57	Y..80M-4
M_{max}=2500Nm				
1.40	1032	27500	S 87 RF57	Y..80M-4
1.50	930	27500	SF 87 RF57	Y..80M-4
			SA 87 RF57	Y..80M-4
			SAF 87 RF57	Y..80M-4
1.70	831	27500	S 87 RF57	Y..90S-4
2.00	719	27500	SF 87 RF57	Y..90S-4
2.30	624	27500	SA 87 RF57	Y..90S-4
2.60	558	27500	SAF 87 RF57	Y..90S-4
3.00	485	27500	S 87 RF57	Y..90L-4
			SF 87 RF57	Y..90L-4
			SA 87 RF57	Y..90L-4
			SAF 87 RF57	Y..90L-4
M_{max}=2450Nm				
3.30	435	27600	S 87 RF57	Y..90L-4
			SF 87 RF57	Y..90L-4
			SA 87 RF57	Y..90L-4
			SAF 87 RF57	Y..90L-4
3.80	378	27600	S 87 RF57	Y..100L-4
			SF 87 RF57	Y..100L-4
			SA 87 RF57	Y..100L-4
			SAF 87 RF57	Y..100L-4
M_{max}=2400Nm				
4.40	323	27700	S 87 RF57	Y..100L-4
5.10	281	27700	SF 87 RF57	Y..100L-4
			SA 87 RF57	Y..100L-4
			SAF 87 RF57	Y..100L-4
M_{max}=4200Nm				
0.04	33818	32800		
0.04	31154	32800	S 97 RF57	Y..63M-4
0.05	27847	32800	SF 97 RF57	Y..63M-4
0.06	24641	32800	SA 97 RF57	Y..63M-4
0.06	21537	32800	SAF 97 RF57	Y..63M-4
0.07	18749	32800		
0.09	16233	32800	S 97 RF57	Y..63M-4
0.09	14576	32800	SF 97 RF57	Y..63M-4
0.11	12752	32800	SA 97 RF57	Y..63M-4
0.12	11267	32800	SAF 97 RF57	Y..63M-4
0.14	10078	32800		
0.15	8608	32800	S 97 RF57	Y..63M-4
0.17	7554	32800	SF 97 RF57	Y..63M-4
0.20	6640	31300	SA 97 RF57	Y..63M-4
0.23	5780	31300	SAF 97 RF57	Y..63M-4
0.27	4937	31300		
0.29	4444	31300	S 97 RF57	Y..71M-4
0.32	4017	31300	SF 97 RF57	Y..71M-4
0.38	3453	31300	SA 97 RF57	Y..71M-4
0.42	3108	31300	SAF 97 RF57	Y..71M-4

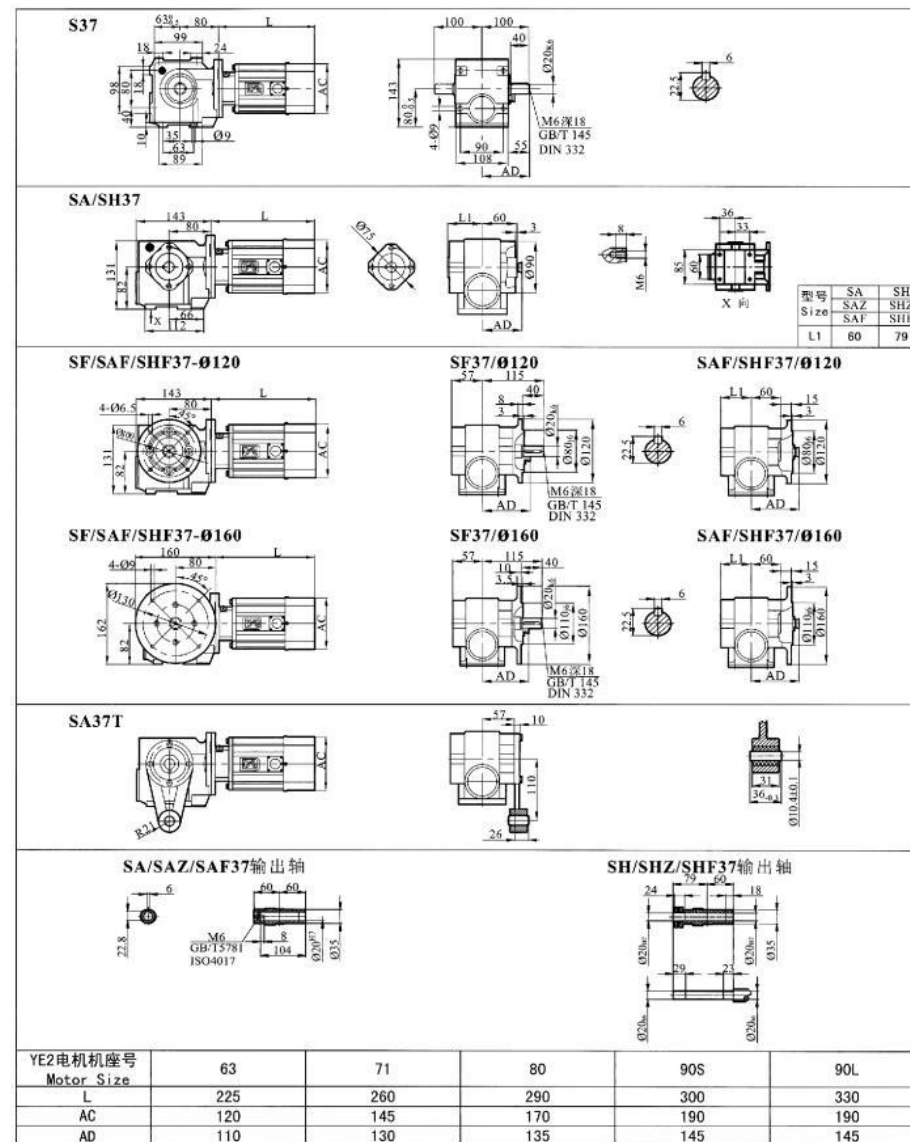
S

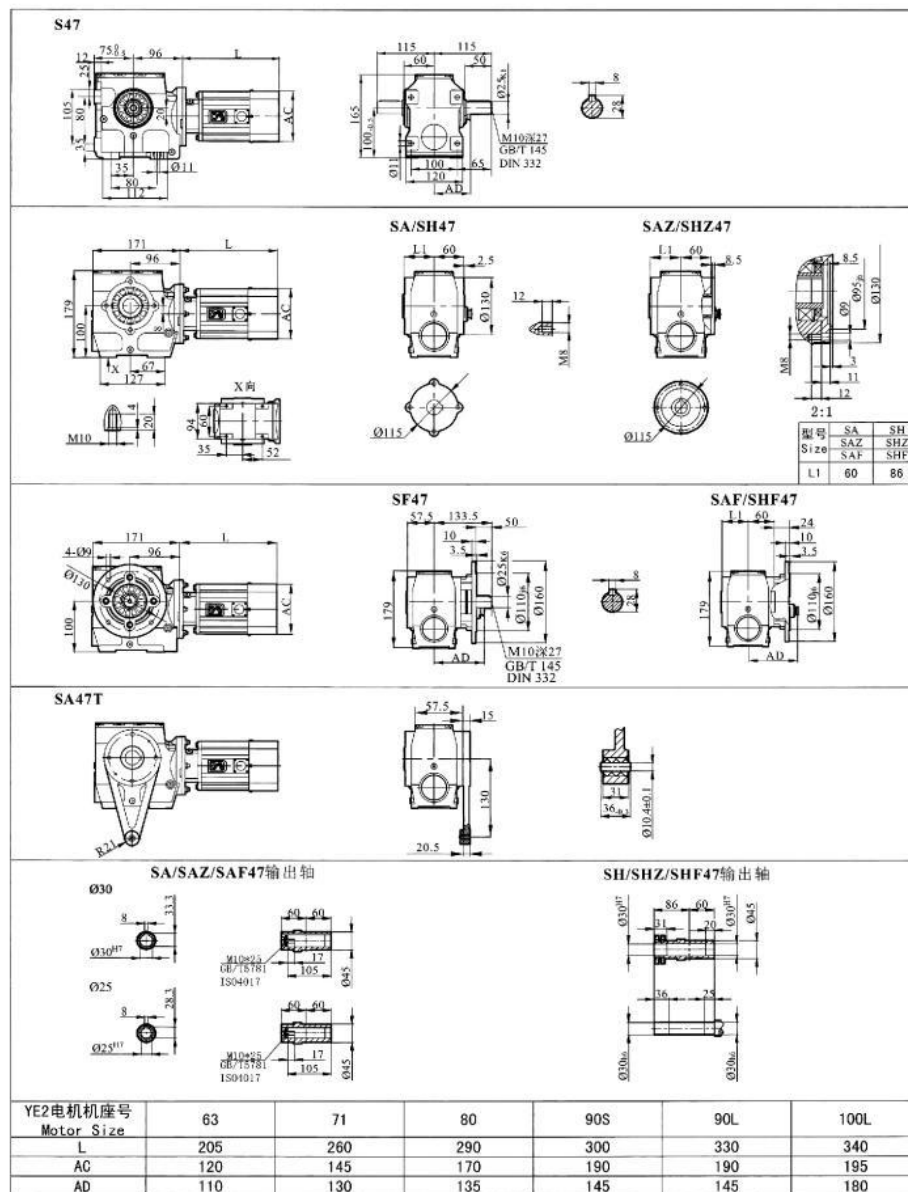
n_2 [1/min]	i	Fr [N]	Frame size		Motor
$M_{max}=4200Nm$					
0.52	2654	31300	S	97 RF57	Y..71M-4
0.59	2329	31300	SF	97 RF57	Y..71M-4
			SA	97 RF57	Y..71M-4
			SAF	97 RF57	Y..71M-4
0.66	2081	31300	S	97 RF57	Y..80M-4
0.74	1860	31300	SF	97 RF57	Y..80M-4
0.88	1574	31300	SA	97 RF57	Y..80M-4
			SAF	97 RF57	Y..80M-4
1.00	1394	31300	S	97 RF57	Y..80M-4
1.20	1223	31300	SF	97 RF57	Y..80M-4
			SA	97 RF57	Y..80M-4
			SAF	97 RF57	Y..80M-4
1.30	1070	31300	S	97 RF57	Y..90S-4
1.50	928	31300	SF	97 RF57	Y..90S-4
1.70	824	31300	SA	97 RF57	Y..90S-4
			SAF	97 RF57	Y..90S-4

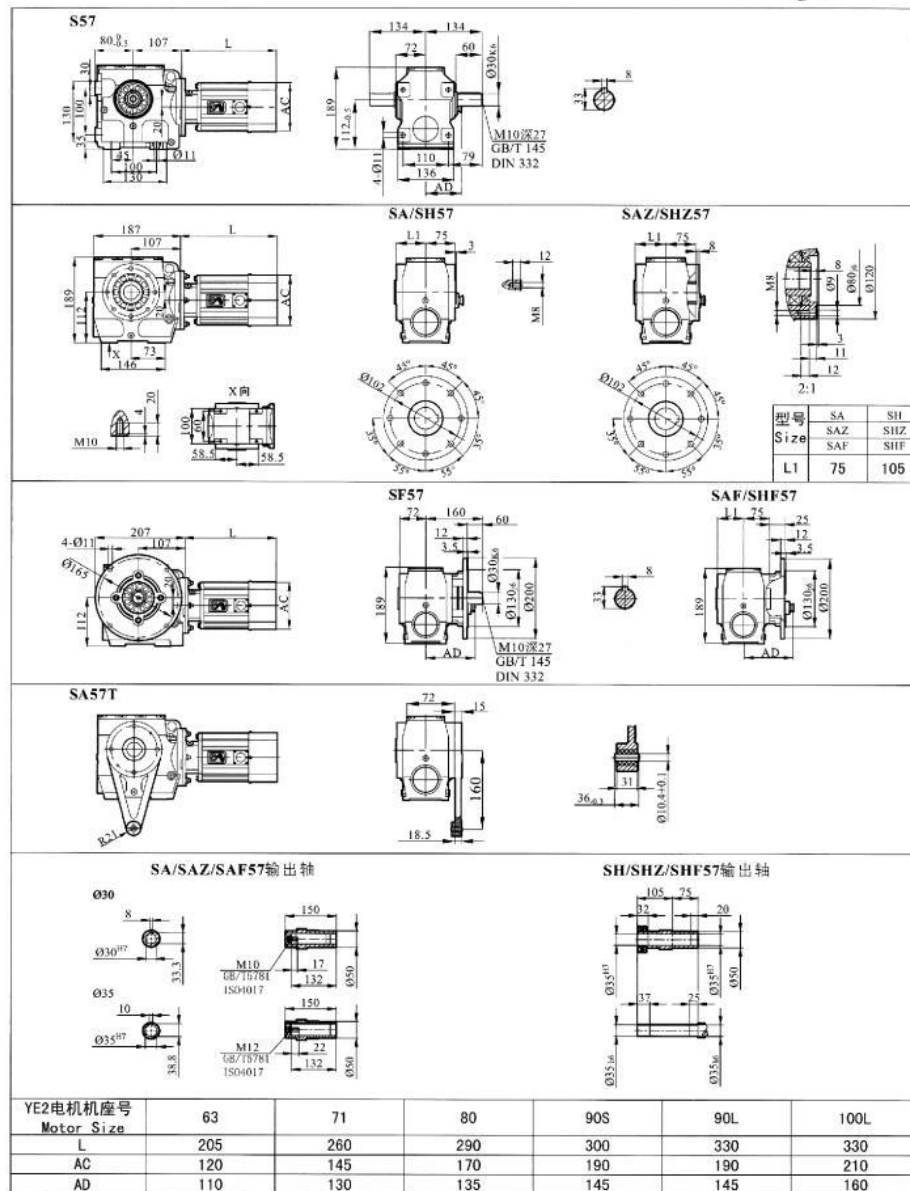
n_2 [1/min]	i	F_r [N]	Frame size		Motor
$M_{max}=4200Nm$					
2.00	714	32800	S	97 RF57	Y..90L-4
2.30	626	31300	SF	97 RF57	Y..90L-4
2.70	538	31300	SA	97 RF57	Y..90L-4
			SAF	97 RF57	Y..90L-4
2.90	484	31400	S	97 RF57	Y..100L ₁ -4
3.40	420	31400	SF	97 RF57	Y..100L ₁ -4
3.80	376	31400	SA	97 RF57	Y..100L ₁ -4
			SAF	97 RF57	Y..100L ₁ -4
4.40	327	31500	S	97 RF57	Y..100L ₁ -4
5.10	287	31500	SF	97 RF57	Y..100L ₁ -4
			SA	97 RF57	Y..100L ₁ -4
			SAF	97 RF57	Y..100L ₁ -4
5.80	252	31500	S	97 RF57	Y..112M-4
6.70	219	31600	SF	97 RF57	Y..112M-4
			SA	97 RF57	Y..112M-4
			SAF	97 RF57	Y..112M-4

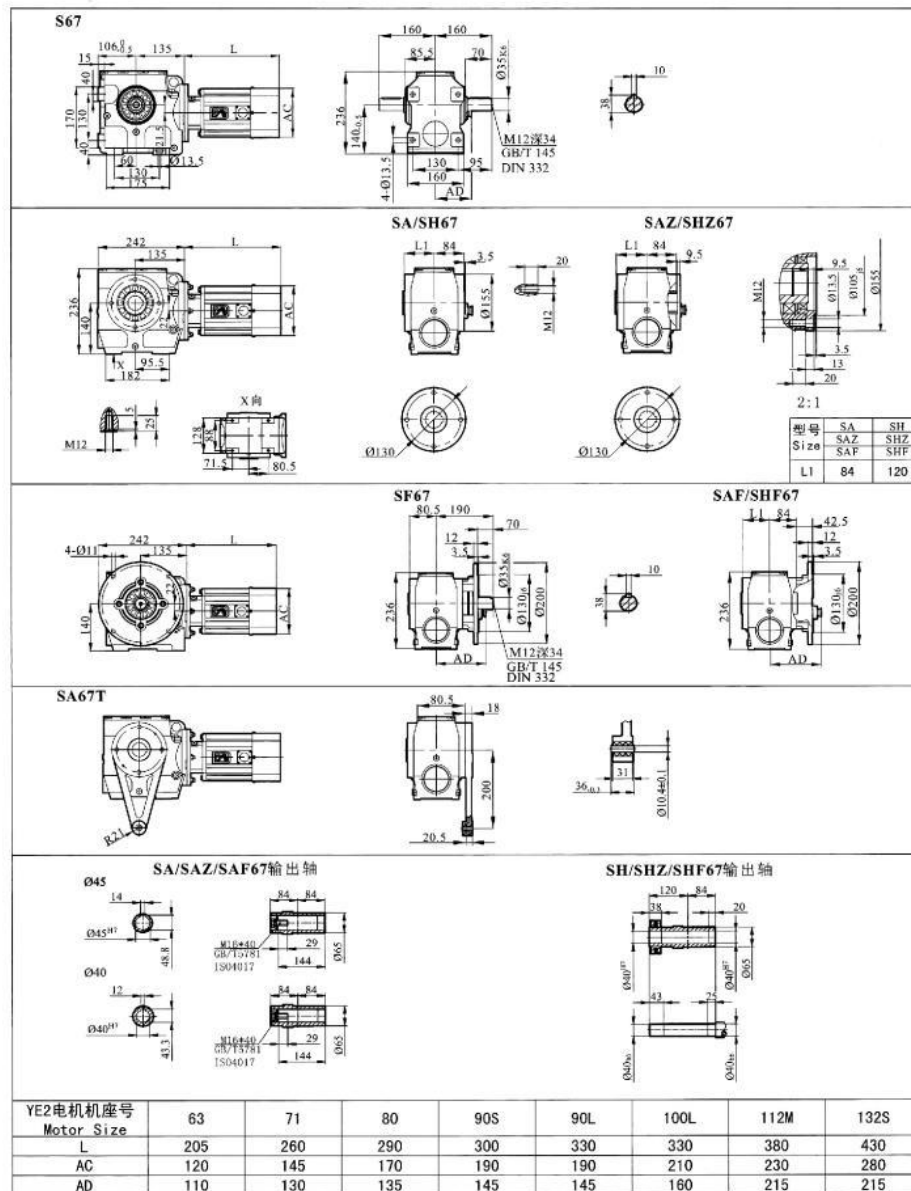


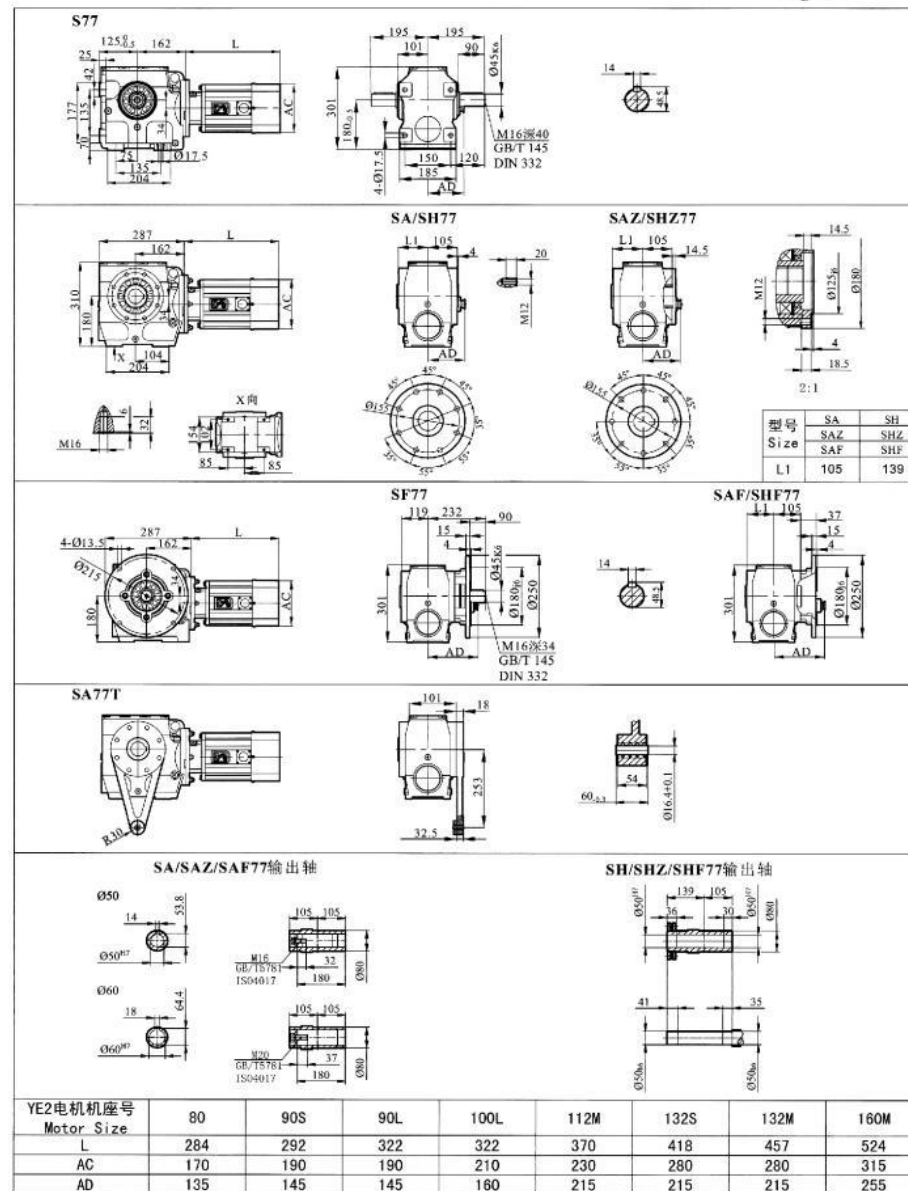
5.9 外形尺寸 / Dimensions

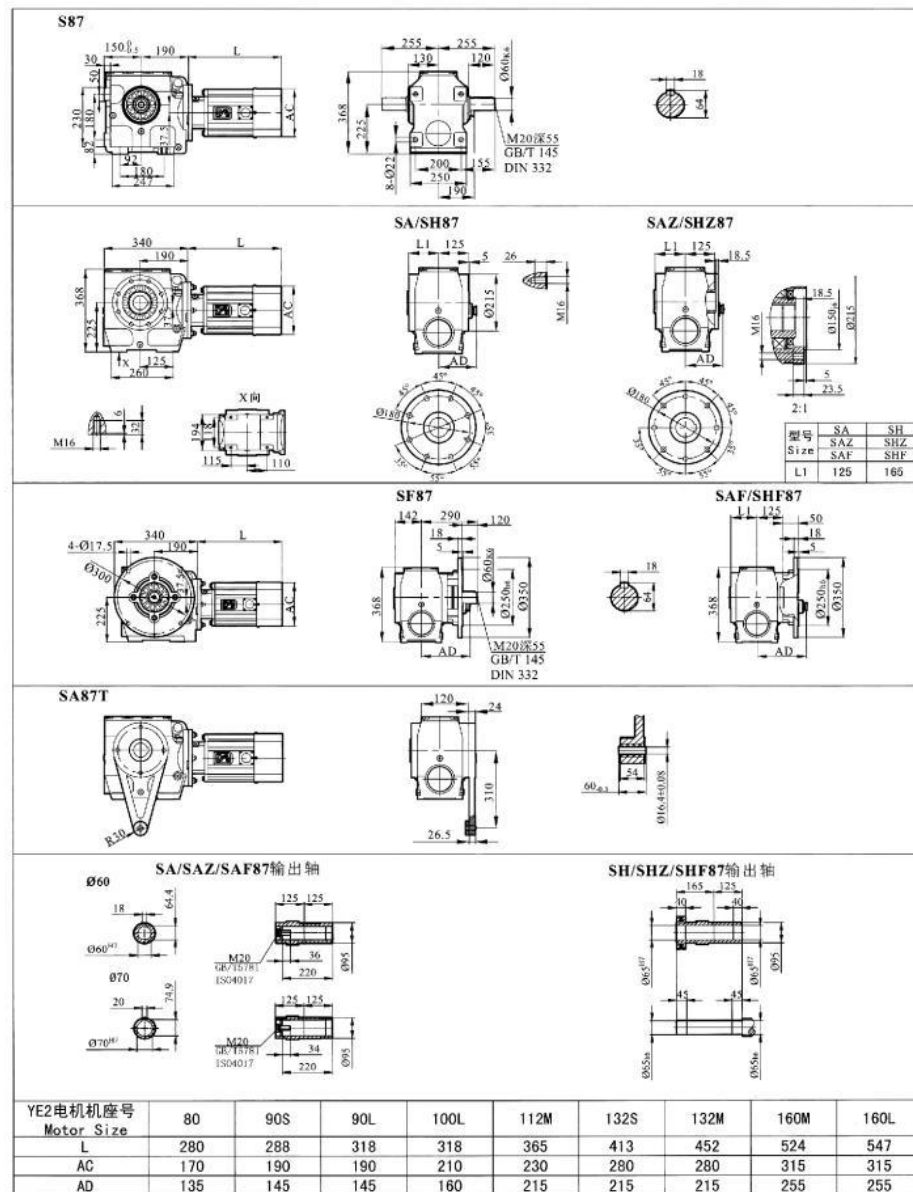


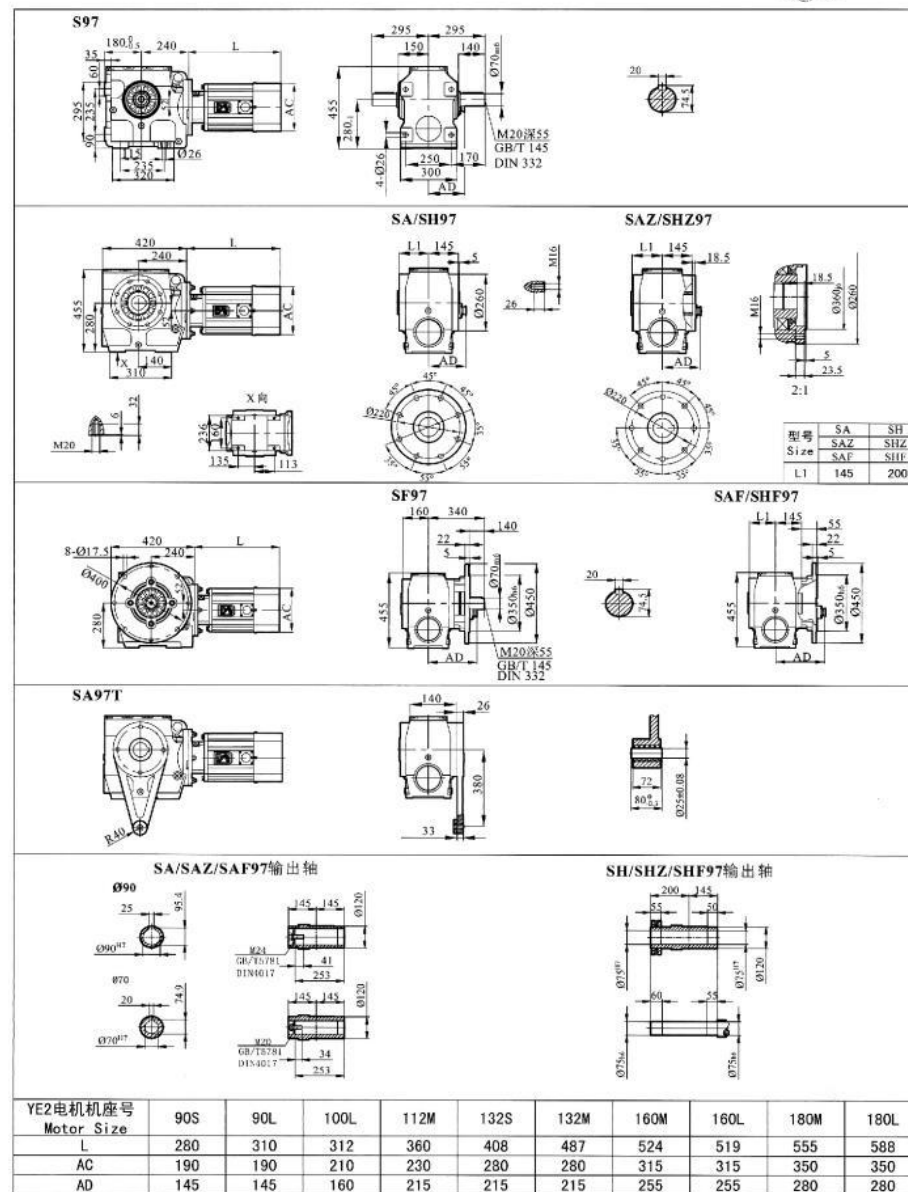






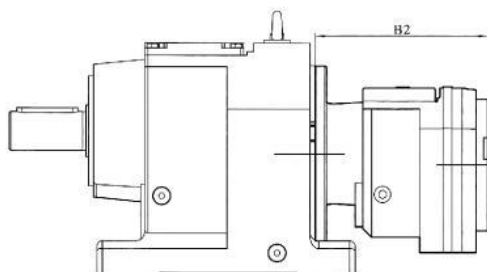






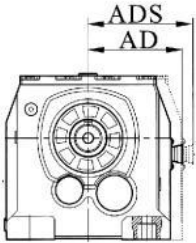
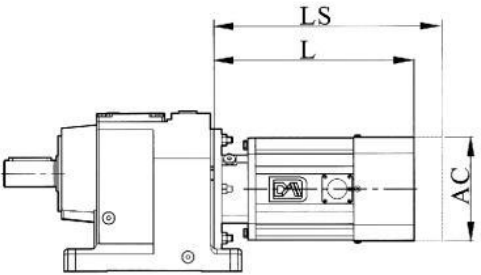
6. 输入模块外形尺寸/ Dimensions of Input Module

6.1 RF..外形尺寸/ RF.. Dimensions



机座号/Frame size	B2	机座号/Frame size	B2	机座号/Frame size	B2	机座号/Frame size	B2
R..27RF17	139	F..27RF17	139	K..37RF17	139	S..37RF17	139
R..37RF17	139	F..37RF17	139	K..47RF37	157	S..47RF17	139
R..47RF37	157	F..47RF17	139	K..57RF37	157	S..57RF17	139
R..57RF37	157	F..57RF37	157	K..67RF37	157	S..67RF37	157
R..67RF37	157	F..67RF37	157	K..77RF37	157	S..77RF37	157
R..77RF37	157	F..77RF37	157	K..87RF57	187	S..87RF57	187
R..87RF57	187	F..87RF57	187	K..97RF57	187	S..97RF57	187
R..97RF57	187	F..97RF57	187	K..107RF77	220		
R..107RF77	220	F..107RF77	220	K..127RF77	220		
R..137RF77	220	F..127RF77	220	K..127RF87	272		
R..147RF77	220	F..127RF87	272	K..157RF97	320		
R..147RF87	272	F..157RF97	320	K..157RF107	355		
R..167RF97	320			K..167RF97	320		
R..167RF107	355			K..167RF107	355		
				K..187RF97	320		
				K..187RF107	355		

6.2 电机外形尺寸/ Dimensions of Geared Motors

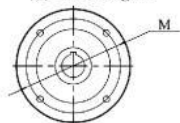


机座号/Frame size	L	AD	AC
Y:63M	182	108	120
Y:71M	208	105	130
Y:80M	225	110	145
Y:90S	230	106	177
Y:90L	230	106	177
Y:100L	288	136	197
Y:112M	301	145	221
Y:132S	402	163	263
Y:132M	432	163	263
Y:160M	505	210	330
Y:160L	560	210	330
Y:180M	590	255	380
Y:180L	630	255	380
Y:200L	660	280	420
Y:225S	675	310	470
Y:225M	705	310	470
Y:250M	770	320	510
Y:280S	845	375	580
Y:280M	895	375	580
Y:315S	1100	-	645
Y:315M	1130	-	645
Y:315L	1130	-	645

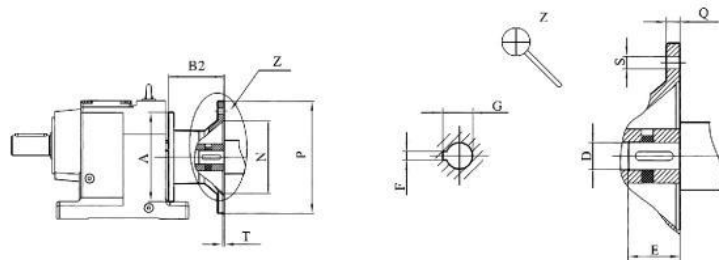
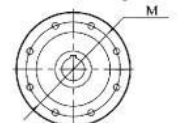
机座号/Frame size	LS	ADS	AC
YEJ63M	277	70	130
YEJ71M	295	80	145
YEJ80M	320	150	175
YEJ90S	340	160	195
YEJ90L	365	160	195
YEJ100L	375	180	215
YEJ112M	420	190	240
YEJ132S	495	210	275
YEJ132M	530	210	275
YEJ160M	610	265	235
YEJ160L	655	265	235
YEJ180M	690	285	380
YEJ180L	730	285	380
YEJ200L	790	315	420

6.3 AM(IEC)..外形尺寸/AM (IEC) .. Dimensions

法兰1/Flange.1



法兰2/Flange.2

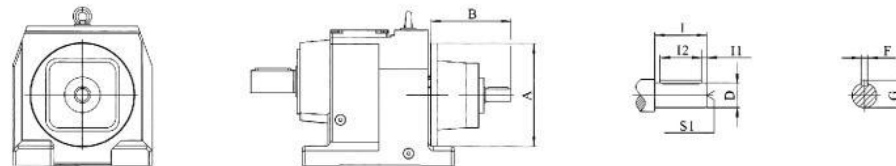


型号 Frame size	AM	Flange	A	B2	D	E	F	G	M	N	P	Q	S	T		
R..27/37	AM63	1	120	72	11	23	4	12.8	115	95	140	10	4-Φ9	3.5		
F..27/37/47	AM71			14	30	5	16.3	130	110	160						
S..37/47/57	AM80			19	40	6	21.8	165	130	200	12	4-Φ11	4.5			
K..37	AM90			24	50	8	27.3									
	AM100			142	28	60	8	31.3	215	180	250	15	4-Φ13.5	5		
R..47/57/67 F..57/67 S..67 K..47/57/67	AM63	1	160	66	11	23	4	12.8	115	95	140	10	4-Φ9	3.5		
	AM71			14	30	5	16.3	130	110	160						
	AM80			19	40	6	21.8	165	130	200	12	4-Φ11	4.5			
	AM90			24	50	8	27.3									
	AM100			134	28	60	8	31.3	215	180	250	15	4-Φ13.5	5		
	AM112			191	38	80	10	41.3	265	230	300	16				
	AM132S/M															
R..77 F..77 S..77 K..77	AM63	1	200	60	11	23	4	12.8	115	95	140	10	4-Φ9	3.5		
	AM71			14	30	5	16.3	130	110	160						
	AM80			19	40	6	21.8	165	130	200	12	4-Φ11	4.5			
	AM90			24	50	8	27.3									
	AM100			126	28	60	8	31.3	215	180	250	15	4-Φ13.5	5		
	AM112			179	38	80	10	41.3	265	230	300	16				
	AM132S/M															
	AM132ML			237	42	110	12	45.3	300	250	350	18	4-Φ17.5	6		
R..87 F..87 S..87 K..87	AM80	1	250	87	19	40	6	21.8	165	130	200	12	4-Φ11	4.5		
	AM90			24	50	8	27.3									
	AM100			121	28	60	8	31.3	215	180	250	15	4-Φ13.5	5		
	AM112			174	38	80	10	41.3	265	230	300	16				
	AM132S/M															
	AM132ML			232	42	110	12	45.3	300	250	350	18	4-Φ17.5	6		
	AM160															
	AM180			48	14	51.8										

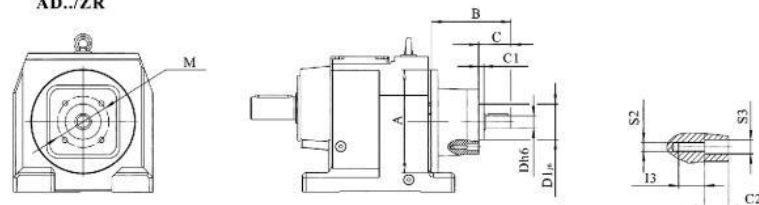
型号 Frame size	AM	Flange	A	B2	D	E	F	G	M	N	P	Q	S	T
R..97 F..97 S..97 K..97	AM90	1	300	82	24	50	8	27.3	165	130	200	12	4-Φ11	4.5
	AM100			116	28	60	8	31.3	215	180	250	15	4-Φ13.5	5
	AM112													
	AM132S/M			169	38	80	10	41.3	265	230	300	16	4-Φ17.5	6
	AM132ML													
	AM160			227	42	110	12	45.3	300	250	350	18		
	AM180				48		14	51.8						
AM200	268	55		16	59.3	350	300	400	20	7				
R..107 F..107 K..107	AM100	1	350	110	28	60	8	31.3	215	180	250	15	4-Φ13.5	5
	AM112													
	AM132S/M			163	38	80	10	41.3	265	230	300	16	4-Φ17.5	6
	AM132ML													
	AM160			221	42	110	12	45.3	300	250	350	18		
	AM180				48		14	51.8						
	AM200			262	55		16	59.3	350	300	400	20	7	
AM225	2	277	60	140	18	64.4	400	350	450	22	8-Φ17.5			
R..137	AM132S/M	1	400	148	38	80	10	41.3	265	230	300	16	4-Φ13.5	5
	AM132ML													
	AM160			206	42	110	12	45.3	300	250	350	18	4-Φ17.5	6
	AM180				48		14	51.8						
	AM200			247	55		16	59.3	350	300	400	20	7	
	AM225	2	262	60	140	18	64.4	400	350	450	22	8-Φ17.5		
AM250	345		65			69.4	500	450	550	25	8-Φ17.5			
R..147 F..127 K..127	AM132S/M	1	450	148	38	80	10	41.3	265	230	300	16	4-Φ13.5	5
	AM132ML													
	AM160			206	42	110	12	45.3	300	250	350	18	4-Φ17.5	6
	AM180				48		14	51.8						
	AM200			247	55		16	59.3	350	300	400	20	8-Φ17.5	7
	AM225	2	262	60	140	18	64.4	400	350	450	22			
	AM250		336	65			69.4	500	450	550	25			
AM280		75		20	79.9									
R..167 F..157 K..157 K..167 K..187	AM160	1	550	198	42	110	12	45.3	300	250	350	18	4-Φ17.5	6
	AM180				48		14	51.8						
	AM200			239	55		16	59.3						
	AM225	2		254	60	140	18	64.4	400	350	450	22	8-Φ17.5	7
	AM250				65			69.4						
	AM280			328	75			20						

6.4 AD..外形尺寸/AD.. Dimensions

AD..



AD../ZR



型号 Frame size	AD..	A	B	C	C1	C2	D	D1	F	M	I	I1	I2	I3	M1	S1	S2	S3
R..27	AD1	120	102	-	-	-	16	-	5	18	40	4	32	-	-	M5*12.5	-	-
F..27	AD2, AD2/ZR		130	50	8	13.5	19	55	6	21.5	40	4	32	12	80	M6*16	M8	9
R/F..37	AD1		102	-	-	-	16	-	5	18	40	4	32	-	-	M5*12.5	-	-
K/S..37	AD2, AD2/ZR		130	50	8	13.5	19	55	6	21.5	40	4	32	12	80	M6*16	M8	9
F..47	AD1		102	-	-	-	16	-	5	18	40	4	32	-	-	M5*12.5	-	-
S..47	AD2, AD2/ZR		130	50	8	13.5	19	55	6	21.5	40	4	32	12	80	M6*16	M8	9
S..57	AD1	160	102	-	-	-	16	-	5	18	40	4	32	-	-	M5*12.5	-	-
	AD2, AD2/ZR		130	50	8	13.5	19	55	6	21.5	40	4	32	12	80	M6*16	M8	9
R..47	AD2, AD2/ZR		123	50	8	13.5	19	55	6	21.5	40	4	32	12	80	M6*16	M8	9
K..47	AD3, AD3/ZR		159	60	8	15.5	24	70	8	27	50	5	40	16	105	M8*19	M10	11
R/F..57	AD2, AD2/ZR		123	50	8	13.5	19	55	6	21.5	40	4	32	12	80	M6*16	M8	9
K..57	AD3, AD3/ZR		159	60	8	15.5	24	70	8	27	50	5	40	16	105	M8*19	M10	11
R/F..67	AD2, AD2/ZR	200	123	50	8	13.5	19	55	6	21.5	40	4	32	12	80	M6*16	M8	9
K/S..67	AD3, AD3/ZR		159	60	8	15.5	24	70	8	27	50	5	40	16	105	M8*19	M10	11
R/F..77	AD2, AD2/ZR		116	50	8	13.5	19	55	6	21.5	40	4	32	12	80	M6*16	M8	9
K/S..77	AD3, AD3/ZR		151	60	8	15.5	24	70	8	27	50	5	40	16	105	M8*19	M10	11
	AD4, AD4/ZR		224	95.5	13	16	38	100	10	41	80	5	70	20	130	M12*28	M12	13.5
	AD2, AD2/ZR		111	50	8	13.5	19	55	6	21.5	40	4	32	12	80	M6*16	M8	9
R/F..87	AD3, AD3/ZR	250	156	70	8	15.5	28	70	8	31	60	5	50	16	105	M8*19	M10	11
K/S..87	AD4, AD4/ZR		219	95.5	13	16	38	100	10	41	80	5	70	20	130	M12*28	M12	13.5
	AD5, AD5/ZR		292	126	11	24	42	120	12	45	110	10	70	20	180	M16*36	M12	13.5

型号 Frame size	AD..	A	B	C	C1	C2	D	D1	F	G	I	I1	I2	I3	M1	S1	S2	S3
R/F..97 K/S..97	AD3, AD3/ZR	300	151	70	8	15.5	28	70	8	31	60	5	50	16	105	M8*19	M10	11
	AD4, AD4/ZR		214	95.5	13	16	38	100	10	41	80	5	70	20	130	M12*28	M12	13.5
	AD5, AD5/ZR		287	126	11	24	42	120	12	45	110	10	70	20	180	M16*36	M16	13.5
	AD6, AD6/ZR		327	130.5	11	22.5	48	130	14	51.5	110	10	80	26	200	M16*36	M16	17.5
R..107 F..107 K..107	AD3, AD3/ZR	350	145	70	8	15.5	28	70	8	31	60	5	50	16	105	M8*19	M10	11
	AD4, AD4/ZR		208	95.5	13	16	38	100	10	41	80	5	70	20	130	M12*28	M12	13.5
	AD5, AD5/ZR		281	126	11	24	42	120	12	45	110	10	70	20	180	M16*36	M16	13.5
	AD6, AD6/ZR		321	130.5	11	22.5	48	130	14	51.5	110	10	80	26	200	M16*36	M16	17.5
F..127 K..127	AD4, AD4/ZR	450	193	95.5	13	16	38	100	10	41	80	5	70	20	130	M12*28	M12	13.5
	AD5, AD5/ZR		266	126	11	24	42	120	12	45	110	10	70	20	180	M12*28	M12	13.5
	AD6, AD6/ZR		306	130.5	11	22.5	48	130	14	51.5	110	10	80	26	200	M16*36	M16	17.5
	AD7, AD7/ZR		300	133	13	19	55	125	16	59	110	10	90	30	190	M20*42	M20	22
R..137	AD4, AD4/ZR	400	201	95.5	13	16	38	100	10	41	80	5	70	20	130	M12*28	M12	13.5
	AD5, AD5/ZR		274	126	11	24	42	120	12	45	110	10	70	20	180	M16*36	M16	13.5
	AD6, AD6/ZR		314	130.5	11	22.5	48	130	14	51.5	110	10	80	26	200	M16*36	M16	17.5
	AD7, AD7/ZR		308	133	13	19	55	125	16	59	110	10	90	30	190	M20*42	M20	22
R..147	AD4, AD4/ZR	450	193	95.5	13	16	38	100	10	41	80	5	70	20	130	M12*28	M12	13.5
	AD5, AD5/ZR		266	126	11	24	42	120	12	45	110	10	70	20	180	M12*28	M12	13.5
	AD6, AD6/ZR		306	130.5	11	22.5	48	130	14	51.5	110	10	80	26	200	M16*36	M16	17.5
	AD7, AD7/ZR		300	133	13	19	55	125	16	59	110	10	90	30	190	M20*42	M20	22
F..157 K..157	AD5, AD5/ZR	550	258	126	11	24	42	120	12	45	110	10	70	20	180	M12*28	M12	13.5
	AD6, AD6/ZR		298	130.5	11	22.5	48	130	14	51.5	110	10	80	26	200	M16*36	M16	17.5
	AD7, AD7/ZR		292	133	13	19	55	125	16	59	110	10	90	30	190	M20*42	M20	22
	AD8, AD8/ZR		374	155	5	22.5	70	120	20	74.5	140	15	110	19.5	210	M12*28	M12	13.5
R..167 K..167	AD5, AD5/ZR	550	258	126	11	24	42	120	12	45	110	10	70	20	180	M16*36	M16	13.5
	AD6, AD6/ZR		298	130.5	11	22.5	48	130	14	51.5	110	10	80	26	200	M16*36	M16	17.5
	AD7, AD7/ZR		292	133	13	19	55	125	16	59	110	10	90	30	190	M20*42	M20	22
	AD8, AD8/ZR		374	155	5	22.5	70	120	20	74.5	140	15	110	19.5	210	M20*42	M12	13.5
K..187	AD5, AD5/ZR	550	258	126	11	24	42	120	12	45	110	10	70	20	180	M16*36	M16	13.5
	AD6, AD6/ZR		298	130.5	11	22.5	48	130	14	51.5	110	10	80	26	200	M16*36	M16	17.5
	AD7, AD7/ZR		292	133	13	19	55	125	16	59	110	10	90	30	190	M20*42	M20	22
	AD8, AD8/ZR		374	155	5	22.5	70	120	20	74.5	140	15	110	19.5	210	M20*42	M12	13.5

7. 选型指南 / Selection Guide

减速机通常是根椐恒转矩、起停不频繁及常温的情况设计。在按选型参数表选择减速器机型号前，先根据负载要求确定需要的输出扭矩，然后根据工况确定使用系数及减速机型号。

The gear units are designed under the condition as follows: constant torque, low start up frequency, normal atmospheric temperature. Before choosing a gear unit in the performance parameter table, first determine the output torque according to the load type, then determine the service factor and gear unit type according to the working condition.

7.1 选型相关参数 / Relevant Parameter

参数名称 Parameter	符号 Code	计算公式 Calculation formula	说明 Note
功率 Power	P	$P_1 = P_2 / \eta$ [Nm] $P_{1a} \geq P_1 \times K$ [Nm]	P_1 -输入功率 -Input power P_2 -输出功率 -Out Power P_{1a} -电机额定功率 -Rated power of driving motor η -传动效率 -Transmission efficiency K -使用系数 -Service factor
传动比 Ratio	I	$I = n_1 / n_2$	n_1 -输入转速 -Input speed n_2 -输出转速 -Output speed
扭矩 Torque	M	$M_2 = 9550 \times P_1 \times \eta / n_2$ [Nm] $M_{1a} \geq M_2 \times K$ [Nm]	M_2 -输出扭矩 -Output torque M_{1a} -选用输出扭矩 -Selected output torque

说明:

1. R,F,K减速器的传动效率 η 为94% ;
2. 为了优化工作条件和提高使用寿命，建议使用1400 r/min或更低转速；
3. 传动比通常为小数，在选型表中保留两位小数。

Notes:

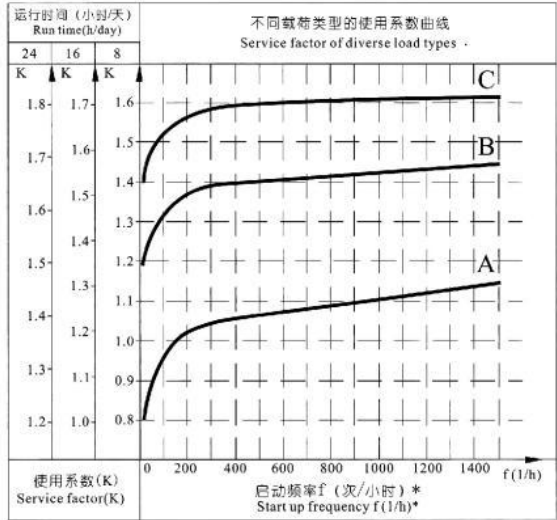
1. R,F,K gear units' transmission efficiency $\eta = 94\%$.
2. To optimize the working conditions and prolong the service life, 1400 r/min or lower rotation speed is suggested.
3. Usually transmission ratio is decimal fraction with 2 radix point tagged in selection table.

7.2 使用系数(K) / Service Factor (K)

减速机的运行与载荷类型、运行时间、启动频次及环境温度等因素有关。为了正确选择减速机的型号，我们将这些影响因素综合为一个使用系数 K 。

The running of gear unit is related to load type, daily operation time, start up frequency and ambient temperature. Service factory, K , is determined by these factors.

(1) 使用系数(K)选择图 / Service Factor Selection Figure



说明:

- 图中的A、B、C为载荷类型
-A: 均匀载荷;
-B: 中等冲击载荷;
-C: 重冲击载荷。
- * 启动频率 f , 包括每小时所有启动、制动的次数, 及变速电机高低速切换时的次数。
- 环境温度对使用系数的影响:
-环境温度30/40℃: $K*(1.15-1.35)$
-环境温度40/50℃: $K*(1.35-1.65)$
-环境温度50/60℃: $K*(1.65-1.85)$

Notes:

- A, B, C in above figure is load type.
-A: Uniform Load.
-B: Moderate Load.
-C: Heavy Load.
- * Start up frequency, including all the starts, brakes and speed switching when using variable speed motor.
- Effect of ambient temperature on service factor:
-Ambient Temperature30/40℃: $K*(1.15-1.35)$.
-Ambient Temperature40/50℃: $K*(1.35-1.65)$.
-Ambient Temperature50/60℃: $K*(1.65-1.85)$.

(2) 载荷类型表 / Load Type Table

用途 Application		载荷 类型 Load type	用途 Application	载荷 类型 Load type	用途 Application	载荷 类型 Load type	
钢铁工业 Iron and steel industry	链式传送机 Chain conveyer	B	运输 Transmission	皮带式输送机 (散状物) Ribbon conveyer (bulk)	B	粉碎机 Kibbler	C
	绕线机(带材或线材) Winding machine (strip or wire)	B		皮带式输送机 (块状物) Ribbon conveyer (nubby)	C	甘蔗切碎机 Cane chopper	B
	拉丝机 Draw bench machine	B		斗式提升机 Bucket lifter	B	甜菜切碎机 Beet chopper	B
	辊道(重的) Roller table (heavy)	C		链式提升机 Chain lifter	C	甜菜清洗机 Beet washer	B
	辊道(轻的) Roller table (light)	B		螺旋输送机 Worm conveyer	B	搅拌机(液状物) Mixer(liquid)	A
	横向移动设备 Horizontal mobile device	B		运货升降机 Lifter	B	搅拌机(半液状物) Mixer(semi-liquid)	B
	连续铸造设备 Continuous casting equipment	C		回旋输送机 Whirl conveyer	C	剥皮机 Barker	C
	铸锭装卸机械 Ingot handling equipment	C		冷却或干燥滚筒 Cooling or dryness rolling drum	B	刨床 Planer	B
	滚轮调整传动装置 Roller adjust device	B		搅拌机(块状物) Mixer(nubby)	B	木工机床 Wood processing machine	A
	辊式拉伸矫直机 Tension roller straightening	B		离心机 Centrifuge	B	筑路机械 Road building machine	B
运输 Transmission	板式输送机 Plate conveyer	B		压延或挤压机 Calender/extruder	B		B
	压载升降机 Ballast lifter	B		搅拌机 Mixer	C	混凝土搅拌机 Concrete mixer	
	斗式输送机 Bucket conveyer	B		滚轧机 Roller machine	C		

7.3 径向载荷 / Radial Loads

当减速机输出轴承受径向载荷时，须根据下面的公式对减速机输出轴的受力进行计算，并将此计算结果 F_r 与性能参数表中的许可径向力 F_r 进行比较。

减速机输出轴的实际径向力 F_{ra} 不允许大于性能参数表中的数值 F_r 。

The radial load on the output bearing is calculated as follow: compare the calculation result F_{ra} with the permitted radial loads given in the selection table.

F_{ra} has to be smaller than or equal to F_r .

$$F_{ra}=2000 \cdot M \cdot f_z / d_o \text{ [N]}$$

F_{ra} : 作用在输出轴中点的径向力[N]

M : 作用在输出轴上的扭矩[Nm]

f_z : 传动附加系数（见下表）

d_o : 输出轴上传动件平均直径[mm]

F_{ra} : Radial force application in the centre of the output shaft.

M : Torque on the output shaft.

f_z : Transmission element factor (following table)

d_o : Average diameter of the mounted transmission element.

传动件 Transmission element	传动附加系数 f_z Transmission element factor f_z	注释 comments
齿轮 Gears	1.00	=17齿 teeth
	1.15	< 17齿 teeth
链轮 Chain sprockets	1.00	=20齿 teeth
	1.25	<20 齿 teeth
	1.4	<13 齿 teeth
V带轮 Narrow V-belt pulleys	1.75	有预紧力作用 Influence of the tensile force
平带轮 Flat-belt pulleys	2.5	有预紧力作用 Influence of the tensile force
齿带轮 Toothed belt pulleys	2.5	有预紧力作用 Influence of the tensile force

当径向载荷作用点不在输出轴的中点时，必须根据下面的公式重新计算减速机允许的最大径向力 F_r' 。

F_{rl} 是基于轴承使用寿命的；

F_{rw} 是基于输出轴强度的。

将 F_{rl} 和 F_{rw} 中的较小者作为减速机允许的最大径向力 F_r' 。

The radial loads must calculated using the following formula in the event of force application not in the centre of the shaft end.

The smaller of the two values F_{rl} (according to the bearing service life) and F_{rw} (according to the shaft strength) is the permitted value for the radial load F_r' .

$$F_{xL} = F_r \cdot a / (b + x) \text{ [N]}$$

$$F_{xw} = c / (f + x) \text{ [N]}$$

F_r : 性能参数表中列出的许可径向力[N]

x : 轴肩到实际作用点的距离[mm]

a, b, f : 减速机径向转换常数[mm] (见下表)

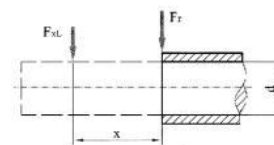
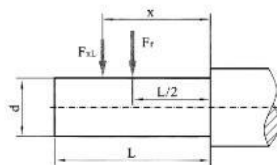
c : 减速机径向转换常数[N.mm] (见下表)

F_r : Permitted overhung load according to the selection table[N]

x : Distance from the shaft shoulder to the force application point[mm]

a, b, f : Gear unit constant for overhung load conversion[mm](see below table)

c : Gear unit constant for overhung load conversion[N.mm]

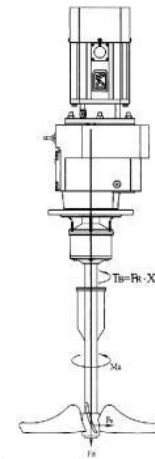


减速机型号 Gear unit type	a [mm]	b [mm]	c [mm]	f [mm]	d [mm]	L [mm]
RX57	43.5	23.5	1.51×10^5	34.2	20	40
RX67	52.5	27.5	2.42×10^5	39.7	25	50
RX77	60.5	30.5	1.95×10^5	0	30	60
RX87	73.5	33.5	7.69×10^5	48.9	40	80
RX97	86.5	36.5	1.43×10^6	53.9	50	100
RX107	102.5	42.5	2.47×10^6	62.3	60	120
R07	72.0	52.0	4.67×10^5	11	20	40
R17	88.5	68.5	6.527×10^4	17	20	40
R27	106.5	81.5	1.56×10^5	11.8	25	50
R37	118	93	1.24×10^5	0	25	50
R47	137	107	2.44×10^5	15	30	60
R57	147.5	112.5	3.77×10^5	18	35	70
R67	168.5	133.5	2.51×10^5	0	35	70
R77	173.7	133.7	3.97×10^5	0	40	80
R87	216.7	166.7	8.47×10^5	0	50	100
R97	255.5	195.5	1.19×10^6	0	60	120
R107	285.5	215.5	2.06×10^6	0	70	140
R137	343.5	285.5	6.14×10^6	30	90	170
R147	402	297	8.65×10^6	33	110	210
R167	450	345	1.26×10^7	0	120	210
F..27	109.5	84.50	1.13×10^5	0	25	50
F..37	123.5	98.50	1.07×10^5	0	25	50
F..47	153.5	123.5	1.40×10^5	0	30	60
F..57	170.7	135.7	2.70×10^5	0	35	70
F..67	181.3	141.3	4.12×10^5	0	40	80

减速机型号 Gear unit type	a [mm]	b [mm]	c [mm]	f [mm]	d [mm]	L [mm]
F..77	215.8	165.8	7.87×10^5	0	50	100
F..87	263.0	203.0	1.06×10^6	0	60	120
F..97	350.0	280.0	2.09×10^6	0	70	140
F..107	373.5	288.5	4.23×10^6	0	90	170
F..127	442.5	337.5	9.45×10^6	0	110	210
F..157	512.0	407.0	1.05×10^7	0	120	210
K..37	123.5	98.50	1.41×10^5	0	25	50
K..47	153.5	123.5	1.78×10^5	0	30	60
K..57	169.7	134.7	6.8×10^5	32	35	70
K..67	181.3	141.3	4.12×10^5	0	40	80
K..77	215.8	165.8	7.69×10^5	0	50	100
K..87	252.0	192.0	1.64×10^6	0	60	120
K..97	319.0	249.0	2.8×10^6	0	70	140
K..107	373.5	288.5	5.53×10^6	0	90	170
K..127	443.5	338.5	8.31×10^6	0	110	210
K..157	509.0	404.0	1.18×10^7	0	120	210
K..167	621.5	496.5	1.88×10^7	0	160	250
K..187	720.5	560.5	3.04×10^7	0	190	320
S..37	118.5	98.50	6.00×10^5	0	20	40
S..47	130.0	105.0	1.33×10^5	0	25	50
S..57	150.0	120.0	2.14×10^5	0	30	60
S..67	184.0	149.0	3.04×10^5	0	35	70
S..77	224.0	179.0	5.26×10^5	0	45	90
S..87	281.5	221.5	1.68×10^6	0	60	120
S..97	326.3	256.3	2.54×10^6	0	70	140

7.4.1 RM齿轮减速电机 / RM geared motors

RM geared motors are a special type of helical geared motor with an extended output bearing housing. They are specially designed for agitator applications and can be used in applications subject to high overhung and axial loads as well as flexural torque. The remaining data correspond to the standard helical geared motors.



7.4.2 许用径向和轴向载荷 / Permitted overhung and axial loads

根据不同的服务系数 f_B 和不同的标称轴承使用寿命 L_{H10} 提供下述的许用径向载荷 F_{Ra} 和轴向载荷 F_{Aa}

The permitted overhung loads F_{Ra} and axial loads F_{Aa} are specified for various service factors f_B and nominal bearing service life L_{H10}

$$f_A = 1.5 / L_{H10h} = 10000h$$

		na[rpm]							
		<16	16-25	26-40	41-60	61-100	101-160	161-250	251-400
RM57	$F_{Ra}[N]$	400	400	400	400	400	405	410	415
	$F_{Aa}[N]$	18800	15000	11500	9700	7100	5650	4450	3800
RM67	$F_{Ra}[N]$	575	575	575	580	575	585	590	600
	$F_{Aa}[N]$	19000	18900	15300	11900	9210	7470	5870	5050
RM77	$F_{Ra}[N]$	1200	1200	1200	1200	1200	1210	1210	1220
	$F_{Aa}[N]$	22000	22000	19400	15100	11400	9220	7200	6710
RM87	$F_{Ra}[N]$	1970	1970	1970	1970	1980	1990	2000	2010
	$F_{Aa}[N]$	30000	30000	23600	18000	14300	11000	8940	8030
RM97	$F_{Ra}[N]$	2980	2980	2990	3010	3050	3060	3060	3080
	$F_{Aa}[N]$	40000	36100	27300	20300	15900	12600	9640	7810
RM107	$F_{Ra}[N]$	4230	4230	4230	4230	4230	4230	3580	3580
	$F_{Aa}[N]$	48000	41000	30300	23000	18000	13100	9550	9030
RM137	$F_{Ra}[N]$	8710	8710	8710	8710	7220	5060	3980	6750
	$F_{Aa}[N]$	70000	70000	70000	57600	46900	44000	35600	32400
RM147	$F_{Ra}[N]$	11100	11100	11100	11100	10600	10600	8640	10800
	$F_{Aa}[N]$	70000	70000	69700	58400	45600	38000	32800	30800
RM167	$F_{Ra}[N]$	14600	14600	14600	14600	14600	14700	—	—
	$F_{Aa}[N]$	70000	70000	70000	60300	45300	36900	—	—

$$f_A = 2.0 / L_{H10h} = 25000h$$

		na[rpm]							
		<16	16-25	26-40	41-60	61-100	101-160	161-250	251-400
RM57	$F_{Ra}[N]$	410	410	410	410	410	415	415	420
	$F_{Aa}[N]$	12100	9600	7350	6050	4300	3350	2600	2200
RM67	$F_{Ra}[N]$	590	590	590	595	590	595	600	605
	$F_{Aa}[N]$	15800	12000	9580	7330	5580	4460	3460	2930
RM77	$F_{Ra}[N]$	1210	1210	1210	1210	1210	1220	1220	1220
	$F_{Aa}[N]$	20000	15400	11900	9070	6670	5280	4010	3700
RM87	$F_{Ra}[N]$	2000	2000	2000	2000	2000	1720	1690	1710
	$F_{Aa}[N]$	24600	19200	14300	10600	8190	6100	5490	4860
RM97	$F_{Ra}[N]$	3040	3040	3040	3050	3070	3080	2540	2430
	$F_{Aa}[N]$	28400	22000	16200	11600	8850	6840	5830	4760
RM107	$F_{Ra}[N]$	4330	4330	4330	4330	4330	4230	3580	3580
	$F_{Aa}[N]$	32300	24800	17800	13000	9780	8170	5950	5620
RM137	$F_{Ra}[N]$	8850	8850	8850	8830	5660	4020	3200	5240

		na[rpm]							
		<16	16-25	26-40	41-60	61-100	101-160	161-250	251-400
	F _{Aa} [N]	70000	59900	48000	37900	33800	31700	25600	23300
RM147	F _{RA} [N]	11400	11400	11400	11400	11400	8320	6850	8440
	F _{As} [N]	70000	60600	45900	39900	33500	27900	24100	22600
RM167	F _{RA} [N]	15100	15100	15100	15100	15100	13100	—	—
	F _{As} [N]	70000	63500	51600	37800	26800	23600	—	—

7.4.3 转换系数和齿轮箱常数 / Conversion factors and gear unit constants

计算RM齿轮减速机额定径向载荷FXL(X≠1000mm)的转换系数

The following conversion factors and gear unit constants apply to calculating the approved overhung load FXL at point x ≠ 1000 mm for RM geared motors:

齿轮箱型号 Gear unit type	a	b	CF (FB=1.5)	CF (FB=2.0)	FF
RM57	1047	47	1220600	1260400	277
RM67	1047	47	2047600	2100000	297.5
RM77	1050	50	2512800	2574700	340.5
RM87	1056.5	56.5	4917800	5029000	414
RM97	1061	61	10911600	11124100	481
RM107	1069	69	15367000	15652000	554.5
RM137	1088	88	25291700	25993600	650
RM147	1091	91	30038700	31173900	756
RM167	1089.5	89.5	42096100	43654300	869

RM减速箱的增加重量 / Additional Weights of RM gear units

型号 Type	用GRF系列最小的法兰所增加的重量表 Additional weight in addition to RF, related to the smallest GRF flange	△m[kg]
RM57	12.0	
RM67	15.8	
RM77	25.0	
RM87	29.7	
RM97	51.3	
RM107	88.0	
RM137	111.1	
RM147	167.4	
RM167	195.4	

8. 存放与维护 / Storage And Maintenance

8.1 存放 / Storage

- (1) 减速机应存放在防雨雪、无震动、温度和湿度无骤然变化、无污染和粉尘、无腐蚀性蒸汽的环境中。
- (2) 减速机与地面之间应放置合适的间隔材料。
- (3) 开箱后暂不使用的减速机，应在各加工面上涂防锈油，并及时放回包装箱内。

1. Under roof, protected against rain and snow, no shock loads, Temperature and humidity without sudden change, no pollution and dust, no corrosive vapor environment.
2. Underlay the block and other material between the ground and equipment
3. The opened but not used gear units should be added with the anti-corrosive oil on its surface and then return to the packing containers timely.

8.2 维护 / Maintenance

注意：在对减速机进行检查或维护前，请务必切断减速机驱动电机的电源，防止触电！等待减速机冷却！

Attention: Before inspection or maintenance, please be sure to cut off the reducer drive motor power, prevent electric shock! And wait until the reducer cooled down.

- (1) 首次换油应在减速机工作300小时后进行。换油时须用合适的清洁剂清洗齿轮箱，不得将合成油与矿物油混合。
- (2) 每隔6个月或工作3000小时后，检查润滑油及油位。当采用 AM 输入时，还应检查弹性体，必要时进行更换。
- (3) 如果减速机加注了矿物润滑油，应根据油池稳态温度的不同，最长三年检查一次润滑油的品质是否改变。
- (4) 如果减速机加注了合成润滑油，应根据油池稳态温度的不同，最长五年检查一次润滑油的品质是否改变。
- (5) 根据减速机工作环境的不同，更换输出轴上的油封。
- (6) 产品出现故障时，不要拆卸部件，与本公司售后服务部门联系（需提供减速机规格，铭牌编号，已使用时间，和故障类型）后再采取合理的措施。

1. For gear units, first oil change should be after about 300 hours (run-in-period). The right lotion is required to clean the gear units with care. Never mix the synthetic oil and mineral oil together.
2. Every 3000 working time or six months, you have to check the oil and oil level. For AM input gear units, the elastomer should be tested or replaced if necessary.
3. For mineral oil, at least every 3 years inspection is needed. Then change the mineral oil and replace the bearing grease.
4. For Synthetic oil, at least every 5 years inspection is needed. Then change the synthetic oil and replace the bearing grease.
5. Depending on the operating conditions, change the Oil seal on output shaft.
6. Once the malfunctions appear, stop disassembling The parts, and firstly please contact the customer service (the information about specification, series number, timed used and malfunction problem), then take the reasonable measures.

9. 订货需知 / Notice For Order

- 订购减速机时请提供以下信息：

 - (1)减速机型号（传动比、输入配置、输出配置、功率和安装方式）。
 - (2)订购数量。
 - (3)其他特殊要求。
 - (4)单位名称、联系人、联系电话。
- Please provide the following information when place the orders:

 - 1. The model mark of the gear ung positionnit(type, Ratio,power and mounti).
 - 2. Quantity.
 - 3. Other special requirements.
 - 4. company, contact and telephone.

10. 故障及排除 / Malfunction and Remedy

故障	可能的原因	解决办法
异常、均匀的运转噪声。	1. 滚动/碾压噪声：轴承损坏。 2. 冲击型噪声：齿轮啮合不均匀。	1. 检查润滑油，更换轴承。 2. 请向客户服务部咨询。
异常、不均匀的运转噪声。	润滑油中有异物。	1. 停机向客户服务部咨询。 2. 检查润滑油。
机油泄漏 * 1. 在减速机盖板上。 2. 在电机法兰上。 3. 在电机轴密封圈上。 4. 在减速机法兰上。 5. 在输出轴密封圈上。	1. 减速机密封垫发生泄漏。 2. 轴上的油封损坏。 3. 减速机没有排气。	1. 在密封垫上涂密封胶并拧紧螺栓。 2. 更换油封。 3. 给减速机排气（参见“安装方式”）。
机油从排气阀旁渗出	1. 机油太多。 2. 传动装置安装方式错误。 3. 频繁冷启动（润滑油起泡沫）。	1. 修正油量（参见“润滑油”）。 2. 正确安装排气阀并且矫正油位（参见“安装方式”）。
减速机输入端驱动正常，但是输出轴不转动。	减速机中的轴与轮毂联接失效。	请向客户服务部咨询。
AM (IEC) 连接器弹性体过早磨损或失效	1. 接触腐蚀性物质（液体或气体）。 2. 过高的环境温度。最大的环境温度允许-20℃到+80℃。 3. 过大的负载。	请向客户服务部咨询。

*：在磨合试运转阶段（24小时的运转时间内），轴密封圈有可能出现短暂、少量的渗油现象。

Problem	Possible Cause	Remedy
Unusual, regular running noise.	1. Meshing/grinding noise; Bearing damage. 2. Knocking noise; Irregularity in the gearings.	1. Check the oil, change bearings. 2. Contact customer service.
Unusual, irregular running noise.	Foreign bodies in the oil.	1. Check the oil. 2. Stop the drive and contact customer service.
Oil leaking: 1. from the gear cover plate. 2. from the motor flange. 3. from the motor oil seal. 4. from the gear unit flange. 5. from the output end oil seal.	1. Rubber seal on the gear cover leaking. 2. Seal defective. 3. Gear unit not vented.	1. Tighten the bolts on the gear cover plate and observe the gear unit. 2. Change the seals. 3. Vent the gear unit (see “Mounting Positions”). 4. Contact customer service.
Oil leaking from breathing valve.	1. Too much oil. 2. Drive operated in incorrect mounting position. 3. Frequent cold starts(oil foams) and/or high oil level.	1. Correct the oil level (see sec. “inspection and maintenance”) 2. Mount the breather valve correctly (see sec. “Mounting Positions”) and correct the oil level (see “Lubricants”).
Output shaft does not turn although the motor is running or the input shaft is rotated.	Connection between shaft and hub in gear unit interrupted.	Contact customer service.
Premature wear or failure in AM(IEC) coupling elastomer.	1. Contacted with aggressive fluids/oil; 2. Impermissibly high ambient/contact temperature. Maximum permitted temperature -20°C to +80°C.	Contact customer service.

Note: Short-term oil/grease leakage at the oil seal is possible in the run-in phase (24 hour running time).