WALAND
华 | 年 | 电 | 机 MOTOR

GEARMOTOR

R/F/K/S系列齿轮减速电机

R系列斜齿轮减速机

F系列平行轴-斜齿轮减速机

K系列斜齿轮-伞齿轮减速机

S系列斜齿轮-蜗轮蜗杆减速机

GEAR
TRANSMISSION
EXPERT

齿 轮 传 动 专 家

GEAR
TRANSMISSION
EXPERT

齿轮传动专家

新视野·新未来

高度决定视野，角度改变观念，尺度把握未来

靠信誉打开市场，靠精品占领市场

我们拥有行业领先的自动化制造设备，为零部件精度的不断提升给予持续的支持。

We have industry leading automated manufacturing equipment, rising for precision parts give continuous support.

我们拥有先进而完善的检验设备，为零件及整机作精密的检测。

We have advanced and perfect testing equipment, spare parts and units to be used as precise detection.

产品图片
PRODUCT PICTURES

R系列斜齿轮减速机 / R helical gear motor

R	RF	RX	RXF

F系列平行轴-斜齿轮减速机 / F parallel shaft-helical gear motor

F	FA	FF	FAF

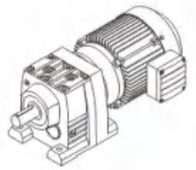
K系列斜齿轮-伞齿轮减速机 / K helical-bevel gear motor

K	KA	KF	KAF

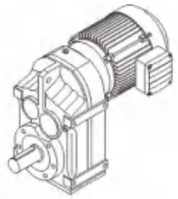
S系列斜齿轮-蜗轮蜗杆减速机 / S helical-worm gear motor

S	SA	SF	SAF

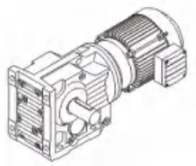
CONTENTS 目录



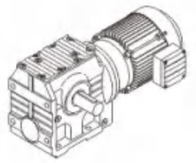
R系列斜齿轮减速机
R helical gear motor
P08-76



F系列平行轴-斜齿轮减速机
F parallel shaft-helical gear motor
P77-123



K系列斜齿轮-伞齿轮减速机
K helical-bevel gear motor
P124-176



S系列斜齿轮-蜗轮蜗杆减速机
S helical-worm gear motor
P177-212

一、性能特点 Characteristics：

1. 我公司齿轮减速机是在模块组合体系的基础上设计的，可以方便地配用各种型式的电动机或采用其它动力输入。同种机型可配用多种功率的电动机。容易实现各种机型之间的组合联接。
2. 传动效率高，单机型减速机效率高达96%。
3. 传动比划分细，范围广。组合机型可以形成较大的传动比，输出转速低。
4. 安装形式多样，可任意位置卧式或法兰安装。

二、工作场所条件 Working Environment：

1. 环境温度-40℃~50℃。(0℃以下启动时润滑油要加热到0℃以上)
2. 海拔不超过1000米。
3. 输入转速不大于1800rpm，齿轮最高圆周速度不超过22m/S。
4. 可用于正反运转。
5. 无行业限制。
6. 其他条件下使用请与我公司技术部联系。

三、选型指南 Instructions for Selection:

减速机通常是按每小时起停次数小于10，常温20℃下，按恒定转矩设计的。在按选型参数表选择机型号前，须先了解工作机载荷和工作情况，在运行功率确定后，按下面方法选择参数表中的使用系数f_B。

R、F、K、S四大系列选型：

1. 确定工作机运行功率P(KW)
2. 根据工作机的载荷特征和每天工作小时数确定最低工况系数f_1（表1）
3. 根据每小时起动次数确定起动系数f_2（表2）
4. 计算总工况系数f_A（S系列须考虑环境温度系数f_3表3）

   $f_A=f_1Xf_2$　　（$f_A=f_1Xf_2Xf_3$）
5. 根据减速机运行功率和输出转速由选型表选定减速机规格，同时必须满足$f_A \leqslant$选型参数表提供的使用系数f_B

注：如用户对减速机可靠性要求较高，须考虑必要的安全系数或来电咨询；

输出端的径向载荷及轴向载荷，请与我公司技术部联系；

减速机的使用与维护请参阅随机附带《减速机使用说明书》。

表1　工作最低工况系数f_1

工作机		日带载运行时间(小时)			工作机		日带载运行时间(小时)		
		≤0.5	>0.5~10	>10			≤0.5	>0.5~10	>10
污水处理	浓缩器	–	–	1.2	起重机械	回转机构*	1	1.4	1.8
	压滤波器	1	1.3	1.5		俯仰机构	1	1.4	1.8
	絮凝器	0.8	1	1.3		行走机构	1.5	1.75	2
	曝气机	–	1.8	2		提升机构	1	1.1	1.4
	搂集设备	1	1.2	1.3		转臂式起重机	1	1.2	1.6
	纵向，回转组合接集装置	1	1.3	1.5	化学工业	挤压机	–	–	1.6
	预缩器	–	1.1	1.3		调浆机	–	1.8	1.8
	螺杆泵	–	1.3	1.5		橡胶研光机	–	1.5	1.5
	水轮机	–	–	2		冷却圆筒	–	1.3	1.4
	离心机	1	1.2	1.3		混料机，用于均匀介质	1	1.3	1.4
	1个活塞容积式泵	1.3	1.4	1.8		混料机，用于非均匀介质	1.4	1.6	1.7
	>1个活塞容积式泵	1.2	1.4	1.5		搅拌机，用于密度均匀介质	1	1.3	1.5
挖泥机	斗式运输机	/	1.6	1.6		搅拌机，用于非密度均匀介质	1.2	1.4	1.6
	倾卸装置	/	1.3	1.5		烘炉	1	1.3	1.5
	行走机构*	1.2	1.6	1.8		离心机	1	1.2	1.3
	斗轮式挖掘机：用于捡拾	/	1.7	1.7	风机类	冷却塔风扇	–	–	2
	斗轮式挖掘机：用于粗料	/	2.2	2.2		风机（轴流和离心式）	–	1.4	1.5
	切碎机	/	2.2	2.2	蔗糖生产	甘蔗切碎机	–	–	1.7
钢铁工业	拉线机	1.25	1.5	1.75		甘蔗碾磨机	–	–	1.7
	绕线机	1	1.25	1.5	甜菜糖生产	甜菜绞碎机	–	–	1.2
	集中驱动辊道（无反转）	1.25	1.5	1.75		榨取机，机械制冷机，蒸煮机	–	–	1.4
	单驱动辊道（无反转）	1.5	1.75	2		甜菜清洗机	–	–	1.5
	集中驱动辊道（有反转）	1.75	2.25	2.5		甜菜切碎机	–	–	1.5
	单驱动辊道（有反转）	2	2.25	2.75	索道缆车	运货索道	–	1.3	1.4
纺织工业	织机	1.25	1.5	1.75		往反系统空中索道	–	1.6	1.8
	纺纱机	1	1.25	1.5		T型杆升降机	–	1.3	1.4
	洗涤机	1	1.25	1.5		连续索道	–	1.4	1.6
输送机械	斗式输送机	–	1.2	1.5	水泥工业	混泥土搅拌机	–	1.5	1.5
	绞车	1.4	1.6	1.6		破碎机*	–	1.2	1.4
	卷扬机	–	1.5	1.8		回转窑	–	–	2
	皮带输送机<=150KW	1	1.2	1.3		管式磨机	–	–	2
	皮带输送机>151KW	1.1	1.3	1.4		选扮机	–	1.6	1.6
	货用电梯*	–	1.2	1.5		辊压机	–	–	2
	客用电梯*	–	1.5	1.8	造纸机械	各种类型**	–	1.8	2
	刮板输送机	–	1.2	1.5		碎浆机驱动装置	–	2	2.25
	自动扶梯	–	1.2	1.4	压缩机	往复式压缩机	–	1.8	1.9
	轨道行走机构	–	1.5	–		离心式压缩机	–	1.4	1.5

工作机额定功率P2的确定：*）按最大扭矩确定额定功率。**）检验热功率是绝对必要的。

表2　起动系数 f_2

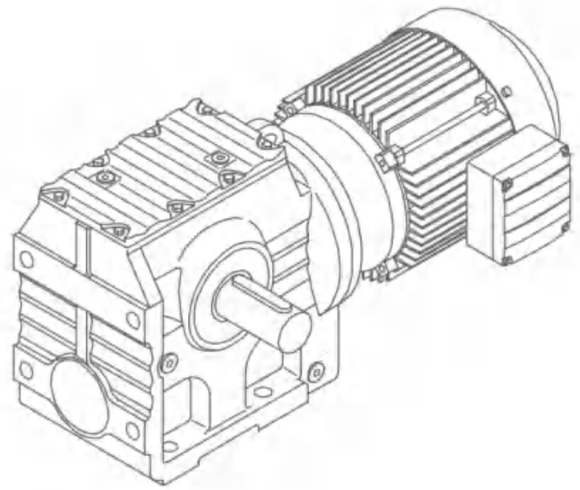
起动次数/每小时	≤.0.5h	0.5–10h	>10h
<10	1.00	1.00	1
<100	1.15	1.25	1.4
<500	1.25	1.4	1.7

表3　环境温度系数 f_3

环境温度	10℃	20℃	30℃	40℃	50℃
环境温度系数f_3	0.88	1.00	1.15	1.35	1.65

S系列斜齿轮-蜗轮蜗杆减速机

S helical-worm gear motor



型 号 说 明
Model Notes

减速电机符号说明

S | A | 67 / T | D | 80 | N | 4 / BMG / HF / TF / 106.75 / d45 / B / M1 / 180°

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16

1 产品代码
R--斜齿轮减速电机
F--平行轴-斜齿轮减速电机
K--斜齿轮-伞齿轮减速电机
S--斜齿轮-蜗轮蜗杆减速电机

2 装配型式
无代码 -- 底脚安装
F-- 法兰安装
A-- 空心轴安装
AF-- 法兰空心轴安装

3 减速机规格号
67-- 减速机
规格号为 67

4 扭矩臂
无代码 -- 无扭矩臂
T-- 扭矩臂

5 电动机
D--三相异步电动机(IP54)
YB--隔爆型三相异步电动机
YGP--辊道用变频调速三相异步电动机
YZP--冶金、起重用变频调速三相异步电动机
YVP--变频调速三相异步电动机
YD--变极多速三相异步电动机

6 电动机规格代号
80-- 电机中心
高为 80mm

7 电动机定子铁心长度代号
D、K、N、S、
M、ML、L

8 电动机极数
4-- 电动机极数为 4

9 制动器
无代号 -- 无制动器
BMG-- 制动器

10 手动释放装置
无代码-- 无手动释放装置
HF--手动释放
锁在制动释放位置
HR--手动释放
自动返回制动位置

11 电机热保护
无代码-- 无电机热保护
TF--热敏电阻保护装置
PTC热敏电阻
TH-恒温器保护装置
双金属片开关

12 减速机传动比
106.75-- 减速机
传动比为 106.75

13 空心轴孔径
d45-- 空心轴
孔径为 45H7
(尺寸表中两种
孔径选择一种)

14 轴指向
A -- 轴指向为 A
B -- 轴指向为 B
AB -- 双输出轴

15 安装位置
M1-- 安装型式图中
M1 位置

16 接线盒位置
无代码 -- 安装型式
图中 0° 位置
180°-- 安装型式
图中 180° 位置

Code Introduction

1 Product Code
R--Helical Geared Motor
F--Parallel Shaft-Helical Geared Motor
K--Helical-Bevel Geared Motor
S--Helical-Worm Geared Motor

2 Unit Model
No Code--Feet-mounted
F--Flange-mounted
A--Hollow Shaft-mounted
AF--Flange-mounted with Hollow Shaft

3 Gear Unit Size
67--Gear Unit Size 67

4 Torque Arm
No Code--No Torque Arm
T--Torque Arm

5 Electric Motor
D-----Three Phase Asychronous Motor(IP 54)
YB-----Flame--proof Three Phase Asychronous Motor
YGP---Table Roller Three Phase Asychronous Motor
YZP---Metallurgy Hoist Frequency Variable Motor
YVP---Frequency Variable Three Phase Motor
YD-----Multi Speed Three Phase Motor

6 Frame Size
80---Motor Center Height 80mm

7 Stator Length
D、K、N、S、
M、ML、L

8 Number of Poles
4--4P

9 Brake
No Code--No Brakes
BMG--Brakes

10 Brake Release
No Code--No Brake Release
HF--Manual release(lock in the brake release position)
Brake Release
HR--Manual release(automatic braking position)

11 Thermal Protection
No Code--No Thermistor
TF--Thermistor Sensor
TF--Thermistor protection (PTC thermistor)
TH--Thermostat protection (Bimetal switch)

12 Ratio
108.03--Ratio 108.03

13 Hollow shaft diameter
d45--Hollow shaft diamerter is 45

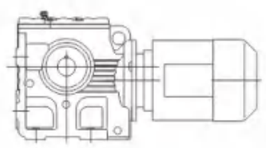
14 Position of the OutputShaft
A--Shaft with A
B--Shaft with B
AB--Shaft with A+B

15 Mounting Position
M1--Mounting Position M1

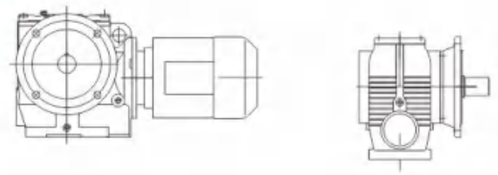
16 Terminal Box Position
No Code--Terminal Box Position is 0°
180° --Terminal Box Position is 180°

设计方案
Type of Geared Motors

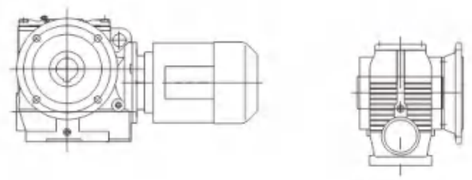
斜齿轮 – 蜗轮蜗杆齿轮减速电机有以下设计方案:
The following types of helical-worm gearmotors can be supplied.



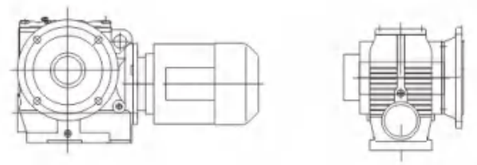
S..D..
底脚安装斜齿轮 – 蜗轮蜗杆齿轮减速电机
Foot-mounted helical-worm gearmotor



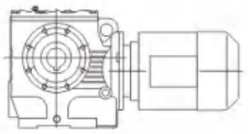
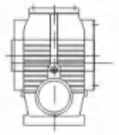
SF..D..
法兰盘安装斜齿轮 – 蜗轮蜗杆齿轮减速电机
Helical-worm gearmotor in B5 flange-mounted version.



SAF..D..
B5 法兰空心轴安装斜齿轮 – 蜗轮蜗杆齿轮减速电机
Helical-worm gearmotor in B5 flange-mounted version with hollow shaft.



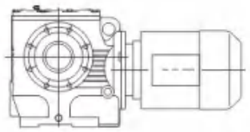
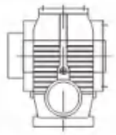
SHF..D..
B5 法兰空心轴锁紧盘安装斜齿轮 – 蜗轮蜗杆齿轮减速电机
Helical-worm gearmotor in B5 flange-mounted version with hollow shaft and shrink disk.

SA..D..

空心轴安装斜齿轮 – 蜗轮蜗杆齿轮减速电机

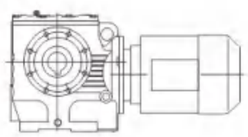
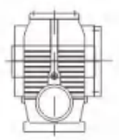
Helical-worm gearmotor with hollow shaft.

SH..D..

空心轴锁紧盘安装斜齿轮 – 蜗轮蜗杆齿轮减速电机

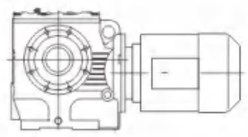
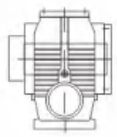
Helical-worm gearmotor with hollow shaft and shrink disk.

SAZ..D..

B14 法兰空心轴安装斜齿轮 – 蜗轮蜗杆齿轮减速电机

Helical-worm gearmotor in B14 flange-mounted version with hollow shaft.

SHZ..D..

B14 法兰空心轴锁紧盘安装斜齿轮 – 蜗轮蜗杆齿轮减速电机

Helical-worm gearmotor in B14 flange-mounted version with hollow shaft and shrink disk.

S系列斜齿轮-蜗轮蜗杆减速机/S helical- worm geared motors

可行的组合方式
Type of combination

以下是斜齿轮蜗杆减速与交流(带制动)电机的组合列表。表中给出了每种组合的速比范围。

The below is combination table between gear box and electromotor in each list the ratio range.

减速机型号 Gear unit size	级 Stages	D63 D71	D80	D90	D100	D112	D132S	D132M
S/SF/SA/SAF37	2	6.80-18.24 19.89-51.30 55.93-157.43	6.80-15.53 19.13 22.50-43.68 53.83 63.33-122.94	6.80-13.39 19.13 22.50-37.66 53.83 63.33-106.00				
S/SF/SA/SAF47	2	7.28-17.62 20.33-54.59 63.80-201.00	7.28-17.62 20.33-54.59 67.20 71.75-158.12	7.28-19.54 23.20-47.32 56.61 67.20 71.75-137.05	7.28-14.24 19.54 23.20-38.23 56.61 67.20 71.75-110.73			
S/SF/SA/SAF57	2	7.28-17.62 20.33-54.59 63.80-201.00	7.28-17.62 20.33-54.59 67.20 71.75-158.12	7.28-19.54 23.20-47.32 56.61 67.20 71.75-137.05	7.28-14.24 19.54 23.20-38.23 56.61 67.20 71.75-110.73			
S/SF/SA/SAF67	2	11.03-17.28 20.37-23.22 24.44 29.63-54.70 62.35-65.63 75.06 85.83-217.41	8.69-17.28 20.37-23.22 24.44-54.70 62.35-65.63 75.06 85.83-217.41	7.56-17.28 20.37-23.22 24.44-54.70 62.35-65.63 78.00-190.1	7.56-17.28 20.37 23.33 26.93-54.70 67.57 78.00-158.45	7.56-20.30 23.33 26.93-46.40 58.80 67.57 78.00-134.40	7.56-13.73 20.30 23.33 26.93-36.85 58.80 67.57 78.00-106.75	7.56-13.73 20.30 23.33 26.93-36.85 58.80 67.57 78.00-106.75
S/SF/SA/SAF77	2	15.28-18.42 20.99 22.89 35.94-53.87 63.03 71.33-75.09 107.83-256.47	12.07-18.42 20.99 22.89 28.41-53.87 63.03 71.33-75.09 85.22-256.47	8.06-18.42 20.99 22.89-75.09 85.22-225.26	8.06-18.42 20.99 22.89-66.67 75.20-189.09	8.06-18.42 20.99 22.89-56.92 66.67 75.20-161.60	8.06-18.97 22.22 25.07-43.33 56.92 66.67 75.20-130.00	8.06-18.97 22.22 25.07-43.33 56.92 66.67 75.20-130.00
S/SF/SA/SAF87	2		17.49-19.70 21.43 25.50 39.10-57.00 64.27-70.43 81.76 91.20 123.48-288.00	12.21-19.70 21.43 25.50-57.00 64.27-70.43 81.76-288.00	9.07-19.70 21.43 25.50-57.00 64.27-86.15 99.26-258.18	9.07-19.70 21.43 25.50-57.00 64.27-77.14 86.15 99.26-222.40	7.88-19.70 21.43 25.50-64.00 77.14 86.15 99.26-180.00	7.88-19.70 21.43 25.50-64.00 77.14 86.15 99.26-180.00
S/SF/SA/SAF97	2		23.59 26.39 49.87-60.59 71.43 80.85 161.74-286.40	17.05-23.59 26.39 36.05-60.59 71.43 80.85 116.92-286.40	13.07-23.859 26.39 32.60-60.59 71.43 80.85-286.40	13.07-23.59 26.39 32.60-60.59 71.43 80.85-286.40	8.26-23.59 26.39 32.60-78.26 89.60-231.67	8.26-23.59 26.39 32.60-78.26 89.60-231.67

减速机型号 Gear unit size	级 Stages	D132ML	D160M	D160L	D180			
S/SF/SA/SAF77	2	8.06-13.76 18.97 22.22 25.07-32.38 56.92 66.67 75.20-97.14	8.06-13.76 18.97 22.22 25.07-32.38 56.92 66.67 75.20-97.14					
S/SF/SA/SAF87	2	7.88-20.27 24.43 27.28-44.03 64.00 77.14 86.15 99.26-139.05	7.88-20.27 24.43 27.28-44.03 64.00 77.14 86.15 99.26-139.05	7.88-20.27 24.43 27.28-44.03 64.00 77.14 86.15 99.26-139.05	7.88-15.64 20.27 24.43 27.28-34.96 64.00 77.14 86.15 99.26-110.40			
S/SF/SA/SAF97	2	8.26-23.59 26.39 32.60-55.79 65.45 78.26 89.60-180.95	8.26-23.59 26.39 32.60-55.79 65.45 78.26 89.60-180.95	8.26-23.59 26.39 32.60-55.79 65.45 78.26 89.60-180.95	8.26-21.23 24.13 27.63-44.89 65.45 78.26 89.60-145.60			

输出转速 Output speed n_a [r/min]	输出转矩 Output torque M_a [N•m]	传动比 Ratio i	径向负荷 Permitted overhung load F_{ra} [N]	使用系数 Service factor f_B	机型号 Model	电机极数 Pole P
0.12kW						
0.12	4610	11267	28700	0.90	S 97 R57	4
0.14	4210	10078	32800	1.00	SF 97 R57	4
0.16	3500	8608	34200	1.20	SA 97 R57	4
0.18	3090	7554	34800	1.35	SAF 97 R57	4
0.21	2630	6706	27200	0.95	S 87 R57	4
0.23	2330	5875	27800	1.05	SF 87 R57	4
0.27	1960	5187	28500	1.25	SA 87 R57	4
0.30	1740	4606	28800	1.45	SAF 87 R57	4
0.36	1450	3872	29200	1.70		
0.39	1340	3540	9700	0.95		
0.45	1170	3098	12500	1.10		
0.58	1280	2374	11600	0.95		
0.66	1130	2083	12900	1.10	S 77 R37	4
0.76	960	1813	14100	1.30	SF 77 R37	4
0.79	910	1745	14300	1.35	SA 77 R37	4
0.86	840	1600	14700	1.50	SAF 77 R37	4
0.98	735	1404	15200	1.70		
1.1	645	1245	15600	1.90		
					S 67 R37	4
1.2	575	1194	8160	1.00	SF 67 R37	4
1.3	515	1045	8720	1.10	SA 67 R37	4
1.5	445	914	9280	1.30	SAF 67 R37	4
1.7	400	809	9580	1.40		
1.9	355	712	9860	1.60		
2.2	295	615	10100	1.95	S 67 R37	4
2.5	265	543	10300	2.2	SF 67 R37	4
2.9	220	469	10400	2.6	SA 67 R37	4
3.3	197	424	10500	2.9	SAF 67 R37	4
3.8	180	365	10500	3.2		
2.1	315	655	6930	0.95		
2.4	275	574	7290	1.10		
2.7	240	506	7540	1.25	S 57 R17	4
3.2	210	438	7750	1.45	SF 57 R17	4
3.6	183	388	7880	1.65	SA 57 R17	4
4.1	163	336	7980	1.85	SAF 57 R17	4
4.7	140	294	8070	2.1		
5.1	134	269	8090	2.2		
3.2	210	438	5060	0.90		
3.6	183	388	5210	1.00		
4.1	162	336	5320	1.15	S 47 R17	4
4.7	139	294	5450	1.35	SF 47 R17	4
5.4	95	257	5680	1.95	SA 47 R17	4
6.0	113	229	5570	1.65	SAF 47 R17	4
6.9	99	200	5630	1.90		
7.4	92	187	5660	2.0		
6.8	99	202	3000	0.95		
7.7	88	179	3000	1.05	S 37 R17	4
8.7	78	158	3000	1.15	SF 37 R17	4
9.6	72	144	3000	1.25	SA 37 R17	4
12	59	118	3000	1.55	SAF 37 R17	4
13	55	110	3000	1.65		
4.5	143	201.00	8050	2.1	S 57	6
4.9	133	184.80	8090	2.2	SF 57	6
5.7	116	158.12	8150	2.5	SA 57	6
6.6	103	137.05	8180	2.9	SAF 57	6
4.5	138	201.00	5490	1.30		
4.9	129	184.80	5540	1.40	S 47	6
5.7	112	158.12	5610	1.55	SF 47	6
6.6	99	137.05	5660	1.75	SA 47	6
7.0	93	128.10	5680	1.85	SAF 47	6

输出转速 Output speed n_a [r/min]	输出转矩 Output torque M_a [N•m]	传动比 Ratio i	径向负荷 Permitted overhung load F_{ra} [N]	使用系数 Service factor f_B	机型号 Model	电机极数 Pole P
0.12kW						
6.9	95	201.00	5680	1.80		
7.5	89	184.80	5700	1.90	S 47	4
8.7	77	158.12	5740	2.2	SF 47	4
10	68	137.05	5780	2.5	SA 47	4
11	64	128.10	5790	2.6	SAF 47	4
12	57	110.73	5810	3.0		
5.7	107	157.43	3000	0.85		
6.2	99	144.40	3000	0.95	S 37	6
7.3	86	122.94	3000	1.05	SF 37	6
8.5	76	106.00	3000	1.20	SA 37	6
9.1	71	98.80	3000	1.30	SAF 37	6
10	64	86.36	3000	1.45		
8.8	74	157.43	3000	1.25		
9.6	68	144.40	3000	1.35		
11	60	122.94	3000	1.55	S 37	4
13	52	106.00	3000	1.70	SF 37	4
14	49	98.80	3000	1.75	SA 37	4
16	44	86.36	3000	1.95	SAF 37	4
17	41	80.96	3000	2.1		
19	37	71.44	3000	2.3		
22	33	63.33	3000	2.5		
25	35	55.93	3000	2.3		
27	33	51.30	3000	2.5		
32	28	43.68	3000	2.9		
37	25	37.66	3000	3.2	S 37	4
39	23	35.10	3000	3.4	SF 37	4
45	20	30.68	3000	3.7	SA 37	4
48	19	28.76	3000	3.9	SAF 37	4
54	17	25.38	3000	4.3		
61	15	22.50	3000	4.8		
69	14	19.89	3000	3.6		
76	13	18.24	3000	3.9		
89	11	15.53	2870	4.4		
0.18kW						
					S 87 R57	4
0.29	2970	4606	20900	0.85	SF 87 R57	4
0.34	2480	3872	27500	1.00	SA 87 R57	4
					SAF 87 R57	4
0.38	2350	3475	27800	1.05		
0.45	1970	2905	28500	1.25	S 87 R57	4
0.51	1710	2586	28900	1.45	SF 87 R57	4
0.57	1520	2335	29100	1.65	SA 87 R57	4
0.64	1320	2054	29400	1.90	SAF 87 R57	4
0.72	1170	1824	29500	2.1		
0.81	1050	1631	29600	2.4		
					S 77 R37	4
0.94	1220	1404	12200	1.00	SF 77 R37	4
1.1	1070	1245	13000	1.15	SA 77 R37	4
					SAF 77 R37	4
1.2	990	1100	13900	1.25		
1.4	850	954	14700	1.45	S 77 R37	4
1.6	745	837	15200	1.65	SF 77 R37	4
1.9	625	714	15600	2.0	SA 77 R37	4
2.1	555	637	15900	2.2	SAF 77 R37	4
2.3	500	574	16000	2.5		
1.9	580	712	8060	1.00		
2.2	490	615	8920	1.15	S 67 R37	4
2.4	440	543	9330	1.30	SF 67 R37	4
2.8	370	469	9780	1.55	SA 67 R37	4
3.1	335	424	9970	1.70	SAF 67 R37	4
3.6	295	365	10100	1.90		

S系列斜齿轮-蜗轮蜗杆减速机/S helical- worm geared motors

输出转速 Output speed n_a [r/min]	输出转矩 Output torque M_a [N • m]	传动比 Ratio i	径向负荷 Permitted overhung load F_{ra} [N]	使用系数 Service factor f_B	机型号 Model	电机极数 Pole P
0.18kW						
3.0	345	438	6630	0.85		
3.4	305	388	7040	1.00		
3.9	270	336	7350	1.10	S 57R17	4
4.5	235	294	7600	1.30	SF 57R17	4
4.9	220	269	7690	1.35	SA 57R17	4
5.8	188	229	7860	1.60	SAF 57R17	4
6.5	169	204	7950	1.80		
7.1	154	187	8010	1.95		
4.5	230	294	4910	0.80		
5.1	158	257	5400	1.15		
5.8	185	229	5200	1.00	S 47R17	4
6.6	162	200	5330	1.15	SF 47R17	4
7.1	152	187	5380	1.20	SA 47R17	4
8.0	134	165	5470	1.40	SAF 47R17	4
8.9	121	148	5530	1.55		
10	108	131	5590	1.70		
4.0	255	217.41	10300	2.2	S 67	6
4.6	225	190.11	10400	2.5	SF 67	6
4.8	215	180.60	10400	2.6	SA 67	6
					SAF 67	6
4.3	220	201.00	7670	1.35	S 57	6
4.7	205	184.80	7760	1.45	SF 57	6
5.5	180	158.12	7900	1.65	SA 57	6
6.3	159	137.05	7990	1.85	SAF 57	6
6.6	154	201.00	8010	1.90	S 57	4
7.1	143	184.80	8050	2.1	SF 57	4
8.4	125	158.12	8120	2.4	SA 57	4
9.6	110	137.05	8160	2.7	SAF 57	4
4.3	215	201.00	5090	0.85		
4.7	199	184.80	5180	0.95	S 47	6
5.5	173	158.12	5320	1.00	SF 47	6
6.3	153	137.05	5420	1.10	SA 47	6
6.8	144	128.10	5470	1.20	SAF 47	6
6.6	149	201.00	5440	1.15		
7.1	138	184.80	5490	1.25		
8.4	121	158.12	5570	1.40		
9.6	107	137.05	5630	1.60	S 47	4
10	100	128.10	5660	1.65	SF 47	4
12	88	110.73	5700	1.90	SA 47	4
14	77	94.08	5750	2.2	SAF 47	4
16	69	84.00	5770	2.4		
18	60	71.75	5800	2.8		
19	69	69.39	5750	2.2		
8.4	115	157.43	3000	0.80		
9.1	107	144.40	3000	0.85	S 37	4
11	93	122.94	3000	1.00	SF 37	4
12	82	106.00	3000	1.10	SA 37	4
13	77	98.80	3000	1.15	SAF 37	4
15	68	86.36	3000	1.25		
16	64	80.96	3000	1.30		
18	58	71.44	3000	1.45		
21	52	63.33	3000	1.60		
24	55	55.93	3000	1.45		
26	51	51.30	3000	1.60		
30	44	43.68	3000	1.85		
35	38	37.66	3000	2.1		
38	36	35.10	3000	2.2		
43	32	30.68	3000	2.4	S 37	4
46	30	28.76	3000	2.5	SF 37	4
52	27	25.38	3000	2.8	SA 37	4
59	24	22.50	3000	3.1	SAF 37	4
66	22	19.89	3000	2.3		
72	21	18.24	2940	2.5		
85	18	15.53	2810	2.8		
99	15	13.39	2700	3.2		
106	14	12.48	2650	3.4		
121	13	10.91	2550	3.8		
129	12	10.23	2500	4.0		

输出转速 Output speed n_a [r/min]	输出转矩 Output torque M_a [N • m]	传动比 Ratio i	径向负荷 Permitted overhung load F_{ra} [N]	使用系数 Service factor f_B	机型号 Model	电机极数 Pole P
0.25kW						
0.45	2860	2905	24300	0.85		
0.50	2500	2586	27500	1.00		
0.56	2240	2335	28000	1.10	S 87 R57	4
0.63	1950	2054	28500	1.30	SF 87 R57	4
0.71	1730	1824	28900	1.45	SA 87 R57	4
0.80	1550	1631	29100	1.60	SAF 87 R57	4
1.4	910	930	29800	2.8		
1.4	1230	954	12100	1.00		
1.5	1080	837	13300	1.15	S 77 R37	4
1.8	910	714	14400	1.35	SF 77 R37	4
2.0	810	637	14900	1.55	SA 77 R37	4
2.3	730	574	15200	1.70	SAF 77 R37	4
2.6	625	499	15600	2.0		
2.4	635	543	7420	0.90		
2.8	540	469	8500	1.05	S 67 R37	4
3.1	485	424	8970	1.15	SF 67 R37	4
3.6	430	365	9390	1.30	SA 67 R37	4
4.1	375	319	9750	1.50	SAF 67 R37	4
4.6	330	281	9990	1.75		
4.4	340	294	6720	0.90		
4.8	315	269	6950	0.95		
5.7	270	229	7330	1.10	S 57 R17	4
6.4	245	204	7530	1.25	SF 57 R17	4
6.9	225	187	7660	1.35	SA 57 R17	4
7.9	198	165	7810	1.50	SAF 57 R17	4
9.9	159	131	7990	1.90		
3.1	435	217.41	9350	1.30	S 67	8
3.6	390	190.11	9670	1.45	SF 67	8
3.8	370	180.60	9770	1.50	SA 67	8
4.3	330	158.45	9980	1.70	SAF 67	8
4.1	350	217.41	9890	1.60	S 67	6
4.6	310	190.11	10100	1.80	SF 67	6
4.9	295	180.60	10100	1.90	SA 67	6
5.6	265	158.45	10300	2.1	SAF 67	6
6.0	245	217.41	10300	2.1		
6.8	220	190.11	10400	2.4		
7.2	210	180.60	10500	2.5	S 67	4
8.2	187	158.45	10500	2.8	SF 67	4
9.7	161	134.40	10600	3.2	SA 67	4
11	147	121.33	10600	3.5	SAF 67	4
12	131	106.75	10700	4.0		
4.4	305	201.00	7050	1.00		
4.8	285	184.80	7230	1.05	S 57	6
5.6	245	158.12	7510	1.20	SF 57	6
6.4	220	137.05	7690	1.35	SA 57	6
6.9	205	128.10	7760	1.45	SAF 57	6
6.5	215	201.00	7700	1.35		
7.0	200	184.80	7790	1.45		
8.2	176	158.12	7920	1.70	S 57	4
9.5	155	137.05	8010	1.90	SF 57	4
10	146	128.10	8040	2.0	SA 57	4
12	129	110.73	8110	2.3	SAF 57	4
14	111	94.08	8160	2.7		
15	101	84.00	8190	2.9		

输出转速 Output speed n_a [r/min]	输出转矩 Output torque M_a [N·m]	传动比 Ratio i	径向负荷 Permitted overhung load F_{Ra} [N]	使用系数 Service factor f_B	机型号 Model	电机极数 Pole P
0.25kW						
6.5	210	201.00	5120	0.80		
7.0	195	184.80	5210	0.85		
8.2	170	158.12	5340	1.00		
9.5	150	137.05	5440	1.10		
10	141	128.10	5480	1.20		
12	124	110.73	5560	1.35	S 47	4
14	108	94.08	5630	1.55	SF 47	4
15	98	84.00	5670	1.70	SA 47	4
18	85	71.75	5720	1.95	SAF 47	4
19	97	69.39	5640	1.60		
19	80	67.20	5740	2.1		
20	90	63.80	5670	1.70		
24	78	54.59	5720	2.0		
27	68	47.32	5760	2.3		
13	108	98.80	3000	0.80		
15	96	86.36	3000	0.90		
16	91	80.96	3000	0.95		
18	81	71.44	3000	1.05		
21	73	63.33	3000	1.10		
23	78	55.93	3000	1.05		
25	72	51.30	3000	1.15		
30	62	43.68	3000	1.30		
35	54	37.66	3000	1.45		
37	51	35.10	3000	1.55		
42	45	30.68	3000	1.70	S 37	4
45	42	28.76	3000	1.80	SF 37	4
51	37	25.38	3000	2.0	SA 37	4
58	33	22.50	3000	2.2	SAF 37	4
65	32	19.89	2870	1.65		
71	29	18.24	2820	1.80		
84	25	15.53	2710	2.0		
97	22	13.39	2620	2.3		
104	20	12.48	2570	2.4		
119	18	10.91	2480	2.7		
127	17	10.23	2440	2.8		
144	15	9.02	2360	3.1		
163	13	8.00	2290	3.4		
191	11	6.80	2180	3.8		
92	21	28.76	2740	3.0		
105	19	25.38	2650	3.3		
118	17	22.50	2560	3.4	S 37	2
134	16	19.89	2410	2.8	SF 37	2
146	15	18.24	2350	3.0	SA 37	2
171	13	15.53	2250	3.4	SAF 37	2
199	11	13.39	2160	3.8		
213	10	12.48	2120	4.0		
0.37kW						
0.67	2810	2054	25400	0.90	S 87 R57	4
0.76	2490	1824	27500	1.00	SF 87 R57	4
0.85	2230	1631	28000	1.10	SA 87 R57	4
1.5	1320	930	29400	1.90	SAF 87 R57	4
1.7	1190	831	29500	2.1		
1.9	1290	714	11500	0.95		
2.2	1150	637	12700	1.10	S 77 R37	4
2.4	1040	574	13600	1.20	SF 77 R37	4
2.8	900	499	14400	1.40	SA 77 R37	4
3.2	785	438	15000	1.60	SAF 77 R37	4
3.5	700	389	15400	1.80		
3.8	615	365	7700	0.95	S 67 R37	4
4.3	535	319	8540	1.05	SF 67 R37	4
4.9	470	281	9080	1.20	SA 67 R37	4
5.6	425	246	9430	1.35	SAF 67 R37	4
2.4	980	288.00	29700	2.5	S 87	8
2.6	890	258.18	29800	2.8	SF 87	8
3.1	775	222.40	29900	3.2	SA 87	8
					SAF 87	8

输出转速 Output speed n_a [r/min]	输出转矩 Output torque M_a [N·m]	传动比 Ratio i	径向负荷 Permitted overhung load F_{Ra} [N]	使用系数 Service factor f_B	机型号 Model	电机极数 Pole P
0.37kW						
3.0	735	225.26	15200	1.75	S 77	8
3.2	700	214.00	15300	1.80	SF 77	8
3.6	630	189.09	15600	2.0	SA 77	8
4.2	545	161.60	15900	2.3	SAF 77	8
3.5	645	256.47	15600	2.0	S 77	6
4.0	575	225.26	15800	2.2	SF 77	6
4.2	545	214.00	15900	2.3	SA 77	6
					SAF 77	6
4.1	505	217.41	8810	1.10	S 67	6
4.7	450	190.11	9260	1.25	SF 67	6
5.0	430	180.60	9400	1.30	SA 67	6
5.7	380	158.45	9700	1.45	SAF 67	6
6.3	345	217.41	9900	1.50		
7.3	310	190.11	10100	1.70	S 67	4
7.6	295	180.60	10200	1.75	SF 67	4
8.7	260	158.45	10300	2.0	SA 67	4
10	225	134.40	10400	2.3	SAF 67	4
11	205	121.33	10500	2.5		
5.7	360	158.12	6490	0.80		
6.6	315	137.05	6930	0.95	S 57	6
7.0	300	128.10	7100	1.00	SF 57	6
8.1	265	110.73	7390	1.10	SA 57	6
9.6	230	94.08	7630	1.30	SAF 57	6
11	205	84.00	7760	1.45		
6.9	305	201.00	7050	0.95		
7.5	285	184.80	7230	1.05		
8.7	245	158.12	7510	1.20		
10	220	137.05	7690	1.35		
11	205	128.10	7770	1.45	S 57	4
12	180	110.73	7900	1.65	SF 57	4
15	156	94.08	8000	1.90	SA 57	4
16	141	84.00	8060	2.1	SAF 57	4
19	122	71.75	8130	2.4		
20	139	69.39	8070	1.75		
21	115	67.20	8150	2.5		
22	128	63.80	8110	1.90		
10	210	137.05	5110	0.80		
11	199	128.10	5190	0.85		
12	175	110.73	5320	0.95		
15	151	94.08	5430	1.10		
16	137	84.00	5500	1.20		
19	119	71.75	5580	1.40		
20	136	69.39	5460	1.15		
21	112	67.20	5610	1.50		
22	126	63.80	5510	1.25	S 47	4
25	109	54.59	5590	1.40	SF 47	4
29	96	47.32	5410	1.60	SA 47	4
31	90	44.22	5330	1.75	SAF 47	4
36	78	38.23	5140	2.0		
42	67	32.48	4930	2.3		
48	60	29.00	4790	2.6		
56	52	24.77	4590	3.0		
59	49	23.20	4510	3.1		
68	46	20.33	4180	2.4		
78	40	17.62	4030	2.8		
84	37	16.47	3960	3.0		

输出转速 Output speed n_a [r/min]	输出转矩 Output torque M_a [N·m]	传动比 Ratio i	径向负荷 Permitted overhung load F_{Ra} [N]	使用系数 Service factor f_B	机型号 Model	电机极数 Pole P
0.37kW						
22	103	63.33	3000	0.80		
27	101	51.30	3000	0.80		
32	87	43.68	3000	0.95		
37	76	37.66	3000	1.05		
39	71	35.10	3000	1.10		
45	63	30.68	3000	1.20		
48	59	28.76	3000	1.30		
54	52	25.38	2940	1.40	S 37	4
61	47	22.50	2870	1.55	SF 37	4
69	44	19.89	2610	1.20	SA 37	4
76	41	18.24	2570	1.30	SAF 37	4
89	35	15.53	2500	1.45		
103	30	13.39	2420	1.60		
111	28	12.48	2390	1.70		
127	25	10.91	2320	1.95		
135	23	10.23	2280	2.0		
153	21	9.02	2220	2.2		
173	18	8.00	2150	2.5		
203	16	6.80	2070	2.7		
104	28	25.38	2540	2.2		
118	25	22.50	2460	2.3		
133	24	19.89	2290	1.85		
145	22	18.24	2250	2.0	S 37	2
171	19	15.53	2160	2.3	SF 37	2
198	16	13.39	2080	2.5	SA 37	2
212	15	12.48	2040	2.7	SAF 37	2
243	13	10.91	1970	3.0		
259	12	10.23	1940	3.1		
294	11	9.02	1870	3.3		
0.55kW						
1.0	2810	1332	25400	0.90		
1.1	2540	1191	27400	1.00		
1.3	2210	1032	28100	1.15	S 87 R57	4
1.5	2040	930	28400	1.25	SF 87 R57	4
1.6	1840	831	28700	1.35	SA 87 R57	4
1.9	1600	719	29000	1.55	SAF 87 R57	4
2.2	1400	624	29300	1.80		
2.4	1270	558	29400	1.95		
3.1	1010	435	29700	2.4		
3.1	1210	438	12300	1.05	S 77 R37	4
3.5	1070	389	13300	1.15	SF 77 R37	4
4.2	910	327	14300	1.35	SA 77 R37	4
4.7	820	289	14800	1.50	SAF 77 R37	4
5.4	710	250	15300	1.75		
5.5	650	246	6600	0.90	S 67 R37	4
6.2	580	221	8080	1.00	SF 67 R37	4
6.9	530	198	8590	1.10	SA 67 R37	4
8.1	455	168	9230	1.25	SAF 67 R37	4
2.4	1450	288.00	29200	1.70	S 87	8
2.6	1320	258.18	29400	1.85	SF 87	8
3.1	1150	222.40	29600	2.1	SA 87	8
					SAF 87	8
3.1	1130	288.00	29600	2.2	S 87	6
3.5	1020	258.18	29700	2.4	SF 87	6
4.1	900	222.40	29800	2.7	SA 87	6
4.4	820	202.96	29800	2.9	SAF 87	6
3.0	1090	225.26	13200	1.15	S 77	8
3.2	1040	214.00	13500	1.20	SF 77	8
3.6	930	189.09	14200	1.35	SA 77	8
4.2	810	161.60	14900	1.55	SAF 77	8
3.5	960	256.47	14100	1.35	S 77	6
4.0	850	225.26	14700	1.50	SF 77	6
4.2	810	214.00	14800	1.55	SA 77	6
4.8	730	189.09	15200	1.75	SAF 77	6
5.6	635	161.60	15600	2.0		

输出转速 Output speed n_a [r/min]	输出转矩 Output torque M_a [N·m]	传动比 Ratio i	径向负荷 Permitted overhung load F_{Ra} [N]	使用系数 Service factor f_B	机型号 Model	电机极数 Pole P
0.55kW						
5.3	660	256.47	15500	1.90	S 77	4
6.0	590	225.26	15800	2.2	SF 77	4
6.4	560	214.00	15800	2.3	SA 77	4
7.2	505	189.09	16000	2.5	SAF 77	4
6.3	520	217.41	8660	1.00		
7.2	465	190.11	9150	1.10		
7.5	445	180.60	9300	1.15		
8.6	395	158.45	9620	1.30	S 67	4
10	340	134.40	9930	1.55	SF 67	4
11	310	121.33	10100	1.65	SA 67	4
13	275	106.75	10200	1.85	SAF 67	4
13	265	100.80	10300	1.95		
16	230	85.83	10400	2.3		
18	230	75.06	10400	2.1		
21	205	65.63	10500	2.3		
9.6	340	94.08	6710	0.85		
11	305	84.00	7030	0.95		
13	265	71.75	7360	1.10	S 57	6
13	250	67.20	7470	1.15	SF 57	6
16	245	54.59	7520	1.10	SA 57	6
19	215	47.32	7710	1.25	SAF 57	6
20	200	44.22	7790	1.35		
24	176	38.23	7920	1.55		
8.6	370	158.12	6330	0.80		
9.9	330	137.05	6820	0.90		
11	310	128.10	7010	0.95		
12	270	110.73	7320	1.10		
14	235	94.08	7590	1.25		
16	210	84.00	7730	1.40		
19	184	71.75	7880	1.55	S 57	4
20	174	67.20	7930	1.65	SF 57	4
25	167	54.59	7960	1.45	SA 57	4
29	146	47.32	8040	1.70	SAF 57	4
31	137	44.22	8080	1.80		
36	120	38.23	8130	2.0		
42	103	32.48	7970	2.4		
47	92	29.00	7730	2.7		
55	79	24.77	7390	3.1		
59	75	23.20	7250	3.3		
67	69	20.33	6760	2.4		
16	205	84.00	5140	0.80		
19	179	71.75	5290	0.95		
20	169	67.20	5350	1.00		
25	165	54.59	5130	0.95		
29	144	47.32	5010	1.10		
31	135	44.22	4950	1.15		
36	118	38.23	4810	1.30		
42	101	32.48	4650	1.55	S 47	4
47	91	29.00	4540	1.70	SF 47	4
55	78	24.77	4380	2.0	SA 47	4
59	74	23.20	4310	2.1	SAF 47	4
67	69	20.33	3920	1.60		
77	60	17.62	3810	1.85		
83	56	16.47	3750	1.95		
96	49	14.24	3630	2.2		
112	42	12.10	3500	2.6		
126	37	10.80	3400	2.9		
147	32	9.23	3270	3.4		

输出转速 Output speed n_a [r/min]	输出转矩 Output torque M_a [N·m]	传动比 Ratio i	径向负荷 Permitted overhung load F_{Ra} [N]	使用系数 Service factor f_B	机型号 Model	电机极数 Pole P
0.55kW						
44	94	30.68	2680	0.80		
47	89	28.76	2670	0.85		
54	79	25.38	2630	0.95		
60	70	22.50	2600	1.05		
71	60	19.13	2540	1.20		
88	53	15.53	2230	0.95	S 37	4
102	46	13.39	2200	1.10	SF 37	4
109	43	12.48	2180	1.15	SA 37	4
125	37	10.91	2130	1.30	SAF 37	4
133	35	10.23	2110	1.35		
151	31	9.02	2070	1.50		
170	28	8.00	2020	1.60		
200	24	6.80	1950	1.80		
94	46	28.76	2420	1.40		
106	41	25.38	2360	1.50		
120	37	22.50	2310	1.55		
136	34	19.89	2100	1.30		
148	32	18.24	2070	1.40	S 37	2
174	27	15.53	2010	1.55	SF 37	2
202	24	13.39	1950	1.75	SA 37	2
216	22	12.48	1920	1.85	SAF 37	2
248	19	10.91	1870	2.0		
264	18	10.23	1840	2.1		
299	16	9.02	1780	2.2		
338	14	8.00	1730	2.5		
397	12	6.80	1660	2.4		
0.75kW						
1.1	4840	1223	21300	0.85		
1.3	4240	1070	30700	1.00		
1.5	3650	928	33900	1.15	S 97R57	4
1.7	3230	824	34600	1.30	SF 97R57	4
1.9	2300	714	35900	1.85	SA 97R57	4
2.2	2450	626	35700	1.70	SAF 97R57	4
2.6	2110	538	36100	2.0		
2.8	1900	484	36300	2.2		
1.3	3030	1032	18700	0.85		
1.5	2780	930	25900	0.90		
1.7	2510	831	2750	1.00	S 87R57	4
1.9	2190	719	28100	1.15	SF 87R57	4
2.2	1920	624	28600	1.30	SA 87R57	4
2.5	1730	558	28900	1.45	SAF 87R57	4
3.2	1390	435	29300	1.75		
4.3	1060	323	29600	2.3		
4.2	1240	327	12000	1.00	S 77R37	4
4.8	1110	289	13100	1.10	SF 77R37	4
5.5	960	250	14000	1.30	SA 77R37	4
6.3	850	219	14700	1.45	SAF 77R37	4
2.4	2040	286.40	36100	2.1	S 97	8
2.6	1890	262.22	36300	2.2	SF 97	8
3.0	1690	231.67	36400	2.5	SA 97	8
					SAF 97	8
3.1	1540	288.00	29100	1.60	S 87	6
3.5	1400	258.18	29300	1.75	SF 87	6
4.1	1220	222.40	29500	1.95	SA 87	6
4.4	1120	202.96	29600	2.1	SAF 87	6
4.8	1050	288.00	29600	2.2	S 87	4
5.3	950	258.18	29700	2.4	SF 87	4
6.2	830	222.40	29800	2.8	SA 87	4
6.8	765	202.96	29900	3.0	SAF 87	4
4.0	1160	225.26	12700	1.10	S 77	6
4.2	1110	214.00	13100	1.15	SF 77	6
4.8	990	189.09	13900	1.30	SA 77	6
5.6	860	161.60	14600	1.45	SAF 77	6

输出转速 Output speed n_a [r/min]	输出转矩 Output torque M_a [N·m]	传动比 Ratio i	径向负荷 Permitted overhung load F_{Ra} [N]	使用系数 Service factor f_B	机型号 Model	电机极数 Pole P
0.75kW						
5.4	890	256.47	14500	1.45		
6.1	790	225.26	14900	1.60		
6.4	755	214.00	15100	1.70	S 77	4
7.3	675	189.09	15400	1.90	SF 77	4
8.5	585	161.60	15800	2.2	SA 77	4
9.3	545	148.15	15900	2.3	SAF 77	4
11	480	130.00	16000	2.5		
11	460	123.20	16000	2.6		
13	405	107.83	16000	2.9		
7.3	625	190.11	7570	0.85		
7.6	595	180.60	7900	0.85		
8.7	530	158.45	8570	1.00		
10	460	134.40	9480	1.15		
11	420	121.33	9470	1.25	S 67	4
13	375	106.75	9750	1.40	SF 67	4
14	355	100.80	9860	1.45	SA 67	4
16	305	85.83	10100	1.70	SAF 67	4
18	310	75.06	10100	1.55		
21	275	65.63	10200	1.75		
22	260	62.35	10300	1.85		
25	230	54.70	10300	2.1		
30	198	46.40	9840	2.4		
13	365	71.75	6430	0.80	S 57	6
13	345	67.20	6660	0.85	SF 57	6
16	295	56.64	7140	1.00	SA 57	6
19	295	47.32	7150	0.90	SAF 57	6
20	275	44.22	7300	1.00		
12	365	110.73	6400	0.80		
15	315	94.08	6930	0.95		
16	285	84.00	7210	1.05		
19	250	71.75	7500	1.15		
21	235	67.20	7590	1.20		
25	225	54.59	7650	1.10		
29	197	47.32	7810	1.25		
31	185	44.22	7870	1.35	S 57	4
36	161	38.23	7980	1.50	SF 57	4
42	138	32.48	7670	1.80	SA 57	4
48	124	29.00	7450	2.0	SAF 57	4
56	107	24.77	7150	2.3		
59	100	23.20	7030	2.5		
68	93	20.33	6490	1.80		
78	81	17.62	6260	2.1		
84	76	16.47	6160	2.2		
97	66	14.24	5930	2.6		
29	194	47.32	4530	0.80	S 47	4
31	182	44.22	4500	0.85	SF 47	4
36	159	38.23	4420	1.00	SA 47	4
42	136	32.48	4310	1.15	SAF 47	4
48	122	29.00	4230	1.25		
56	106	24.77	4110	1.45		
59	99	23.20	4060	1.55		
68	93	20.33	3610	1.20		
78	81	17.62	3530	1.35	S 47	4
84	76	16.47	3490	1.45	SF 47	4
97	66	14.24	3410	1.65	SA 47	4
114	56	12.10	3300	1.95	SAF 47	4
128	50	10.80	3230	2.2		
150	43	9.23	3120	2.5		
160	41	8.64	3070	2.7		
190	34	7.28	2950	3.0		
72	81	19.13	2270	0.85		
111	57	12.48	1930	0.85	S 37	4
127	50	10.91	1920	0.95	SF 37	4
135	47	10.23	1910	1.00	SA 37	4
153	42	9.02	1890	1.10	SAF 37	4
173	37	8.00	1860	1.20		
203	32	6.80	1820	1.35		

输出转速 Output speed n_a [r/min]	输出转矩 Output torque M_a [N•m]	传动比 Ratio i	径向负荷 Permitted overhung load F_{Ra} [N]	使用系数 Service factor f_B	机型号 Model	电机极数 Pole P
0.75kW						
141	43	19.13	2090	1.05		
174	37	15.53	1860	1.15		
202	32	13.39	1820	1.30		
216	30	12.48	1800	1.35	S 37	2
248	26	10.91	1760	1.50	SF 37	2
264	25	10.23	1740	1.55	SA 37	2
299	22	9.02	1690	1.65	SAF 37	2
338	19	8.00	1650	1.80		
397	17	6.80	1590	1.75		
1.1kW						
1.7	4720	824	23300	0.90		
2.0	3370	714	34400	1.25	S 97 R57	4
2.2	3590	626	34000	1.15	SF 97 R57	4
2.6	3090	538	34800	1.35	SA 97 R57	4
2.9	2790	484	35200	1.50	SAF 97 R57	4
3.3	2430	420	35700	1.75		
2.2	2820	624	25400	0.90		
2.5	2550	558	27400	1.00		
2.9	2240	485	28000	1.10		
3.2	2040	435	28400	1.20	S 87 R57	4
3.7	1790	378	28800	1.35	SF 87 R57	4
4.3	1560	323	29100	1.55	SA 87 R57	4
5.0	1370	281	29300	1.75	SAF 87 R57	4
5.5	1460	255	29200	1.35		
6.3	1280	222	29400	1.55		
6.8	1200	205	29500	1.65		
6.4	1240	219	12000	1.00	S 77 R37	4
					SF 77 R37	4
					SA 77 R37	4
					SAF 77 R37	4
2.4	3030	286.40	34900	1.40	S 97	8
2.6	2800	262.22	35200	1.50	SF 97	8
2.9	2500	231.67	35600	1.70	SA 97	8
3.5	2160	196.52	36000	1.95	SAF 97	8
3.2	2310	286.40	35900	1.80	S 97	6
3.5	2130	262.22	36000	1.95	SF 97	6
4.0	1900	231.67	36300	2.2	SA 97	6
					SAF 97	6
3.2	2220	288.00	28100	1.10	S 87	6
3.6	2010	258.18	28400	1.20	SF 87	6
4.1	1760	222.40	28800	1.35	SA 87	6
4.5	1620	202.96	29000	1.45	SAF 87	6
4.9	1520	288.00	29100	1.50		
5.4	1370	258.18	29300	1.65	S 87	4
6.3	1200	222.40	29500	1.90	SF 87	4
6.9	1100	202.96	29600	2.0	SA 87	4
7.8	990	180.00	29700	2.2	SAF 87	4
9.2	840	151.30	29800	2.5		
6.2	1150	225.26	12800	1.10		
6.5	1100	214.00	13200	1.15		
7.4	980	189.09	13900	1.30		
8.7	850	161.60	14700	1.50	S 77	4
9.4	785	148.15	15000	1.60	SF 77	4
11	695	130.00	15400	1.75	SA 77	4
11	665	123.20	15500	1.80	SAF 77	4
13	585	107.83	15800	2.0		
14	535	97.14	15900	2.1		
16	470	85.22	16000	2.3		

输出转速 Output speed n_a [r/min]	输出转矩 Output torque M_a [N•m]	传动比 Ratio i	径向负荷 Permitted overhung load F_{Ra} [N]	使用系数 Service factor f_B	机型号 Model	电机极数 Pole P
1.1kW						
12	605	121.33	7790	0.85		
13	540	106.75	8490	0.95		
14	515	100.80	8740	1.00		
16	445	85.83	9300	1.15		
18	405	78.00	9550	1.30	S 67	4
21	400	65.63	9610	1.20	SF 67	4
22	380	62.35	9720	1.25	SA 67	4
26	335	54.70	9560	1.45	SAF 67	4
30	285	46.40	9240	1.65		
33	260	41.89	9040	1.85		
38	230	36.85	8780	2.1		
40	220	34.80	8660	2.2		
47	187	29.63	8330	2.6		
20	360	71.75	6480	0.80	S 57	4
21	340	67.20	6710	0.85	SF 57	4
25	290	56.61	7180	0.90	SA 57	4
30	285	47.32	7220	0.85	SAF 57	4
32	265	44.22	7360	0.90		
37	235	38.23	7410	1.05		
43	200	32.48	7170	1.25		
48	179	29.00	7000	1.35		
57	154	24.77	6760	1.60	S 57	4
60	145	23.20	6660	1.70	SF 57	4
72	123	19.54	6390	1.75	SA 57	4
79	117	17.62	5870	1.45	SAF 57	4
85	110	16.47	5780	1.55		
98	95	14.24	5610	1.75		
116	82	12.10	5400	2.1		
130	73	10.80	5260	2.3		
152	63	9.23	5050	2.7		
48	177	29.00	3720	0.90		
57	153	24.77	3670	1.00	S 47	4
60	143	23.20	3640	1.05	SF 47	4
72	122	19.54	3560	1.20	SA 47	4
79	117	17.62	3070	0.95	SAF 47	4
85	109	16.47	3060	1.00		
98	95	14.24	3030	1.15		
116	81	12.10	2980	1.35	S 47	4
130	73	10.80	2940	1.50	SF 47	4
152	63	9.23	2870	1.75	SA 47	4
162	59	8.64	2840	1.85	SAF 47	4
192	50	7.28	2750	2.1		
175	54	8.00	1570	0.85	S 37	4
206	46	6.80	1580	0.95	SF 37	4
					SA 37	4
					SAF 37	4
202	47	13.39	1590	0.85		
216	44	12.48	1580	0.90	S 37	2
248	39	10.91	1570	1.00	SF 37	2
264	36	10.23	1560	1.05	SA 37	2
299	32	9.02	1540	1.10	SAF 37	2
338	28	8.00	1510	1.25		
397	24	6.80	1470	1.20		
1.5kW						
2.0	4590	714	29100	0.90		
2.2	4890	626	19100	0.85	S 97 R57	4
2.6	4220	538	31100	1.00	SF 97 R57	4
2.9	3810	484	33600	1.10	SA 97 R57	4
3.4	3310	420	34500	1.25	SAF 97 R57	4
3.8	2990	376	35000	1.40		
4.3	2630	327	35500	1.60		
2.9	3060	485	17200	0.80		
3.2	2780	435	25900	0.90		
3.7	2450	378	27600	1.00	S 87 R57	4
4.4	2130	323	28200	1.15	SF 87 R57	4
5.0	1870	281	28600	1.30	SA 87 R57	4
5.5	2000	255	28400	1.00	SAF 87 R57	4
6.3	1750	222	28800	1.15		
6.9	1630	205	29000	1.20		

输出转速 Output speed n_a [r/min]	输出转矩 Output torque M_a [N•m]	传动比 Ratio i	径向负荷 Permitted overhung load F_{Ra} [N]	使用系数 Service factor f_s	机型号 Model	电机极数 Pole P
1.5kW						
2.4	4030	286.40	33100	1.05	S 97	8
2.7	3720	262.22	33700	1.15	SF 97	8
3.0	3330	231.67	34400	1.25	SA 97	8
3.6	2870	196.52	35200	1.45	SAF 97	8
3.2	3150	286.40	34700	1.35	S 97	6
3.5	2910	262.22	35100	1.45	SF 97	6
4.0	2600	231.67	35500	1.60	SA 97	6
4.7	2230	196.52	35900	1.90	SAF 97	6
4.9	2130	286.40	36000	1.90	S 97	4
5.4	1970	262.22	36200	2.0	SF 97	4
6.1	1760	231.67	36400	2.3	SA 97	4
7.2	1510	196.52	36600	2.7	SAF 97	4
3.6	2740	258.18	26600	0.90	S 87	6
4.1	2390	222.40	27700	1.00	SF 87	6
4.5	2200	202.96	28100	1.10	SA 87	6
5.1	1980	180.00	28500	1.20	SAF 87	6
4.9	2060	288.00	28300	1.10		
5.5	1860	258.18	28700	1.20		
6.3	1630	222.40	29000	1.40		
6.9	1500	202.96	29200	1.50	S 87	4
7.8	1340	180.00	29400	1.65	SF 87	4
9.3	1140	151.30	29600	1.90	SA 87	4
10	1060	139.05	29600	2.0	SAF 87	4
11	950	123.48	29700	2.2		
13	850	110.40	29800	2.3		
14	770	99.26	29900	2.5		
7.5	1330	189.09	10600	0.95		
8.7	1150	161.60	12700	1.10		
9.5	1060	148.15	13400	1.15		
11	940	130.00	14100	1.30		
11	900	123.20	14400	1.35		
13	795	107.83	14900	1.45		
15	725	97.14	15300	1.60	S 77	4
17	640	85.22	15400	1.70	SF 77	4
19	650	75.09	14100	1.70	SA 77	4
20	620	71.33	14000	1.80	SAF 77	4
21	510	66.67	14600	2.0		
22	550	63.03	13700	2.0		
25	440	56.92	14000	2.3		
26	470	53.87	13200	2.3		
29	435	49.38	13000	2.5		
33	385	43.33	12600	2.9		
16	600	85.83	7850	0.85	S 67	4
18	550	78.00	8390	0.95	SF 67	4
21	540	65.63	8510	0.90	SA 67	4
					SAF 67	4
23	515	62.35	8740	0.95		
26	455	54.70	8810	1.05		
30	390	46.40	8590	1.25		
34	355	41.89	8450	1.35		
38	310	36.85	8250	1.55		
41	295	34.80	8160	1.60	S 67	4
48	255	29.63	7900	1.90	SF 67	4
52	230	26.93	7740	2.1	SA 67	4
58	220	24.44	7000	1.55	SAF 67	4
61	210	23.22	6950	1.60		
69	186	20.37	6790	1.85		
82	159	17.28	6580	2.1		
90	144	15.60	6440	2.4		
103	127	13.73	6260	2.7		

输出转速 Output speed n_a [r/min]	输出转矩 Output torque M_a [N•m]	传动比 Ratio i	径向负荷 Permitted overhung load F_{Ra} [N]	使用系数 Service factor f_s	机型号 Model	电机极数 Pole P
1.5kW						
43	270	32.48	6630	0.90		
49	245	29.00	6520	1.00		
57	210	24.77	6340	1.15		
61	196	23.20	6270	1.25	S 57	4
72	167	19.54	6060	1.30	SF 57	4
80	159	17.62	5430	1.05	SA 57	4
86	159	16.47	5380	1.15	SAF 57	4
99	129	14.24	5250	1.30		
117	110	12.10	5100	1.55		
131	99	10.80	4980	1.70		
153	85	9.23	4820	2.0		
99	129	14.24	2610	0.85	S 47	4
117	110	12.10	2620	1.00	SF 47	4
131	99	10.80	2620	1.10	SA 47	4
					SAF 47	4
153	85	9.23	2590	1.30	S 47	4
163	79	8.64	2580	1.35	SF 47	4
194	67	7.28	2530	1.55	SA 47	4
					SAF 47	4
299	44	9.02	1330	0.85	S 37	4
338	39	8.00	1350	0.90	SF 37	4
397	33	6.80	1340	0.90	SA 37	4
					SAF 37	4
2.2kW						
3.4	4900	420	18800	0.85		
3.8	4410	376	28300	0.95	S 97 R57	4
4.3	3870	327	33500	1.10	SF 97 R57	4
4.9	3420	287	34300	1.25	SA 97 R57	4
5.6	3000	252	35000	1.40	SAF 97 R57	4
3.3	4530	286.40	30200	0.95	S 97	6
3.6	4180	262.22	32800	1.00	SF 97	6
4.1	3730	231.67	33700	1.15	SA 97	6
4.8	3210	196.52	34600	1.30	SAF 97	6
4.9	3130	286.40	34800	1.30		
5.4	2890	262.22	35100	1.40		
6.1	2570	231.67	35500	1.55		
7.2	2210	196.52	36000	1.80		
7.8	2050	180.95	36100	1.90	S 97	4
8.7	1840	161.74	36300	2.1	SF 97	4
9.7	1670	145.60	36500	2.2	SA 97	4
11	1520	131.85	36600	2.4	SAF 97	4
12	1360	116.92	36700	2.6		
13	1240	105.71	36800	2.8		
16	1060	89.60	36900	3.1		
5.5	2730	258.18	26800	0.85		
6.3	2380	222.40	27700	0.95		
6.9	2190	202.96	28100	1.05		
7.8	1970	180.00	28500	1.10		
9.3	1680	151.30	28900	1.30		
10	1550	139.05	29100	1.35		
11	1390	123.48	29300	1.50	S 87	4
13	1250	110.40	29500	1.60	SF 87	4
14	1130	99.26	29600	1.75	SA 87	4
16	990	86.15	29700	1.90	SAF 87	4
17	1060	81.76	29600	1.50		
18	890	77.14	29800	2.0		
20	920	70.43	29700	1.75		
22	840	64.27	29800	1.90		
25	750	57.00	29900	2.1		

输出转速 Output speed n_a [r/min]	输出转矩 Output torque M_a [N · m]	传动比 Ratio i	径向负荷 Permitted overhung load F_{Ra} [N]	使用系数 Service factor f_s	机型号 Model	电机极数 Pole P
2.2kW						
11	1390	130.00	6140	0.85		
11	1320	123.20	11100	0.90		
13	1170	107.83	12600	1.00		
15	1060	97.14	13400	1.10		
17	940	85.22	14100	1.15		
19	840	75.20	13800	1.30		
21	745	66.67	13500	1.40		
22	810	63.03	12400	1.35		
25	645	56.92	13100	1.55	S 77	4
26	695	53.87	12100	1.60	SF 77	4
29	635	49.38	11900	1.75	SA 77	4
33	560	43.33	11700	1.95	SAF 77	4
34	535	41.07	11600	2.1		
39	470	35.94	11300	2.3		
44	425	32.38	11000	2.6		
50	375	28.41	10700	2.8		
56	330	25.07	10400	3.1		
62	310	22.89	9490	2.3		
67	285	20.99	9340	2.5		
30	570	46.40	7480	0.85		
34	515	41.89	7440	0.95		
38	460	36.85	7360	1.05		
41	435	34.80	7320	1.10		
48	370	29.63	7180	1.30		
52	340	26.93	7080	1.40	S 67	4
60	295	23.33	6920	1.60	SF 67	4
69	275	20.37	6060	1.25	SA 67	4
82	235	17.28	5960	1.45	SAF 67	4
90	210	15.60	5880	1.60		
103	186	13.73	5770	1.85		
109	176	12.96	5710	1.95		
128	151	11.03	5550	2.3		
141	137	10.03	5450	2.5		
162	119	8.69	5300	2.8		
99	190	14.24	4640	0.90		
117	162	12.10	4580	1.05	S 57	4
131	145	10.80	4520	1.15	SF 57	4
153	124	9.23	4420	1.35	SA 57	4
163	117	8.64	4380	1.40	SAF 57	4
194	99	7.28	4250	1.50		
3.0kW						
4.9	4710	287	23700	0.90	S 97R57	4
5.6	4140	252	32400	1.00	SF 97R57	4
6.4	3620	219	33900	1.15	SA 97R57	4
6.8	3400	205	34300	1.25	SAF 97R57	4
4.9	4290	286.40	32600	0.95		
5.3	3960	262.22	33300	1.00		
6.0	3530	231.67	34100	1.15		
7.1	3040	196.52	34900	1.30		
7.7	2810	180.95	35200	1.40	S 97	4
8.7	2530	161.74	35600	1.50	SF 97	4
9.6	2300	145.60	35900	1.65	SA 97	4
11	2090	131.85	36100	1.75	SAF 97	4
12	1870	116.92	36300	1.90		
13	1700	105.71	36400	2.0		
16	1450	89.60	36600	2.2		
17	1470	80.85	36600	2.2		

输出转速 Output speed n_a [r/min]	输出转矩 Output torque M_a [N · m]	传动比 Ratio i	径向负荷 Permitted overhung load F_{Ra} [N]	使用系数 Service factor f_s	机型号 Model	电机极数 Pole P
3.0kW						
7.8	2700	180.00	27100	0.80		
9.2	2300	151.30	27900	0.95		
10	2130	139.05	28200	1.00		
11	1900	123.48	28600	1.10		
13	1720	110.40	28900	1.15		
14	1550	99.26	29100	1.25		
16	1360	86.15	29300	1.40		
17	1460	81.76	29200	1.10	S 87	4
18	1230	77.14	29500	1.50	SF 87	4
20	1260	70.43	29400	1.25	SA 87	4
22	1160	64.27	29500	1.40	SAF 87	4
25	1030	57.00	29700	1.55		
29	870	47.91	29800	1.85		
32	800	44.03	29800	2.0		
36	715	39.10	29900	2.2		
40	640	34.96	29900	2.5		
16	1290	85.22	11500	0.85	S 77	4
19	1150	75.20	12500	0.95	SF 77	4
21	1020	66.67	12400	1.00	SA 77	4
22	1110	63.03	10900	1.00	SAF 77	4
25	880	56.92	12100	1.10		
26	950	53.87	10800	1.15		
28	880	49.38	10800	1.25		
32	770	43.33	10700	1.40		
34	735	41.07	10600	1.50		
39	645	35.94	10400	1.70		
43	585	32.38	10300	1.85	S 77	4
49	515	28.41	10100	2.0	SF 77	4
56	455	25.07	9840	2.2	SA 77	4
61	430	22.89	8680	1.65	SAF 77	4
67	395	20.99	8590	1.80		
76	345	18.42	8450	2.0		
80	330	17.45	8390	2.2		
92	290	15.28	8210	2.5		
102	260	13.76	8060	2.7		
116	230	12.07	7870	3.1		
131	205	10.65	7670	3.5		
					S 67	4
40	595	34.80	6350	0.80	SF 67	4
47	510	29.63	6350	0.95	SA 67	4
52	465	26.93	6330	1.05	SAF 67	4
60	405	23.33	6270	1.20		
69	375	20.37	5230	0.90		
81	320	17.28	5250	1.05	S 67	4
90	290	15.60	5240	1.15	SF 67	4
102	255	13.73	5210	1.35	SA 67	4
108	240	12.96	5190	1.40	SAF 67	4
127	205	11.03	5100	1.65		
140	188	10.03	5050	1.80		
161	164	8.69	4940	2.0		
185	143	7.56	4830	2.1		
130	199	10.80	3990	0.85	S 57	4
152	171	9.23	3970	1.00	SF 57	4
162	160	8.64	3960	1.05	SA 57	4
192	136	7.28	3900	1.10	SAF 57	4
4.0kW					S 97R57	4
6.5	4780	219	22700	0.90	SF 97R57	4
6.9	4490	205	27300	0.95	SA 97R57	4
					SAF 97R57	4

输出转速 Output speed n_a [r/min]	输出转矩 Output torque M_a [N·m]	传动比 Ratio i	径向负荷 Permitted overhung load F_{Ra} [N]	使用系数 Service factor f_s	机型号 Model	电机极数 Pole P
4.0kW						
6.1	4650	231.67	28300	0.85		
7.2	3990	196.52	33200	1.00		
7.8	3700	180.95	33800	1.05		
8.8	3330	161.74	3440	1.15		
9.8	3020	145.60	34900	1.25	S 97	4
11	2750	131.85	35300	1.35	SF 97	4
12	2460	116.92	35700	1.45	SA 97	4
13	2230	105.71	35900	1.55	SAF 97	4
16	1910	89.60	36300	1.70		
18	1940	80.85	36200	1.65		
20	1720	71.43	36400	1.90		
23	1470	60.59	36600	2.2		
25	1350	55.79	36700	2.4		
12	2510	123.48	27500	0.80		
13	2260	110.40	28000	0.90		
14	2040	99.26	28400	0.95		
16	1790	86.15	28800	1.05		
18	1610	77.14	29000	1.15		
20	1660	70.43	28900	0.95	S 87	4
22	1520	64.27	29100	1.05	SF 87	4
25	1350	57.00	29300	1.20	SA 87	4
30	1150	47.91	29500	1.40	SAF 87	4
32	1060	44.03	29600	1.50		
36	940	39.10	29700	1.70		
41	840	34.96	29800	1.90		
45	760	31.43	29100	2.1		
52	665	27.28	28200	2.4		
56	635	25.50	26600	1.95		
25	1160	56.92	10800	0.85	S 77	4
26	1250	53.87	9250	0.90	SF 77	4
29	1150	49.38	9320	0.95	SA 77	4
33	1020	43.33	9370	1.10	SAF 77	4
35	960	41.07	9370	1.15		
40	850	35.94	9340	1.30		
44	765	32.38	9290	1.40		
50	675	28.41	9190	1.55		
57	600	25.07	9070	1.70	S 77	4
62	565	22.89	7650	1.25	SF 77	4
68	520	20.99	7650	1.35	SA 77	4
77	455	18.42	7620	1.55	SAF 77	4
81	435	17.45	7590	1.65		
93	380	15.28	7510	1.85		
103	345	13.76	7430	2.1		
118	300	12.07	7310	2.4		
133	265	10.65	7170	2.7		
150	235	9.44	7030	3.1		
176	205	8.06	6830	3.3		
82	420	17.28	3810	0.80		
91	380	15.60	4180	0.90	S 67	4
103	335	13.73	4500	1.00	SF 67	4
110	320	12.96	4520	1.05	SA 67	4
129	270	11.03	4530	1.25	SAF 67	4
142	245	10.03	4520	1.35		
163	215	8.69	4490	1.55		
188	188	7.56	4430	1.55		
5.5kW						
8.8	4550	161.74	29900	0.85		
9.8	4130	145.60	32900	0.90		
11	3760	131.85	33700	0.95		
12	3360	116.92	34400	1.05		
14	3050	105.71	34900	1.15	S 97	4
16	2610	89.60	35500	1.25	SF 97	4
18	2290	78.26	35900	1.35	SA 97	4
20	2350	71.43	35800	1.40	SAF 97	4
22	1930	65.45	36200	1.50		
24	2000	60.59	36200	1.65		
26	1850	55.79	36300	1.80		
29	1660	49.87	36500	2.0		
32	1500	44.89	36600	2.2		
35	1360	40.65	36700	2.4		

输出转速 Output speed n_a [r/min]	输出转矩 Output torque M_a [N·m]	传动比 Ratio i	径向负荷 Permitted overhung load F_{Ra} [N]	使用系数 Service factor f_s	机型号 Model	电机极数 Pole P
5.5kW						
19	2200	77.14	28100	0.85	S 87	4
22	1850	64.00	28700	0.90	SF 87	4
25	1850	57.00	28700	0.85	SA 87	4
30	1560	47.91	29100	1.00	SAF 87	4
32	1440	44.03	29200	1.10		
37	1280	39.10	29200	1.25		
41	1150	34.96	28600	1.40		
45	1040	31.43	28000	1.55		
52	910	27.28	27200	1.75	S 87	4
56	870	25.50	25200	1.45	SF 87	4
67	730	21.43	24500	1.70	SA 87	4
73	675	19.70	24100	1.85	SAF 87	4
82	600	17.49	23500	2.1		
91	535	15.64	23000	2.3		
102	485	14.06	22500	2.6		
117	420	12.21	21800	3.0		
131	375	10.93	21200	3.3		
35	1320	41.07	7560	0.85	S 77	4
40	1160	35.94	7750	0.95	SF 77	4
44	1050	32.38	7850	1.05	SA 77	4
50	920	28.41	7920	1.15	SAF 77	4
57	820	25.07	7940	1.25		
64	725	22.22	7920	1.35		
78	625	18.42	5920	1.15		
82	590	17.45	6170	1.20	S 77	4
94	520	15.28	6490	1.35	SF 77	4
104	470	13.76	6510	1.50	SA 77	4
118	410	12.07	6500	1.75	SAF 77	4
134	365	10.65	6450	2.0		
151	325	9.44	6390	2.2		
177	275	8.06	6280	2.5		
130	370	11.03	2930	0.90	S 67	4
143	340	10.03	3260	1.00	SF 67	4
165	295	8.69	3670	1.15	SA 67	4
189	255	7.56	3850	1.15	SAF 67	4
7.5kW						
14	4160	105.71	32900	0.85		
16	3560	89.60	34100	0.90		
18	3130	78.26	34800	1.00		
20	3200	71.43	34600	1.05		
22	2630	65.45	35500	1.10	S 97	4
24	2730	60.59	35300	1.20	SF 97	4
26	2520	55.79	35600	1.30	SA 97	4
29	2260	49.87	35900	1.45	SAF 97	4
32	2040	44.89	36100	1.60		
35	1850	40.65	36300	1.80		
40	1650	36.05	36200	2.0		
44	1490	32.60	35500	2.2		
54	1240	26.39	32000	2.1		
61	1110	23.59	31400	2.3		
67	1000	21.23	30700	2.6		
74	910	19.23	30100	2.9		
32	1970	44.03	27800	0.80	S 87	4
37	1750	39.10	27400	0.90	SF 87	4
41	1570	34.96	27000	1.00	SA 87	4
45	1420	31.43	26500	1.15	SAF 87	4
52	1230	27.28	25900	1.30		
56	1180	25.50	23500	1.05		
67	1000	21.43	23000	1.25		
73	920	19.70	22700	1.35	S 87	4
82	820	17.49	22300	1.50	SF 87	4
91	730	15.64	21900	1.70	SA 87	4
102	660	14.06	21500	1.90	SAF 87	4
117	575	12.21	20900	2.2		
131	515	10.93	20500	2.4		
158	430	9.07	19700	2.7		
181	375	7.88	19100	2.7		

输出转速 Output speed n_a [r/min]	输出转距 Output torque M_a [N·m]	传动比 Ratio i	径向负荷 Permitted overhung load F_{Ra} [N]	使用系数 Service factor f_s	机型号 Model	电机极数 Pole P
7.5KW						
50	1260	28.41	6240	0.85	S 77	4
57	1110	25.07	6450	0.90	SF 77	4
64	990	22.22	6600	1.00	SA 77	4
78	850	18.42	1860	0.85	SAF 77	4
82	810	17.45	2290	0.90		
94	705	15.28	3250	1.00	S 77	4
104	640	13.76	3890	1.10	SF 77	4
118	560	12.07	4570	1.30	SA 77	4
134	495	10.65	5110	1.45	SAF 77	4
151	440	9.44	5540	1.65		
177	380	8.06	5580	1.80		
9.2KW						
18	3810	78.26	33600	0.80	S 97	4
22	3210	65.45	34600	0.90	SF 97	4
26	3070	55.79	34800	1.05	SA 97	4
29	2750	49.87	35300	1.20	SAF 97	4
32	2480	44.89	35600	1.35		
35	2260	40.65	35700	1.45		
40	2010	36.05	35000	1.65		
44	1820	32.60	34400	1.75		
55	1510	26.39	30700	1.70	S 97	4
61	1350	23.59	30200	1.9	SF 97	4
68	1220	21.23	29700	2.1	SA 97	4
75	1110	19.23	29200	2.3	SAF 97	4
84	980	17.05	28500	2.6		
93	890	15.42	28000	2.8		
110	755	13.07	27000	3.1		
126	660	11.41	26200	3.3		
41	1910	34.96	25600	0.85	S 87	4
46	1730	31.43	25300	0.95	SF 87	4
53	1500	27.28	24800	1.05	SA 87	4
59	1350	24.43	24400	1.20	SAF 87	4
71	1120	20.27	23700	1.40		
73	1120	19.70	21600	1.10		
82	1000	17.49	21300	1.25	S 87	4
92	890	15.64	21000	1.40	SF 87	4
102	800	14.06	20700	1.55	SA 87	4
118	700	12.21	20200	1.75	SAF 87	4
132	625	10.93	19800	2.0		
159	520	9.07	19100	2.2		
183	455	7.88	18600	2.2		
76	1040	18.97	5760	0.90		
105	780	13.76	1350	0.90	S 77	4
119	685	12.07	2290	1.05	SF 77	4
135	605	10.65	3060	1.20	SA 77	4
152	535	9.44	3690	1.35	SAF 77	4
179	460	8.06	4360	1.50		
11.0KW						
26	3670	55.79	33800	0.90		
29	3290	49.87	34500	1.00		
32	2970	44.89	34800	1.10		
35	2700	40.65	34400	1.20		
40	2400	36.05	33800	1.40		
44	2170	32.60	33300	1.45	S 97	4
55	1810	26.39	29400	1.45	SF 97	4
61	1620	23.59	29000	1.60	SA 97	4
68	1460	21.23	28600	1.80	SAF 97	4
75	1320	19.23	28200	1.95		
84	1180	17.05	27600	2.2		
93	1070	15.42	27200	2.3		
110	900	13.07	26400	2.6		
126	790	11.41	25700	2.8		
53	1800	27.28	23700	0.90	S 87	4
59	1610	24.43	23400	1.00	SF 87	4
71	1340	20.27	22800	1.20	SA 87	4
					SAF 87	4

输出转速 Output speed n_a [r/min]	输出转距 Output torque M_a [N·m]	传动比 Ratio i	径向负荷 Permitted overhung load F_{Ra} [N]	使用系数 Service factor f_s	机型号 Model	电机极数 Pole P
11.0KW						
73	1340	19.70	20400	0.95		
82	1190	17.49	20200	1.05	S 87	4
92	1070	15.64	20000	1.15	SF 87	4
102	960	14.06	19800	1.30	SA 87	4
118	840	12.21	19400	1.50	SAF 87	4
132	750	10.93	19100	1.65		
159	625	9.07	18600	1.85		
183	545	7.88	18100	1.85		
15.0KW						
33	4000	44.89	31400	0.85	S 97	4
36	3630	40.65	31300	0.90	SF 97	4
41	3230	36.05	31000	1.00	SA 97	4
45	2920	32.60	30800	1.10	SAF 97	4
55	2430	26.39	26400	1.05		
62	2180	23.59	26300	1.20		
69	1970	21.23	26200	1.30		
76	1780	19.23	26000	1.45	S 97	4
86	1580	17.05	25700	1.60	SF 97	4
95	1430	15.42	25400	1.70	SA 97	4
112	1220	13.07	24800	1.90	SAF 97	4
128	1060	11.41	24300	2.1		
153	890	9.55	23600	2.3		
177	775	8.26	22900	2.3		
93	1430	15.64	17900	0.85	S 87	4
104	1290	14.06	17900	0.95	SF 87	4
120	1120	12.21	17800	1.10	SA 87	4
134	1010	10.93	17600	1.25	SAF 87	4
161	840	9.07	17300	1.35	S 87	4
185	730	7.88	17000	1.40	SF 87	4
18.5KW					SA 87	4
41	3970	36.05	28700	0.85	SAF 87	4
45	3590	32.60	28600	0.90		
53	3060	27.63	28400	1.00		
61	2680	24.13	28100	1.05	S 97	4
69	2420	21.23	24100	1.10	SF 97	4
76	2190	19.23	24100	1.20	SA 97	4
86	1950	17.05	24000	1.30	SAF 97	4
95	1760	15.42	23900	1.40		
112	1500	13.07	23500	1.55		
128	1310	11.41	23200	1.70		
153	1100	9.55	22600	1.85		
177	950	8.26	22100	1.85		
22KW						
53	3630	27.63	26600	0.85	S 97	4
61	3180	24.13	26500	0.90	SF 97	4
69	2870	21.23	19800	0.90	SA 97	4
76	2600	19.23	21800	1.00	SAF 97	4
86	2310	17.05	22300	1.10		
95	2090	15.42	22400	1.20		
112	1780	13.07	22300	1.30	S 97	4
128	1560	11.41	22100	1.40	SF 97	4
153	1300	9.55	21700	1.55	SA 97	4
177	1130	8.26	21300	1.55	SAF 97	4

S37/47/57R17 n_a=1400 r/min

S37R17			90Nm
i	n_a [r/min]	M_{amax} [Nm]	F_{Re} [N]
10037	0.14	92	3000
8654	0.16	92	3000
8066	0.17	92	3000
7051	0.20	92	3000
6079	0.23	92	3000
5431	0.26	92	3000
4747	0.29	92	3000
4155	0.34	92	3000
3632	0.39	92	3000
2866	0.49	92	3000
2471	0.57	92	3000
2160	0.65	92	3000
1887	0.74	92	3000
1665	0.84	92	3000
1456	0.96	92	3000
1271	1.1	92	3000
1121	1.2	92	3000
994	1.4	92	3000
869	1.6	92	3000
774	1.8	92	3000
666	2.1	92	3000
596	2.3	92	3000
521	2.7	92	3000
456	3.1	92	3000
398	3.5	92	3000
351	4.0	92	3000
303	4.6	92	3000
265	5.3	92	3000
232	6.0	92	3000
202	6.9	92	3000
179	7.8	92	3000
158	8.9	92	3000
144	9.7	92	3000
118	12	92	3000
110	13	92	3000

S47R17			185Nm
i	n_a [r/min]	M_{amax} [Nm]	F_{Re} [N]
12909	0.11	185	5250
11189	0.13	185	5250
10374	0.13	185	5250
8992	0.16	185	5250
7860	0.18	185	5250
6887	0.20	185	5250
6055	0.23	185	5250
5292	0.26	185	5250
4637	0.30	185	5250
4092	0.34	185	5250
3582	0.39	185	5200
3131	0.45	185	5200
2714	0.52	185	5200
2412	0.58	185	5200
2131	0.66	185	5200
1863	0.75	185	5200
1663	0.84	185	5200
1435	0.98	185	5200
1254	1.1	185	5200
1120	1.2	185	5200
1083	1.3	185	5200
965	1.5	185	5200
956	1.5	185	5210
865	1.6	185	5200
750	1.9	185	5200
655	2.1	185	5200
574	2.4	185	5200
506	2.8	185	5200
438	3.2	185	5200
388	3.6	185	5200
336	4.2	185	5200
294	4.8	185	5200
257	5.4	185	5260
229	6.1	185	5200
200	7.0	185	5200
187	7.5	185	5200
165	8.5	185	5200
147	9.5	185	5200
131	11	185	5200

S57R17			300Nm
i	n_a [r/min]	M_{amax} [Nm]	F_{Ra} [N]
12909	0.11	330	6800
11189	0.13	330	6800
10374	0.13	330	6800
8992	0.16	330	6800
7860	0.18	330	6800
6887	0.20	330	6800
6055	0.23	330	6800
5292	0.26	330	6800
4637	0.30	330	6800
4092	0.34	330	6800
3628	0.39	330	6800
3131	0.45	300	7090
2714	0.52	300	7090
2412	0.58	300	7090
2131	0.66	300	7090
1863	0.75	300	7090
1663	0.84	300	7090
1435	0.98	300	7090
1254	1.1	300	7090
1083	1.3	300	7090
965	1.5	300	7090
865	1.6	300	7090
750	1.9	300	7090
655	2.1	300	7090
574	2.4	300	7090
506	2.8	300	7090
438	3.2	300	7090
388	3.6	300	7090
336	4.5	300	7090
294	4.8	300	7090
269	5.2	300	7090
229	6.1	300	7090
204	6.9	300	7090
187	7.5	300	7090
165	8.5	300	7090
131	11	300	7090

S67/77R37, S87R57 n_a=1400 r/min

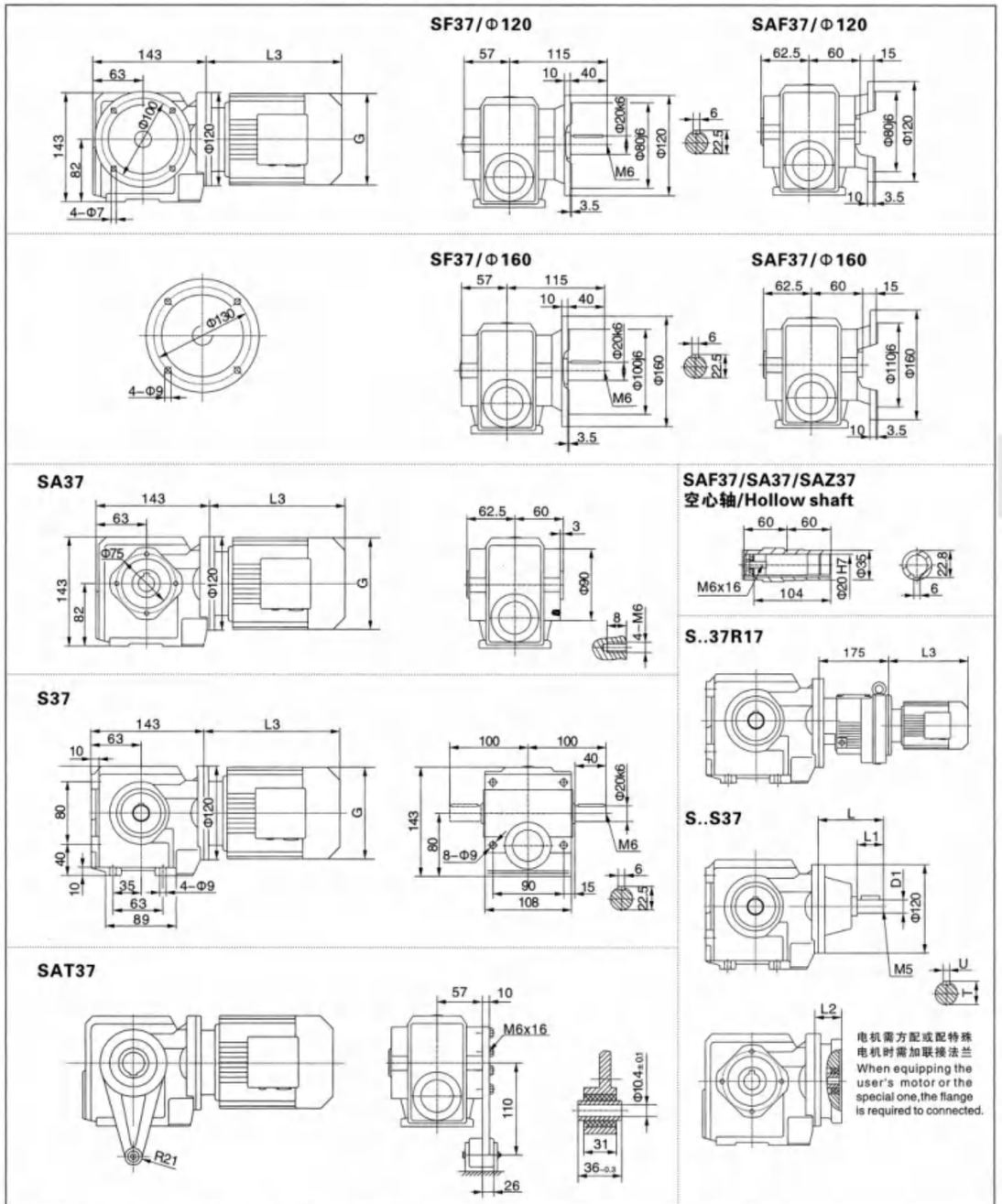
S67R37			570Nm
i	n_a [r/min]	M_{amax} [Nm]	F_{Ra} [N]
21362	0.07	570	8190
19594	0.07	570	8190
18120	0.08	570	8190
16682	0.08	570	8190
14383	0.10	570	8190
12774	0.11	570	8190
11013	0.13	570	8190
9694	0.14	570	8190
8529	0.16	570	8190
7455	0.19	570	8190
6531	0.21	570	8190
5759	0.24	570	8190
4965	0.28	570	8190
4410	0.32	570	8190
3880	0.36	570	8190
3432	0.41	570	8190
2944	0.48	570	8190
2630	0.53	570	8190
2279	0.61	570	8190
2014	0.70	570	8190
1772	0.79	570	8190
1559	0.90	570	8190
1363	1.0	570	8190
1194	1.2	570	8190
1045	1.3	570	8190
914	1.5	570	8190
809	1.7	570	8190
712	2.0	570	8190
615	2.3	570	8190
543	2.6	570	8190
469	3.0	570	8190
424	3.3	570	8190
365	3.8	570	8190
319	4.4	570	8190
281	5.0	570	8190
246	5.7	570	8190
221	6.3	570	8190
198	7.1	570	8190
168	8.3	570	8190
156	9.0	570	8190

S77R37			1270Nm
i	n_a [r/min]	M_{amax} [Nm]	F_{Ra} [N]
25493	0.05	1270	11700
21787	0.06	1270	11700
19907	0.07	1270	11700
17013	0.08	1270	11700
14668	0.10	1270	11700
13110	0.11	1270	11700
11569	0.12	1270	11700
9887	0.14	1270	11700
8817	0.16	1270	11700
7735	0.18	1270	11700
6735	0.21	1270	11700
5943	0.24	1270	11700
5214	0.27	1270	11700
4618	0.30	1270	11700
3992	0.35	1270	11700
3540	0.40	1270	11700
3098	0.45	1270	11700
2753	0.51	1240	12000
2374	0.59	1240	12000
2083	0.67	1240	12000
1813	0.77	1240	12000
1745	0.80	1240	12000
1600	0.88	1240	12000
1404	1.0	1240	12000
1245	1.1	1240	12000
1100	1.3	1240	12000
954	1.5	1240	12000
837	1.7	1240	12000
714	2.0	1240	12000
637	2.2	1240	12000
574	2.4	1240	12000
499	2.8	1240	12000
438	3.2	1240	12000
389	3.6	1240	12000
327	4.3	1240	12000
289	4.8	1240	12000
250	5.6	1240	12000
219	6.4	1240	12000

S87R57			2500Nm
i	n_a [r/min]	M_{amax} [Nm]	F_{Ra} [N]
25987	0.05	2500	27500
23940	0.06	2500	27500
20568	0.07	2500	27500
18265	0.08	2500	27500
16774	0.08	2500	27500
14820	0.09	2500	27500
13160	0.11	2500	27500
11200	0.12	2500	27500
9904	0.14	2500	27500
8549	0.16	2500	27500
7643	0.18	2500	27500
6706	0.21	2500	27500
5875	0.24	2500	27500
5187	0.27	2500	27500
4606	0.30	2500	27500
3872	0.36	2500	27500
3475	0.40	2500	27500
2905	0.48	2500	27500
2586	0.54	2500	27500
2335	0.60	2500	27500
2054	0.68	2500	27500
1824	0.77	2500	27500
1631	0.86	2500	27500
1332	1.1	2500	27500
1191	1.2	2500	27500
1032	1.4	2500	27500
930	1.5	2500	27500
831	1.7	2500	27500
719	1.9	2500	27500
624	2.2	2500	27500
558	2.5	2500	27500
485	2.9	2500	27500
435	3.2	2450	27600
378	3.7	2450	27600
323	4.3	2400	27700
281	5.0	2400	27700
255	5.5	1980	28400
222	6.3	1980	28400
205	6.8	1980	28400

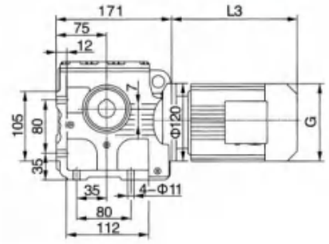
S97R57　　n_a=1400 r/min

S97R57			4200Nm
i	n_a [r/min]	M_{amax} [Nm]	F_{Ra} [N]
33818	0.04	4200	34200
31154	0.04	4200	34200
27847	0.05	4200	34200
24641	0.06	4200	34200
21537	0.07	4200	34200
18749	0.07	4200	34200
16233	0.09	4200	34200
14576	0.10	4200	34200
12752	0.11	4200	34200
11267	0.12	4200	34200
10078	0.14	4200	34200
8608	0.16	4200	34200
7554	0.19	4200	34200
6640	0.21	4200	30600
5780	0.24	4200	30600
4937	0.28	4200	30600
4444	0.32	4200	30600
4017	0.35	4200	30600
3453	0.41	4200	30600
3108	0.45	4200	30600
2654	0.53	4200	30600
2329	0.60	4200	30600
2081	0.67	4200	30600
1860	0.75	4200	30600
1574	0.89	4200	30600
1394	1.0	4200	30600
1223	1.1	4200	30600
1070	1.3	4200	30600
928	1.5	4200	30600
824	1.7	4200	30600
714	2.0	4200	34400
626	2.2	4200	30600
536	2.6	4200	30600
464	2.9	4200	30700
420	3.3	4200	30700
376	3.7	4200	30800
327	4.3	4200	30800
287	4.9	4200	30900
252	5.6	4200	31000
219	6.4	4200	31000
205	6.8	4200	31000

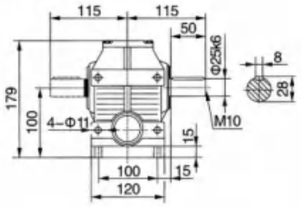


Y_2电机机座号 Motor size	63	71		80		
功率/4P Power/(KW)	0.18	0.25	0.37	0.55	0.75	
L3	235	245		278		
G	130	145		175		
L2	45	92		80		

注：1.SA、SF、SAF、SAZ壳体为通用件，安装尺寸均可相互参照。 2.*S..*表示S、SA、SF、SAF、SAZ.
Note: 1.The housings of SA、SF、SAF、SAZ are common parts. The mounting dimensions may consult each other. 2.*S..*mean S、SA、SF、SAF、SAZ.

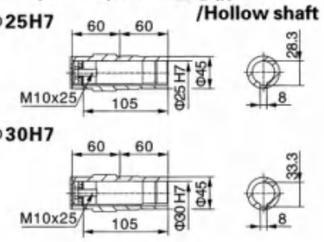


S47

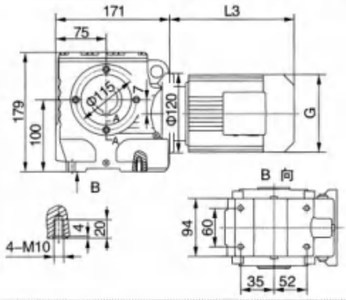


SA47/SAZ47/SAF47空心轴 /Hollow shaft

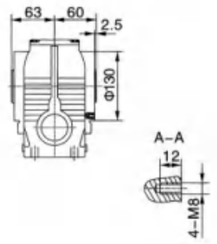
Φ25H7



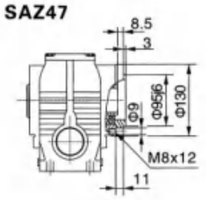
Φ30H7

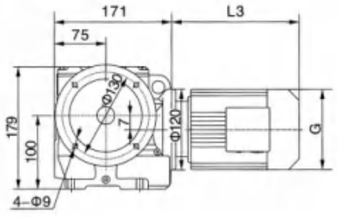


SA47

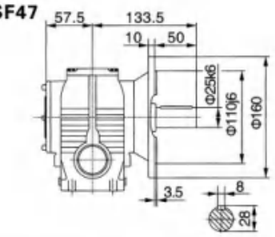


SAZ47

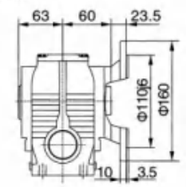


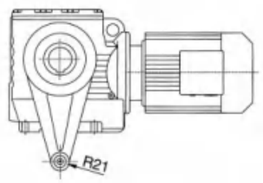


SF47

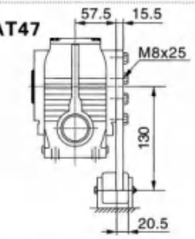


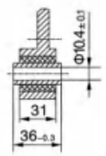
SAF47





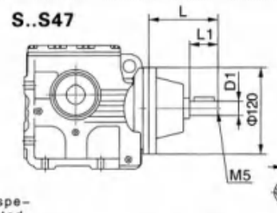
SAT47



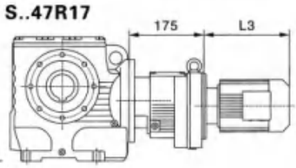


电机需方配或配特殊电机时需加联接法兰

S..S47



S..47R17

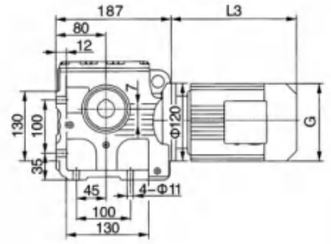


When equipping the user's motor or the special one,the flange is required to connected.

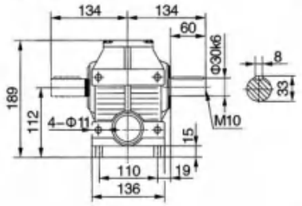
Y₂电机机座号 Motor size	63	71		80		90S	90L
功率/4P Power/(KW)	0.18	0.25	0.37	0.55	0.75	1.1	1.5
L3	235	245		278		304	328
G	130	145		175		195	195
L2	45	92		80		80	80

注：1.SA、SF、SAF、SAZ壳体为通用件，安装尺寸均可相互参照. 2.*S..*表示S、SA、SF、SAF、SAZ.

Note：1.The housings of SA、SF、SAF、SAZ are common parts. The mounting dimensions may consult each other. 2.*S..*mean S、SA、SF、SAF、SAZ.

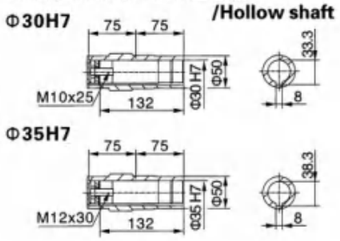


S57

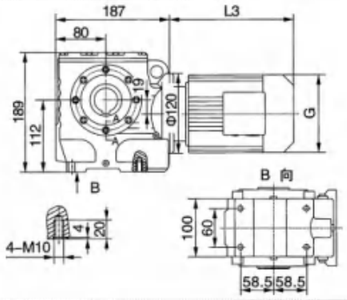


SA57/SAZ57/SAF57空心轴 /Hollow shaft

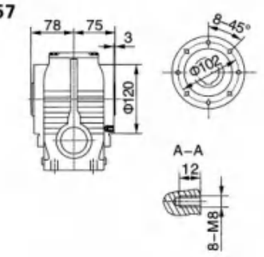
Φ30H7



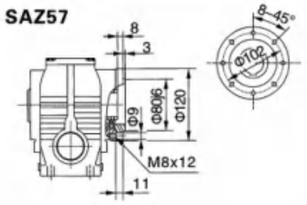
Φ35H7

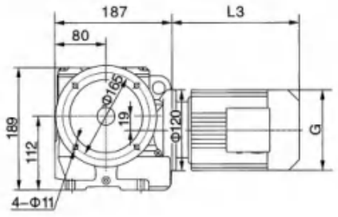


SA57

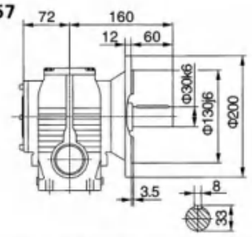


SAZ57

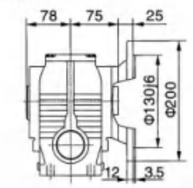


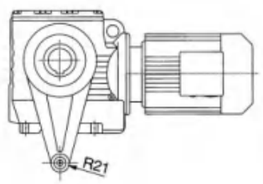


SF57

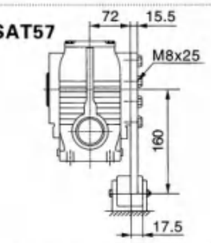


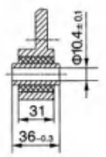
SAF57





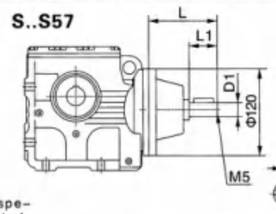
SAT57



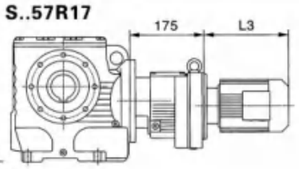


电机需方配或配特殊电机时需加联接法兰

S..S57



S..57R17

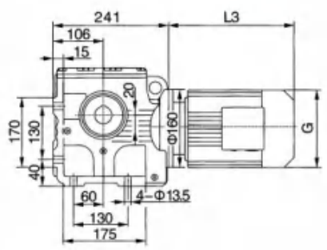


When equipping the user's motor or the special one,the flange is required to connected.

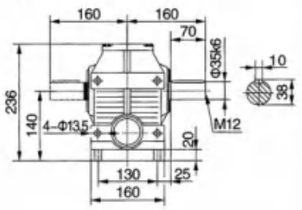
Y₂电机机座号 Motor size	63	71		80		90S	90L	100	
功率/4P Power/(KW)	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3.0
L3	235	245		278		304	328	340	
G	130	145		175		195	195	215	
L2	45	92		80		80	80	80	

注：1.SA、SF、SAF、SAZ壳体为通用件，安装尺寸均可相互参照. 2.*S..*表示S、SA、SF、SAF、SAZ.

Note：1.The housings of SA、SF、SAF、SAZ are common parts. The mounting dimensions may consult each other. 2.*S..*mean S、SA、SF、SAF、SAZ.

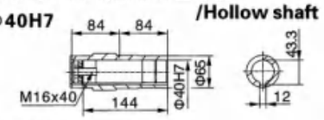


S67

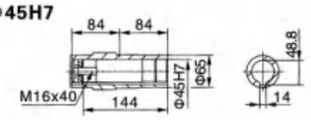


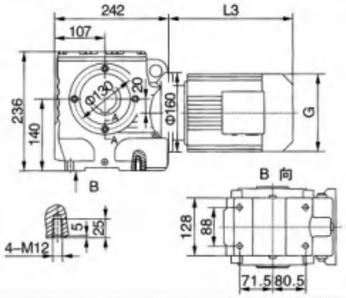
SA67/SAZ67/SAF67空心轴 /Hollow shaft

Φ40H7

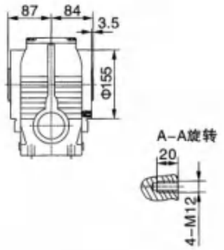


Φ45H7

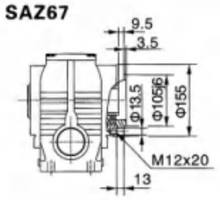


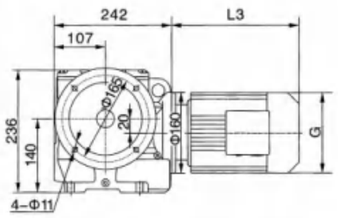


SA67

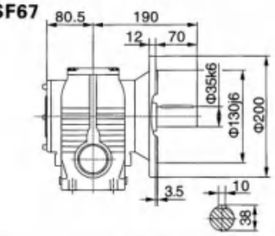


SAZ67

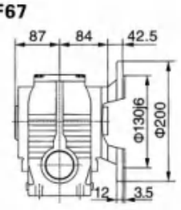


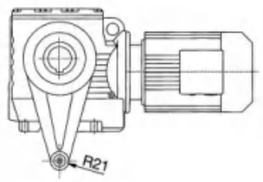


SF67

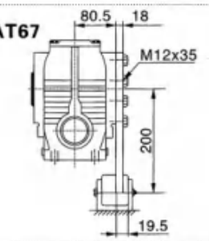


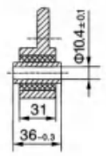
SAF67





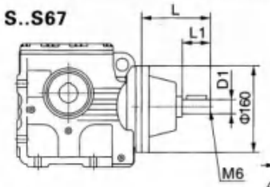
SAT67



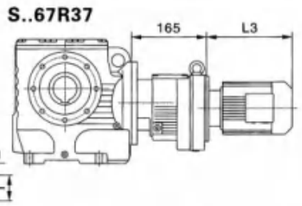


电机需方配或配特殊电机时需加联接法兰

S..S67



S..67R37

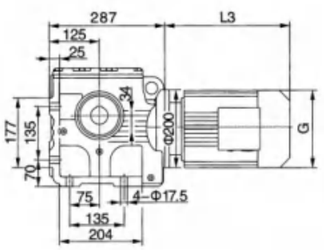


When equipping the user's motor or the special one,the flange is required to connected.

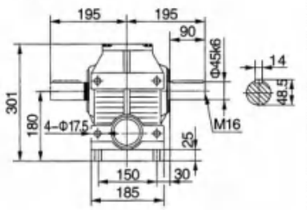
Y2电机机座号 Motor size	71		80		90S	90L	100		112M	132S	
功率/4P Power/(KW)	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3.0	4.0	5.5	
L3	245		278		304	328	350		380	425	
G	145		175		195	195	215		240	275	
L2	55		80		80	80	100		100	110	

注：1.SA、SF、SAF、SAZ壳体为通用件，安装尺寸均可相互参照. 2.*S..*表示S、SA、SF、SAF、SAZ.

Note: 1.The housings of SA、SF、SAF、SAZ are common parts. The mounting dimensions may consult each other. 2.*S..*mean S、SA、SF、SAF、SAZ.

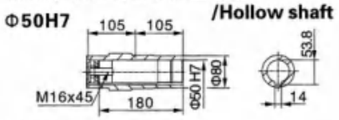


S77

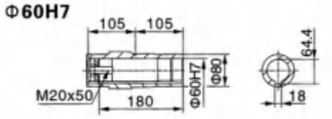


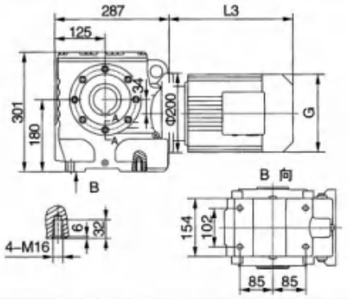
SA77/SAZ77/SAF77空心轴 /Hollow shaft

Φ50H7

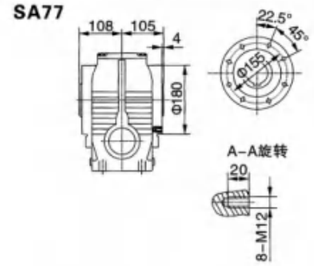


Φ60H7

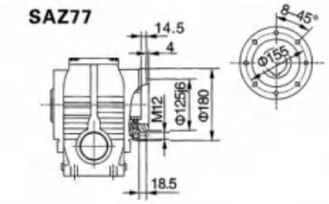


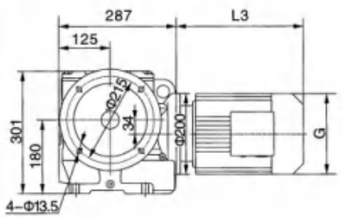


SA77



SAZ77





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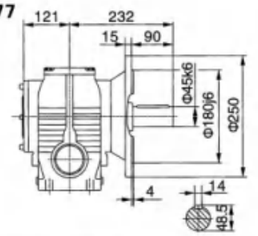
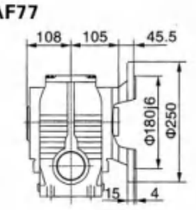
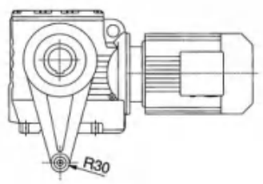
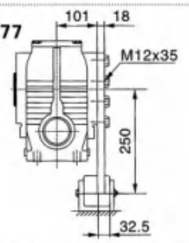


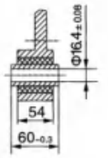
SAF77





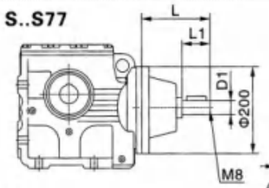
SAT77



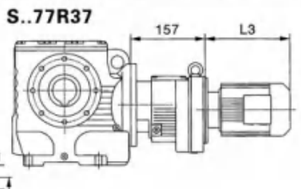


电机需方配或配特殊电机时需加联接法兰

S..S77



S..77R37

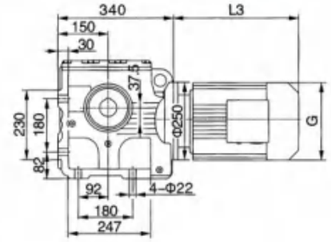


When equipping the user's motor or the special one,the flange is required to connected.

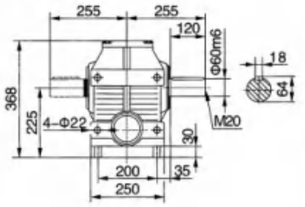
Y2电机机座号 Motor size	80		90S	90L	100		112M	132S	132M	
功率/4P Power/(KW)	0.55	0.75	1.1	1.5	2.2	3.0	4.0	5.5	7.5	
L3	278		304	328	350		380	425	461	
G	175		195	195	215		240	275	275	
L2	80		80	80	100		100	110	110	

注：1.SA、SF、SAF、SAZ壳体为通用件，安装尺寸均可相互参照. 2.*S..*表示S、SA、SF、SAF、SAZ.

Note: 1.The housings of SA、SF、SAF、SAZ are common parts. The mounting dimensions may consult each other. 2.*S..*mean S、SA、SF、SAF、SAZ.

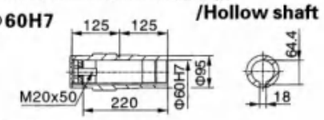


S87

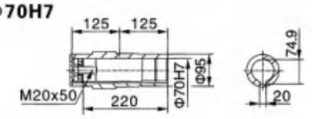


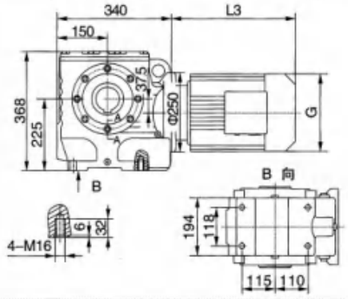
SA87/SAZ87/SAF87空心轴 /Hollow shaft

Φ60H7

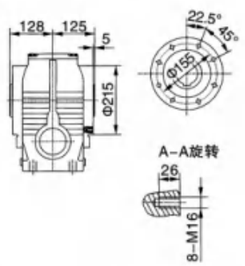


Φ70H7





SA87



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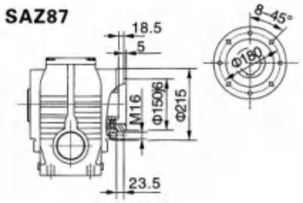
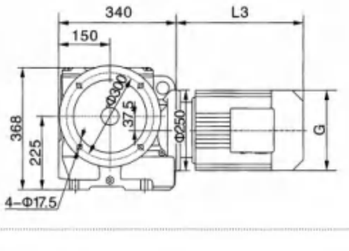
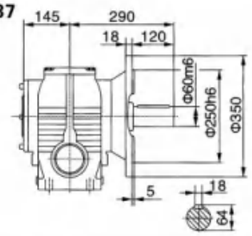
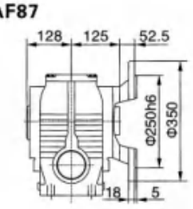




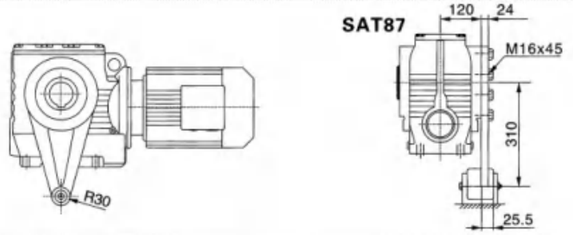
SF87

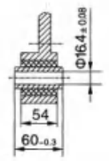


SAF87



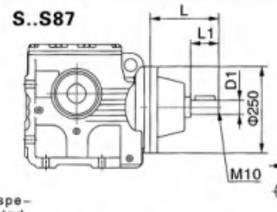
SAT87



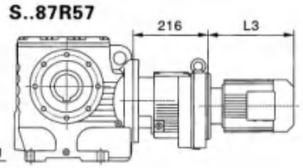


电机需方配或配特殊电机时需加联接法兰

S..S87



S..87R57

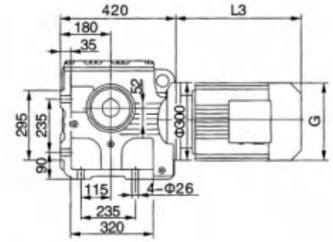


When equipping the user's motor or the special one,the flange is required to connected.

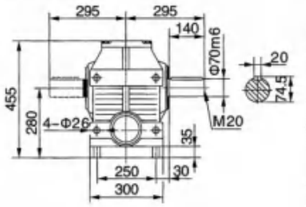
Y2电机机座号 Motor size	80		90S	90L	100		112M	132S	132M	160M	160L	
功率/4P Power/(KW)	0.55	0.75	1.1	1.5	2.2	3.0	4.0	5.5	7.5	11	15	
L3	246		280	304	350		380	425	461	524	547	
G	175		195	195	215		240	275	275	330	330	
L2	80		80	80	100		100	110	110	133	133	

注：1.SA、SF、SAF、SAZ壳体为通用件，安装尺寸均可相互参照. 2.*S..*表示S、SA、SF、SAF、SAZ.

Note：1.The housings of SA、SF、SAF、SAZ are common parts. The mounting dimensions may consult each other. 2.*S..*mean S、SA、SF、SAF、SAZ.

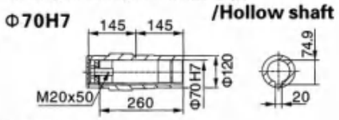


S97

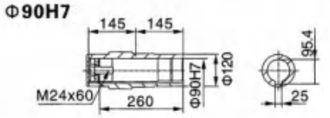


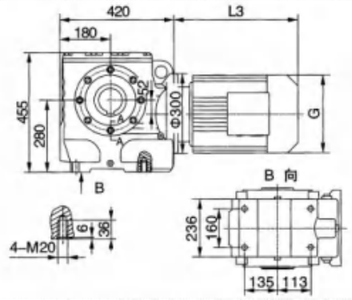
SA97/SAZ97/SAF97空心轴 /Hollow shaft

Φ70H7

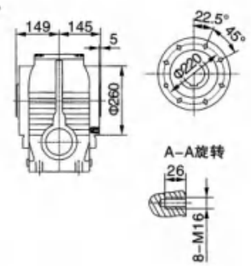


Φ90H7

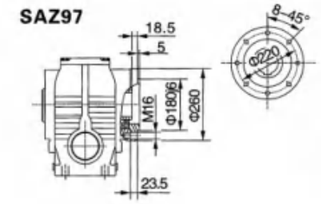


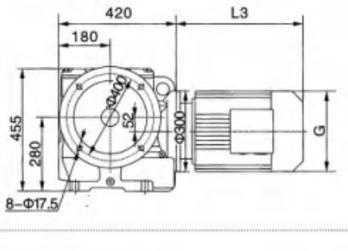


SA97

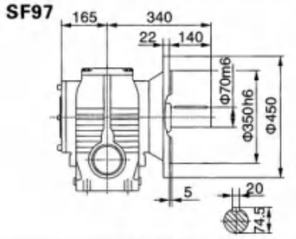


SAZ97

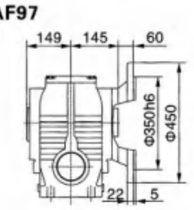




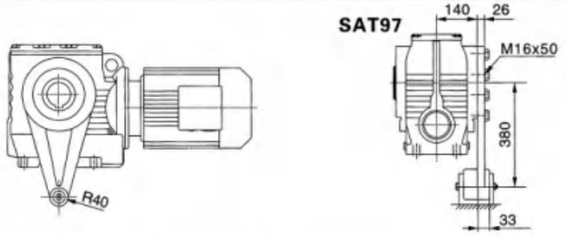
SF97

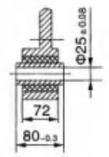


SAF97



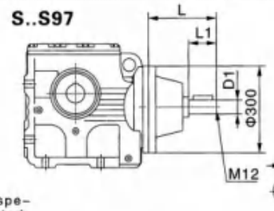
SAT97



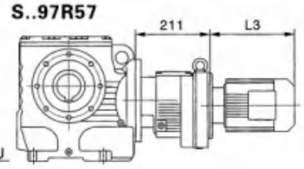


电机需方配或配特殊电机时需加联接法兰

S..S97



S..97R57



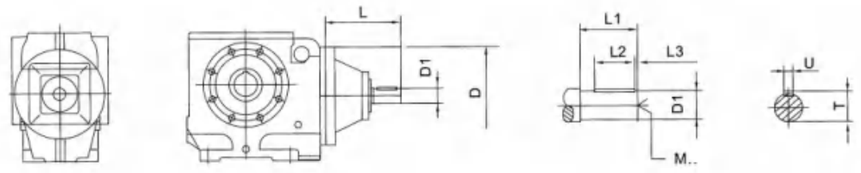
When equipping the user's motor or the special one,the flange is required to connected.

Y2电机机座号 Motor size	90L	100		112M	132S	132M	160M	160L	180M	180L	
功率/4P Power/(KW)	1.5	2.2	3.0	4.0	5.5	7.5	11	15	18.5	22	
L3	304	315		334	425	461	524	547	555	588	
G	195	215		240	275	275	330	330	380	380	
L2	107	100		100	110	110	133	133	133	133	

注：1.SA、SF、SAF、SAZ壳体为通用件，安装尺寸均可相互参照. 2.*S..*表示S、SA、SF、SAF、SAZ.

Note：1.The housings of SA、SF、SAF、SAZ are common parts. The mounting dimensions may consult each other. 2.*S..*mean S、SA、SF、SAF、SAZ.

S..~AD..

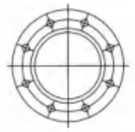


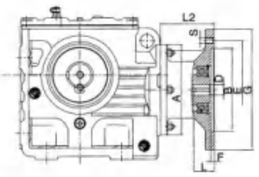
		D	L	D1	L1	L3	L2	T	U	M
S..37 S..47 S..57	AD1	120	102	16	40	4	32	18	5	M5
	AD2		130	19	40	4	32	21.5	6	M6
S..67	AD2	160	123	19	40	4	32	21.5	6	M6
	AD3		159	24	50	5	40	27	8	M8
S..77	AD2	200	116	19	40	4	32	21.5	6	M6
	AD3		151	24	50	5	40	27	8	M8
	AD4		224	38	80	5	70	41	10	M12
S..87	AD2	250	111	19	40	4	32	21.5	6	M6
	AD3		156	28	60	5	50	31	8	M10
	AD4		219	38	80	5	70	41	10	M12
	AD5		292	42	110	10	70	45	12	M16
S..97	AD3	300	151	28	60	5	50	31	8	M10
	AD4		214	38	80	5	70	41	10	M12
	AD5		287	42	110	10	70	45	12	M16
	AD6		327	48	110	10	80	51.5	14	M16

S..AM..

Fig.1

Fig.2





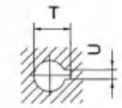
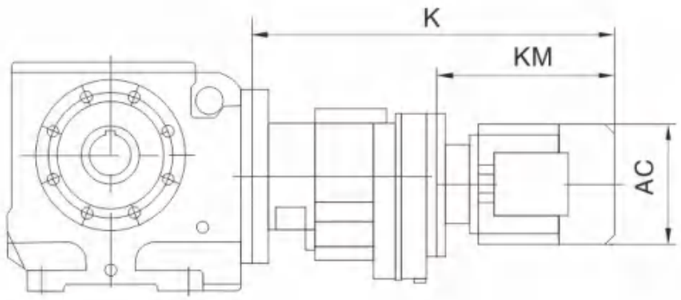


		Fig1	B	E	F	A	G	S	L2	D	L	T	U
S..37 S..47 S..57	Am63	1	95	115	3.5	120	140	M8	45	11	23	12.8	4
	AM71[1)]		110	130			160		92	14	30	16.3	5
	Am80[1)]		130	165	4.5		200	M10	80	19	40	21.8	6
	Am90[1)]									24	50	27.3	8
S..67	Am63	1	95	115	3.5	160	140	M8	45	11	23	12.8	4
	Am71		110	130			160		55	14	30	16.3	5
	Am80		130	165	4.5		200	M10	80	19	40	21.8	6
	Am90									24	50	27.3	8
	Am100[1)]		180	215	5		250	M12	100	28	60	31.3	8
	Am112[1)]												
S..77	Am63	1	95	115	3.5	200	140	M8	45	11	23	12.8	4
	Am71		110	130			160		55	14	30	16.3	5
	Am80		130	165	4.5		200	M10	80	19	40	21.8	6
	Am90									24	50	27.3	8
	Am100[1)]		180	215	5		250	M12	100	28	60	31.3	8
	Am112[1)]												
	AM132S[1)]		230	265			300		110	38	80	41.3	10
	AM132M[1)]												
	AM132ML[1)]												
S..87	Am80	1	130	165	4.5	250	200	M10	80	19	40	21.8	6
	Am90									24	50	27.3	8
	Am100		180	215	5		250	M12	100	28	60	31.3	8
	Am112												
	Am132MS		230	265			300		110	38	80	41.3	10
	AM132M												
	AM132ML												
	Am160[1)]		250	300	6		350	M16	133	42	110	45.3	12
	Am180[1)]									48		51.8	14
S..97	Am100	1	180	215	5	300	250	M12	100	28	60	31.3	8
	Am112												
	AM132S		230	265			300		110	38	80	41.3	10
	AM132M												
	AM132ML												
	Am160		250	300	6		350	M16	133	42	110	45.3	12
	Am180									48		51.8	14
	Am200[1)]		300	350	7		400		135	55		59.3	16
	Am225[1)]	2	350	400			450		143	60	140	64.4	18

1）如果安装在BS系列脚安装方式的减速机伞，请检查尺寸G/2，它可能已突出安装平面

Dimension G/2 May protrude past toot mounting surface if mounted on BS foot-mounted gear unit, please check.

S..R..

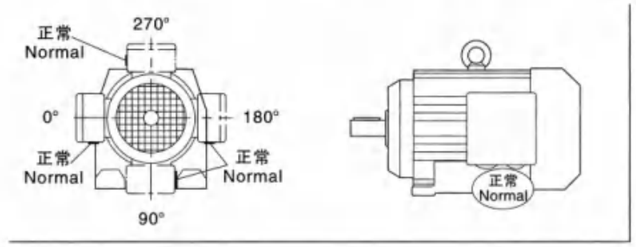


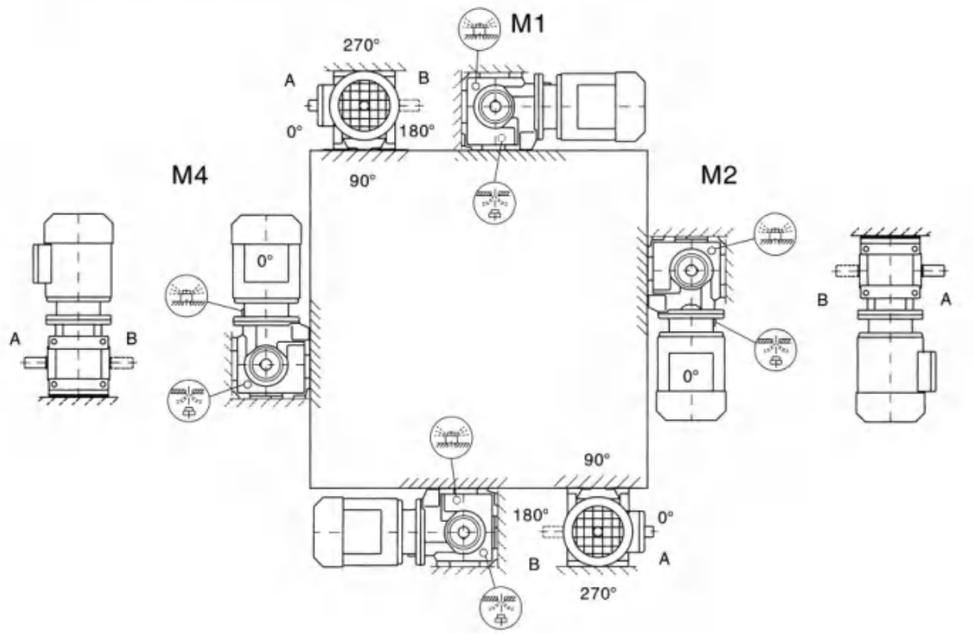
		AC	K	KM
S..37R17	D63..	138	368	193
	D71D	158	369	194
	D80..	168	419	244
S..47R17 S..57R17	D63..	138	368	193
	D71D	158	369	194
	D80..	168	419	244
S..67R37	D63..	138	386	221
	D71D	158	404	239
	D80..	168	436	271
	D90..	195	479	314
S..77R37	D63..	138	378	221
	D71D	158	396	239
	D80..	168	428	271
	D90..	195	411	314
S..87R57	D63..	138	432	216
	D71D	158	450	234
	D80..	168	481	265
	D90..	195	525	309
	D100M	218	542	326
	D100L	218	542	326
S..97R57	D63..	138	427	216
	D71D	158	445	234
	D80..	168	476	265
	D90..	195	520	309
	D100M	218	537	326
	D100L	218	537	326
	D112M	240	593	382

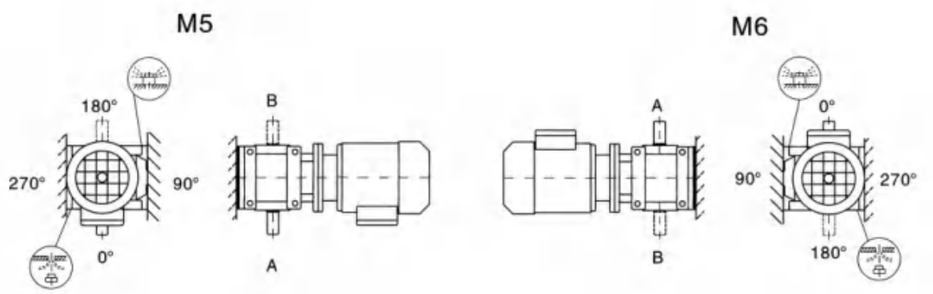
注：上表中电机尺寸为参考尺寸，因空间限制对电机尺寸有严格要求时请向我公司咨询。

Notes:The dimension of motor in the above table is only for reference .If you have special require, please consult us.

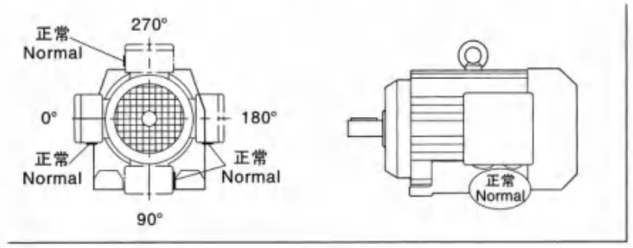
S37安装形式图 S37 Mounting position example



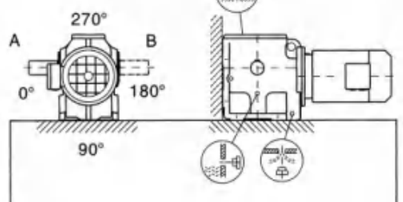




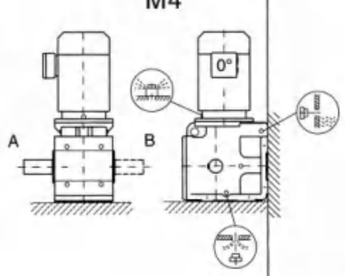
S47-97安装形式图 S47-97 Mounting position example



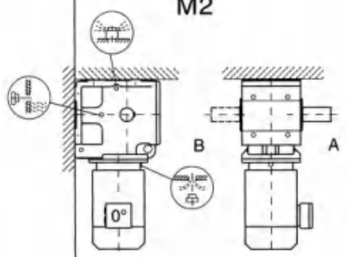
M1



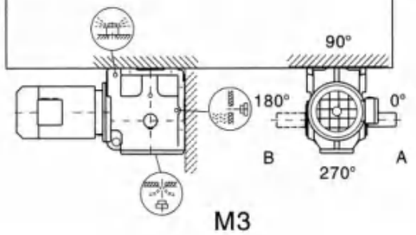
M4



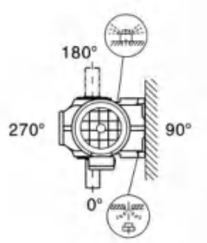
M2

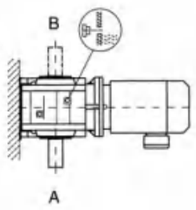


M3

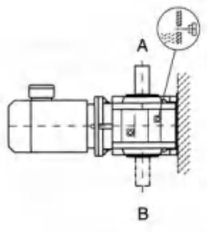


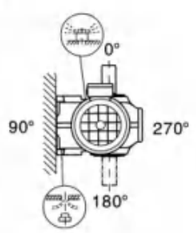
M5



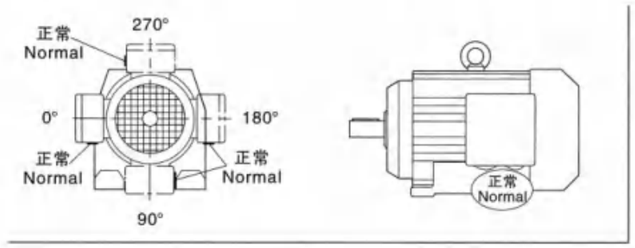


M6

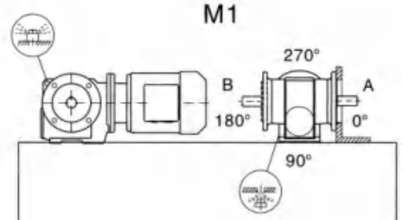




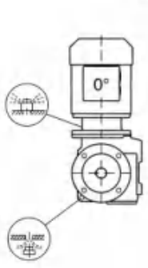
SF/SAF37安装形式图 SF/SAF37 Mounting position example



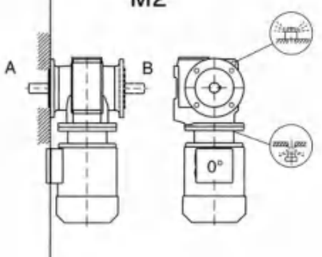
M1



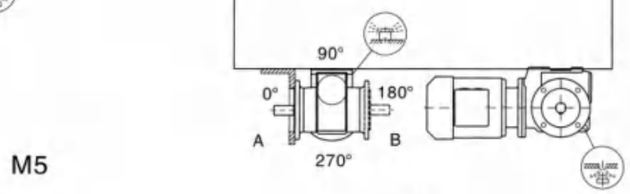
M4



M2

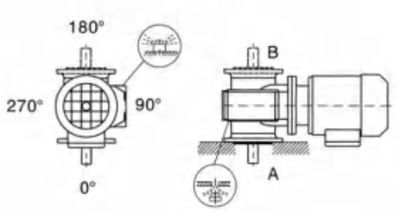


M5

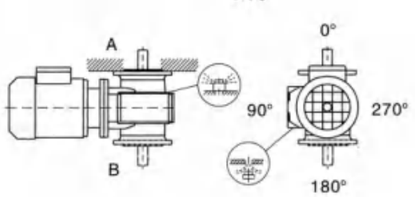


M3

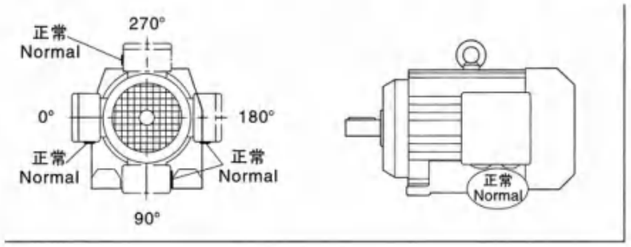
M5

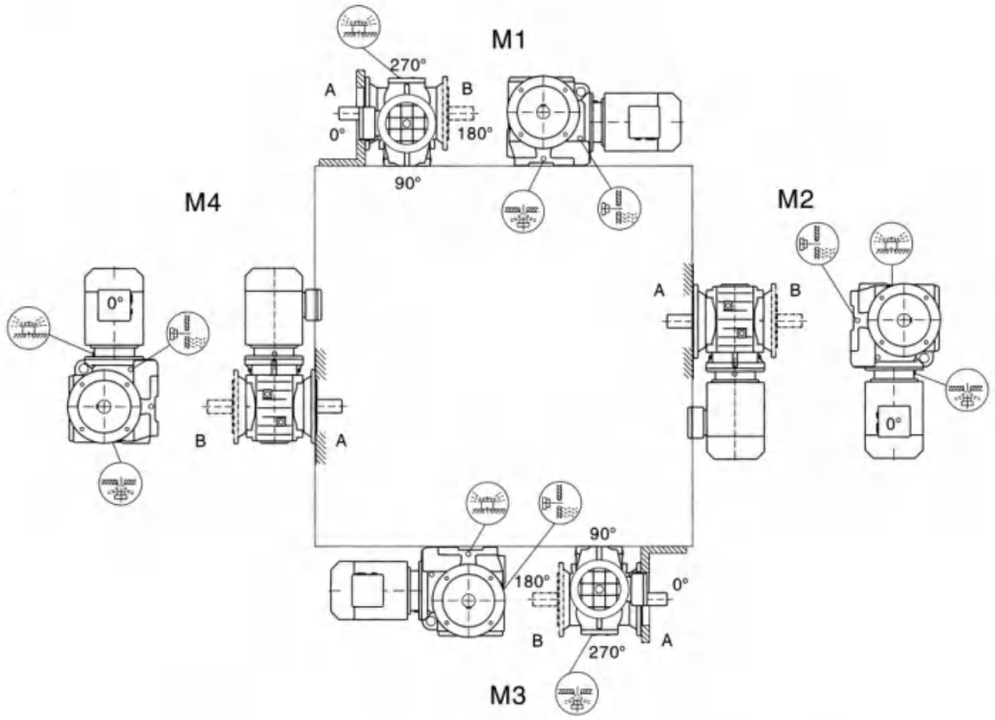


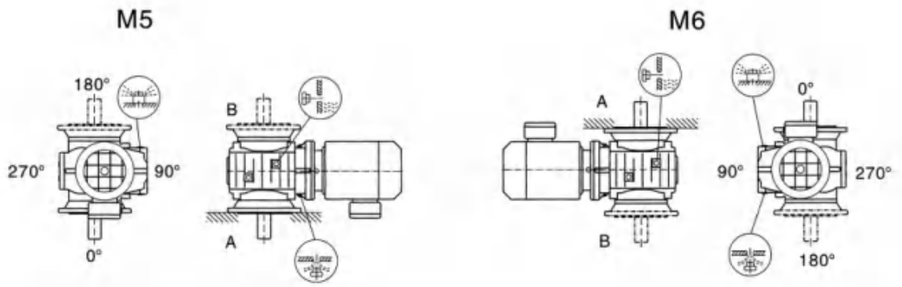
M6



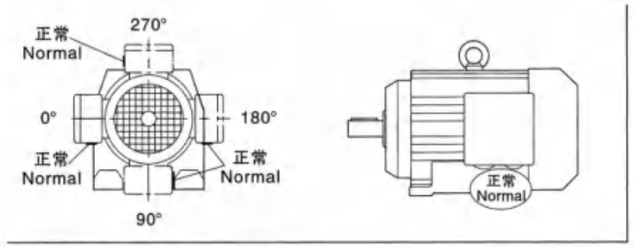
SF/SAF/SAZ47-97安装形式图 SF/SAF/SAZ47-97 Mounting position example

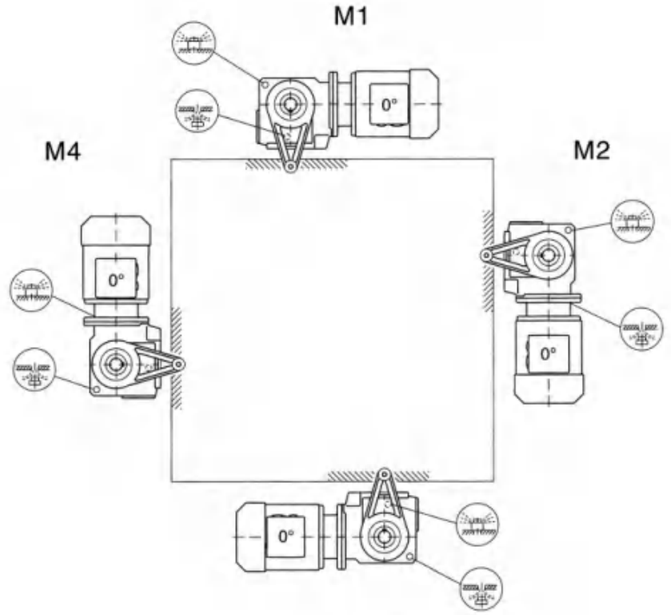


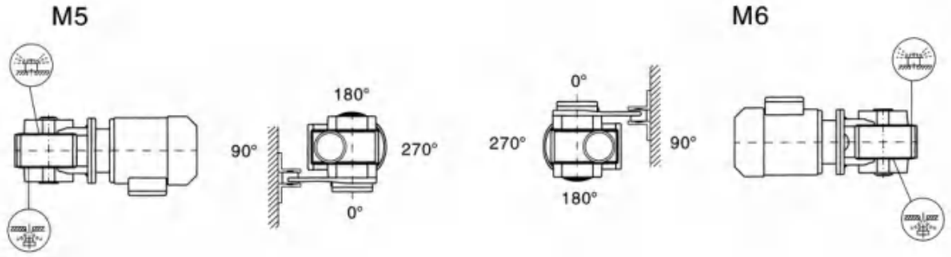




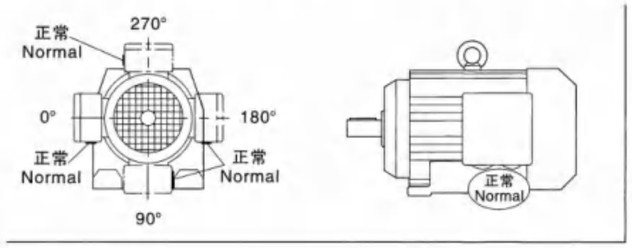
SAT37安装形式图 SAT37 Mounting position example

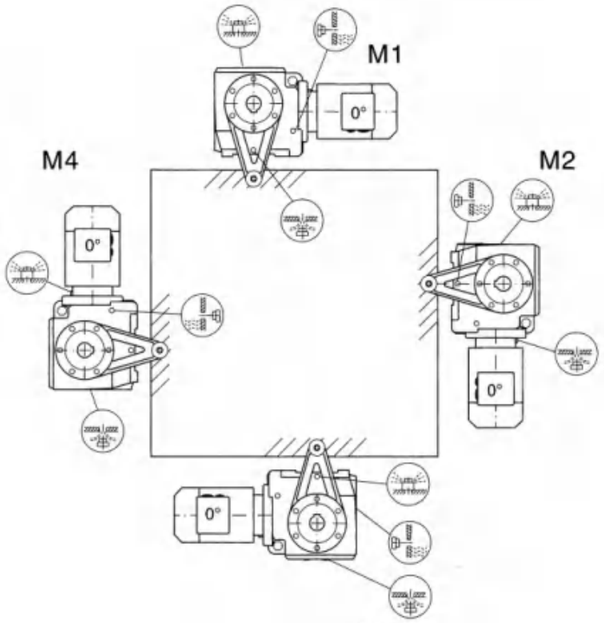


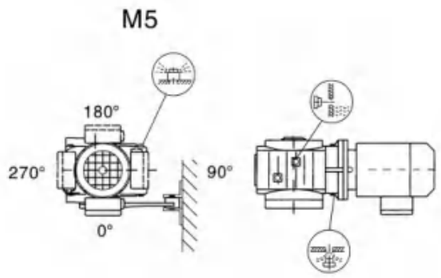


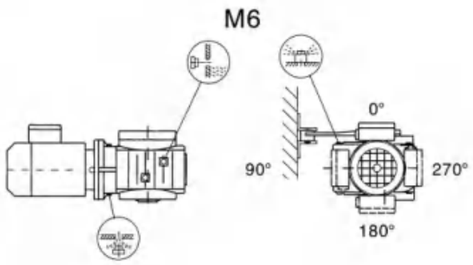


SAT47-97安装形式图 SAT47-97 Mounting position example

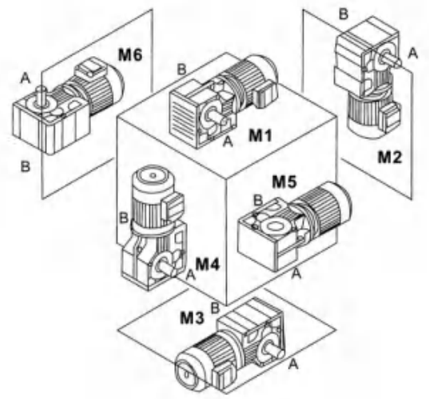


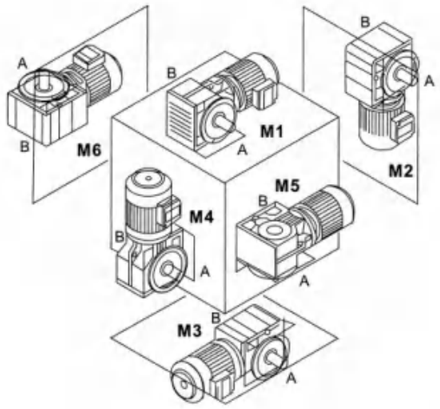




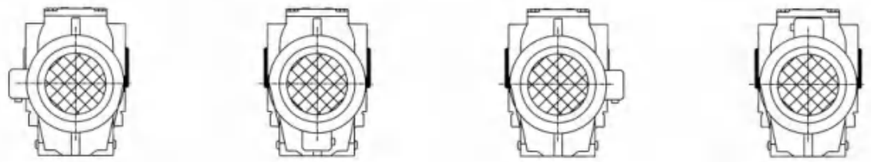


安装形式：
Mounting position:





电机接线盒位置
Position of the motor thermal box



输入功率及许用转矩
Input power rating and permissible torque

规格 Size	37	47	57	67	77	87	97
结构形式 Structure	S SA SF SAF SAT SAZ						
输入功率(kw) Input power rating	0.18~0.75	0.18~1.5	0.18~3	0.25~5.5	0.55~7.5	0.75~15	1.5~22
传动比 Ratio	10.27~165.71	11.46~244.74	10.75~196.21	11.55~227.20	9.96~241.09	11.83~223.26	12.75~230.48
许用转矩(N.m) Permissible torque	90	170	300	520	1270	2280	4000

减速机重量
Gear unit weight

规格 Size	37	47	57	67	77	87	97
重量(kg) Weight	7	10	14	26	50	100	170

所注重量为平均值，仅供参考
The weights are mean values, only for reference.

润滑油量表
Lubrication table

S...:

规格 Size	润滑油量（升） Fill quantity in liters					
	M1	M2	M3[1)]	M4	M5	M6
S37	0.25	0.4	0.5	0.6	0.4	0.4
S47	0.35	0.8	0.7	1.1	0.8	0.8
S57	0.5	1.2	1	1.5	1.3	1.3
S67	1	2.0	2.2/3.1	3.2	2.6	2.6
S77	1.9	4.2	3.7/5.4	6	4.4	4.4
S87	3.3	8.1	6.9/10.4	12	8.4	8.4
S97	6.8	15	13.4/18	22.5	17	17

SF...:

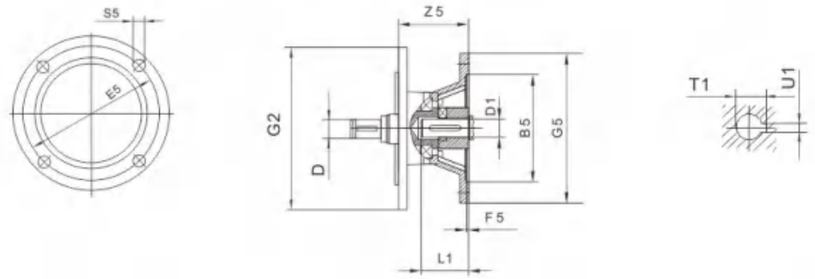
规格 Size	润滑油量（升） Fill quantity in liters					
	M1	M2	M3[1)]	M4	M5	M6
SF37	0.25	0.4	0.5	0.6	0.4	0.4
SF47	0.4	0.9	0.9	1.2	1.0	1.0
SF57	0.5	1.2	1	1.6	1.4	1.4
SF67	1	2.2	2.3/3	3.2	2.7	2.7
SF77	1.9	4.1	3.9/5.8	6.5	4.9	4.9
SF87	3.8	8	7.1/10.1	12	9.1	9.1
SF97	7.4	15	13.8/18.8	23.6	18	18

SA...、SAF...、SAZ...:

规格 Size	润滑油量（升） Fill quantity in liters					
	M1	M2	M3[1)]	M4	M5	M6
S..37	0.25	0.4	0.5	0.6	0.4	0.4
S..47	0.4	0.8	0.7	1.1	0.8	0.8
S..57	0.5	1.1	1	1.6	1.2	1.2
S..67	1	2.0	1.8/2.6	2.9	2.5	2.5
S..77	1.8	3.9	3.6/5	5.9	4.5	4.5
S..87	3.8	7.4	6/8.7	11.2	8	8
S..97	7	14	11.4/16	21	15.7	15.7

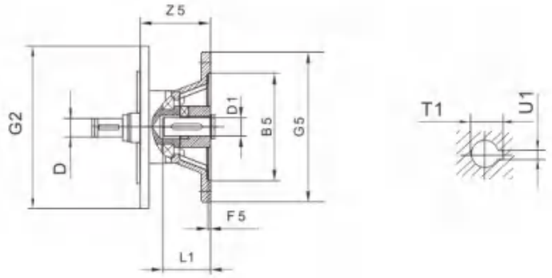
注：[1)]表示减速机为组合型时低速级所加油量为大值。
Notes: [1)]The large gear unit of multi-stage gear units must be filled with the larger oil volume.

用于安装IEC标准电机的联轴器
Coupling for mounting of IEC motors



减速机规格 Gear unit type	联轴器规格 Coupling type	B5	D	E5	F5	G2	G5	S5	Z5	D1	L1	T1	U1
R..27, R..37 F..37, F..47 K..37 S..37, S..47, S..57	AM63	95G7	10n6	115	3.5	120	140	M8	72	11F7	23	12.8	4
	AM71[1)]	110G7		130			160		92.5	14F7	30	16.3	5
	AM80[1)]	130G7	12n6	165	4.5		200	M10	118	19F7	40	21.8	6
	AM90[1)]		14n6							24F7	50	27.3	8
R..47, R..57, R..67 F..57, F..67 K..47, K..57, K..67 S..67	AM63	95G7	10n6	115	3.5	160	140	M8	66	11F7	23	12.8	4
	AM71	110G7		130			160		87	14F7	30	16.3	5
	AM80	130G7	12n6	165	4.5		200	M10	113	19F7	40	21.8	6
	AM90		14n6							24F7	50	27.3	8
	AM100[1)]	180G7	16n6	215	5		250	M12	144	28H7	60	31.3	8
	AM112[1)]		18n6										
	AM132[1)]	230G7	22n6	265			300		177	38H7	80	41.3	10
R..77 F..77 K..77 S..77	AM63	95G7	10n6	115	3.5	200	140	M8	60	11F7	23	12.8	4
	AM71	110G7		130			160			14F7	30	16.3	5
	AM80	130G7	12n6	165	4.5		200	M10	92	19F7	40	21.8	6
	AM90		14n6							24F7	50	27.3	8
	AM100[1)]	180G7	16n6	215	5		250	M12	136	28H7	60	31.3	8
	AM112[1)]		18n6										
	AM132S[1)] AM132M[1)]	230G7	22n6	265			300		196	38H7	80	41.3	10
	AM132ML[1)]		28n6										
R..87 F..87 K..87 S..87	AM80	130G7	12n6	165	4.5	250	200	M10	100	19F7	40	21.8	6
	AM90		14n6							24F7	50	27.3	8
	AM100	180G7	16n6	215	5		250	M12	131	28H7	60	31.3	8
	AM112		18n6										
	AM132S AM132M	230G7	22n6	265			300		191	38H7	80	41.3	10
	AM132ML		28n6										
	AM160[1)]	250G7	28n6	300	6		350	M16	236	42H7	110	45.3	12
	AM180[1)]		32n6							48H7		51.8	14

Flg.1



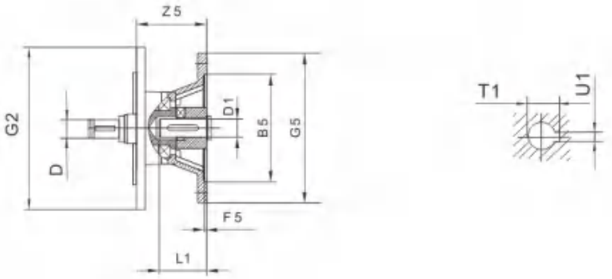
Flg.2

减速机规格 Gear unit type	联接盘规格 Motor adcopator	Fig	B5	D	E5	F5	G2	G5	S5	Z5	D1	L1	T1	U1
R..97 F..97 K..97 S..97	AM100	1	180G7	16n6	215	5	300	250	M12	116	28H7	60	31.3	8
	AM112			18n6										
	AM132S		230G7	22n6	265			300		169	38H7	80	41.3	10
	AM132M													
	AM132ML			28n6										
	AM160		250G7	28n6	300	6		350	M16	227	42H7	110	45.3	12
	AM180			32n6							48H7		51.8	14
	AM200		300G7	38n6	350	7		400		268	55F7		59.3	16
	AM225[1)]	2	350G7	38n6	400	6		450		283	60H7	140	64.4	18
R..107 F..107 K..107	AM100	1	180G7	16n6	215	5	350	250	M12	110	28H7	60	31.3	8
	AM112			18n6										
	AM132S		230G7	22n6	265			300		163	38H7	80	41.3	10
	AM132M													
	AM132ML			28n6										
	AM160		250G7	28n6	300	6		350	M16	221	42H7	110	45.3	12
	AM180			32n6							48H7		51.8	14
	AM200		300G7	38n6	350	7		400		262	55F7		59.3	16
	AM225	2	350G7	38n6	400	6		450		277	60H7	140	64.4	18
R..137	AM132S	1	230G7	22n6	265	5	400	300	M12	156	38H7	80	41.3	10
	AM132M													
	AM132ML			28n6										
	AM160		250G7	28n6	300	6		350	M16	214	42H7	110	45.3	12
	AM180			32n6							48H7		51.8	14
	AM200		300G7	38n6	350	7		400		255	55F7		59.3	16
	AM225	2	350G7	38n6	400	6		450		270	60H7	140	64.4	18

如果安装在R、K和S系列地脚安装方式的减速机上，请检查尺寸G5/2，它可能已经突出安装平面。
Dimension 1/2 G5 may protrude past foot mounting surface if mounted on R.K or S foot-mounted gear unit,Please check.

R/F/K/S联轴器尺寸表/ Coupling for mounting of IEC motor

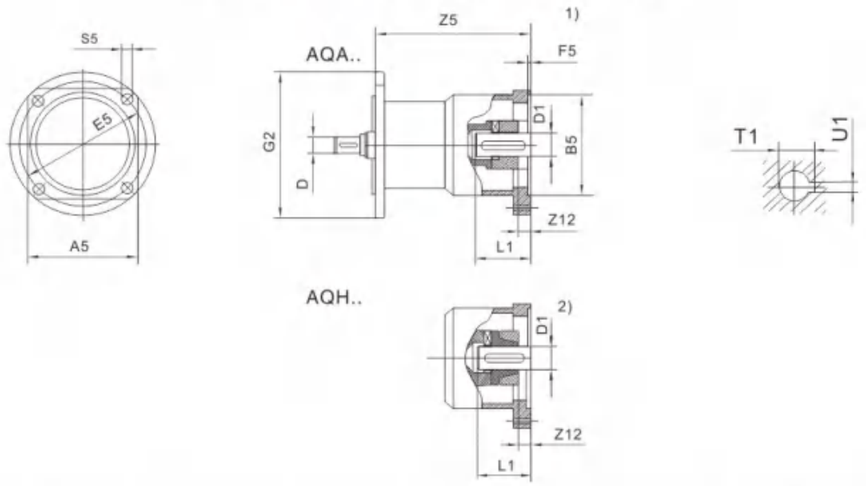
Flg.1



Flg.2

减速机规格 Gear unit type	联接盘规格 Motor adcopator	Fig.	B5	D	E5	F5	G2	G5	S5	Z5	D1	L1	T1	U1
R..147 F..127 K..127	AM132S	1	230G7	22n6	265	5	450	300	M12	148	38H7	80	41.3	10
	AM132M													
	AM132ML			28n6										
	AM160		250G7	28n6	300	6		350	M16	206	42H7	110	45.3	12
	AM180			32n6							48H7		51.8	14
	AM200		300G7	38n6	350	7		400		247	55F7		59.3	16
	AM225	2	350G7	38n6	400			450		262	60H7	140	64.4	18
	AM250		450G7	48n6	500			550		336	65H7		69.4	
	AM280										75H7		79.9	20
R..167 F..157 K..157 K..167 K..187	AM160	1	250G7	28n6	300	6	550	350	M16	198	42H7	110	45.3	12
	AM180			32n6							48H7		51.8	14
	AM200		300G7	38n6	350	7		400		239	55F7		59.3	16
	AM225	2	350G7	38n6	400			450		254	60H7	140	64.4	18
	AM250		450G7	48n6	500			550		328	65H7		69.4	
	AM280										75H7		79.9	20

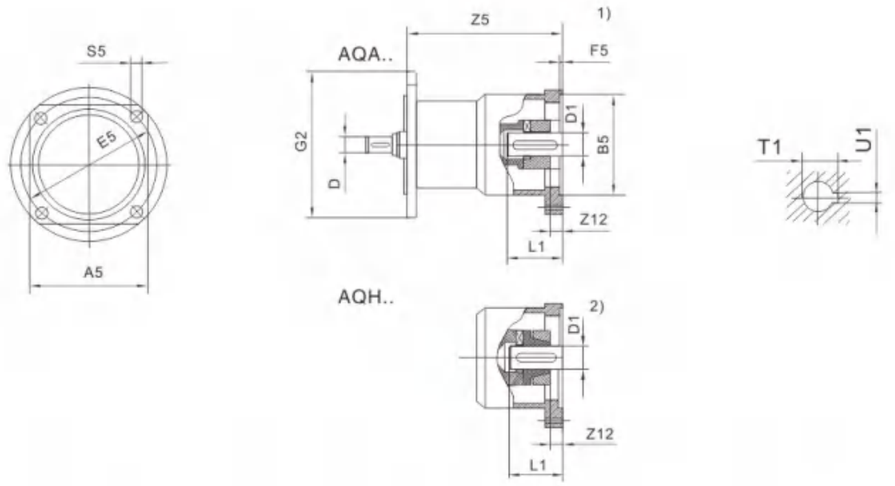
用于安装伺服电机的联接盘
Adapter for mounting of servomotors



减速机规格 Gear unit type	联接盘规格 Motor adcopator	A5	B5	D	E5	F5	G2	S5	Z5	Z12[1]	Z12[2]	D1	L1	T1[1]	U1[1]
R..27 R..37 F..37 F..47 K..37 S..37 S..47 S..57	AQ..80/1	82	60G7	10n6 12n6	75	3	120	M5	104.5	5.5	5.5	11F7	23	12.8	4
	AQ..80/2											14F7	30	16.3	5
	AQ..80/3		50G7		95			M6							
	AQ..100/1	100	80G7	10n6 12n6 14n6 16n6	100	4		M6	129.5	-	-	14F7	30	16.3	5
	AQ..100/2		95G7		115			M8							
	AQ..100/3		80G7		100			M6	143.5	7	14	19F7	40	21.8	6
	AQ..100/4		95G7		115			M8							
	AQ..115/1	115	95G7 110G7		130			M8	152.5	16	23	19F7	40	21.8	6
	AQ..115/2									21	16	24F7	50	27.3	8
	AQ..115/3														
R..47 R..57 R..67 F..57 F..67 K..47 K..57 K..67 S..67	AQ..80/1	82	60G7	10n6 12n6	75	3	160	M5	98	5.5	5.5	11F7	23	12.8	4
	AQ..80/2											14F7	30	16.3	5
	AQ..80/3		50G7		95			M6							
	AQ..100/1	100	80G7	10n6 12n6 14n6 16n6	100	4		M6	122.5	-	-	14F7	30	16.3	5
	AQ..100/2		95G7		115			M8							
	AQ..100/3		80G7		100			M6	136.5	7	14	19F7	40	21.8	6
	AQ..100/4		95G7		115			M8							
	AQ..115/1	115	95G7 110G7		130			M8	145.5	16	23	19F7	40	21.8	6
	AQ..115/2									21	16	24F7	50	27.3	8
	AQ..115/3														
	AQ..140/1	140	110G7	16n6	165	5		M10	175	21	16	24F7	50	27.3	8
	AQ..140/2		130G7	18n6											
	AQ..140/3			22n6					188	24	22	32F7	60	35.5	10

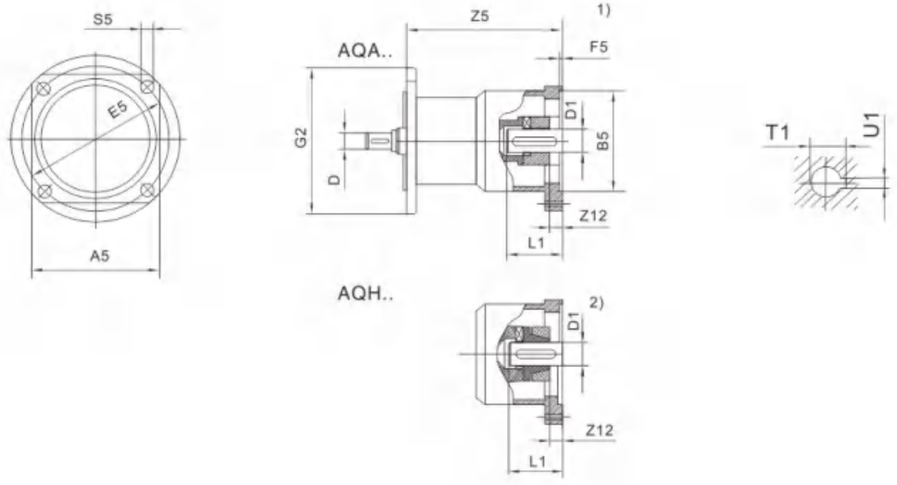
1)适用于键连接(AQA..)　　1)Applies to type with key way(AQA)
2)适用于锁紧套连接(AQH..)　　2)Applies to type with clamping ring hub (AQH)

R/F/K/S联接盘尺寸表/ Adapter for mounting of servomotor



减速器规格 Gear unit type	联接盘规格 Motor adcopator	A5	B5	D	E5	F5	G2	S5	Z5	Z12[1]	Z12[2]	D1	L1	T1[1]	U1[1]
R..77 F..77 K..77 S..77	AQ..80/1	82	60G7	10n6 12n6	75	3	200	M5	92	5.5	5.5	11F7	23	12.8	4
	AQ..80/2				75							14F7	30	16.3	5
	AQ..80/3		50G7		95			M6							
	AQ..100/1	100	80G7	10n6 12n6 14n6 16n6	100	4		M6	115.5	-	-	14F7	30	16.3	5
	AQ..100/2		95G7		115			M8							
	AQ..100/3		80G7		100			M6	129.5	7	14	19F7	40	21.8	6
	AQ..100/4		95G7		115			M8							
	AQ..115/1	115	95G7 110G7		130			M8	138.5	16	23	19F7	40	21.8	6
	AQ..115/2									21	16	24F7	50	27.3	8
	AQ..115/3														
	AQ..140/1	140	110G7	16n6 18n6 22n6	165	5		M10	167	21	16	24F7	50	27.3	8
	AQ..140/2		130G7						180	24	22	32F7	60	35.3	10
	AQ..140/3														
	AQ..190/1	190	130G7 180G7	22n6 28n6	215			M12	225.5	26	24	32F7	60	35.3	10
	AQ..190/2								249.5	39	34	38F7	80	41.3	10
	AQ..190/3														
R..87 F..87 K..87 S..87	AQ..100/1	100	80G7	12n6 14n6 16n6	100	4	250	M6	110.5	-	-	14F7	30	16.3	5
	AQ..100/2		95G7		115			M8							
	AQ..100/3		80G7		100			M6	124.5	7	14	19F7	40	21.8	6
	AQ..100/4		95G7		115			M8							
	AQ..115/1	115	95G7 110G7		130			M8	133.5	16	23	19F7	40	21.8	6
	AQ..115/2									21	16	24F7	50	27.3	8
	AQ..115/3														
	AQ..140/1	140	110G7	16n6 18n6 22n6	165	5		M10	162	21	16	24F7	50	27.3	8
	AQ..140/2		130G7						175	24	22	32F7	60	35.3	10
	AQ..140/3														
	AQ..190/1	190	130G7 180G7	22n6 28n6	215			M12	220.5	26	24	32F7	60	35.3	10
	AQ..190/2								244.5	39	34	38F7	80	41.3	10
	AQ..190/3														

1)适用于键连接(AQA..)　　1)Applies to type with key way(AQA)
2)适用于锁紧套连接(AQH..)　　2)Applies to type with clamping ring hub (AQH)



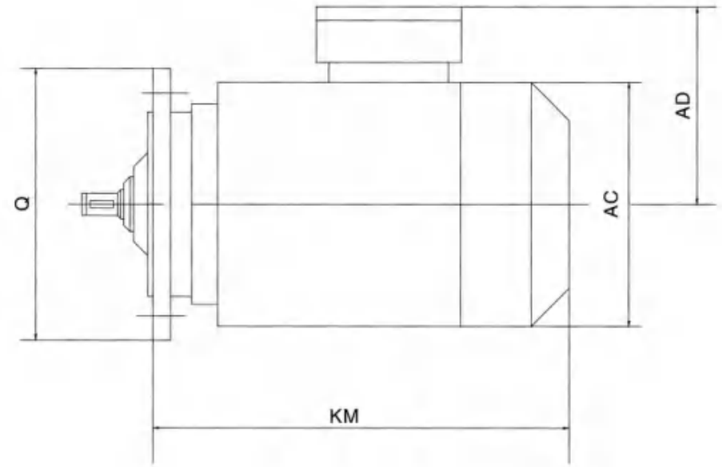
减速机规格 Gear unit type	联接盘规格 Motor adcopator	A5	B5	D	E5	F5	G2	S5	Z5	Z12[1]	Z12[2]	D1	L1	T1	U1
R..97 F..97 K..97 S..97	AQ..140/1	140	110G7	16n6 18n6 22n6	165	5	300	M10	157	21	16	24F7	50	27.3	8
	AQ..140/2		130G7												
	AQ..140/3								170	24	22	32F7	60	35.3	10
	AQ..190/1	190	130G7	22n6 28n6	215			M12	215.5	26	24	32F7	60	35.3	10
	AQ..190/2		180G7												
	AQ..190/3								239.5	39	34	38F7	80	41.3	
R..107 F..107 K..107	AQ..140/1	140	110G7	16n6 18n6 22n6	165		350	M10	151	21	16	24F7	50	27.3	8
	AQ..140/2		130G7												
	AQ..140/3								164	24	22	32F7	60	35.3	10
	AQ..190/1	190	130G7	22n6 28n6	215			M12	209.5	26	24	32F7	60	35.3	10
	AQ..190/2		180G7												
	AQ..190/3								233.5	39	34	38F7	80	41.3	
R..137	AQ..190/1	190	130G7	22n6 28n6	215		400	M12	202.5	-	25	32F7	60	35.3	10
	AQ..190/2		180G7												
	AQ..190/3								226.5	39	34	38F7	80	41.3	
R..147 F..127 K..127	AQ..190/1		130G7	22n6 28n6			450		194.5	26	24	32F7	60	35.3	
	AQ..190/2		180G7												
	AQ..190/3								218.5	39	34	38F7	80	41.3	

1)适用于键连接(AQA..)　　1)Applies to type with key way(AQA)

2)适用于锁紧套连接(AQH..)　　2)Applies to type with clamping ring hub (AQH)

附件一：电机尺寸表/The size of motor

(仅作参考，以厂家实际尺寸为准)
(for reference only, based on manufacturer's actual size)



电机型号	Q mm	标准KM mm	YEJ KM mm	YVP KM mm	YVPJ KM mm	AD mm	AC mm
Y63	120	221	275	290	330	70	130
	160	210	264	279	319		
	200	200	254	269	309		
Y71	120	249	300	299	373	80	140
	160	244	295	294	373		
	200	238	289	288	363		
Y80	120	271	330	327	418	145	175
	160	265	324	321	418		
	200	259	318	315	418		
	250	254	313	310	385		
Y90S (L)	120	300	355	350	440	155	195
		325	380	375	465		
	160	295	350	345	440		
		320	375	370	465		

电机型号	Q mm	标准KM mm	YEJ KM mm	YVP KM mm	YVPJ KM mm	AD mm	AC mm
Y132ML	400	385	468	423	506	168	275
	450	377	460	415	498		
	550	369	452	407	490		
Y160M	200	520	633	562	697	255	315
	250	520	633	562	697		
	300	520	633	562	697		
	350	502	613	542	677		
	400	502	613	542	677		
	450	475	585	515	650		
	550	476	568	505	603		
Y160L	250	565	678	607	742	255	315
	300	565	678	607	742		

电机型号	Q mm	标准 KM mm	YEJ KM mm	YVP KM mm	YVPJ KM mm	AD mm	AC mm
Y90S (L)	200	287	342	337	440	155	195
		312	367	362	465		
	250	283	338	333	415		
		308	363	358	440		
	300	291	342	346	402		
Y100	120	355	415	400	495	180	215
	160	347	407	392	490		
	200	339	399	389	490		
	250	335	395	380	490		
	300	329	389	375	452		
	350	323	383	370	455		
Y112	160	380	440	420	520	190	240
	200	371	431	411	520		
	250	366	426	406	520		
	300	361	421	401	470		
	350	355	415	395	470		
Y132S	160	420	490	460	580	210	275
	200	408	478	448	580		
	250	403	473	443	580		
	300	398	468	438	580		
	350	392	462	432	545		
	400	385	455	425	543		
	450	369	439	409	543		
Y132M	160	458	528	498	618	210	275
	200	446	516	486	618		
	250	441	511	481	618		
	300	436	506	476	618		
	350	430	500	470	583		
	400	423	493	463	581		
	450	407	477	447	581		
Y132ML	200	408	491	446	529	168	275
	250	403	486	441	524		
	300	398	481	436	519		
	350	392	475	430	513		

电机型号	Q mm	标准 KM mm	YEJ KM mm	YVP KM mm	YVPJ KM mm	AD mm	AC mm
Y160L	350	547	658	587	722	255	315
	400	547	658	587	722		
	450	520	630	560	695		
	550	518	635	560	695		
Y180M (L)	250	600	685	622	782	280	380
		638	723	660	800		
	300	581	666	603	762		
		619	703	641	781		
	350	581	666	603	762		
		619	703	641	781		
	400	581	666	603	762		
		619	703	641	781		
	450	553	638	575	725		
		591	676	613	753		
	550	581	666	603	763		
		619	703	641	781		
Y200	300	665	795	730	859	305	420
	350	665	795	730	859		
	400	654	782	717	852		
	450	654	782	717	852		
	550	642	770	705	840		
Y225S	300	716	858	770	900	335	470
	350	680	847	756	886		
	400	680	847	756	886		
	450	674	840	750	880		
	550	669	830	745	875		
Y225M	300	741	883	795	925	335	470
	350	702	872	781	911		
	400	702	872	781	911		
	450	696	865	775	905		
	550	691	860	770	900		
Y250M	400	785	932	839	992	370	510
	450	790	936	831	984		
	550	785	931	823	976		
Y280	400	898	1054	943	1099	408	580
	450	890	1046	835	1091		
	550	882	1038	927	1083		
Y315	660	1130	1286	1175	1331	530	635

注意：
YEJ表示电机增加制动器后的KM值。
YVP表示电机为变频调速三相异步电动机时的KM值。
YVPJ表示电动机为变频调速三相电动机并附带制动器式的KM值。
因空间限制对电机尺寸有要求时请向我公司咨询。

Notes:
YEJ is the KM value for motor with brake.
YVP is the KM value for asynchronous motor with frequency.
YVPJ is the KM value for asynchronous motor with frequency and brake.
if you have any special requirements, please contact us.

附件二：润滑油/LUBRICATION

2.1 概述

如果订货时没有商定特殊要求，公司将为您提供适用于减速器及其安装方式的润滑油进行润滑的传动机构。因为这个原因，所以请您在订货时指定与安装方式相关的参数（M1~M6，→“安装方式及重要的订货提供参数”章节）。在后期调整安装方式时，您必须根据改变后的安装方式相应调整加注润滑油（→润滑油注入量）。

2.1 General information

Unless a special arrangement is made, JIACHENG supplies the drives with a lubricant fill adapted for the specific gear unit and mounting position. The decisive factor is the mounting position (M1..M6,→ Sec."Mounting Positions and important Order Information")specified when ordering the drive. You must adapt the lubricant fill in case of any subsequent changes made to the mounting position(→ Lubricant fill quantities).

2.2 滚动轴承润滑脂

减速器和电动机的滚动轴承在出厂时就加注了润滑脂。对于配有润滑油加注装置的滚动轴承，建议在更换机油时也更换润滑脂。下列润滑脂更换时参考：

2.2 Anti-friction bearing greases

The lubricant table on the following page shows the permitted lubricants for JIACHENG gear units. Please note the following key to the lubricant table:

	环境温度	制造厂家	型号	润滑油类型
减速器滚动轴承	-20℃~+60℃	Mobil	Mobilux EP 2	矿物油
	-40℃~+80℃	Mobil	Mobiltemp SHC 100	合成油
电机滚动轴承	-20℃~+80℃	Esso	Unirex EQ 3	矿物油
	-20℃~+60℃	Shell	Alvania RI3	矿物油
	+80℃~+100℃	Klüber	Barrierta L55/2	合成油
	-45℃~+25℃	Shell	Aero Shell Grease 16	合成油

需要下列润滑脂加注量

- 如果是高速运转的轴承(电动机和减速器输入端)：轴承腔中加入三分之一的润滑脂。
- 如果是低速运转的轴承(电动机和减速器输出端)：轴承腔中加入三分之二的润滑脂。

The following grease quantities are required:

For fast-running bearings (motor and gear unit input end): Fill the cavities between the folling elements one third full with grease.

For fast-running bearings (in gear units and at gear unit output end): Fill the cavities between the folling elements one third full with grease.

传动装置润滑油表
Lubricant table

减速机型号 Gear unit type		6) °C -50 0 +50 +100	DIN (ISO)	ISO,NLGI	Mobil®	Shell		ARAL	bp	Tribol	TOTAL	Optimol	FUCHS
R...		-10 Standard +40	CLP(CC)	VG 220	Mobilgear 630	Shell Omala 220	Klüberoil GEM 1-220	Aral Degol BG 220	BP Energol GR-XP 220	Tribol 1100/220	Meropa 220	Optigear BM 220	Renolin CLP 220
		-25 +80	CLP PG	VG 220	Mobil Glygoyle 30	Shell Tivela HD 220	Klübersynth GH 6-220	Aral Degol GS 220	BP Enersyn SG-XP 220	Tribol 800/220	Syntube CLP 220	Optifflex A 220	
	4) -40	-40 +80	CLP HC	VG 220	Mobil SHC 630	Shell Omala HD 220	Klübersynth EG 4-220	Aral Degol PAS 220		Tribol 1510/220	Pinnacle EP 220	Optigear Synthetic A 220	Renolin Unisyn CLP 220
K...		-20 +25	CLP (CC)	VG 150 VG 100	Mobilgear 627	Shell Omala HD 150	Klüberoil GEM 1-150	Aral Degol BG 100	BP Energol GR-XP 100	Tribol 1100/100	Meropa 150	Optigear BM 100	Renolin CLP 150
		-30 +10	HLP (HM)	VG 68-46 VG 32	Mobil D.T.E. 13M	Shell Tellus T 32	Klüberoil GEM 1-68	Aral Degol BG 46		Tribol 1100/68	Rando EP Ashless 46	Optigear 32	Renolin B 46 HVI
F...	4) -40	-40 +10	CLP HC	VG 32	Mobil SHC 624		Klüber-Summit HySyn FG-32				Cetus PAO 46		
	4) -40 -20		HLP (HM)	VG 22 VG 15	Mobil D.T.E. 11M	Shell Tellus T 15	Isoflex MT 30 ROT		BP Energol HLP-HM 15		Rando HDZ 15		
S...		Standard 0 +40	CLP (CC)	VG 680	Mobilgear 636	Shell Omala 680	Klüberoil GEM 1-680	Aral Degol BG 680	BP Energol GR-XP 680	Tribol 1100/680	Meropa 680	Optigear BM 680	Renolin CLP 680
	4) -20	-20 +60	CLP PG	VG 680 1)		Shell Tivela S 680	Klübersynth GH 6-680		BP Enersyn SG-XP 680	Tribol 800/680	Syntube CLP 680		
	4) -30	-30 +80	CLP HC	VG 460	Mobil SHC 634	Shell Omala HD 460	Klübersynth EG 4-460				Pinnacle EP 460		
	4) -40	-40 +10	CLP HC	VG 150	Mobil SHC 629	Shell Omala HD 150	Klübersynth EG 4-150				Pinnacle EP 150		
	-20	-20 +10	CLP (CC)	VG 150 VG 100	Mobilgear 627	Shell Omala 100	Klüberoil GEM 1-150	Aral Degol BG 100	BP Energol GR-XP 100	Tribol 1100/100	Meropa 100	Optigear BM 100	Renolin CLP 150
	-25	-25 +20	CLP PG	VG 220 1)	Mobil Glygoyle 30	Shell Tivela S 220	Klübersynth GH 6-220			Tribol 800/220	Optiflex A 220		
	4) -40	0	CLP HC	VG 32	Mobil SHC 624		Klüber-Summit HySyn FG-32			Tribol 800/220	Cetus PAO 46		
R...K... F...S...	4) -30	-30 +40	HCE	VG 460			Klüberoil 4UH1-460 N	Aral Eural Gear 460				Optileb GT 460	
	-20	-20 +40	E	VG 460			Klüberbio CA2-460	Aral Degol BAB 460				Optisynt BS 460	
F 27 R17 R27		-25 +60	DIN 51 818 5)	00	Glygoyle Grease 00	Shell Tivela GL 00	Klübersynth GE 46-1200				Multifak 6833 EP 00		
		Standard -15 +40		000 - 0	Mobilux EP 004	Shell Alvania GL 00		Aralub MFL 00	BP Energrease LS-EP 00		Multifak EP 000	Longtime PD 00	Renolin SF 7 - 041

注：以上表格中上色部分为合成油产品，空白为该品牌无此系列产品。

Notes: In the above table, the color part is synthetic products and the blank one means no this series products.

附件三：维护/MAINTENANCE

1). 对于齿轮箱，首次换油必须在工作大约300小时(齿轮磨合期)后进行，在换油时应使用合适的清洗剂小心地冲洗齿轮箱，不得将矿物油和合成油混合。

2). 每工作3000小时，最低程度半年，应检测油以及油位，油封密封不严引起滴漏的常规检测，若是IEC输入的减速器，则检测检查弹性体，必要时进行更换。

3). 根据不同的工作条件(见下图)而定，最长每三年检测一次，更换矿物油，更换轴承润滑油脂。

4). 根据不同的工作条件而定，更换输出轴上的油封。

5). 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(需提供减速器规格、出厂日期、编号、已使用时间、主机名称、主机生产单位和故障类型)后，再采取合理的措施。

附件四：存放/STORAGE

1). 有顶棚，防雨雪，无振动。

2). 在设备和地面之间垫放木块或其他材料。

3). 开箱后暂不使用的齿轮减速器在其加工表面涂上防锈油，并应及时放回包装箱内。

4). 在定期检查的情况下，两年以及更长时间。在进行检查时，应检查清洁度和机械损伤，检查防锈层是否完好。

附件五：定货须知/NOTICE FOR ORDER

减速器定单请向我们提供以下信息：

1). 减速器型号标记(减速器类型、速比、功率和安装方式)。

2). 订货时注意：选用RF和RXF型时要注明输出法兰的外径大小；选SA、SAF、SAZ型时要注明输出轴孔径大小

3). 选K、KF、KAF、KAZ及S、SF、SAF、SAZ型时要注明输出轴及输出法兰的方向（A向或B向）。

4). 订货时还须注明减速机工作时的实际安装方式（M1~M6）,共有6种安装方式。

5). 如配直联电机，则要注明电机接线盒的方向，共有0度、90度、180度、270度四种方向。

6). 减速器表面喷涂颜色，有蓝色和灰色两种供选择，一般按蓝色提供。

7). 订购数量。

8). 其他特殊要求。

9). 单位名称、联系人、联系电话。

附件六：故障诊断/FAULT DIAGNOSIS

6.1 减速器故障/Gear unit malfunctions

故障	可能的原因	解决办法
异常、均匀的运转噪声。	A. 滚动/碾压噪声：轴承损坏。 B. 冲击型噪声：齿轮啮合不均匀。	A. 检查润滑油，更换轴承。 B. 请咨询客户服务部。
异常、不均匀的运转噪声。	机油中有异物。	·检测润滑。 ·停止运转传动装置，向客户服务部咨询。
机油泄漏[1)] ·在减速器盖上。 ·在电机凸缘上。 ·在电机轴密封圈上。 ·在减速器凸缘上。 ·在输出端轴密封圈上。	A. 减速器底座上的橡胶密封发生渗漏。 B. 密封圈损坏。 C. 减速器没有排气。	A. 拧紧各个外盖上的螺钉并且观察减速器。如果机油继续泄露，请咨询客户服务部。 B. 请咨询客户服务部。 C. 给减速器排气(参见“安装方式”)。
机油从排气阀旁渗出。	A. 机油太多。 B. 传动装置安装方式错误。 C. 频繁冷起动(机油起泡沫)和/或者较高的油位。	A. 修正油量(参见“润滑油”)。 B. 正确安装排气阀并且矫正油位(参见“安装方式”)。
尽管电机在运转或者传动轴已经被驱动，但是传动轴不转动。	减速器中的轴轮毂联接断裂。	将减速器或减速电机送修。

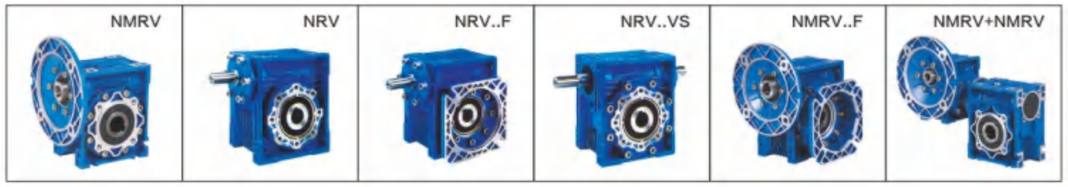
[1)]在磨合试运转阶段(24小时的运转时间内)，轴密封圈有可能出现短期内的漏油/漏脂的现象。

6.2 IEC 连接器运转故障/IEC couplings malfunctions

故障	可能的原因	解决办法
异常、均匀的运转噪声。	滚动/碾压噪声：轴承损坏。	与我公司客户服务部联系。
机油泄漏。	密封圈损坏。	与我公司客户服务部联系。
尽管电机在运转或者传动轴已经被驱动，但是传动轴不转动。	减速器中的轴轮毂联接断裂。	将减速器发送到我公司进行维修。
运转时的噪声发生变化以及/或者出现不正常的震动。	A. 齿圈磨损，因为通过金属直接接触进行短期转动扭矩的传输造成。 B. 轴向轮毂连接螺栓松动。	A. 更换齿圈。 B. 拧紧螺栓。
过早的齿圈磨损。	A. 接触腐蚀性流体或油；臭氧的侵蚀影响，工作环境温度过高等等，都导致齿圈发生规格的改变。 B. 对于齿圈，不允许过高的环境温度以及接触区域温度过高；最大的温度允许范围为-20℃到+80℃。 C. 负载过载。	与我公司客户服务部联系。

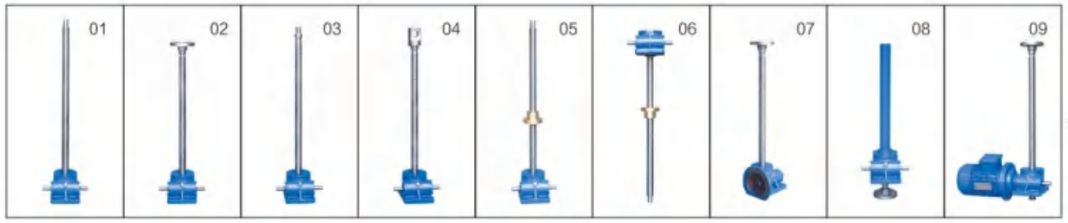
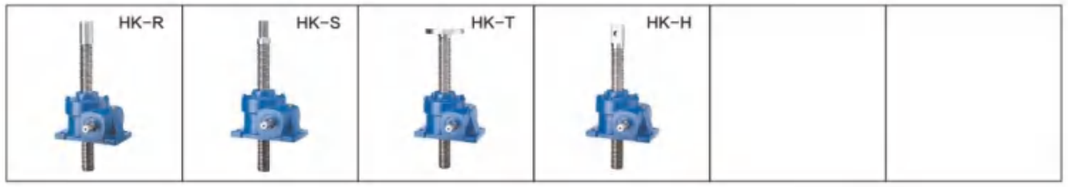
其他系列产品
Other series products

RV系列蜗轮蜗杆减速机 / RV Series Worm Gear Speed Reducer



WP系列蜗轮蜗杆减速机 / WP Series Worm Gear Speed Reducer

SWL系列蜗轮丝杆升降机 / SWL Series Worm Gear Screw Jack



HK系列蜗轮丝杆升降机 / HK Series Worm Gear Screw Jack