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服务系数

Service Factors

工作机 Driven machines	日带载运行时间 (小时) Effective daily operating period under load in hours			工作机 Driven machines	日带载运行时间 (小时) Effective daily operating period under load in hours		
	0.5	>0.5-10	>10		0.5	>0.5-10	>10
污水处理 Waste water treatment				输送机械 Conveyors			
浓缩器(中心传动) Thickeners(central drive)	-	-	1.2	斗式输送机 Bucket conveyors	-	1.4	1.5
压滤器 Filter presses	1.0	1.3	1.5	绞车 Hauling winches	1.4	1.6	1.6
絮凝器 Flocculation apparata	0.8	1.0	1.3	卷扬机 Hoists	-	1.5	1.8
曝气机 Aerators	-	1.8	2.0	皮带输送机 ≤150kw Belt conveyors 150 kW	1.0	1.2	1.3
捞渣设备 Raking equipment	1.0	1.2	1.3	皮带输送机 ≥150kw Belt conveyors 150 kW	1.1	1.3	1.4
纵向、回转组 Combined longitudinal and rotaty rakes	-	-	-	货用电梯 * Goods lifts	-	1.2	1.5
合式接集装置 and rotaty rakes	1.0	1.3	1.5	客用电梯 * Passenger lifts	-	1.5	1.8
浓缩器 Pre-thickeners	-	1.1	1.3	刮板式输送机 Apron conveyors	-	1.2	1.5
螺杆泵 Screw pumps	-	1.3	1.5	自动扶梯 Escalators	1.0	1.2	1.4
水轮机 Water turbines	-	-	2.0	轨道行走机构 Rail travelling gears	-	1.5	-
泵 Pumps				变频装置 Frequency converters	-	1.8	2.0
离心泵 Centrifugal pumps	1.0	1.2	1.3				
容积式泵 Positive-displacement pumps	-	-	-	往复式压缩机 Reciprocating compressors	-	1.8	1.9
1个活塞 1 piston	1.3	1.4	1.8				
>1个活塞 >1 piston	1.2	1.4	1.5	起重机械 ** Cranes			
挖泥机 Dredgers				回转机构 * Slewing gears	1.0	1.4	1.8
斗式输送机 Bucket conveyors	-	1.6	1.6	俯仰机构 Luffing gears	1.0	1.1	1.4
倾卸装置 Dumping devices	-	1.3	1.5	行走机构 Travelling gears	1.1	1.6	2.0
Caterpillar行走机构 Caterpillar travelling gears	1.2	1.6	1.8	提升机构 Hoisting gears	1.0	1.1	1.4
斗式挖掘机 Bucket wheel excavators				转臂式起重机 Derricking jib cranes	1.0	1.2	1.6
用于拾拾 as pick-up	-	1.7	1.7				
用于粗料 for primitive material	-	2.2	2.2	冷却塔 Cooling towers			
切碎机 Cutter heads	-	2.2	2.2	冷却塔风扇 Cooling tower fans	-	-	2.0
行走机构 Traversing gears	-	1.4	1.8	风机(轴流和离心式) Blowers(axial and radial)	-	1.4	1.5
弯板机 Plate bending machines	-	1.0	1.0				
				食品工业 Food industry			
化学工业 Chemical industry				蔗糖生产 Cane sugar production	-	-	1.7
挤压机 Extruders	-	-	1.6	甘蔗切碎机 * Cane knives	-	-	1.7
调浆机 Dough mills	-	1.8	1.8	甘蔗碾磨机 Cane mills	-	-	1.2
橡胶研光机 Rubber calenders	-	1.5	1.5	甜菜糖生产 Beet sugar production	-	-	1.2
冷却圆筒 Cooling drums	-	1.3	1.4	甜菜绞碎机 Beet cossettes macerators,	-	-	1.4
混料机,用于 Mixers for				窄取机,机械致 Extraction plants,Mechanical	-	-	1.4
均匀介质 uniform media	1.0	1.3	1.4	冷机, 蒸煮机 refrigerators,Juice boilers,	-	-	1.5
非均匀介质 non-uniform media	1.4	1.6	1.7	甜菜清洗机 Sugar beet washing machines,	-	-	1.5
搅拌机,用于 Agitators for media with				甜菜切碎机 Sugar beet cutters	-	-	1.5
密度均匀介质 uniform density	1.0	1.3	1.5				
不均匀介质 non-uniform density	1.2	1.4	1.6	造纸机械 Paper machines			
不均匀气体吸收 non-uniform gas absorption	1.4	1.6	1.8	各种类型 *** of all-kind	-	1.8	2.0
烘炉 Toasters	1.0	1.3	1.5	碎浆机驱动装置 Pulper drives	-	-	根据客户要求供货 Onrequest
离心机 Centrifuges	1.0	1.2	1.3				
金属加工设备 Metal working mills				离心式压缩机 Centrifugal compressors	-	1.4	1.5
翻板机 Plate tilters	1.0	1.0	1.2				
推钢机 Ingot pushers	-	1.6	1.6	索道缆车 Cableways			
绕线机 Winding machines	-	1.5	1.5	运货索道 Material ropeways	-	1.3	1.4
冷床横移架 Cooling bed transfer frames	-	1.6	1.6	往返系统空中索道 To- and fro system aerial rope ways	-	1.6	1.8
辊式矫直机 Roller straighteners	-	1.6	1.6	T-型杆升降机 T-bar lifts	-	1.3	1.4
辊道 Roller tables				连续索道 Continuous ropeways	-	1.4	1.6
连续式 continuous	-	1.5	1.5				
间歇式 intermittent	-	2.0	2.0	水泥工业 Cement industry			
可逆式轧管机 Reversing tube mills	-	1.8	1.8	混凝土搅拌机 Concrete mixers	-	1.5	1.5
剪切机 Shears				破碎机 Breakers	-	1.2	1.4
连续式 continuous	-	1.5	1.5	回转窑 Rotary kilns	-	-	2.0
曲柄式 * crank type	1.0	1.0	1.0	管式磨机 Tube mills	-	-	2.0
连铸机驱动装置 Continuous casting drivers	-	1.4	1.4	选粉机 Separators	-	1.6	1.6
轧机 Rolls				辊压机 Roll crushers	-	-	2.0
可逆式开坯机 Reversing blooming mills	-	2.5	2.5				
可逆式板坯轧机 Reversing slabbing mills	-	2.5	2.5				
可逆式线材轧机 Reversing wire mills	-	1.8	1.8				
可逆式薄板轧机 Reversing sheet mills	-	2.0	2.0				
可逆式中厚板轧机 Reversing plate mills	-	1.8	1.8				
辊缝调节驱动装置 Roll adjustmint drives	0.9	1.0	-				

1.工作机额定功率P2的确定;
*) 按最大的扭矩确定额定功率。
**) 可交载荷准确地分类。
***) 检验热容量是绝对必要的。
2.所列各项系数均为经验值。使用这些系数的前提条件是,所述机械设备应符合通常的设计规范和载荷条件。如遇特殊情况,请及时与我们取得联系。
3.对于那些未列入此表的工作机械,请与我们联系。

1.Design for power rating of driven machine P2
*) Designed power corresponding to max. torque
**) Load can be exactly classified, for Instance.
***) A check for thermal capacity is absolutely essential
2.The listed factors are empirical values. Prerequisite for their application is that the machinery and equipment mentioned correspond to generally accepted design and load specifications. In case of derations from standard conditions, please refer to us
3.For driven machines which are not listed in this table, please refer to us.

减速器
服务系数

Gear Units
Service Factor

原动机 Prime mover	系数 Factor
电机, 液压马达, 汽轮机 Electric motors,hydraulic motors,turbines	1.0
4-6缸活塞发动机 Piston engines4-6cylinders	1.25
1-3缸活塞发动机 Piston engines1-3cylinders	1.5

环境温度 Ambient temperature	不带辅助冷却装置或仅带冷却风扇 Without auxiliary cooling or with fan cooling				
	每小时工作周期(ED)百分比% Operating cycle perhour(ED)in %				
	100	80	60	40	20
10°C	1.14	1.20	1.32	1.54	2.04
20°C	1.00	1.06	1.16	1.35	1.79
30°C	0.87	0.93	1.00	1.18	1.56
40°C	0.71	0.75	0.82	0.96	1.27
50°C	0.55	0.58	0.64	0.74	0.98

每小时启动次数 Starts perhour	系数 Factor			
	1	1.25	2	≥3
≤5	1	1	1	1
6-25	1.2	1.12	1.06	1
26-60	1.3	1.2	1.12	1.06
61-180	1.5	1.3	1.2	1.12
>180	1.7	1.5	1.3	1.2

海拔高度 (m) Altitude(meters)	系数 Factor				
	高达 Up to 1000	高达 Up to 2000	高达 Up to 3000	高达 Up to 4000	高达 Up to 5000
不带辅助冷却装置或仅带冷却风扇 Without auxiliary cooling or with fan cooling	1.0	0.95	0.90	0.85	0.80
带辅助冷却装置或仅带冷却风扇 For cooling with cooling coil,or with fan and cooling coil	1.04	1.10	1.21	1.40	1.86
20°C	1.00	1.06	1.16	1.35	1.79
30°C	0.93	0.99	1.08	1.26	1.66
40°C	0.88	0.93	1.02	1.19	1.58
50°C	0.81	0.86	0.94	1.09	1.45

重要性 与安全 要求 Importance and safety request.	一般设备, 减速器失效仅引起单机停产且易更换备件 Ordinary equipment, malfunction only cause accident of single machine and easily replaced.	重要设备, 减速器失效引起机组、生产线或全厂停产。 Important equipment, malfunction cause the accident of assembling unit, production-line or whole factory.	高度安全要求, 减速器失效引起设备、人身事故 Safety request highly. Malfunction cause the accident of equipment and personal injury.
f3	1.3-1.7	1.5-2.0	1.7-2.5

峰值扭矩系数 Peak torque factor	每小时峰值负荷次数 Load peak perhour			
	1-5	6-30	31-100	>100
单向载荷	0.5	0.65	0.7	0.85
交变载荷	0.7	0.95	1.10	1.25

功率利用率系数 Utilization factor	功率利用率 Power utilization							
	30%	40%	50%	60%	70%	80%	90%	100%
f7	0.66	0.77	0.83	0.90	0.90	0.95	1.0	1.0

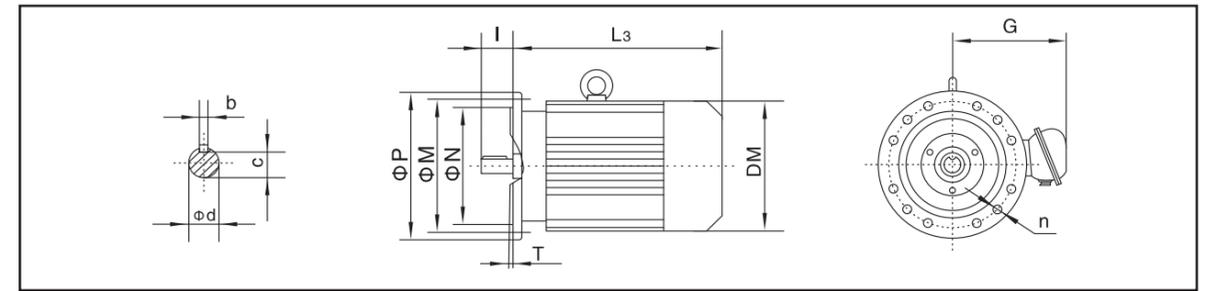
国内外电机对照表
Comparative table of various motor model domestically

表9 Table9

国外电机型号 Foreigner Motor Ttupe	功率(kW) Power	国产电机型号 China Motor Ttupe	转速(r/min) Speed
DR63M6	0.12		
DR63L6	0.18	Y2-711-6	900
DR63S4	0.12	Y2-631-4	1400
DR63M4	0.18	Y2-632-4	1400
DR63L4	0.25	Y2-711-4	1400
DR63M2	0.25	Y2-632-2	2800
DT71D6	0.25	Y2-712-6	900
DT71D4	0.37	Y2-712-4	1400
DT71D2	0.55	Y2-712-2	2800
DT80N8	0.25	Y2-802-8	690
DT80K6	0.37	Y2-801-6	900
DT80N6	0.55	Y2-802-6	900
DT80K4	0.55	Y2-801-4	1390
DT80N4	0.75	Y2-802-4	1390
DT80K2	0.75	Y2-801-2	2825
DT90S8	0.37	Y2-90S-8	690
DT90L8	0.55	Y2-90L-8	690
DT90S6	0.75	Y2-90S-6	910
DT90L6	1.1	Y2-90L-6	910
DT90S4	1.1	Y2-90S-4	1400
DT90L4	1.5	Y2-90L-4	1400
DV100M8	0.75	Y2-100L1-8	700
DV100L8	1.1	Y2-100L2-8	700
DV100M6	1.5	Y2-100L-6	940
DV100M4	2.2	Y2-100L1-4	1420
DV100L4	3.0	Y2-100L2-4	1420
DV112M8	1.5	Y2-112M-8	700
DV112M6	2.2	Y2-112M-6	940
DV112M4	4.0	Y2-112M-4	1440
DV132S4	5.5	Y2-132S-4	1440
DV132M4	7.5	Y2-132M-4	1440
DV160M4	11	Y2-160M-4	1460
DV160L4	15	Y2-160L-4	1460
DV180M4	18.5	Y2-180M-4	1470
DV180L4	22	Y2-180L-4	1470
DV200L4	30	Y2-200L-4	1480
DV225S4	37	Y2-225S-4	1480
DV225M4	45	Y2-225M-4	1480
D250M4	55	Y2-250M-4	1480
D280S4	75	Y2-280S-4	1480
D280M4	90	Y2-280M-4	1485
D315S4	110	Y2-315S-4	1485
D315M4	132	Y2-315M-4	1485
D315M4a	160	Y2-315L1-4	1485
D315M4b	200	Y2-315L2-4	1485

表10 Table10

电机代号:	Motor code:
普通(更新) Y(Y2)	Ordinary(renew) Y(Y2)
防爆 B	Flame-proof B
直流 Z	Direct current Z
制动 E	Brake E
多速 D	Multi-speed D
变频 V	Variable frequency V
分马力 F	Power-divided F
增安 A	Ampere-increased A
电磁调速 C	Electromagnetism speed modulation C
冶金起重 R	Hoisting in metallurgy R
变频制动 VE	Variable frequency and brake VE
辊道 G	Roller tables G



标准普通电机和特殊电机的参数及安装尺寸
Standard and or dinary motor or speciel motor parameter and mounting dime nsion

表11 Table11

电机机座号 Motor size	4级 Class4		6级 Class6		8级 Class8		L3				G	DM	安装尺寸 Mounting dimensions										M(kg)					
	P1 (KW)	n1 (r/min)	P1 (KW)	n1 (r/min)	P1 (KW)	n1 (r/min)	Y2	B	E	V	Y2	Y2	M	N	P	n	T	d	l	b	c	Y (铝壳 Aluminum housing)	Y2	B	E	V		
63	0.12	1390					202	270	328		70	130	115	95j6	140	4xΦ10	3	11j6	23	4	8.5	5.5	13			11		
	0.18	1390																				6	13.5	15		12		
71	0.25	1390	0.18	900			225	285	345		80	145	130	110j6	160	4xΦ10	3.5	14j6	30	5	11	6.5	14	16	12	14		
	0.37	1390	0.25	900																		7.5	14.5	16	13	15		
80	0.55	1390	0.37	900	0.18	690	255	290	350	310	145	175	165	130j6	200	4xΦ12	3.5	19j6	40	6	15.5	10	15	31	20	16		
	0.75	1390	0.55	900	0.25	690																11	16	32	21	17		
90S	1.1	1400	0.75	910	0.37	690	270	310	370	320	155	195	165	130j6	200	4xΦ12	3.5	24j6	50	8	20	16	23	35	27	23		
90L	1.5	1400	1.1	910	0.55	690	295	335	395	345			165	130j6	200	4xΦ12	3.5	24j6	50	8	20	20	25	39	31	28		
100	2.2	1420			0.75	700	325	370	420	370	180	215	215	180j6	250	4xΦ15	4	28j6	60	8	24		33	49	41	35		
	3	1420	1.5	940	1.1	700																	35	53	44	36		
112M	4	1440	2.2	940	1.5	700	340	400	450	390	190	240	215	180j6	250	4xΦ15	4	28j6	60	8	24		41	67	60	43		
132S	5.5	1440	3	960	2.2	710	390	430	505	450	210	275	265	230j6	300	4xΦ15	4	38k6	80	10	33		65	93	85	63		
132M	7.5	1440	4	960	3	710	430	470	545	490	210	275	265	230j6	300	4xΦ15	4	38k6	80	10	33		76	105	98	75		
			5.5	960																								
160M	11	1460	7.5	970	4	720	505	545	610	550	255	330	300	250h6	350	4xΦ19	5	42k6	110	12	37		118	150	143	116		
					5.5	720																						
160L	15	1460			7.5	720	560	585	655	595	255	330	300	250h6	350	4xΦ19	5	42k6	110	12	37		132	169	165	136		
180M	18.5	1470	11	970	/	720	590	620	715	740			280	380	300	250h6	350	4xΦ19	5	48k6	110	14	42.5		164	205	203	169
180L	22	1470	15	970	11	730	630	640	765	790					300	250h6	350	4xΦ19	5	48k6	110	14	42.5		182	222	216	183
200	30	1470	18.5	970	15	730	660	695	790	850	305	420	350	300h6	400	4xΦ19	5	55k6	110	16	49		245	300	296	236		
			22	970																								
225S	37	1480			18.5	730	675	705	860	910	335	470	400	350h6	450	8xΦ19	5	60m6	140	18	53		258	360	370	291		
225M	45	1480	30	980	22	730	705	730	890	940	335	470	400	350h6	450	8xΦ19	5	60m6	140	18	53		290	390	405	327		
250	55	1480	37	980	30	730	770	795		1060	370	510	500	450h6	550	8xΦ19	5	65m6	140	18	58		388	530	498	393		
280S	75	1480	45	980	37	740	845	870		1160			500	450h6	550	8xΦ19	5	75m6	140	20	67.5		510	660	633	520		
280M	90	1485	55	980	45	740	895	920		1260			500	450h6	550	8xΦ19	5	75m6	140	20	67.5		606	785	723	610		
315S	110	1485	75	985	55	740	1100	1100		1330	576	645	600	550h6	660	8xΦ24	6	80m6	170	22	71		910	1000	1150	950		
315M	132	1485	90	985	75	740	1180	1180		1380	576	645	600	550h6	660	8xΦ24	6	80m6	170	22	71		1000	1100	1230	1030		
315L	160	1485	110	985	90	740					576	645											1055	1100	1320	1100		
	200	1485	132	985	110	740	1270	1270		1450	576	645	600	550h6	660	8xΦ24	6	80m6	170	22	71		1128	1160	1420	1200		

注: 由于结构需要及生产厂家不同,有时参会有所变化,此表仅供参考,准确尺寸请来电垂询。

Note: Sometimes the parameters may be changed with the different structures and manufacturers, this table is only for reference, please refer to us for the exact dimensions.

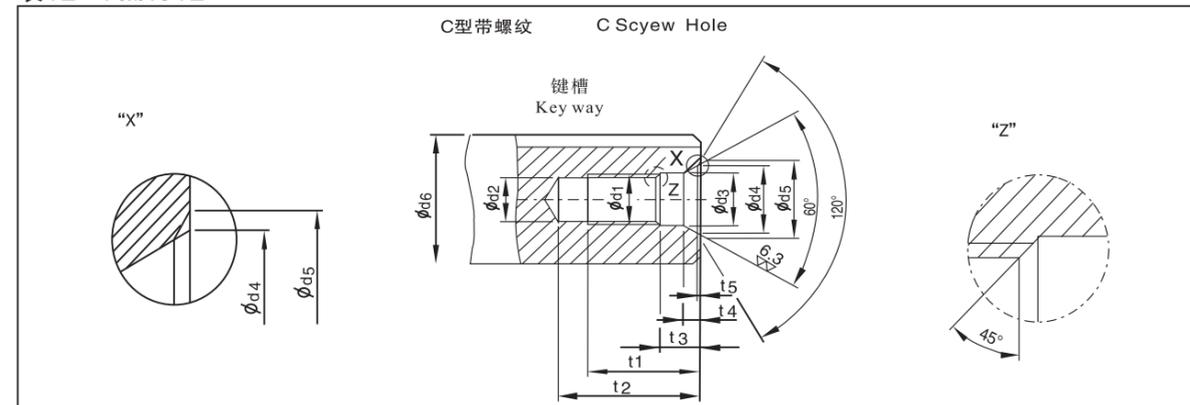
齿轮箱
平键和键槽
Parallelkeyandkeyway

表11 Table11

	轴 Shaft		轴公差 Shaft Tolerance	孔公差 Hole Tolerance
	mm	mm		
轴径公差标准(GB/T1095-1979) Toleranceforshafcdiameter(GB/T1095-1979)	≤25	≤100	k6	H7
	> 25	— 100	m6	
	> 100	—	n6	

平键 平键紧固方式，采用无锥度联接。 Drive type fastening without taper action	直径 Diameter d		宽度 Width b	高度 Height h	轴键槽深度 Depth of Key way in shaft t ₁	轮毂键槽深度 Depth of Key way in hub d+t ₂ DIN 6885/1 mm
	mm	mm				
	平键和键槽根据 GB/T1095-1979 标准 确定 Parallel Key and Keyway acc. to GB/T 1095-1979	mm	mm	mm	mm	mm
8	10	3	3	1.8	d+1.4	
10	12	4	4	2.5	d+1.8	
12	17	5	5	3	d+2.3	
17	22	6	6	3.5	d+2.8	
22	30	8	7	4	d+3.3	
30	38	10	8	5	d+3.3	
38	44	12	8	5	d+3.3	
44	50	14	9	5.5	d+3.8	
50	58	16	10	6	d+4.3	
58	65	18	11	7	d+4.4	
65	75	20	12	7.5	d+4.9	
75	85	22	14	9	d+5.4	
85	95	25	14	9	d+5.4	
95	110	28	16	10	d+6.4	
110	130	32	18	11	d+7.4	
130	150	36	20	12	d+8.4	
150	170	40	22	13	d+9.4	
170	200	45	25	15	d+10.4	
200	230	50	28	17	d+11.4	
230	260	56	32	20	d+12.4	
260	290	63	32	20	d+12.4	
290	330	70	36	22	d+14.4	
330	380	80	40	25	d+15.4	
380	440	90	45	28	d+17.4	
440	500	100	50	31	d+19.4	

表12 Table12

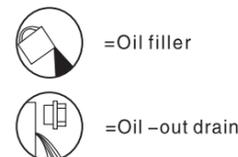


d6 1)	C 中心孔 hole	d1	d2 2)	d3	d4	d5	t1 +2 mm	t2 min.	t2 max.	t3 +1	t4 ±	t5 ±
16<d6≤21	C 6	M 6	5	6.4	9.6	10.5	16	20	22	5	2.8	0.4
21<d6≤24	C 10	M 8	6.8	8.4	12.2	13.2	19	25	26	6	3.3	0.4
24<d6≤30	C 10	M 10	8.5	10.5	14.9	16.3	22	30	34	7.5	3.8	0.6
30<d6≤38	C 12	M 12	10.2	13	18.1	19.8	28	37	42	9.5	4.4	0.7
38<d6≤50	C 16	M 16	14	17	23	25.3	36	45	50	12	5.2	1.0
50<d6≤85	C 20	M 20	17.5	21	28.4	31.3	42	53	59	15	6.4	1.3
85<d6≤130	C 24	M 24	21	25	34.2	38	50	63	68	18	8	1.6
130<d6≤225*	C 30	M 30*	26.5	31	44	48	60	77	83	22	11	1.9
225<d6≤320*	C 36	M 36*	32	37	55	60	74	93	99	27	15	2.3
320<d6≤500*	C 42	M 42*	37.5	43	65	71	84	105	111	32	19	2.7

有关符号说明如下:



The signs specification is as following:



R、F、K、S系列减速机，具有体积小，重量轻，传递转矩大，性能优越等特点，是一种新型减速传动装置。在模块组合的基础上，采用优化设计与制造，能满足用户要求进行任意联接和多种安装位置的选择，本厂采用优化组合后能在较短时间交货。本厂采用带筋的高刚性箱体，优质合金钢的齿轮与齿轮表面经渗碳淬火，齿面经高精度磨齿加工，使传动平稳噪音低，承载能力大，耗能低，传动效率高，温升低寿命长等特点。

硬齿面齿轮减速电机 Hard Tooth Flank Gear Reducer



R系列/R SERIES



F系列/F SERIES

R、F、K、S series hard tooth flank gear reducer is characterized by compact structure, light weight, large torque and excellent performance. As a new reducing transmission system, it's advantaged in design and manufacture on the basis of the modularized combination, which can meet client's requirement on connection and installation. Prompt delivery within short time. Made of rib-reinforced rigid case, premium alloy-steel gear that's hardened by carbon penetration and grinded precisely. Stable in running, low in noise, large in load, low in consumption, efficient in transmission, low in temperature rise, and long in service life.



S系列/S SERIES



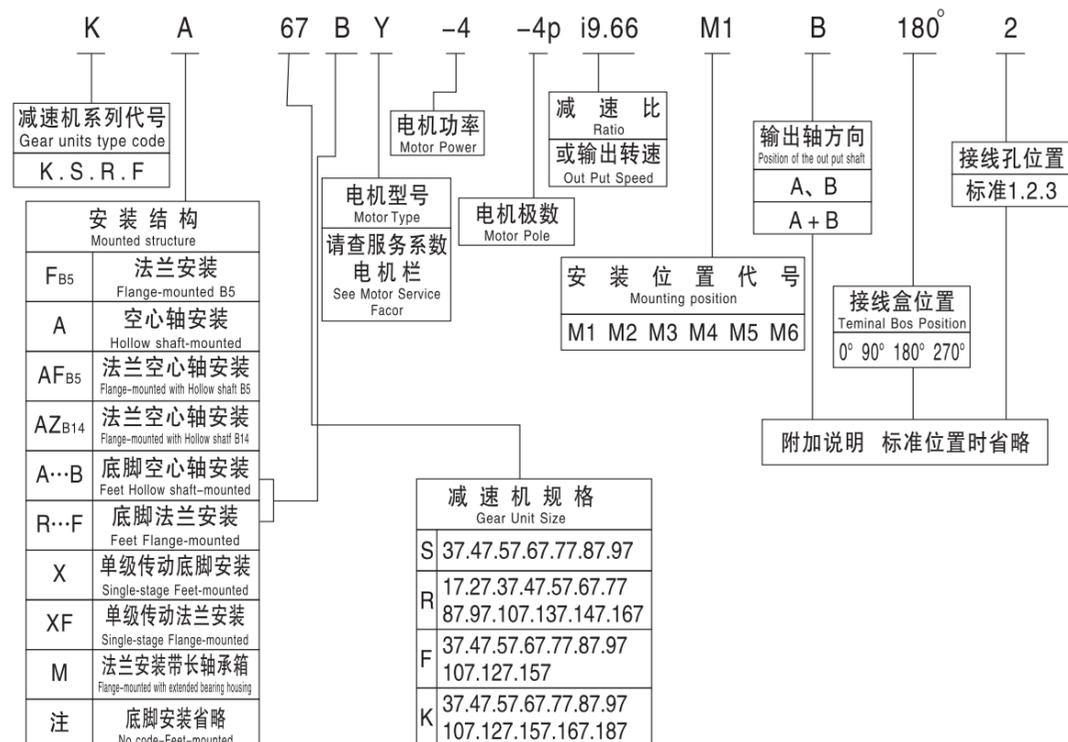
K系列/K SERIES

技术参数/TECHNICAL DATA

参数/系列 Data/Series	R系列斜齿轮减速电机 R series Helical Gear Reducer	F系列平行轴斜齿轮 减速电机/F series F Parallel Axes Helical Gear Reducer	K系列斜齿轮· 伞齿轮减速电机 K series Helical/ Bevel Gear Reducer	S系列斜齿轮·蜗杆 减速电机 S series Helical Gear/Worm Reducer
产品规格 Specifications	17 27 37 47 57 67 77 87 97 107 137 147 167	37 47 57 67 77 87 97 107 127 157	37 47 57 67 77 87 97 107 127 157 167 187	37 47 57 67 77 87 97
传动比/Transmission Ratio	1.3 ~ 289.74	3.77 ~ 276.77	5.36 ~ 197.37	6.8 ~ 288
输入功率 kW /Input Power kW	0.12 ~ 160	0.12 ~ 200	0.12 ~ 200	0.12 ~ 22
输出转矩 N.m/Output Torque N.m	3.5 ~ 23200	3.5 ~ 21700	10 ~ 62800	11 ~ 4530

R.F.K.S

型号与标记: Type Designations:



选型方法

减速机是按载荷平稳, 每天工作时间一定和少量起停次数的情况设计的, 而在实际使用中往往不是处于此种理想状况, 因此必须按照实际情况的载荷类型、运行时间、启动频率来确定工作机系数f1、原动机系数f2、启动系数f3。使用小于或等于选型表中的服务系数fB, 即 f1 x f2 x f3 ≤ fB。或将工作机所需的转矩乘以服务系数(f1 x f2 x f3) 应小于或等于减速机的许用转矩。

即 T_N ≥ T_2 x f_1 x f_2 x f_3

- f1 — 工作机系数 (见表1)
f2 — 原动机系数 (见表2)
f3 — 启动系数 (见表3)
T2 — 工作机所需转矩
TN — 减速机许用转矩 (见第14页)

K系列和T系列螺旋锥齿减速机如果只承受单向载荷则最好注明旋转方向(从输出端方向看), 这样有利于改善螺旋锥齿轮的受力状况。我公司可承接特殊规格产品的订货, 并可为客户提供专用设计服务。本样本中如有改进之处, 不另作通知, 请谅解。

Type selection method

Gear units are designed under the circumstance of steady load, stated operating time per day and a few starting times, but the practical condition will be not as perfect as the designed circumstance, so we must confirm driven machine factor f1, prime mover factor f2, starting factor f3 according to actual load type, operating time, starting frequency. Let it less than or equal to the service factor fB of selection table, viz f1 x f2 x f3 ≤ fB. the needed torque of service machine multiply the service factor (f1 x f2 x f3) should less than or equal to gear units, permissible torque.

Viz T_N ≥ T_2 x f_1 x f_2 x f_3

- f1 — driven machine factor (see table 1)
f2 — prime mover factor (see table 2)
f3 — starting factor (see table 3)
T2 — the needed torque of driven machine
TN — gear units, permissible torque (see table 14)

If the TK series and Z series spiral bevel gear units can only bear single direction load, please indicate the rotating direction (see from output side), which is good for improving the pressing state of the spiral bevel gear.

We accept the orders of products of special specification, and provide our customer with exclusive design service. Design and specifications are subject to change without notice, Please forgive

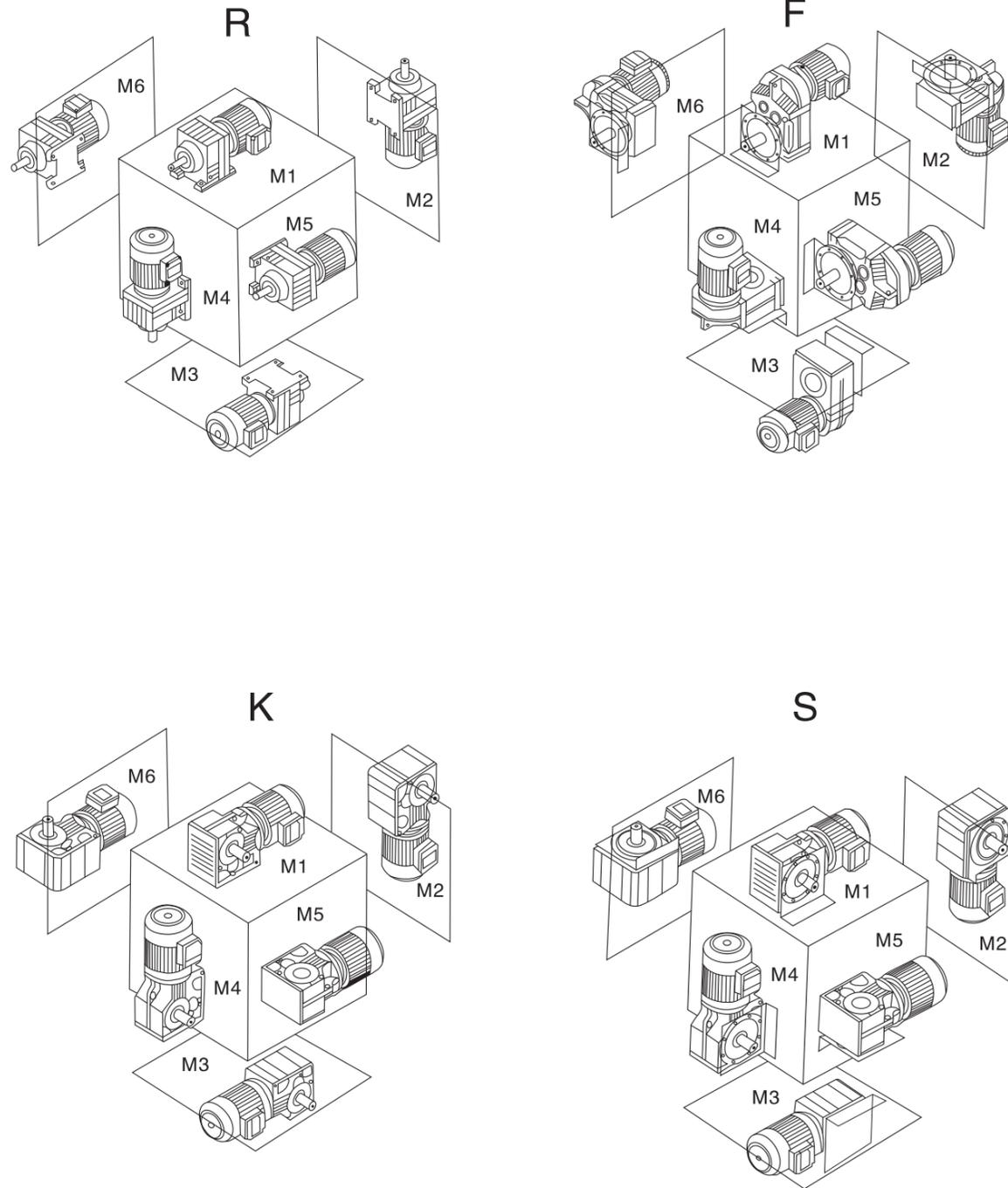
Table 14

输入功率及许用转矩

Table 14: Input power rating and permissible torque. Columns include gear unit size (17-93) and various model codes (R, RF, RX, RXF, F, FA, SLAF, FF, K, KF, KA, KAF, S, SF, SA, SAF). Rows list input power rating (kW) and permissible torque (N·m) for each size and code.

表13 Table 13

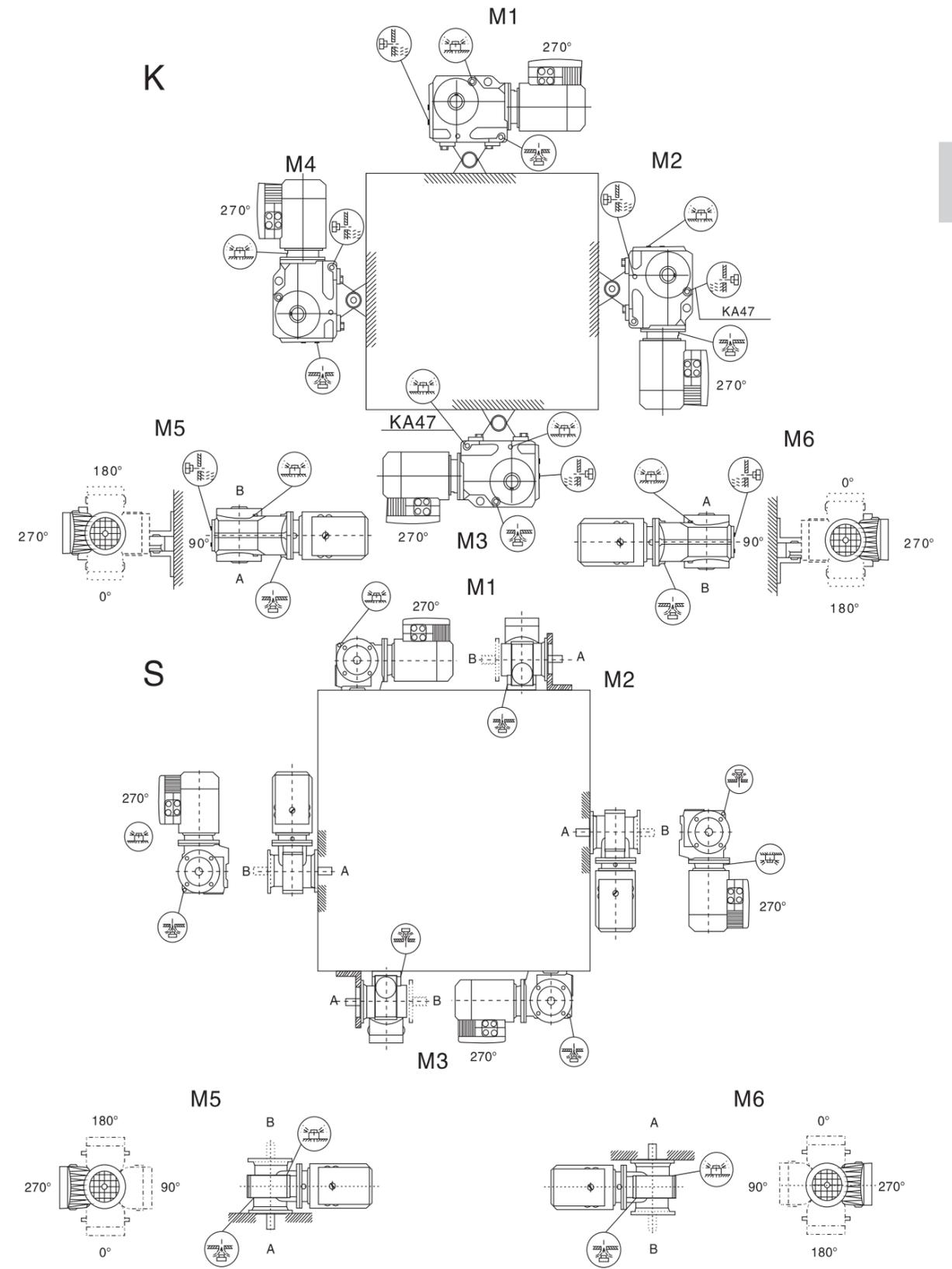
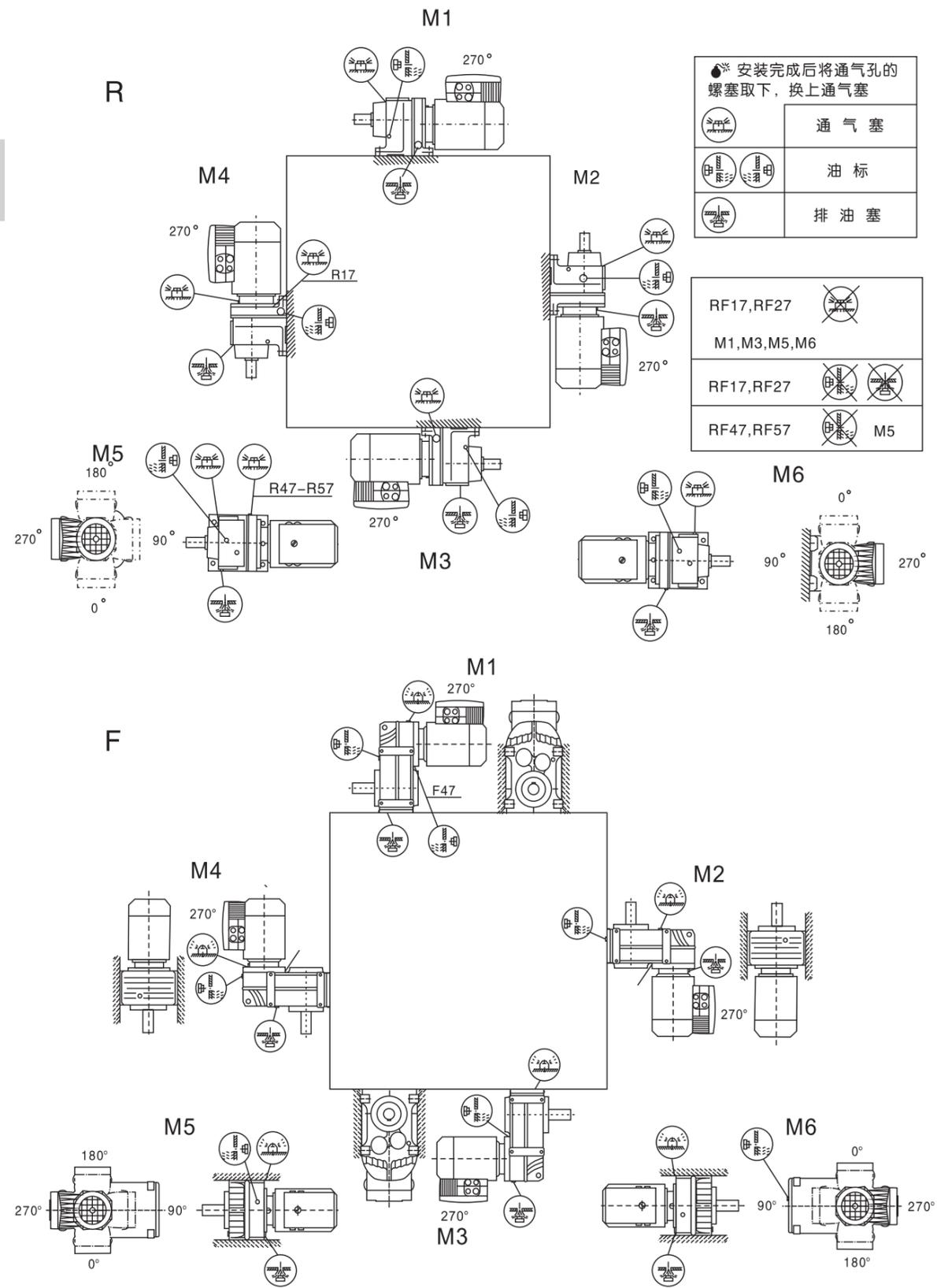
R、F、K、S系列



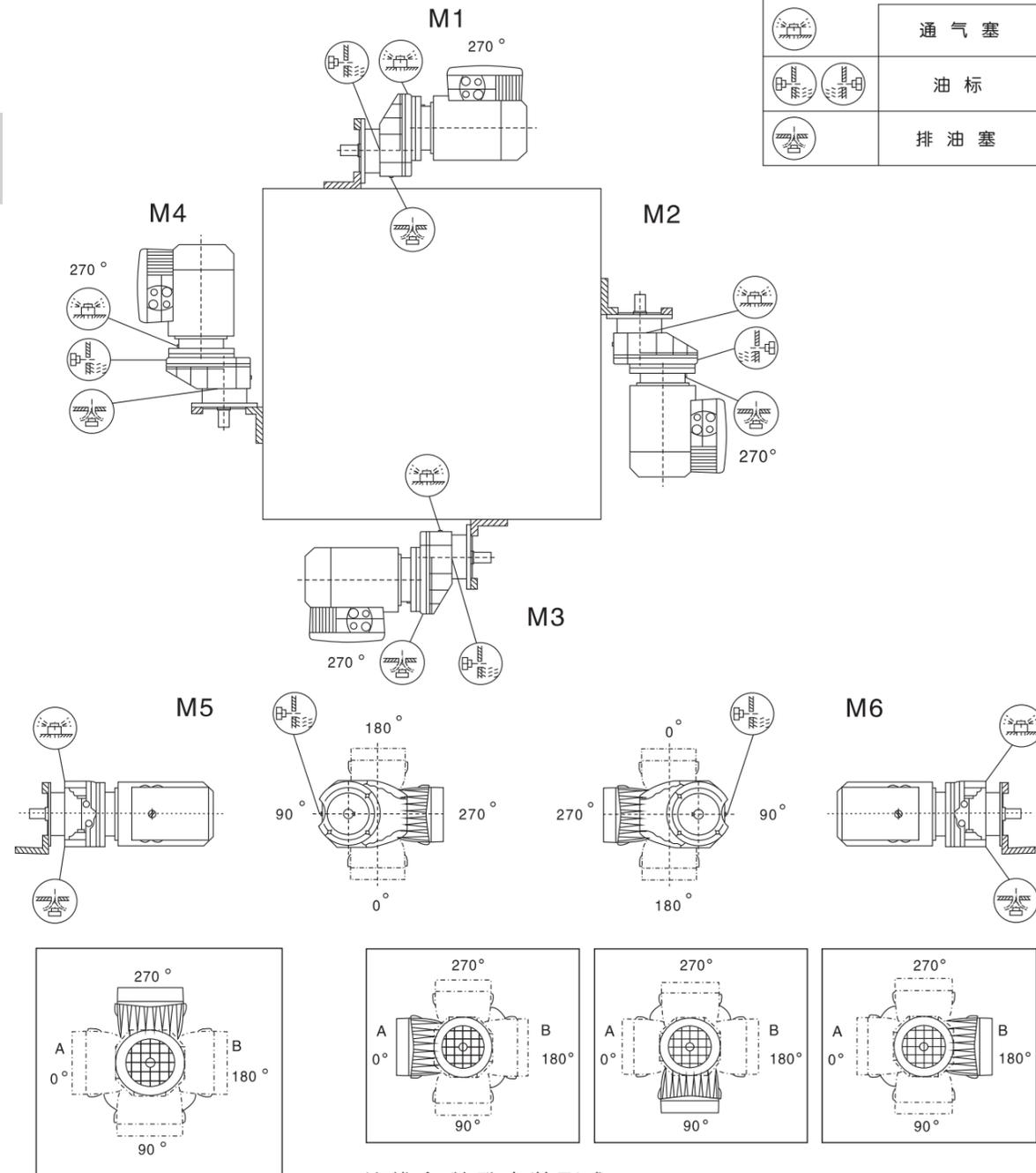
安装位置图例新旧对照

表14 Table14 Old and new installation position position legend constrast

新编号 New NO 旧编号 Old NO	M1	M2	M3	M4	M5	M6
R	B3	V6	B8	V5	B6	B7
R..F	B35	V36	B85	V15	B65	B75
RF	B5	V3	B5II	V1	B51	B511
RX	B3	V6	B8	V5	B6	B7
RXF	B5	V3	B5II	V1	B51	B5111
F FA..B	B6	V6	B6II	V5	B3 B8	B31 B81
FF	B5	V3	B5II	V1	B51	B5111
FA FAF FAZ	H1	H6	H2	H5	H4	H3
K KA..B	B3 B61	B6 B81	B8	B31 B61	V5 V51	V6 V61
KF	B51 B3/B51	B5 B65	B5111 B8/B5111	B511 B6/B51	V1	V11 V6/V11
KA KAF KAZ	H1	H4	H2	H3	H5	H6
S	B3 B61 B811(仅用于S37)	B6 B81	B8 B311	B31 B611	V5 V51	V6 V61 V511(仅用于S37)
SF	B51	B5	B5111	B511	V1	V11
SA SAF SAZ	H1	H4	H2	H3	H5	H6

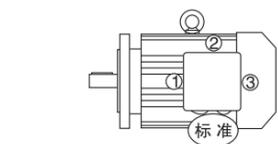


RXF



接线盒 标准安装型式

接线盒 特殊安装型式:



接线孔位置“标准”，“1”，“2”或“3”
(DR63仅用于“标准”和“2”)

R.F.K.S...AD

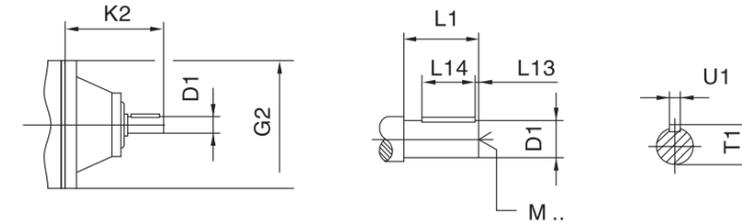
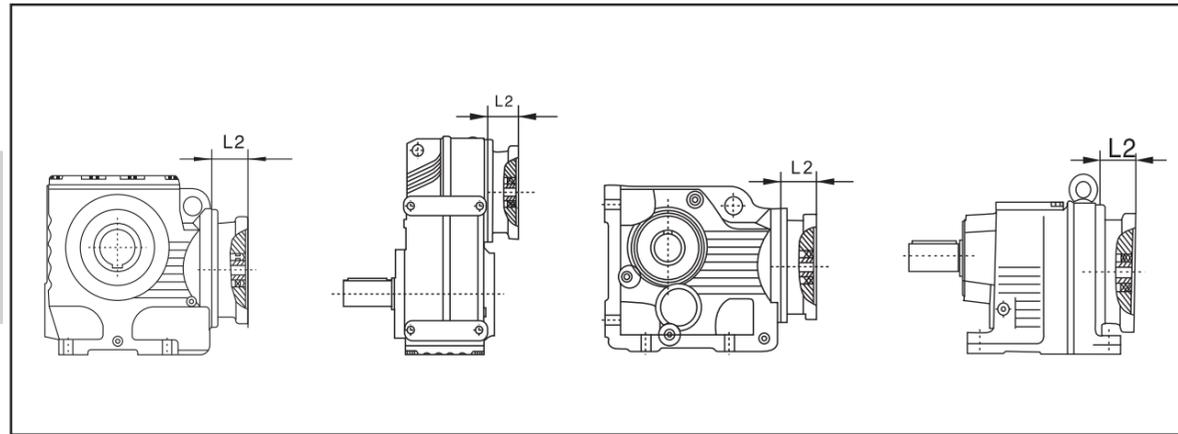


表15 Table15

		G2	K2	D1	L1	L13	L14	T1	U1	M
S37 R27 R37 S47 F37 F47 S57 K37	AD1	120	102	16	40	4	32	18	5	M5
	AD2		130	19	40	4	32	21.5	6	M6
	R47 R57 R67 S67 F57 F67 K47 K57 K67	AD2	160	123	19	40	4	32	21.5	6
AD3		159		24	50	5	40	27	8	M8
S77 R77 F77 K77	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
S87 R87 F87 K87	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
S97 R97 F97 K97	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
R107 F107 K107	AD3	350	145	28	60	5	50	31	8	M10
	AD4		208	38	80	5	70	41	10	M12
	AD5		281	42	110	10	70	45	12	M16
	AD6		321	48	110	10	80	51.5	14	M16
R137	AD4	400	201	38	80	5	70	41	10	M12
	AD5		274	42	110	10	70	45	12	M16
	AD6		314	48	110	10	80	51.5	14	M16
	AD7		308	55	110	10	90	59	16	M20
R147 F127 K127	AD4	450	193	38	80	5	70	41	10	M12
	AD5		266	42	110	10	70	45	12	M16
	AD6		306	48	110	10	80	51.5	14	M16
	AD7		300	55	110	10	90	59	16	M20
	AD8		383	70	140	15	110	74.5	20	M20
R167 F157 K157 K167 K187	AD5	550	258	42	110	15	70	45	12	M16
	AD6		298	48	110	10	80	51.5	14	M16
	AD7		292	55	110	10	90	59	16	M20
	AD8		374	70	140	15	110	74.5	20	M20

联接法兰尺寸



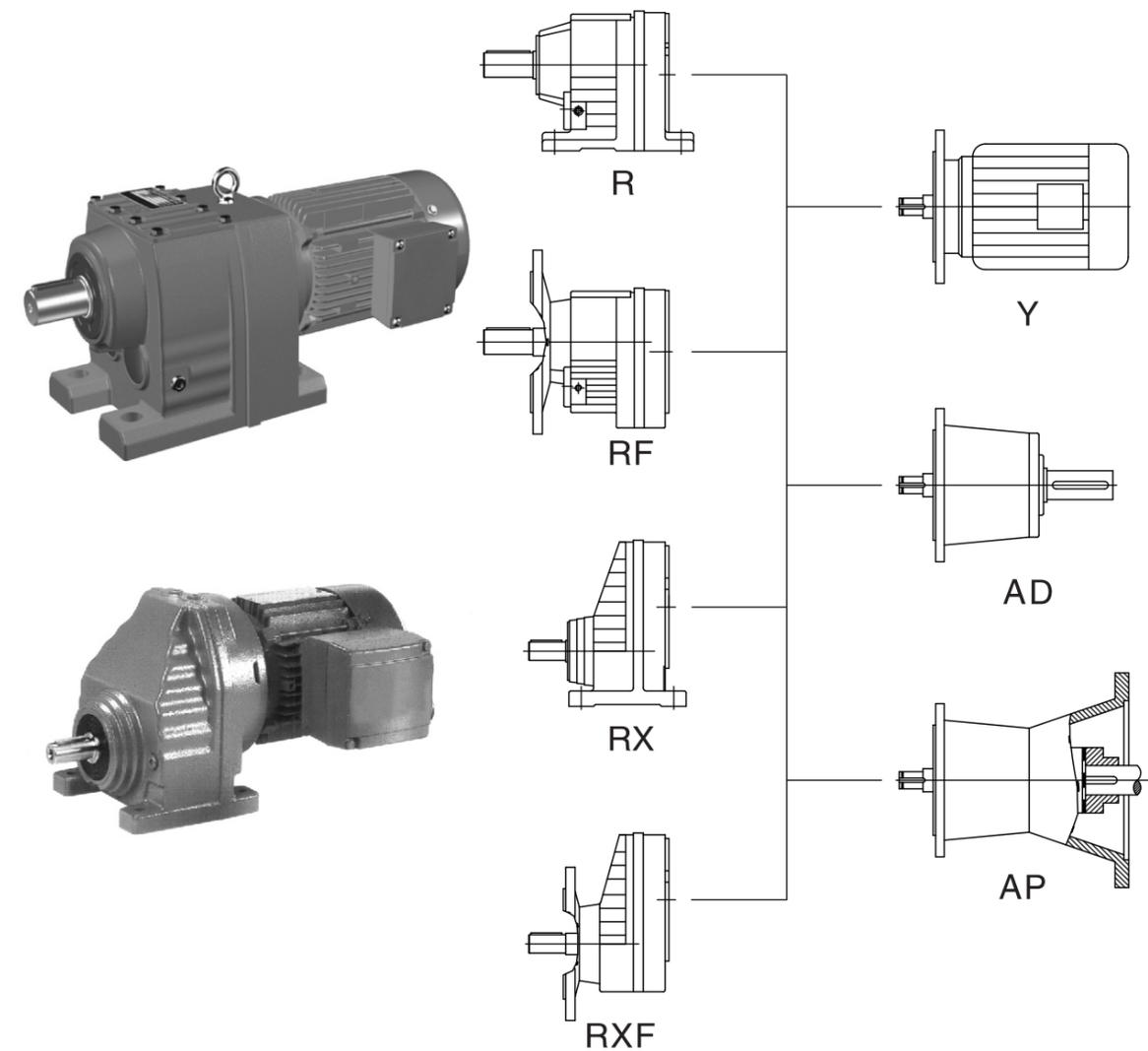
联接法兰“L”长度（电机需方配时需加联接法兰）

减速机 型号	K..37	K..47,K..57 K..67	K..77	K..87	K..97	K..107		K..127	K..157,K..167 K..187
	F..37 F..47	F..57 F..67	F..77	F..87	F..97	F..107		F..127	F..157
电机 机座号	S..37,S..47 S..57	S..67	S..77	S..87	S..97				
	R..17,R..27 R..37,RX..37	R..47,R..57 R..67,RX..57 RX..67	R..77 RX..77	R..87 RX..87	R..97 RX..97	R..107 RX..107	R..137	R..147 RX..127	R..167 RX..157
63	62	62	72						
71	62	62	72						
80	62	73	72	81					
90S	62	73	72	81					
90L	62	73	72	81					
100		88	88	81	88	98	98	101	
112M		88	88	81	88	98	98	101	
132S		88	88	88	96	118	118	114	
132M		88	88	88	96	118	118	114	
160M			114	114	116	118	126	114	130
160L			114	114	116	118	126	114	130
180M				118	116	118	126	130	130
180L				118	116	118	126	130	130
200						136	126	130	130
225S						136	147	147	147
225M						136	147	147	147

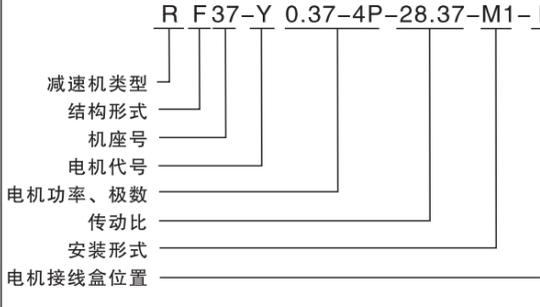
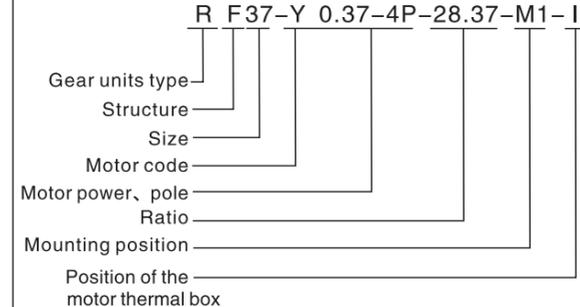
R系列

斜齿轮减速机

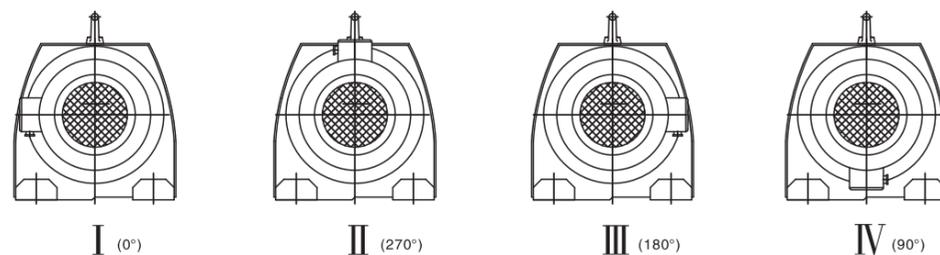
R series Helical gear units



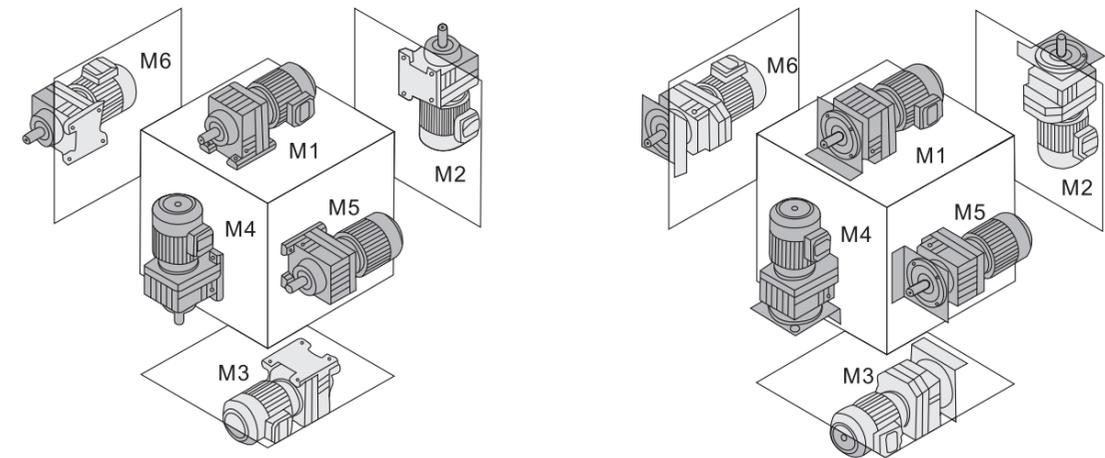
型号与标记:
Type Designations:

 <p>R F37-Y 0.37-4P-28.37-M1-I</p> <p>减速机类型 结构形式 机座号 电机代号 电机功率、极数 传动比 安装形式 电机接线盒位置</p>	 <p>R F37-Y 0.37-4P-28.37-M1-I</p> <p>Gear units type Structure Size Motor code Motor power, pole Ratio Mounting position Position of the motor thermal box</p>
减速机类型: 斜齿轮硬齿面减速机	Gear units type: rigid tooth flank helical gear units
结构形式: 普通轴伸式 (省略) 轴伸法兰式 F	Structure: Foot-mounted solid shaft output (-) Flange-mounted solid shaft output F
机座号: (见选型参数表)	Size: (see selection table)
电机代号: 普通(更新) Y(Y2) 防爆 B 直流 Z 制动 E 多速 D 变频 V 分马力 F 增安 A 电磁调速 C 冶金起重 R 变频制动 VE 辊道 G 法兰输入 AP 轴输入 AD	Motor code: Ordinary(renew) Y(Y2) Flame-proof B Direct current Z Brake E Multi-speed D Variable frequency V Power-divided F Ampere-increased A Electromagnetism speed modulation C Hoisting in metallurgy R Variable frequency and brake VE Roller tables G Flange input AP Shaft input AD
电机功率、极数: (见选型参数表)	Motor power, pole: (see selection table)
传动比: (见选型参数表)	Ratio: (see selection table)
安装形式: M1、M2、M3、M4、M5、M6	Mounting position: M1、M2、M3、M4、M5、M6
电机接线盒位置: I、II、III、IV	Position of the motor thermal box: I、II、III、IV、

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



安装形式:
Mounting position:



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

机型号 Gear unit type	17	27	37	47	57	67	77	87	97	107	137	147	167
结构形式 Structure	R						RF						
输入功率 Input power rating (kW)	0.18~0.75	0.18~3	0.18~3	0.18~5.5	0.18~7.5	0.18~7.5	0.18~11	0.55~18.5	0.55~30	2.2~45	5.5~55	11~90	11~160
传动比 Ratio	3.83~81.64	3.37~135.09	3.41~134.82	3.83~176.88	4.39~186.89	4.29~199.81	5.31~195.24	5.3~246.54	4.5~289.74	4.92~251.15	5.15~222.60	5.00~163.31	10.24~229.71
许用转矩 Permissible torque (N.m)	85	130	200	300	450	600	820	1550	3000	4300	8000	13000	18000

机型号 Gear unit type	37	57	67	77	87	97	107	127	157
结构形式 Structure	RX				RXF				
输入功率(kW) Input power rating	0.18~1.1	0.18~5.5	0.18~7.5	1.1~11	3~22	5.5~30	7.5~4.5	7.5~90	11~132
传动比 Ratio	1.62~4.43	1.3~5.5	1.4~6.07	1.42~8.00	1.39~8.65	1.42~8.23	1.44~6.63	1.51~6.2	1.57~6.2
许用转矩(N.m) Permissible torque	20	70	135	215	400	600	830	1110	1680

减速机重量
Gear unit weight

机型号 Gear unit type	R17	R27	R37	R47	R57	R67	R77	R87	R97	R107	R137	R147	R167
重量 (kg) Weight	4	5.5	8.5	10	18	25	36	63	101	153	220	400	700
机型号 Gear unit type	RX37	RX57	RX67	RX77	RX87	RX97	RX107	RX127	RX157				
重量 (kg) Weight	5	8	14	23	39	70	100	150	250				

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

R Series Selection parameter table

Table with 6 columns: Output speed, Output torque, Ratio, Service factor, Type, Pole. Contains data for 0.12kW power level across various motor models.

R系列选型参数表

Table with 6 columns: 输出转速, 输出扭矩, 传动比, 使用系数, 机型号, 极数. Chinese version of the R Series Selection parameter table.

R系列选型参数表

Table with 6 columns: 输出转速, 输出扭矩, 传动比, 使用系数, 机型号, 极数. Chinese version of the R Series Selection parameter table.

R Series Selection parameter table

Table with 6 columns: Output speed, Output torque, Ratio, Service factor, Type, Pole. Contains data for 0.12kW power level across various motor models.

R Series Selection parameter table

输出扭矩 Output torque N.m	输出转速 Output speed r/min	传动比 Ratio i	机型号 Type	功率 Power kW/4p	输出扭矩 Output torque N.m	输出转速 Output speed r/min	传动比 Ratio i	机型号 Type	功率 Power kW/4p
600					1550				
1.8 2.3					0.67 1961				
730 571					R87R57 RF87R57				
0.18 0.18					0.18 0.18				
2.7					0.34 4020				
486					R87R57 RF87R57				
0.25 0.25					0.12 0.12				
0.84 0.96 1.1 1.2					0.43 0.50 0.53				
1652 1432 1259 1106					3182 2770 2595				
R67R37 RF67R37					R87R57 RF87R57				
0.12 0.12					0.18 0.18				
1.6 1.8 2.0 2.3					0.62 0.68 0.76 0.89				
836 750 646 574					2129 1930 1733 1489				
R67R37 RF67R37					R87R57 RF87R57				
0.18 0.18					0.18 0.18				
2.6 3.0 3.4					0.93 1395				
495 438 388					R87R57 RF87R57				
0.25 0.25					0.25 0.25				
4.0 4.7					1.1 1.1 1.2				
344 294					1232 1145 1037				
R67R37 RF67R37					R87R57 RF87R57				
0.37 0.37					0.37 0.37				
820					3000				
0.08 0.09 0.10 0.11 0.13 0.14 0.16 0.18 0.20 0.24 0.27 0.31 0.35 0.40 0.45 0.52					1.7 1.8				
16370 15015 13885 12783 11021 9788 8714 7617 6770 5838 5184 4470 3999 3488 3053 2671					802 754				
R77R37 RF77R37					R87R57 RF87R57				
0.12 0.12					0.37 0.37				
0.44 0.48 0.56 0.65 0.70 0.80 0.85 0.97 1.1					1.0 1.4				
3151 2890 2460 2121 1977 1728 1620 1430 1303					1303 1008				
R77R37 RF77R37					R87R57 RF87R57				
0.12 0.12					0.55 0.55				
1.2 1.3 1.4 1.5 1.7					1.6 2.0 2.3				
1124 1047 915 858 757					885 685 599				
R77R37 RF77R37					R87R57 RF87R57				
0.18 0.18					0.75 0.75				
1.9 2.3					3.5 3.9				
671 571					398 352				
R77R37 RF77R37					R87R57 RF87R57				
0.25 0.25					1.1 1.1				
2.3					4.6 5.2				
560					305 268				
R77R37 RF77R37					R87R57 RF87R57				
0.25 0.25					0.55 0.55				
2.8 3.2 3.7					2.5 2.9				
488 436 373					538 472				
R77R37 RF77R37					R87R57 RF87R57				
0.37 0.37					0.75 0.75				
4.2 4.7 5.2					4.7 5.5				
327 289 260					300 256				
R77R37 RF77R37					R87R57 RF87R57				
0.37 0.37					1.1 1.1				
1550					4300				
0.08 0.09 0.10 0.11 0.13 0.15 0.17 0.20 0.22 0.25 0.29 0.33 0.37 0.43 0.48					0.06 0.07 0.08 0.09 0.10 0.12 0.14 0.16 0.18				
17452 15310 13813 12025 10549 9244 8109 7038 6174 5449 4831 4206 3744 3233 2873					21769 19332 17230 14999 13320 11156 10030 8706 7692 6708 5931 5161				
R87R57 RF87R57					R97R57 RF97R57				
0.12 0.12					0.12 0.12				

R系列选型参数表

R系列选型参数表

R Series Selection parameter table

输出扭矩 Output torque N.m	输出转速 Output speed r/min	传动比 Ratio i	机型号 Type	功率 Power kW/4p	输出扭矩 Output torque N.m	输出转速 Output speed r/min	传动比 Ratio i	机型号 Type	功率 Power kW/4p
3000					4300				
0.33 0.38					0.34 3918				
4004 3481					R107R77 RF107R77				
0.18 0.18					0.18 0.18				
0.29					0.39 3343				
4678					R107R77 RF107R77				
0.12 0.12					0.25 0.25				
0.31 0.36 0.44					0.52 0.61 0.67				
4309 3702 3019					2653 2280 2067				
R97R57 RF97R57					R107R77 RF107R77				
0.18 0.18					0.37 0.37				
0.49 0.58 0.64					0.80 0.88 0.97				
2668 2245 2016					1693 1550 1407				
R97R57 RF97R57					R107R77 RF107R77				
0.25 0.25					0.55 0.55				
0.80 0.85 0.96					1.1 1.3				
1733 1623 1434					1209 1055				
R97R57 RF97R57					R107R77 RF107R77				
0.37 0.37					0.75 0.75				
1.1 1.2 1.5 1.6					1.5 1.7 1.9				
1207 1084 934 878					919 815 717				
R97R57 RF97R57					R107R77 RF107R77				
0.55 0.55					1.1 1.1				
1.8					2.2 2.7				
755					626 528				
R97R57 RF97R57					R107R77 RF107R77				
0.75 0.75					1.5 1.5				
0.76 0.87 0.99					0.69 1987				
1823 1583 1396					R107R77 RF107R77				
R97R57 RF97R57					0.37 0.37				
0.37 0.37					0.74 0.85 0.97				
1.1 1.3 1.4					1827 1599 1400				
1228 1069 938					R107R77 RF107R77				
R97R57 RF97R57					0.55 0.55				
0.55 0.55					1.1 1.1				
1.7 1.9					2.3 2.6 2.9				
824 737					614 544 492				
R97R57 RF97R57					R107R77 RF107R77				
0.75 0.75					1.5 1.5				
2.2 2.5 2.9					3.4 3.8 4.4				
632 560 484					417 369 323				
R97R57 RF97R57					R107R77 RF107R77				
1.1 1.1					2.2 2.2				
3.3 3.7 4.2					4.9 5.5				
431 379 336					285 253				
R97R57 RF97R57					R107R77 RF107R77				
1.5 1.5					3.0 3.0				
4.8 5.7 6.0					6.6 7.6				
296 249 234					214 187				
R97R57 RF97R57					R107R77 RF107R77				
2.2 2.2					4.0 4.0				
2.2 2.6					3.0 469				
625 549					R107R77 RF107R77				
R97R57 RF97R57					1.5 1.5				
5.2 6.2					3.3 3.7 4.4				
270 227					426 377 325				
R97R57 RF97R57					R107R77 RF107R77				
2.2 2.2					2.2 2.2				
4300					8000				
0.07 0.08 0.09 0.11 0.12 0.14 0.16 0.18					0.06 0.07 0.08 0.09 0.11				
20018 17080 14936 12829 11256 9547 8618 7583					22203 18945 16566 14777 12921				
R107R77 RF107R77					R137R77 RF137R77				
0.12 0.12					0.12 0.12				
0.20 0.22 0.26 0.30					0.11 11712 10573 8784				
6743 5914 5168 4435					R137R77 RF137R77				
R107R77 RF107R77					0.18 0.18				
0.18 0.18					0.18 0.18				
0.33 0.43					0.11 0.12 0.15				
3896 3039					R137R77 RF137R77				
R107R77 RF107R77					0.18 0.18				

R Series Selection parameter table

输出扭矩 Output torque N.m	输出转速 Output speed r/min	传动比 Ratio i	机型号 Type	功率 Power kW/4p	输出扭矩 Output torque N.m	输出转速 Output speed r/min	传动比 Ratio i	机型号 Type	功率 Power kW/4p
8000					13000				
	0.17 0.20 0.22	7479 6559 5834	R137R77 RF137R77	0.25 0.25		0.07 0.08 0.09	18210 15923 14075	R147R77 RF147R77	0.18 0.18
	0.27 0.31 0.35	5116 4464 3928	R137R77 RF137R77	0.37 0.37		0.11 0.12 0.13	12344 11143 9743	R147R77 RF147R77	0.25 0.25
	0.39 0.45	3454 2993	R137R77 RF137R77	0.55 0.55		0.16 0.19 0.21	8443 7307 6447	R147R77 RF147R77	0.37 0.37
	0.29 0.34	4709 4018	R137R77 RF137R77	0.37 0.37		0.24 0.28 0.31	5568 4926 4325	R147R77 RF147R77	0.55 0.55
	0.39 0.41 0.46 0.55	3514 3338 2929 2484	R137R77 RF137R77	0.55 0.55		0.37 0.42 0.48	3754 3302 2898	R147R77 RF147R77	0.75 0.75
	0.62 0.74	2242 1863	R137R77 RF137R77	0.75 0.75		0.55 0.63 0.72	2555 2211 1951	R147R77 RF147R77	1.1 1.1
	0.88 1.0 1.1	1586 1391 1256	R137R77 RF137R77	1.1 1.1		0.83 0.92	1705 1536	R147R77 RF147R77	1.5 1.5
	1.3 1.4 1.6	1105 1143 888	R137R77 RF137R77	1.5 1.5		1.1 1.2 1.4	1329 1166 1029	R147R77 RF147R77	2.2 2.2
	2.0 2.3	699 609	R137R77 RF137R77	2.2 2.2		1.6 1.8	889 784	R147R77 RF147R77	3.0 3.0
	0.51 0.56	2658 2412	R137R77 RF137R77	0.55 0.55		2.0 2.3 2.5	695 619 558	R147R77 RF147R77	4.0 4.0
	0.67 0.75	2073 1839	R137R77 RF137R77	0.75 0.75		2.9	489	R147R77 RF147R77	5.5 5.5
	0.88 1.0 1.1	1598 1397 1226	R137R77 RF137R77	1.1 1.1		2.7	533	R147R87 RF147R87	4.0 4.0
	1.3 1.5	1090 951	R137R77 RF137R77	1.5 1.5		3.1 3.4	462 426	R147R87 RF147R87	5.5 5.5
	1.7 1.9 2.2	831 730 629	R137R77 RF137R77	2.2 2.2		3.9 4.4	368 326	R147R87 RF147R87	7.5 7.5
	2.5 2.9	560 490	R137R77 RF137R77	3.0 3.0		5.1 5.8	280 247	R147R87 RF147R87	7.5 7.5
	3.3 3.7	428 381	R137R77 RF137R77	4.0 4.0		6.7	214	R147R87 RF147R87	11 11
	4.4 4.9 5.6	323 291 255	R137R77 RF137R77	5.5 5.5					
	2.5 2.7 3.1	564 517 453	R137R77 RF137R77	3.0 3.0					
	3.8 4.2	376 339	R137R77 RF137R77	4.0 4.0					
	4.8	297	R137R77 RF137R77	5.5 5.5					
13000									
	0.06 0.06	23401 21342	R147R77 RF147R77	0.12 0.12					

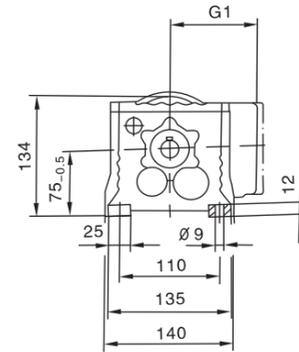
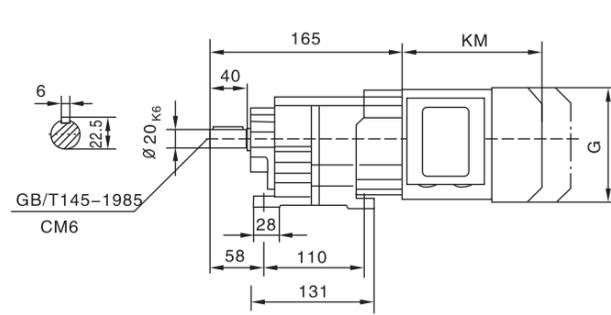
R系列选型参数表

R系列选型参数表

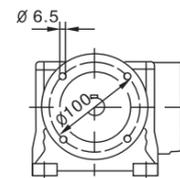
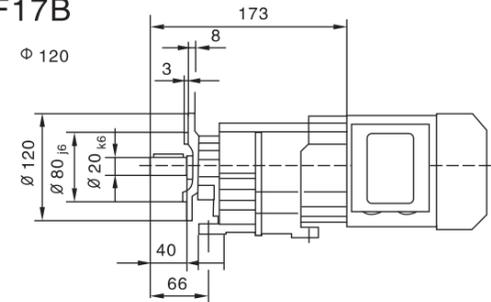
R Series Selection parameter table

输出扭矩 Output torque N.m	输出转速 Output speed r/min	传动比 Ratio i	机型号 Type	功率 Power kW/4p	输出扭矩 Output torque N.m	输出转速 Output speed r/min	传动比 Ratio i	机型号 Type	功率 Power kW/4p
18000									
	0.05 0.06 0.07 0.08 0.09 0.10 0.12 0.13 0.14	27001 22482 20002 17361 15446 14051 11812 10509 9631	R167R97 RF167R97	0.55 0.55		0.18 0.20	7749 6894	R167R97 RF167R97	1.1 1.1
	0.22	6077	R167R97 RF167R97	0.55 0.55		0.26 0.30 0.33	5407 4650 4129	R167R97 RF167R97	0.75 0.75
	0.38	3692	R167R97 RF167R97	1.1 1.1		0.53 0.60 0.68	2657 2333 2085	R167R97 RF167R97	1.5 1.5
	0.75 0.84 0.98	1877 1670 1438	R167R97 RF167R97	2.2 2.2		1.1 1.2 1.4	1279 1123 999	R167R97 RF167R97	3.0 3.0
	1.7 1.9	861 760	R167R97 RF167R97	4.0 4.0		2.2 2.5	656 579	R167R97 RF167R97	5.5 5.5
	2.8 3.3	503 432	R167R97 RF167R97	7.5 7.5		3.8 4.3	376 335	R167R97 RF167R97	7.5 7.5
	4.8 5.2	303 279	R167R97 RF167R97	11 11		4.9 5.3	295 270	R167R107 RF167R107	11 11
	6.4 7.3	229 200	R167R107 RF167R107	15 15		5.0	291	R167R107 RF167R107	11 11
	5.5 6.4 7.4	264 227 198	R167R107 RF167R107	15 15					

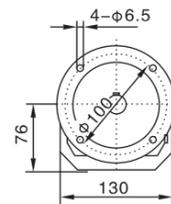
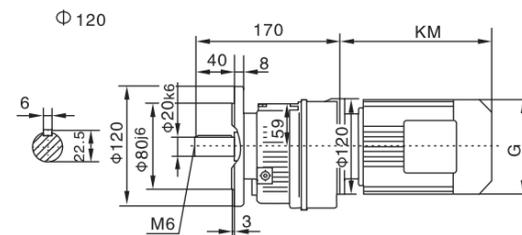
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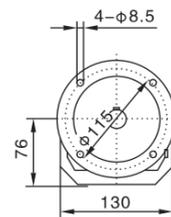
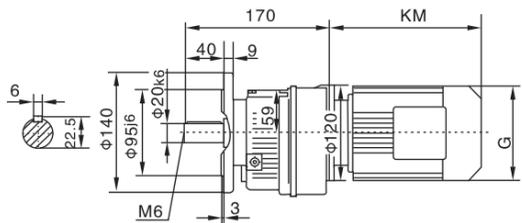
RF17B



RF17

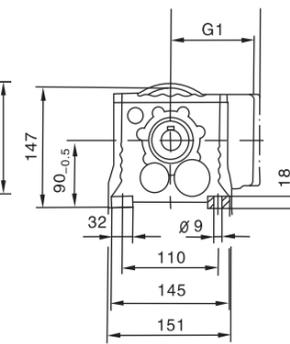
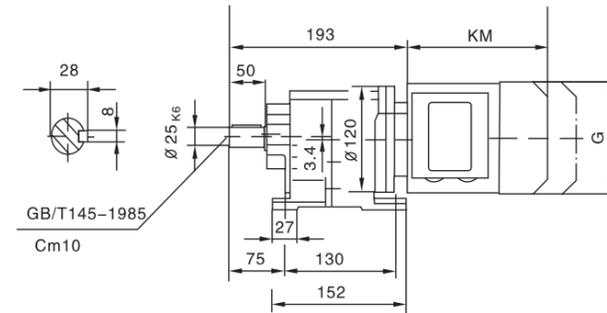


Φ140

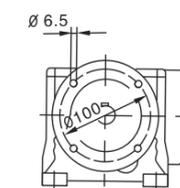
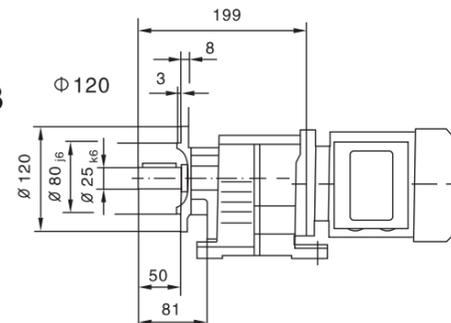


电机机座号 Motor size	DR63..	DT71D	DT80..							
G (AC)	130	145	175							
G1 (AD)	70	80	145							
L2	62	62	62							
KM (LB)	262	280	285							

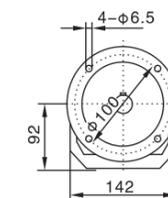
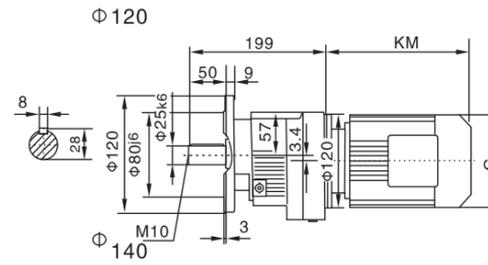
R27



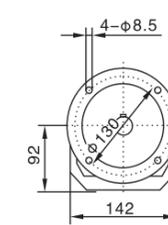
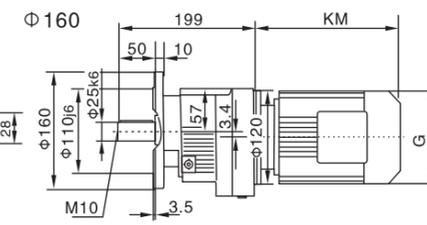
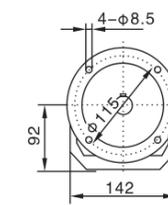
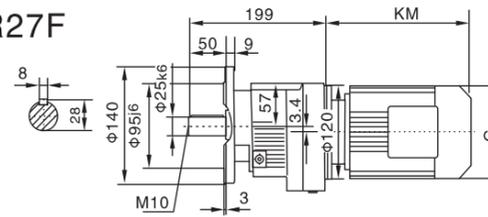
RF27B



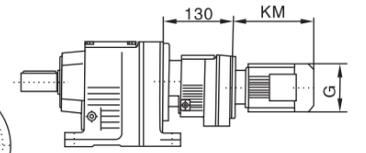
RF27



R27F



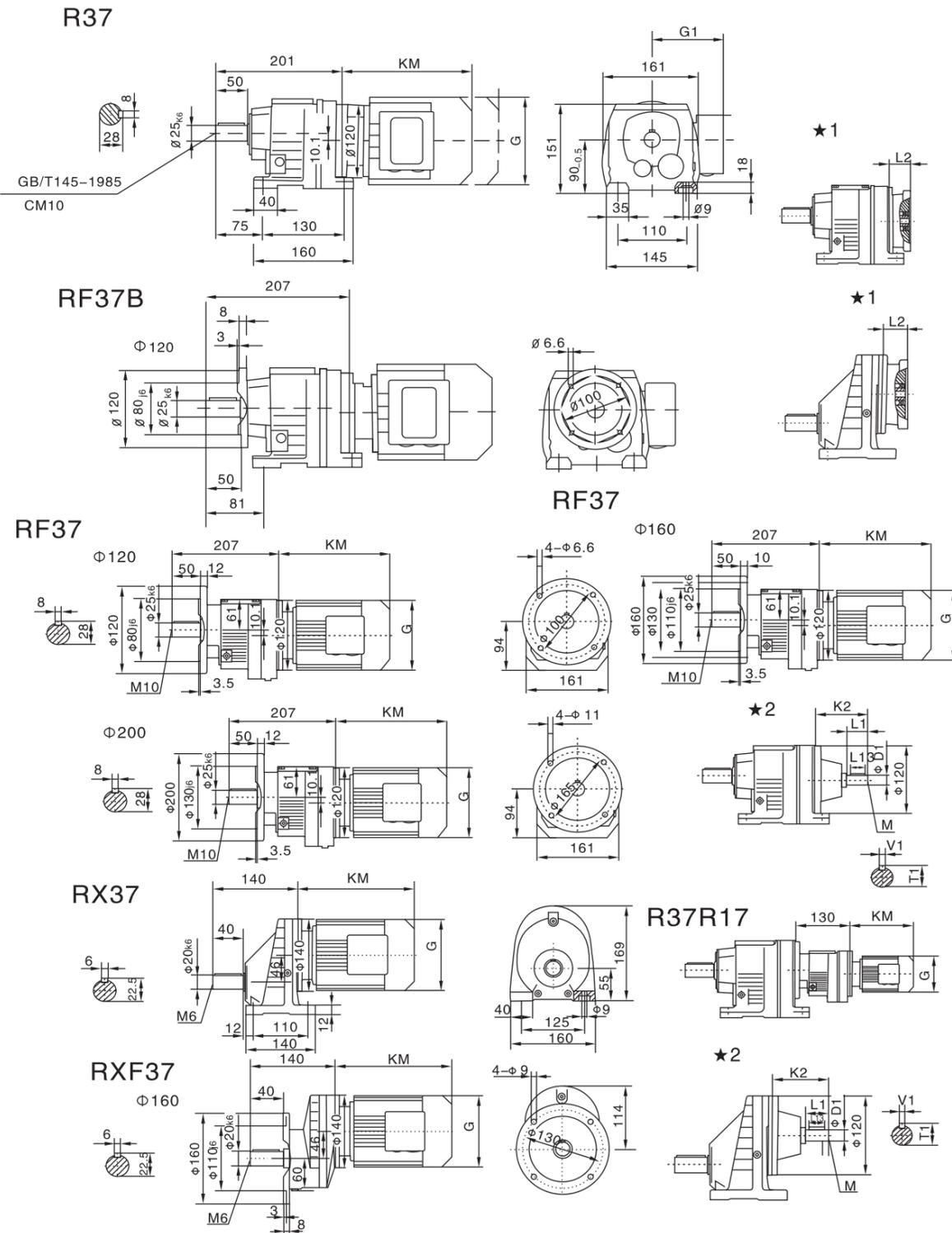
R27R 17



电机机座号 Motor size	DR63..	DT71D	DT80..	DT90S	DT90L	DV100L	查表11 See table 11				
G (AC)	130	145	175	195	195	215	i=25-136	查AD1			
G1 (AD)	70	80	145	155	155	180	i=3-25	查AD2			
L2	62	62	62	62	62	63		See AD1			
KM (LB)	262	280	285	297	322	351		See AD2			

★1: 电机需方配时或配特殊电机时需加联接法兰“L”
★2: 查15-16页

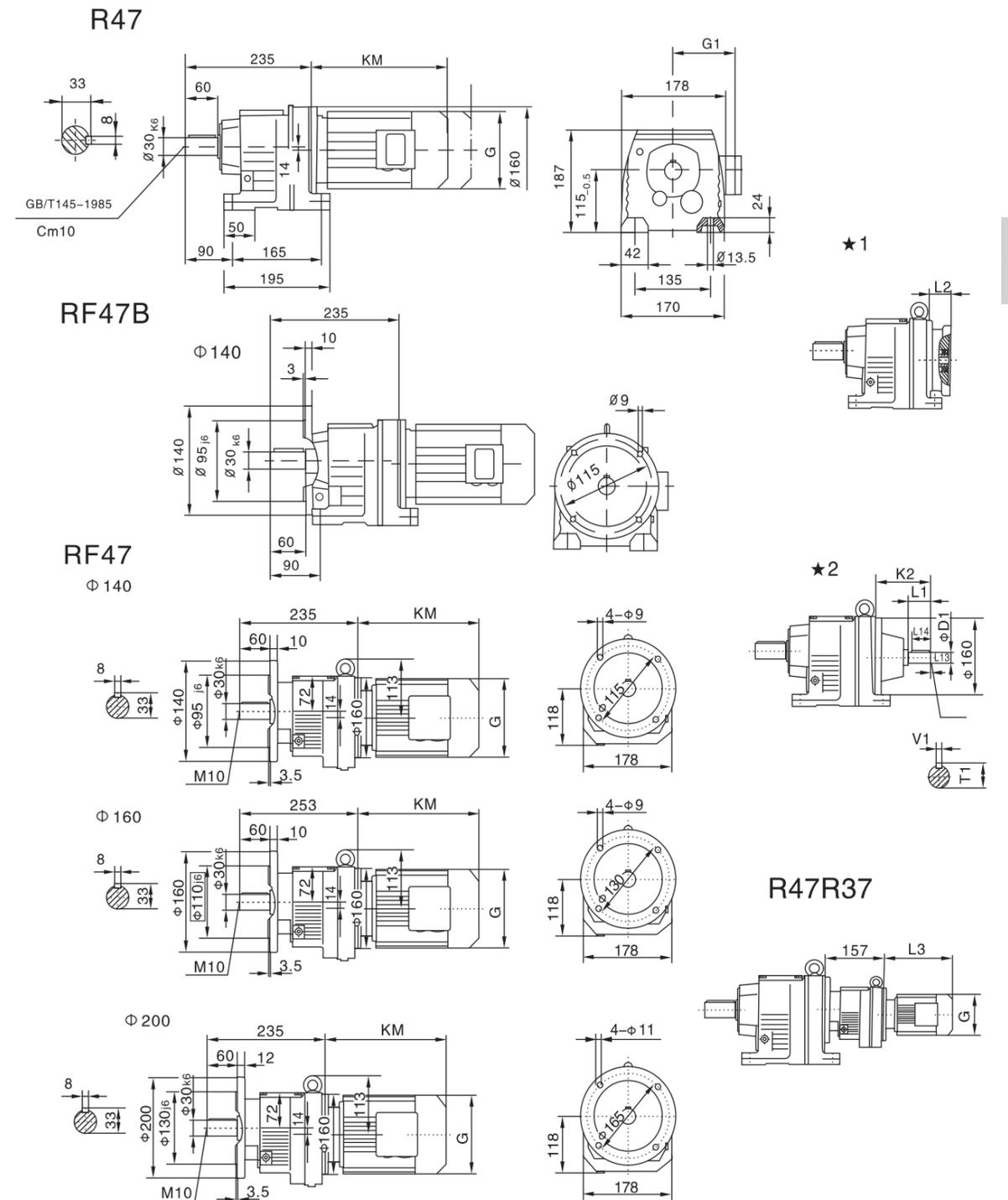
★1: When equipping the user smoror the specialone, the flange is required to be connected.
★2: Search Page 15-16



电机机座号 Motor size	DR63..	DT71D	DT80..	DT90S	DT90L	DV100L	查表11 Seetable11 i=55-135				
G (AC)	130	145	175	195	195	215	i=55-135	查AD1			
G1 (AD)	70	80	145	155	155	180	i=3.4-55	查AD2			
L2	62	62	62	62	62	62		See AD1			
KM (LB)	262	280	285	297	322	351		SeeAD2			

★1: 电机需方配时或配特殊电机时需加联接法兰 "L"
★2: 查15-16页

★1: When equipping the user smotor the specialone, the flange is required to connected "L".
★2: Search Page 15-16

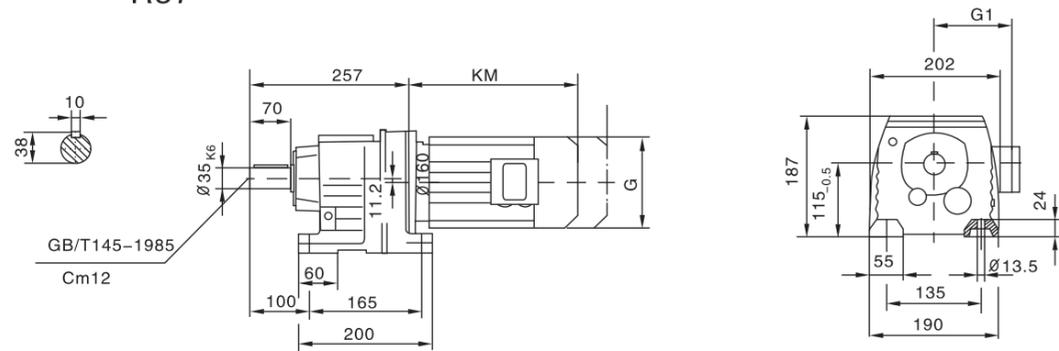


电机机座号 Motor size	DR63..	DT71D	DT80..	DT90S	DT90L	DV100L	DV112M	DV132S	DV132M		
G (AC)	130	145	175	195	195	215	240	275	275		
G1 (AD)	70	80	145	155	155	180	190	210	210		
L2	62	62	73	73	73	88	88	88	88		
KM (LB)	262	280	285	297	322	351	371	426	466		

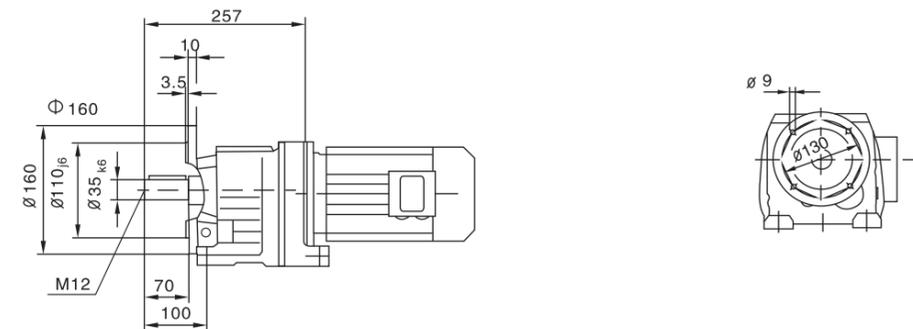
查表11 Seetable11 查表11: i=4.3-177查AD2 i=3.5-4.3查AD3
★1: 电机需方配时或配特殊电机时需加联接法兰 "L"
★2: 查15-16页

★1: When equipping the user smotor the specialone, the flange is required to connected "L".
★2: Search Page 15-16

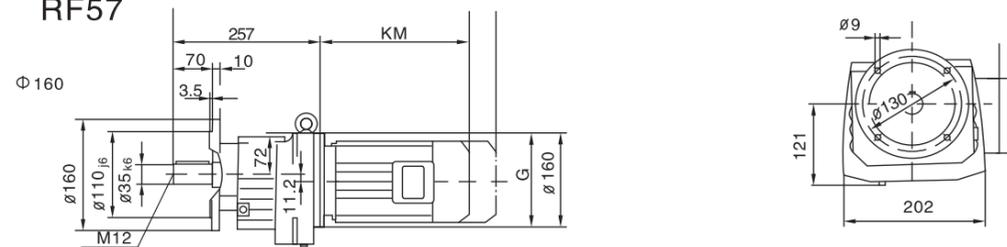
R57



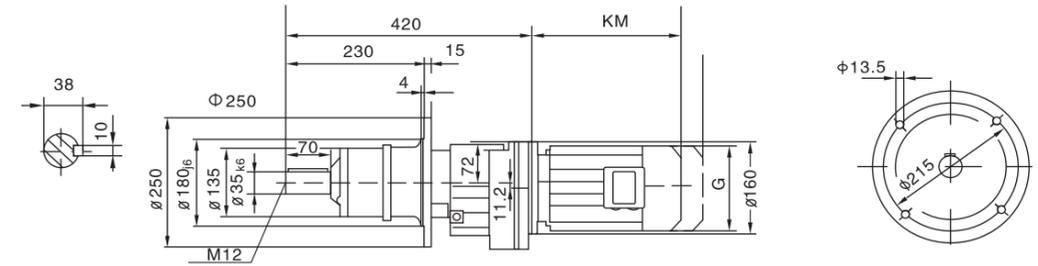
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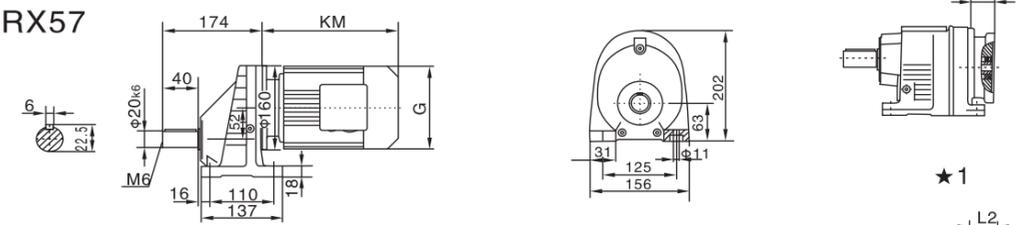
RF57



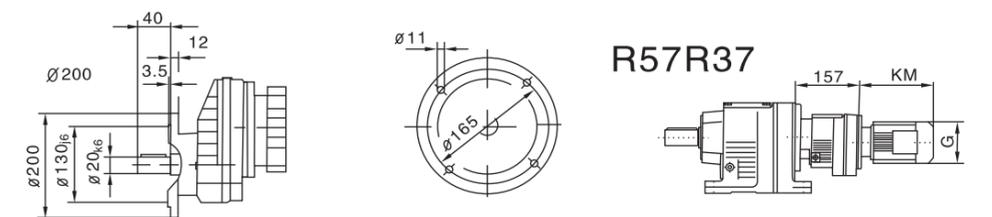
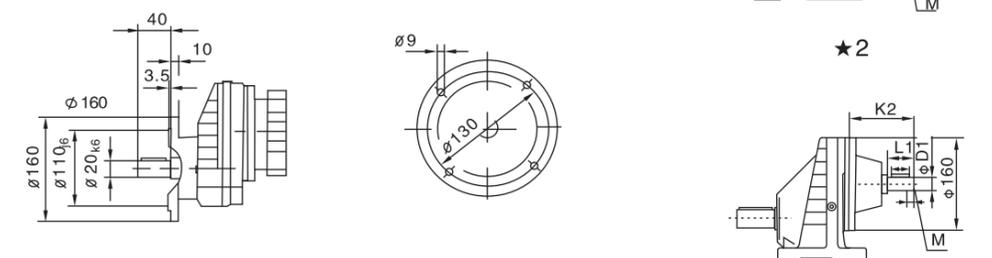
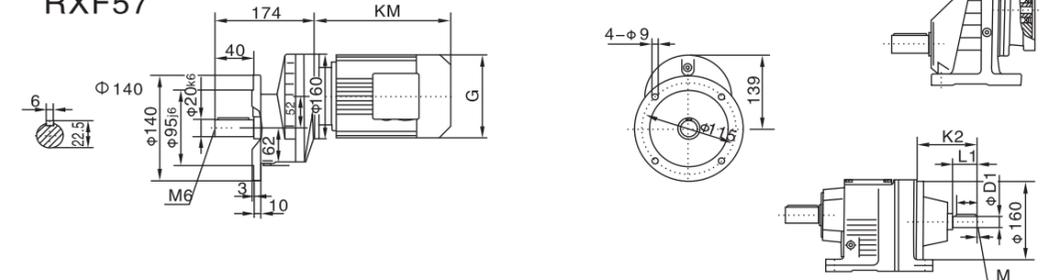
RM57



RX57



RXF57



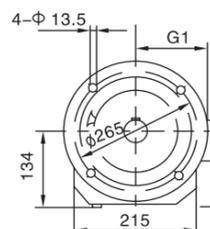
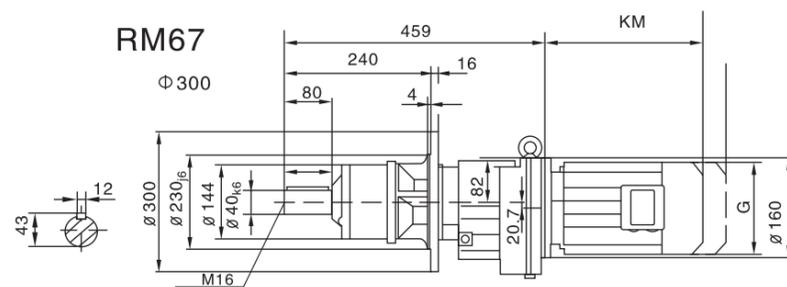
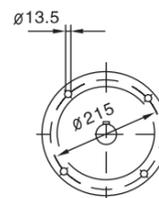
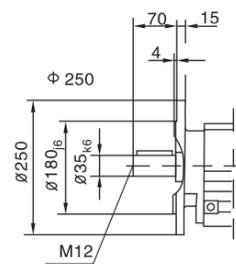
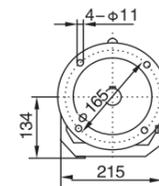
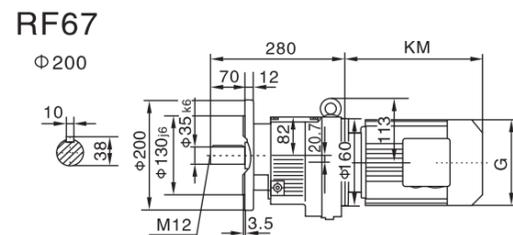
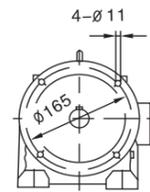
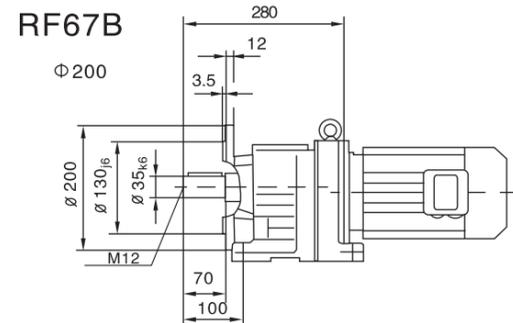
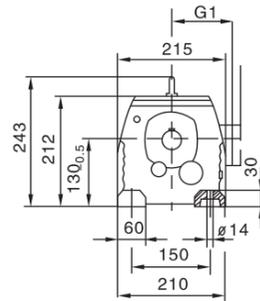
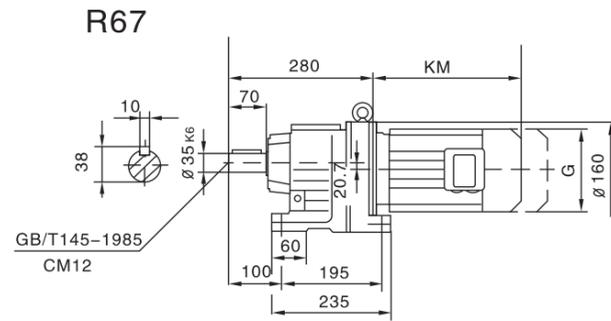
R57R37

电机机座号 Motor size	DR63..	DT71D	DT80..	DT90S	DT90L	DV100L	DV112M	DV132S	DV132M		
G (AC)	130	145	175	195	195	215	240	275	275		
G1 (AD)	70	80	145	155	155	180	190	210	210		
L2	62	62	73	73	73	88	88	88	88		
KM (LB)	262	280	285	297	322	351	371	426	466		

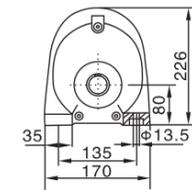
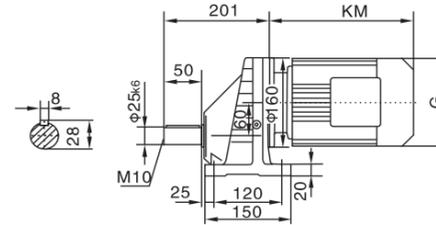
查表11 Seetable11 查表11: R: i=14.5-187查AD2 i=3-14.5查AD3 RX:i=2.5-5.5查AD2 i=1.3-2.5查AD3

★1: 电机需方配时或配特殊电机时需加联接法兰“L”
★2: 查15-16页

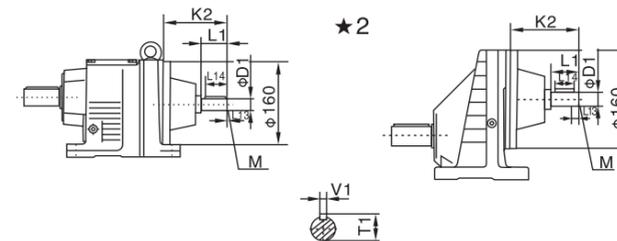
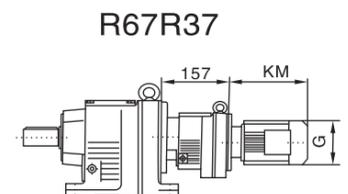
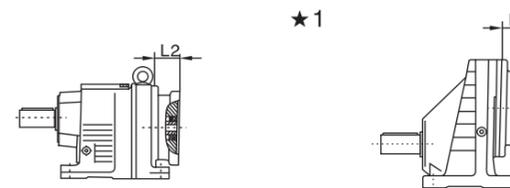
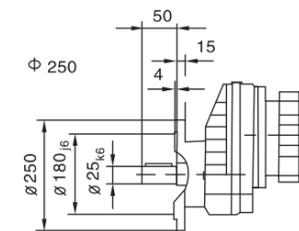
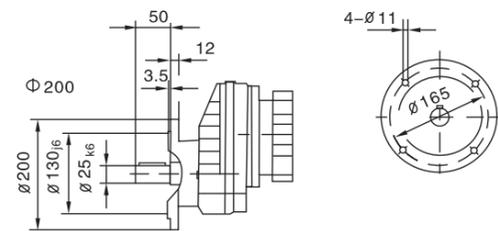
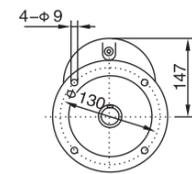
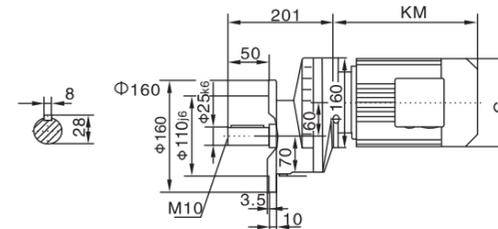
★1: When equipping the user smor the specialone, the flange is required to connected "L".
★2: Search Page 15-16



RX67



RXF67

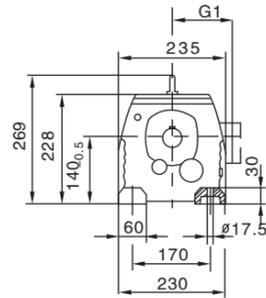
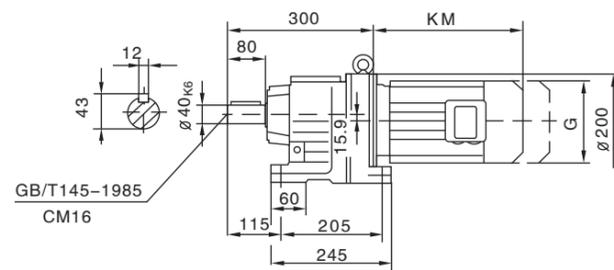


电机机座号 Motor size	DR63..	DT71D	DT80..	DT90S	DT90L	DV100L	DV112M	DV132S	DV132M
G (AC)	130	145	175	195	195	215	240	275	275
G1 (AD)	70	80	145	155	155	180	190	210	210
L2	62	62	73	73	73	88	88	88	88
KM (LB)	262	280	285	297	322	351	371	426	466

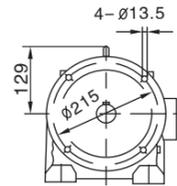
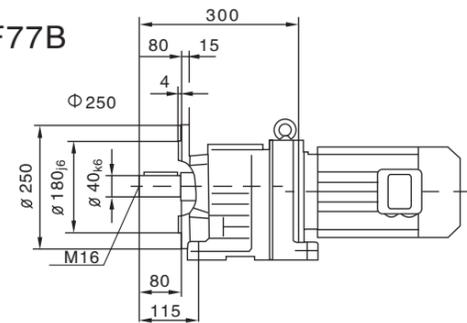
查表11 Seetable11 查表11: R: i=23-200查AD2 i=4.2-23查AD3 RX:i=3.3-6.1查AD2 i=1.4-3.3查AD3
 ★1: 电机需配时或配特殊电机时需加联接法兰 ★1: When equipping the user smor or the special one, the flange is required to be connected.
 ★2: 查15-16页 ★2: Search Page 15-16



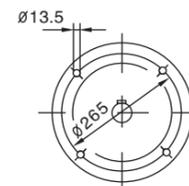
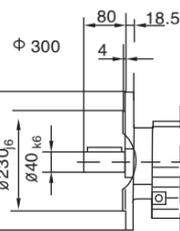
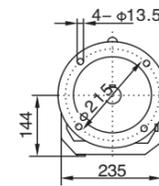
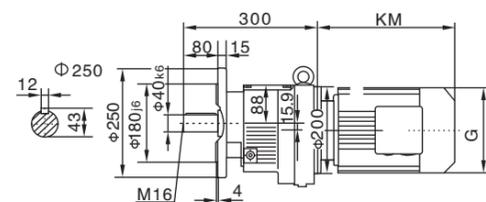
R77



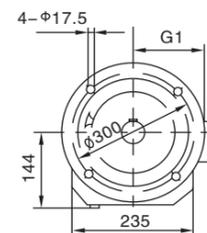
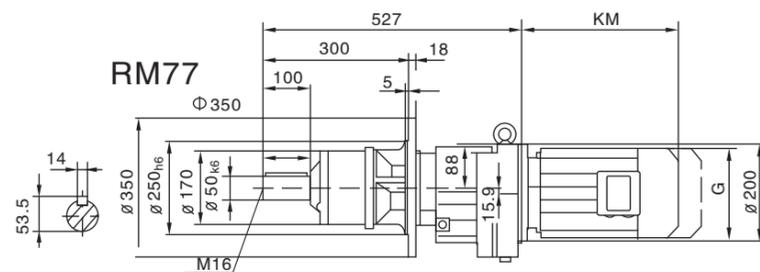
RF77B



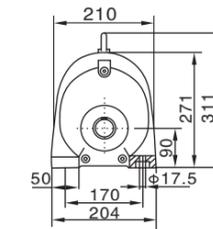
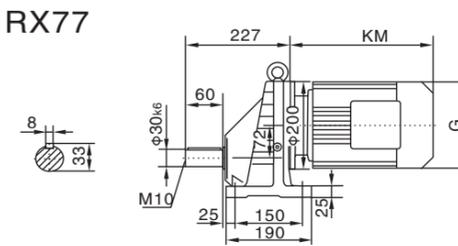
RF77



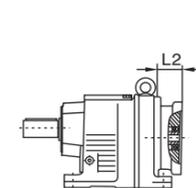
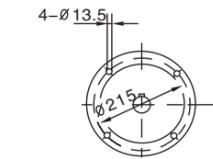
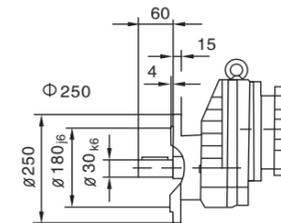
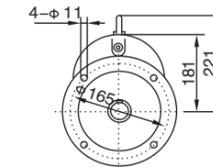
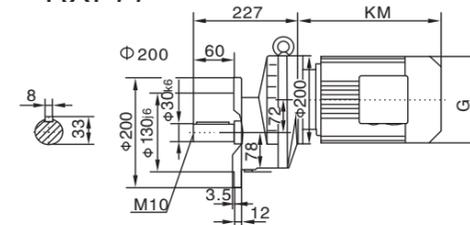
RM77



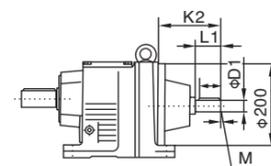
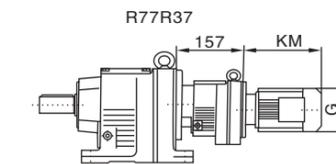
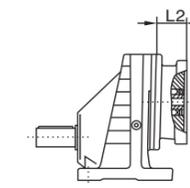
RX77



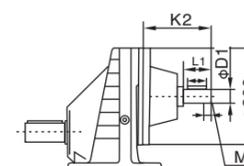
RXF77



★1



★2



电机机座号 Motor size	DR63..	DT71D	DT80..	DT90S	DT90L	DV100L	DV112M	DV132S	DV132M	DV160M		
G (AC)	130	145	175	195	195	215	240	275	275	380		
G1 (AD)	70	80	145	155	155	180	190	210	210	255		
L2	72	72	72	72	72	88	88	88	88	114		
KM (LB)	262	280	285	297	322	351	371	426	466	525		

查表11 Seetable11 查表11: R: i=25-196查AD2 i=9-25查AD3 i=5.3-9查AD4 RX:i=5-8查AD2 i=3.5-5查AD3 i=1.42-3.5查AD4

★1: 电机需方配时或配特殊电机时需加联接法兰“L”

★1: When equipping the user smor or the specialone, the flange is required to connected “L”.

★2: 查15-16页

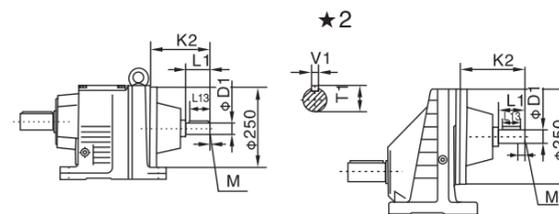
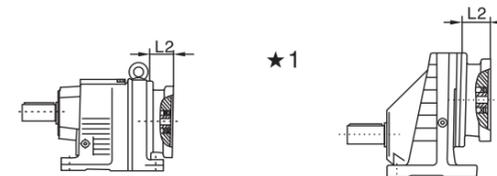
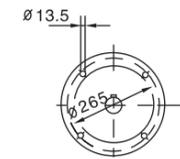
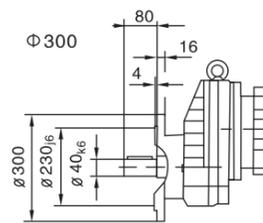
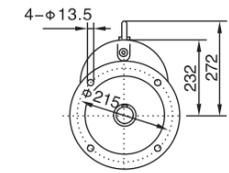
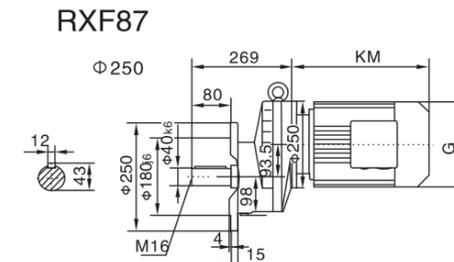
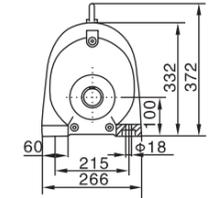
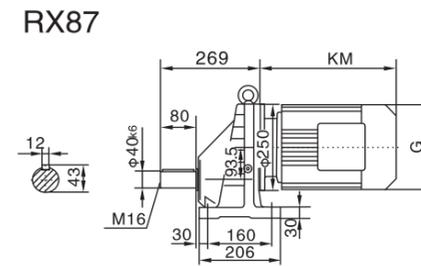
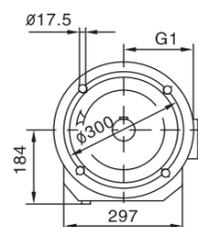
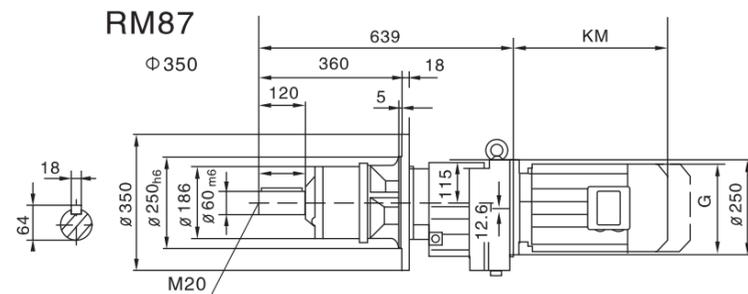
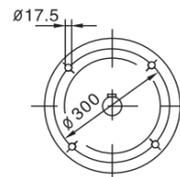
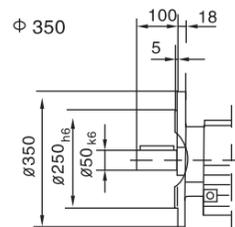
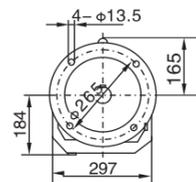
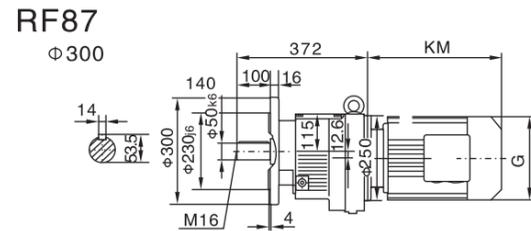
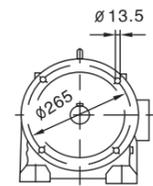
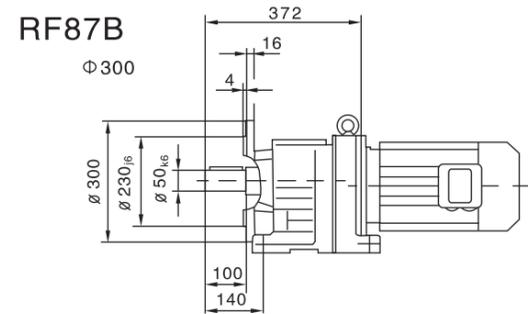
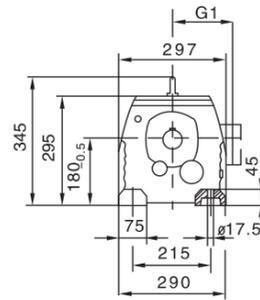
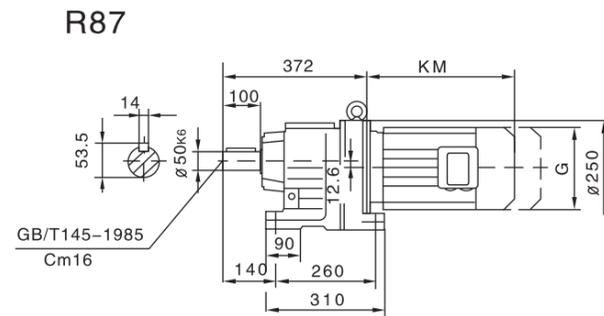
★2: Search Page 15-16

R Series Selection parameter table

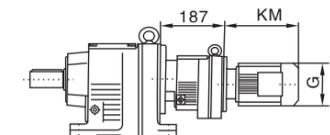
R系列选型参数表

R系列选型参数表

R Series Selection parameter table

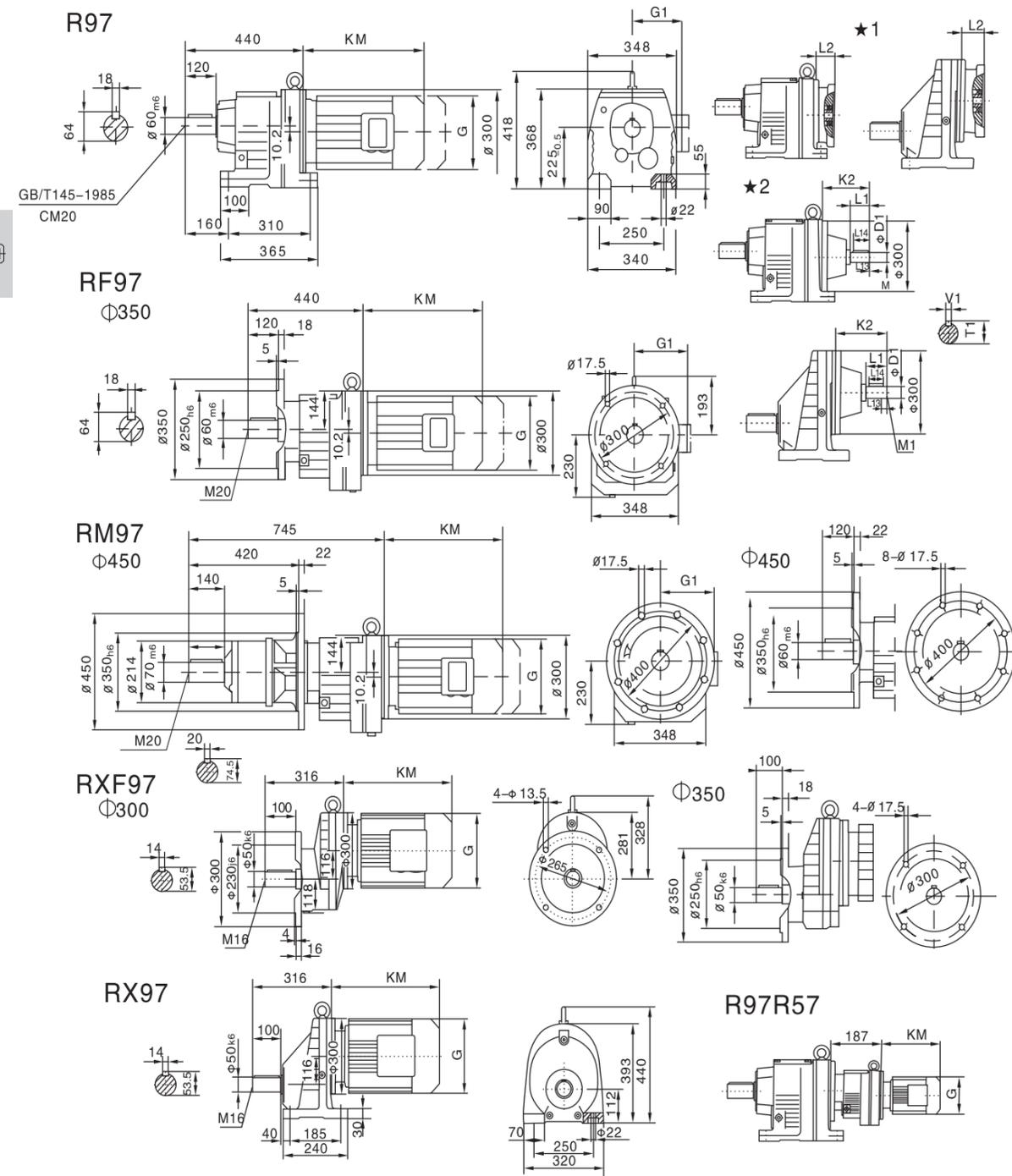


R87R57



电机机座号 Motor size	DT80..	DT90S	DT90L	DV100L	DV112M	DV132S	DV132M	DV160M	DV160L	DV180..		
G (AC)	175	195	195	215	240	275	275	330	330	380		
G1 (AD)	145	155	155	180	190	210	210	255	255	280		
L2	81	81	81	81	81	88	88	114	114	118		
KM (LB)	285	297	322	351	371	426	466	525	570	630		

查表11
查表11: R: i=46-247查AD2 i=29-46查AD3 i=9.5-29查AD4 i=5-9.5查AD5 RX: i=6.8-8.7查AD2 i=4.8-6.8查AD3 i=3.6-4.8查AD4 i=1.39-3.6查AD5
★1: 电机需方配时或配特殊电机时需加联接法兰 "L"
★2: 查15-16页
★1: When equipping the user smoror the specialone, the flange is required to connected "L".
★2: Search Page 15-16



电机机座号 Motor size	DT80..	DT90S	DT90L	DV100L	DV112M	DV132S	DV132M	DV160M	DV160L	DV180..	DV200..
G (AC)	175	195	195	215	240	275	275	330	330	380	420
G1 (AD)	145	155	155	180	190	210	210	255	255	280	305
L2				88	88	96	96	116	116	116	
KM (LB)	285	297	322	351	371	426	466	525	570	630	695

查表11: R: i=50~90查AD3 i=26~50查AD4 i=6~26查AD5 i=4.5~6查AD6

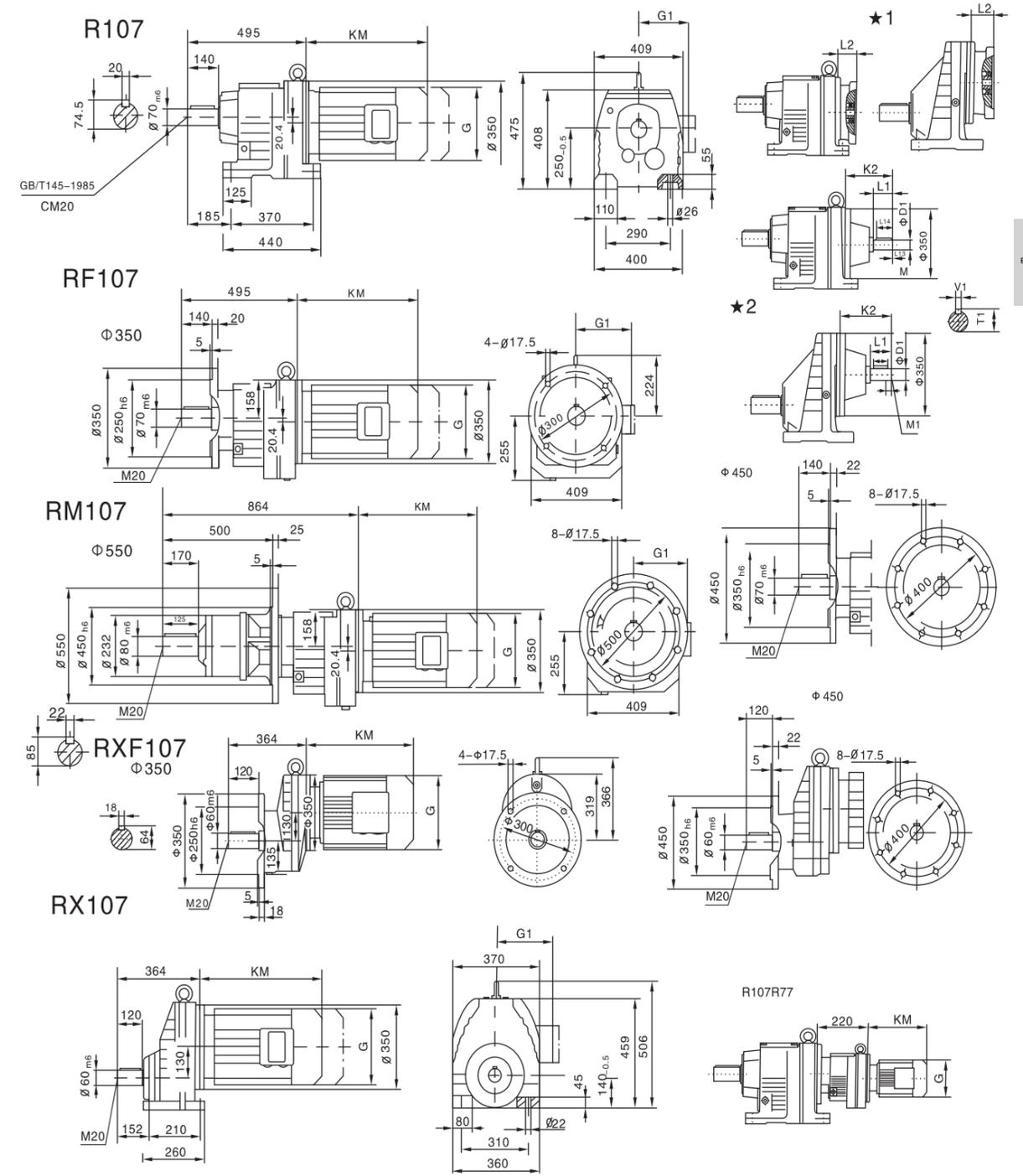
RX: i=6~8.5查AD3 i=4.7~6查AD4 i=1.6~4.7查AD5 i=1.4~1.6查AD6

★1: 电机需方配时或配特殊电机时需加联接法兰“L”

★2: 查15~16页

★1: When equipping the user smoror the specialone, the flange is required to connected "L".

★2: Search Page15-16



电机机座号 Motor size	DV100L	DV112M	DV132S	DV132M	DV160M	DV160L	Dv180..	DV200..	DV225..
G (AC)	215	240	275	275	330	330	380	420	470
G1 (AD)	180	190	210	210	255	255	280	305	335
K	846	866	921	961	1020	1065	1125	1190	1235
L2	98	98	118	118	118	118	118	136	136
KM (LB)	351	371	426	466	525	570	630	695	740

查表11

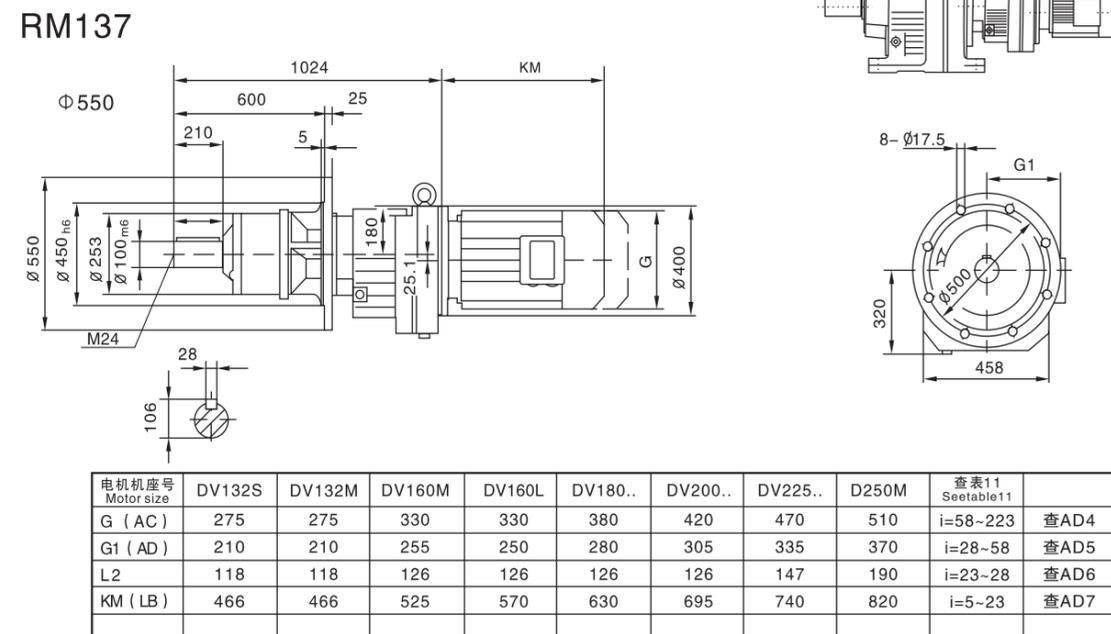
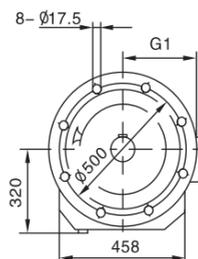
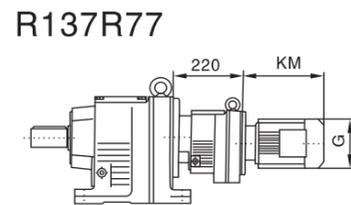
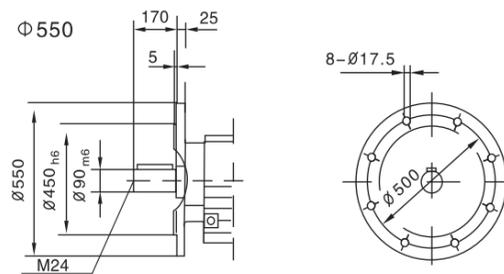
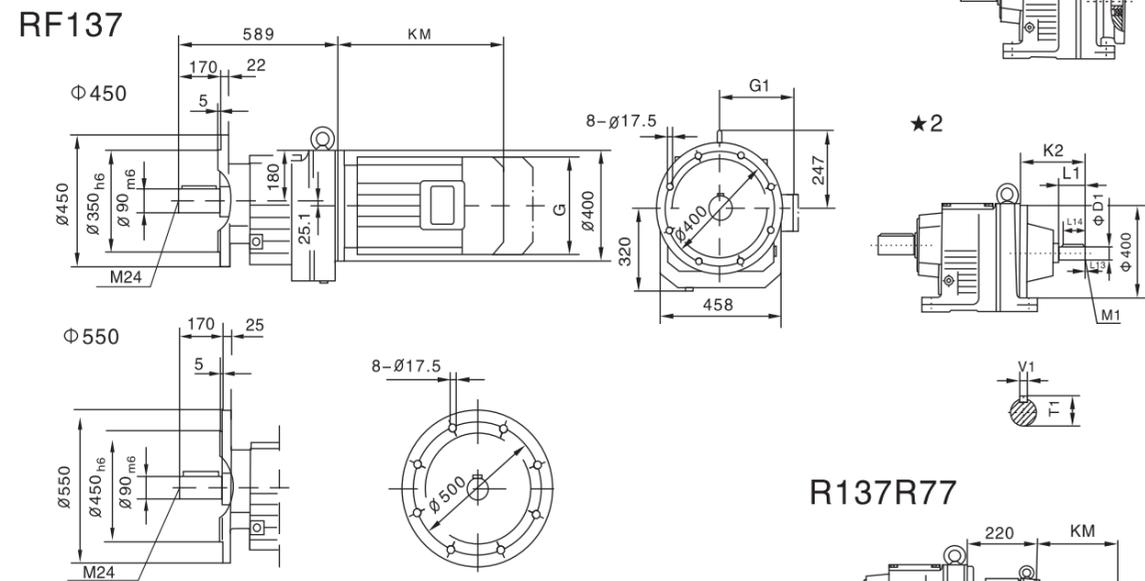
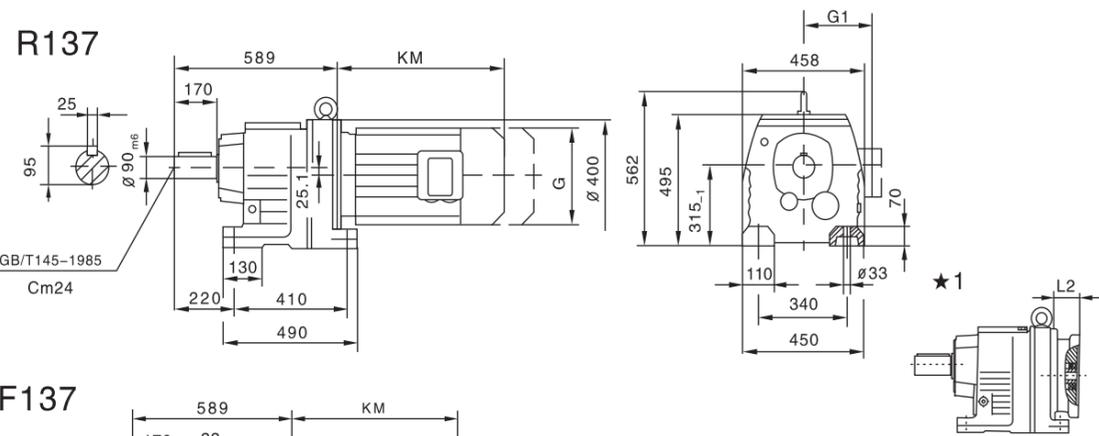
查表11: R: i=70~252查AD3 i=14~70查AD4 i=4.9~14查AD6 RX:i=5.4~6.63查AD4 i=3.2~5.4查AD5 i=1.4~3.2查AD6

★1: 电机需方配时或配特殊电机时需加联接法兰“L”

★2: 查15~16页

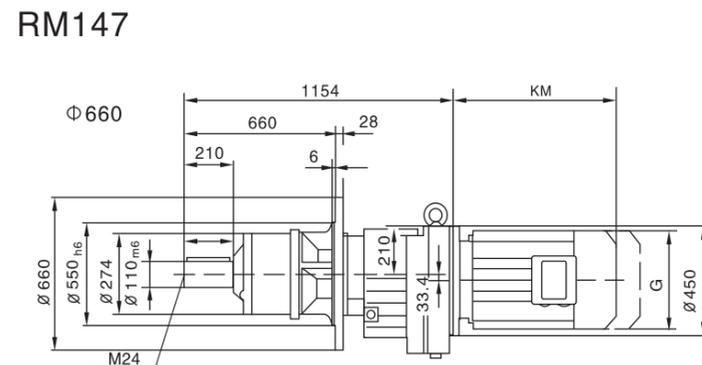
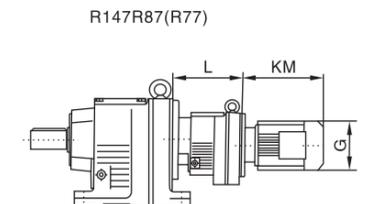
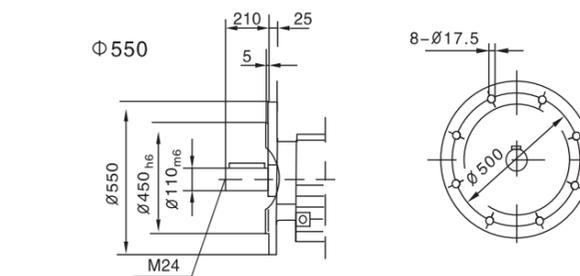
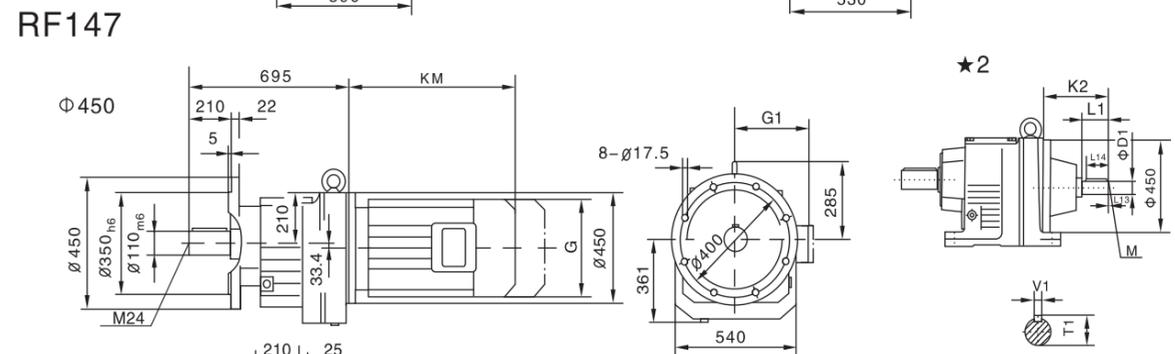
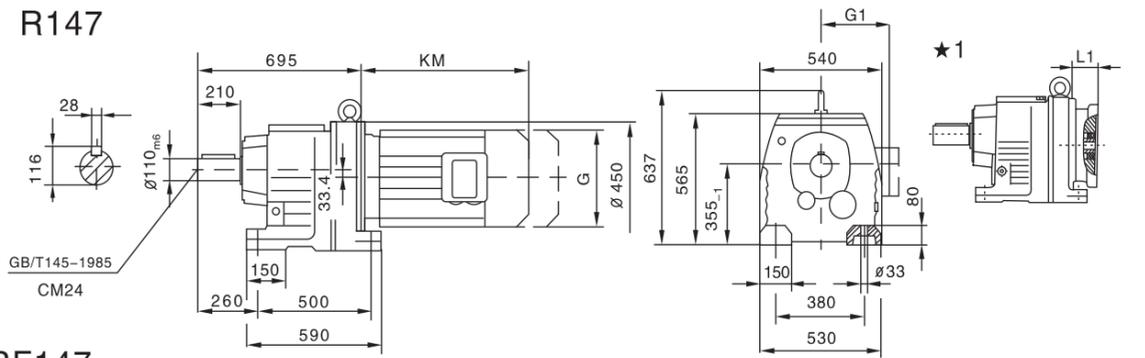
★1: When equipping the user smoror the specialone, the flange is required to connected "L".

★2: Search Page15-16

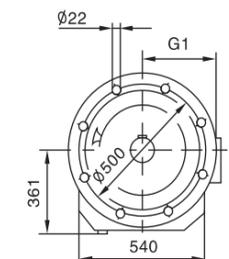


电机机座号 Motor size	DV132S	DV132M	DV160M	DV160L	DV180..	DV200..	DV225..	D250M	查表11 Seetable11	
G (AC)	275	275	330	330	380	420	470	510	i=58~223	查AD4
G1 (AD)	210	210	255	250	280	305	335	370	i=28~58	查AD5
L2	118	118	126	126	126	126	147	190	i=23~28	查AD6
KM (LB)	466	466	525	570	630	695	740	820	i=5~23	查AD7

★1: 电机需方配时或配特殊电机时需加联接法兰“L”
★2: 查15-16页
★1: When equipping the user smoror the specialone, the flange is required to connected “L” .
★2: Search Page15-16



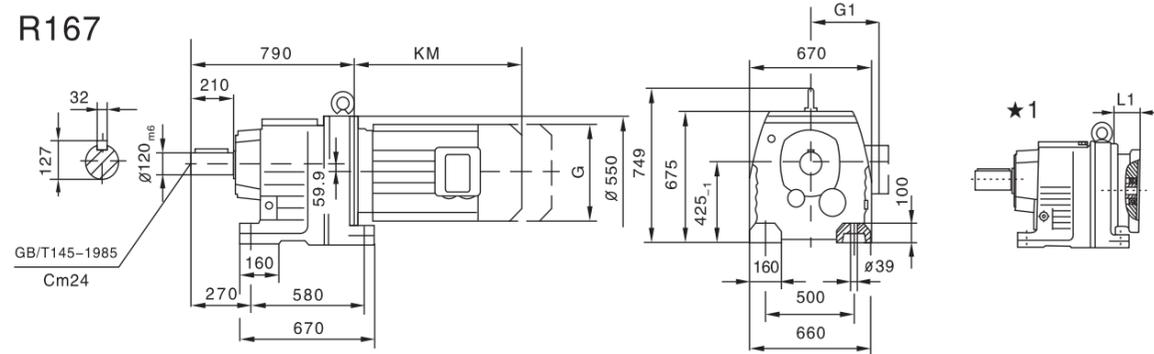
	R147R77	R147R87
L	220	272



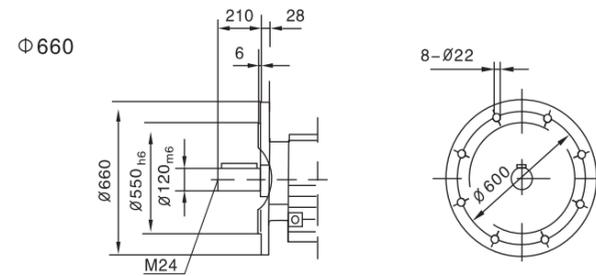
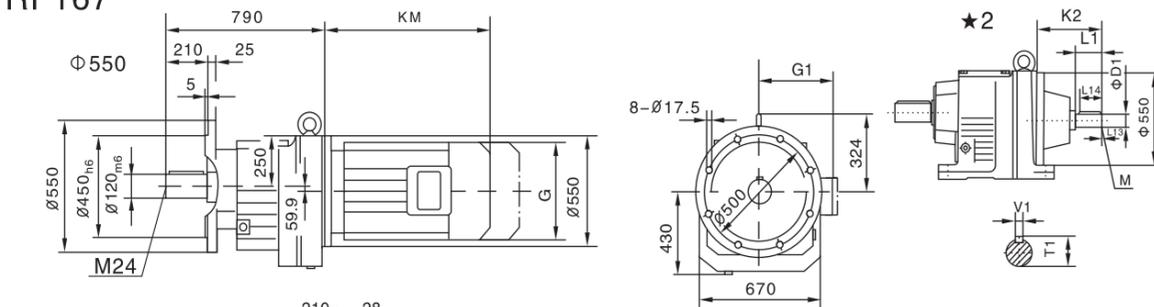
电机机座号 Motor size	DV132M	DV160M	DV160L	DV180..	Dv200..	DV225..	D250M	D280S	D280M	查表11 Seetable11	
G (AC)	275	330	330	380	420	470	510	580	580	i=80~169	查AD4
G1 (AD)	210	255	255	280	305	335	370	410	410	i=45~80	查AD5
K	1161	1220	1265	1325	1390	1435	1515	1585	1635	i=36~45	查AD6
L2	114	114	114	130	130	147	190	190	190	i=23~36	查AD7
KM (LB)	466	525	570	630	695	740	820	890	940	i=5~23	查AD8

★1: 电机需方配时或配特殊电机时需加联接法兰“L”
★2: 查15-16页
★1: When equipping the user smoror the specialone, the flange is required to connected “L” .
★2: Search Page15-16

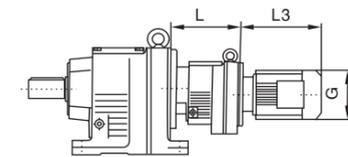
R167



RF167

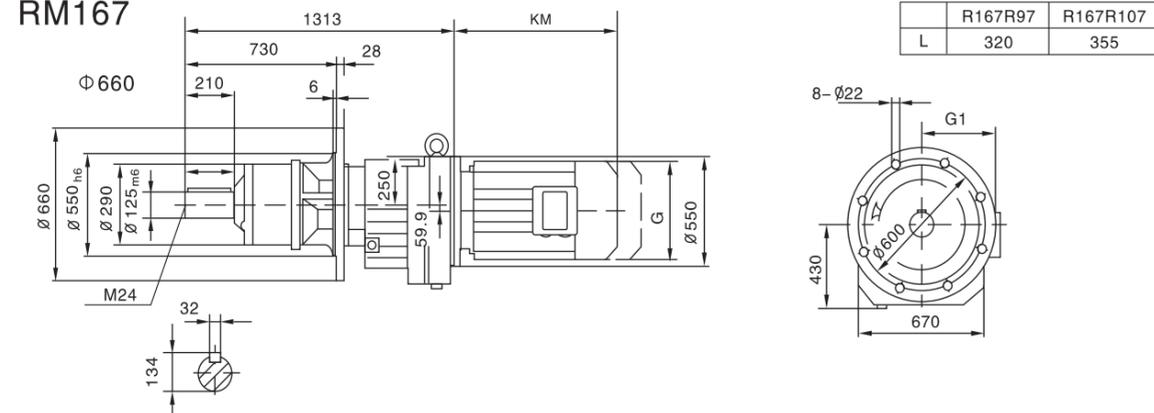


R167R107(R97)



	R167R97	R167R107
L	320	355

RM167



电机座号 Motor size	DV160M	DV160L	DV180..	DV200..	Dv225..	D250M	D280S	D280M	D315S	D315S	查表11 See table 11
G (AC)	330	330	380	420	470	510	580	580	645	645	l=76-230AD5
G1 (AD)	255	255	280	305	335	370	410	410	576	576	l=48-70AD6
L2	130	130	130	130	147	190	190	190	190	190	l=33-48AD7
KM (LB)	525	570	630	695	740	820	890	940	1159	1199	l=1-33AD8

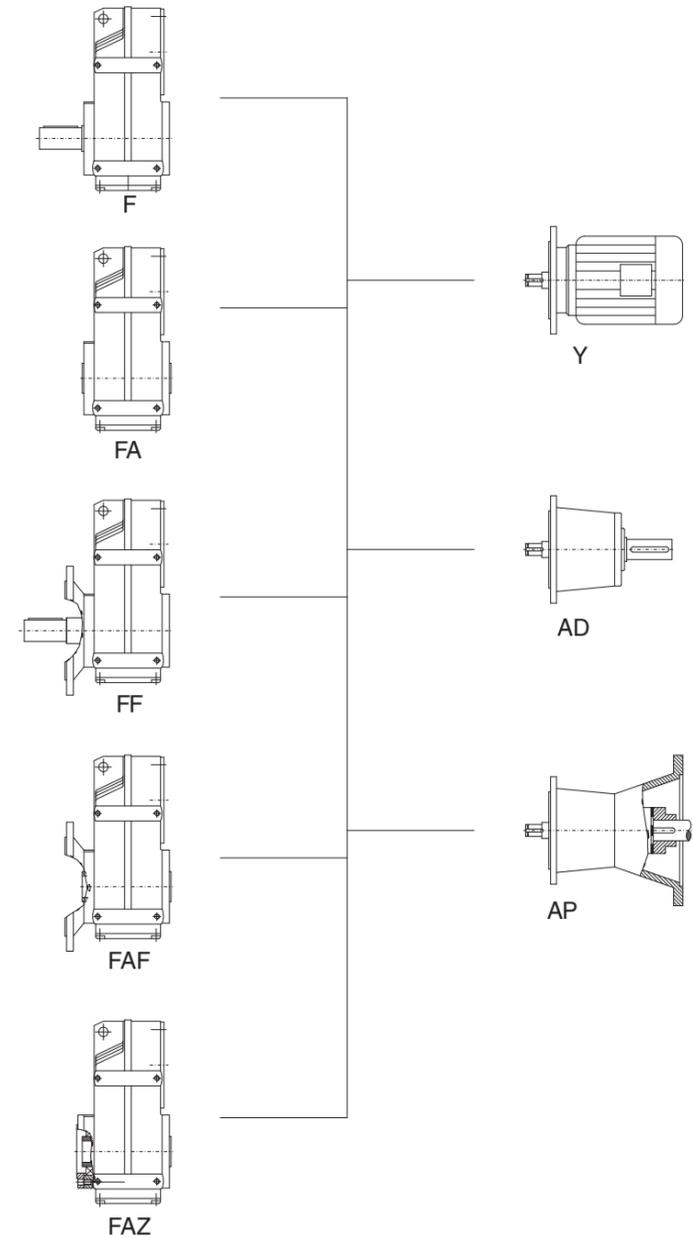
★1: 电机需方配时或配特殊电机时需加联接法兰“L”
★2: 查15-16页

★1: When equipping the user smor or the special one, the flange is required to be connected.
★2: Search Page 15-16

F 系列

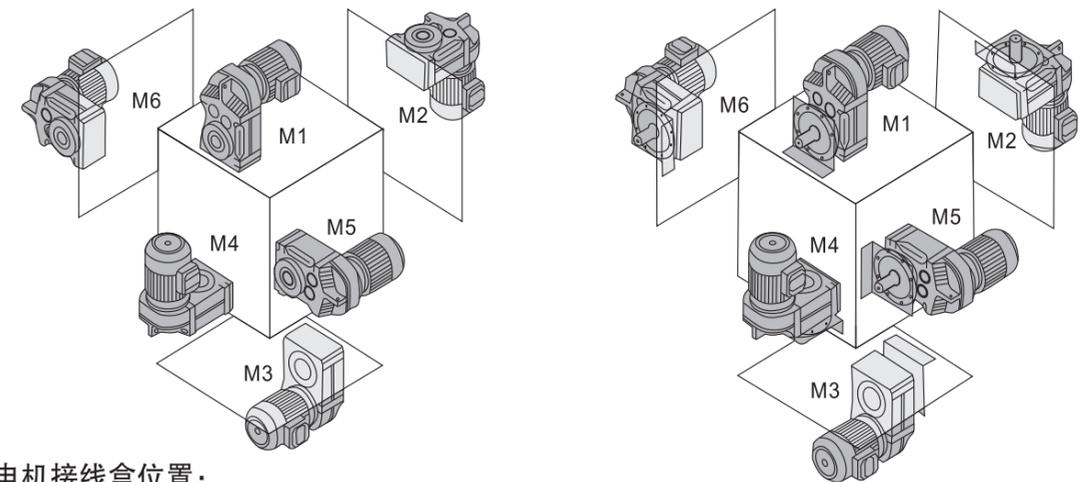
平行轴斜齿轮减速机

F series parallel shaft helical gear units

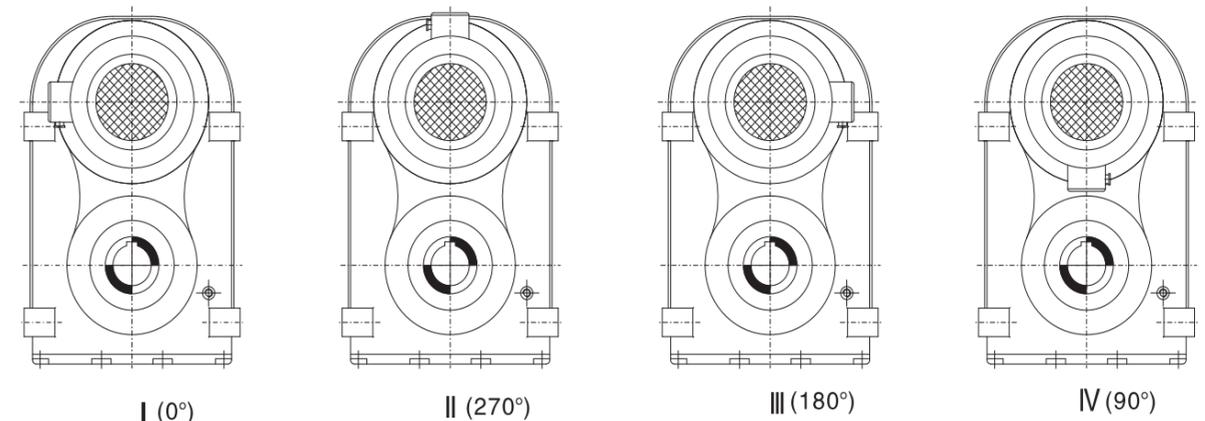


型号与标记:
Type Designations:

<p>F A 37-Y 0.37-4P-28.09-M1-I</p>	<p>F A 37-Y 0.37-4P-28.09-M1-I</p>
<p>减速机类型: 平行轴斜齿轮减速机</p>	<p>Gear units type: Parallel shaft helical gear units:</p>
<p>结构形式: 普通轴伸式 (省略) 轴装式 A 轴伸法兰式 F 轴装法兰式 AF 轴装小法兰式 AZ</p>	<p>Structure: Foot-mounted solid shaft output (-) Hollow shaft output A Flange-mounted solid shaft output F Flange-mounted hollow shaft output AF Short-flange-mounted hollow shaft output AZ</p>
<p>机座号: (见选型参数表)</p>	<p>Size: (see selection table)</p>
<p>电机代号: 普通 (更新) Y(Y2) 防爆 B 直流 Z 制动 E 多速 D 变频 V 分马力 F 增安 A 电磁调速 C 冶金起重 R 变频制动 VE 辊道 G 法兰输入 AP 轴输入 AD</p>	<p>Motor code: Ordinary(renew) Y(Y2) Flame-proof B Direct current Z Brake E Multi-speed D Variable frequency V Power-divided F Ampere-increased A Electromagnetism speed modulation C Hoisting in metallurgy R Variable frequency and brake VE Roller tables G Flange input AP Shaft input AD</p>
<p>电机功率、极数: (见选型参数表)</p>	<p>Motor power, pole: (see selection table)</p>
<p>传动比: (见选型参数表)</p>	<p>Ratio: (see selection table)</p>
<p>安装形式: M1、M2、M3、M4、M5、M6</p>	<p>Mounting position: M1、M2、M3、M4、M5、M6</p>
<p>电机接线盒位置: I、II、III、IV</p>	<p>Position of the motor thermal box: I、II、III、IV</p>



电机接线盒位置:



输入功率及许用转矩

Input power rating and permissible torque

机型号 Gear unit type	27	37	47	57	67	77	87	97	107	127	157
结构形式 Structure	F FA FF FAF FAZ										
输入功率 Input power rating(kW)	0.12-2.2	0.18-3	0.18-3	0.18-5.5	0.18-5.5	0.37-11	0.75-22	1.1-30	2.2-45	7.5-90	11-200
传动比 Ratio	4.16-140.74	3.77-128.51	4.99-190.76	5.18-199.70	3.97-228.99	4.28-281.71	4.12-270.68	4.57-276.77	6.22-254.40	4.68-170.83	11.92-267.43
许用转矩(N.m) Permissible torque	130	200	400	600	820	1500	3000	4300	7840	12000	18000

减速机重量

Gear unit weight

机型号 Gear unit type	F27	F37	F47	F57	F67	F77	F87	F97	F107	F127	F157
重量(kg) Weight	11	13	18	34	55	90	150	260	402	700	950

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

F Series Selection parameter table

输出转速 Output speed r/min	输出扭矩 Output torque N.m	传动比 Ratio i	使用系数 Service factor f _s	机型号 Type	极数 Pole	输出扭矩 Output torque N.m	输出转速 Output speed r/min	传动比 Ratio i	机型号 Type	功率 Power kW/4p
75kW						130				
58	12200	25.30	1.00							
				FA127	4					
				FAF127	4					
				F127	4					
				FF127	4					
69	10300	21.38	1.15							
78	9130	18.87	1.20							
90	7920	16.36	1.40							
102	7040	14.55	1.55	FA127	4					
118	6070	12.54	1.65	FAF127	4					
145	4930	10.19	1.95	F127	4					
167	4290	8.86	1.65	FF127	4					
188	3810	7.88	1.55							
218	3290	6.80	2.1							
268	2670	5.52	2.2							
316	2270	4.68	2.7							
90kW						200				
45	18900	32.55	0.95	FA157	4					
54	16000	27.60	1.10	FAF157	4					
				F157	4					
				FF157	4					
52	16600	28.60	1.00							
58	14800	25.43	1.00	FA157	4					
67	12900	22.16	1.40	FAF157	4					
75	11500	19.77	1.50	F157	4					
88	9790	16.85	1.85	FF157	4					
106	8110	13.96	2.1							
124	6920	11.92	2.3							
58	14700	25.30	0.80	FA127	4					
				FAF127	4					
				F127	4					
				FF127	4					
69	12400	21.38	0.95							
78	11000	18.87	1.00							
90	9500	16.36	1.15							
102	8450	14.55	1.30	FA127	4					
118	7280	12.54	1.35	FAF127	4					
145	5920	10.19	1.60	F127	4					
167	5150	8.86	1.35	FF127	4					
188	4580	7.88	1.30							
218	3950	6.80	1.75							
268	3210	5.52	1.85							
316	2720	4.68	2.2							
110kW						200				
54	19500	27.60	0.90	FA157	4					
				FAF157	4					
				F157	4					
				FF157	4					
67	15700	22.16	1.15							
75	14000	19.77	1.20	FA157	4					
88	11900	16.85	1.50	FAF157	4					
106	9880	13.96	1.70	F157	4					
125	8430	11.92	1.90	FF157	4					
67	18800	22.16	0.95	FA157	4					
75	16800	19.77	1.00	FAF157	4					
88	14300	16.85	1.25	F157	4					
106	11900	13.96	1.45	FF157	4					
125	10100	11.92	1.60							
160kW						200				
88	17300	16.85	1.05	FA157	4					
106	14400	13.96	1.20	FAF157	4					
125	12300	11.92	1.30	F157	4					
				FF157	4					
88	21700	16.85	0.85	FA157	4					
106	18000	13.96	0.95	FAF157	4					
125	15300	11.92	1.05	F157	4					
				FF157	4					
88	21700	16.85	0.85	FA157	4					
106	18000	13.96	0.95	FAF157	4					
125	15300	11.92	1.05	F157	4					
				FF157	4					

F系列选型参数表

F系列选型参数表

F Series Selection parameter table

输出扭矩 Output torque N.m	输出转速 Output speed r/min	传动比 Ratio i	机型号 Type	功率 Power kW/4p	输出扭矩 Output torque N.m	输出转速 Output speed r/min	传动比 Ratio i	机型号 Type	功率 Power kW/4p
400					600				
	0.11	12251							
	0.13	10619							
	0.14	9846							
	0.16	8534							
	0.19	7460	FA47R17	0.12					
	0.21	6536	FAF47R17	0.12					
	0.24	5746	F47R17	0.12					
	0.27	5022	FF47R17	0.12					
	0.31	4401							
	0.36	3883							
	0.40	3443							
	0.46	2976							
	0.52	2629							
	0.55	2519							
	0.58	2394							
	0.64	2172							
	0.68	2025							
	0.78	1770							
	0.88	1576	FA47R17	0.12					
	1.0	1363	FAF47R17	0.12					
	1.2	1192	F47R17	0.12					
	1.3	1061	FF47R17	0.12					
	1.5	931							
	1.7	822							
	2.0	706							
	2.1	619	FA47R17	0.18					
			FAF47R17	0.18					
			F47R17	0.18					
			FF47R17	0.18					
	2.5	524	FA47R17	0.18					
	2.7	489	FAF47R17	0.18					
	3.1	427	F47R17	0.18					
	3.5	381	FF47R17	0.18					
	3.9	334	FA47R17	0.25					
	4.4	295	FAF47R17	0.25					
	5.1	253	F47R17	0.25					
			FF47R17	0.25					
	6.4	217	FA47R17	0.37					
	7.3	190	FAF47R17	0.37					
	7.8	178	F47R17	0.37					
			FF47R17	0.37					
	9.1	149	FA47R17	0.37					
	10	131	FAF47R17	0.37					
			F47R17	0.37					
			FF47R17	0.37					
600					820				
	0.09	14832							
	0.10	13604							
	0.11	12602							
	0.12	11252							
	0.14	9986							
	0.16	8787							
	0.17	7908	FA57R37	0.12					
	0.20	6913	FAF57R37	0.12					
	0.23	6030	F57R37	0.12					
	0.26	5289	FF57R37	0.12					
	0.30	4654							
	0.34	4060							
	0.39	3564							
	0.44	3161							
	0.41	3377							
	0.47	2912							
	0.51	2714							
	0.58	2372	FA67R37	0.12					
	0.65	2126	FAF67R37	0.12					
	0.85	1631	F67R37	0.12					
	0.96	1437	FF67R37	0.12					
	1.1	1256							

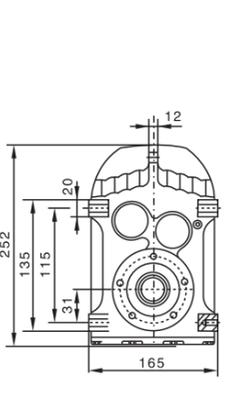
F Series Selection parameter table

输出扭矩 Output torque N.m	输出转速 Output speed r/min	传动比 Ratio i	机型号 Type	功率 Power kW/4p	输出扭矩 Output torque N.m	输出转速 Output speed r/min	传动比 Ratio i	机型号 Type	功率 Power kW/4p		
12000	0.13 0.15	10191 8831	FA127R77	0.25	12000	7.3	198	FA127R87	11		
			FAF127R77	0.25				FAF127R87	11		
			F127R77	0.25				F127R87	11		
			FF127R77	0.25				FF127R87	11		
0.18 0.21 0.23	7643 6715 5925	18000	FA127R77	0.37	18000	0.04 0.05 0.06 0.07 0.08 0.08 0.10 0.11	31434 26173 23464 20212 17984 16358 13751 12235	FA157R97	0.55		
			FAF127R77	0.37				FAF157R97	0.55		
			F127R77	0.37				F157R97	0.55		
			FF127R77	0.37				FF157R97	0.55		
			0.26 0.30 0.35	5153 4533 3926				FA127R77 FAF127R77 F127R77 FF127R77	0.55 0.55 0.55 0.55	FA157R97 FAF157R97 F157R97 FF157R97	1.1 1.1 1.1 1.1
			0.40 0.46	3454 3031				FA127R77 FAF127R77 F127R77 FF127R77	0.75 0.75 0.75 0.75	FA157R97 FAF157R97 F157R97 FF157R97	0.55 0.55 0.55 0.55
			0.52	2672				FA127R77 FAF127R77 F127R77 FF127R77	0.75 0.75 0.75 0.75	FA157R97 FAF157R97 F157R97 FF157R97	1.1 1.1 1.1 1.1
			0.59 0.69 0.79	2357 2038 1784				FA127R77 FAF127R77 F127R77 FF127R77	1.1 1.1 1.1 1.1	FA157R97 FAF157R97 F157R97 FF157R97	2.2 2.2 2.2 2.2
0.88 1.0	1606 1390	FA127R77 FAF127R77 F127R77 FF127R77	1.5 1.5 1.5 1.5	FA157R97 FAF157R97 F157R97 FF157R97	2.2 2.2 2.2 2.2						
1.2 1.3 1.5	1220 1077 930	FA127R77 FAF127R77 F127R77 FF127R77	2.2 2.2 2.2 2.2	FA157R97 FAF157R97 F157R97 FF157R97	1.5 1.5 1.5 1.5						
1.7 1.9 2.2	820 727 648	FA127R77 FAF127R77 F127R77 FF127R77	3.0 3.0 3.0 3.0	FA157R97 FAF157R97 F157R97 FF157R97	3.0 3.0 3.0 3.0						
2.6 2.9	549 495	FA127R77 FAF127R77 F127R77 FF127R77	4.0 4.0 4.0 4.0	FA157R97 FAF157R97 F157R97 FF157R97	4.0 4.0 4.0 4.0						
3.3 3.8	428 376	FA127R77 FAF127R77 F127R77 FF127R77	5.5 5.5 5.5 5.5	FA157R97 FAF157R97 F157R97 FF157R97	5.5 5.5 5.5 5.5						
3.0 3.4 3.8	483 418 374	FA127R87 FAF127R87 F127R87 FF127R87	5.5 5.5 5.5 5.5	FA157R97 FAF157R97 F157R97 FF157R97	7.5 7.5 7.5 7.5						
4.6 4.9	312 293	FA127R87 FAF127R87 F127R87 FF127R87	7.5 7.5 7.5 7.5	FA157R97 FAF157R97 F157R97 FF157R97	11 11 11 11						
5.6 6.4	259 223	FA127R87 FAF127R87 F127R87 FF127R87	7.5 7.5 7.5 7.5	FA157R97 FAF157R97 F157R97 FF157R97	18.5 18.5 18.5 18.5						

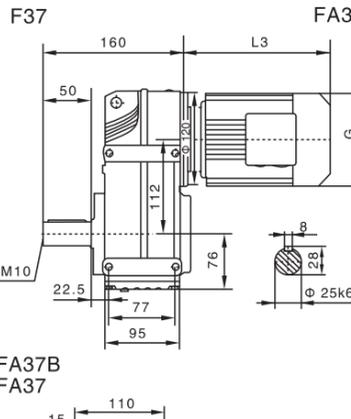
F系列选型参数表

F系列选型参数表

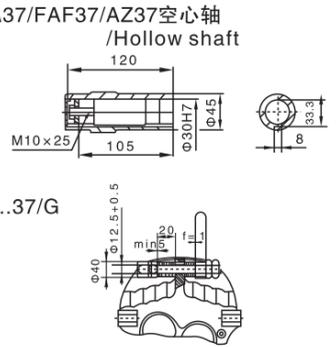
F Series Selection parameter table



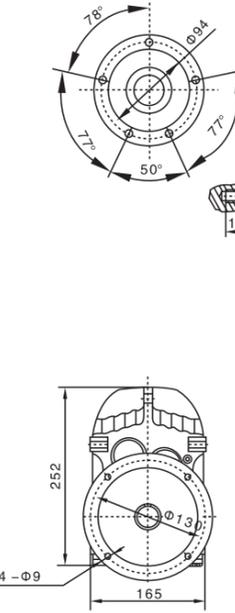
F37



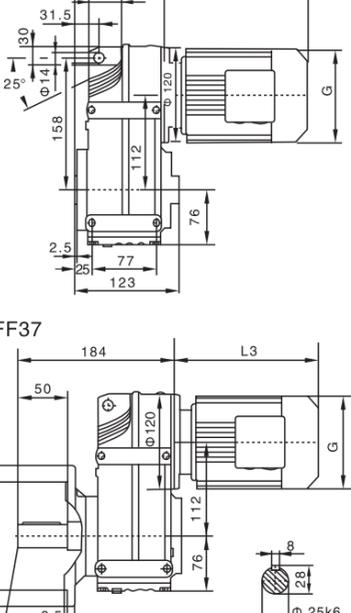
FA37B
FA37



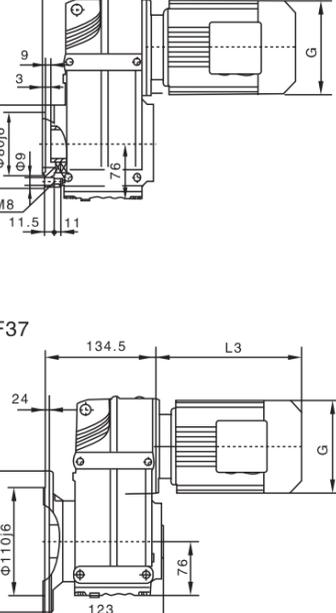
FA37B/FA37/FAF37/AZ37空心轴
/Hollow shaft



FF37



FAF37

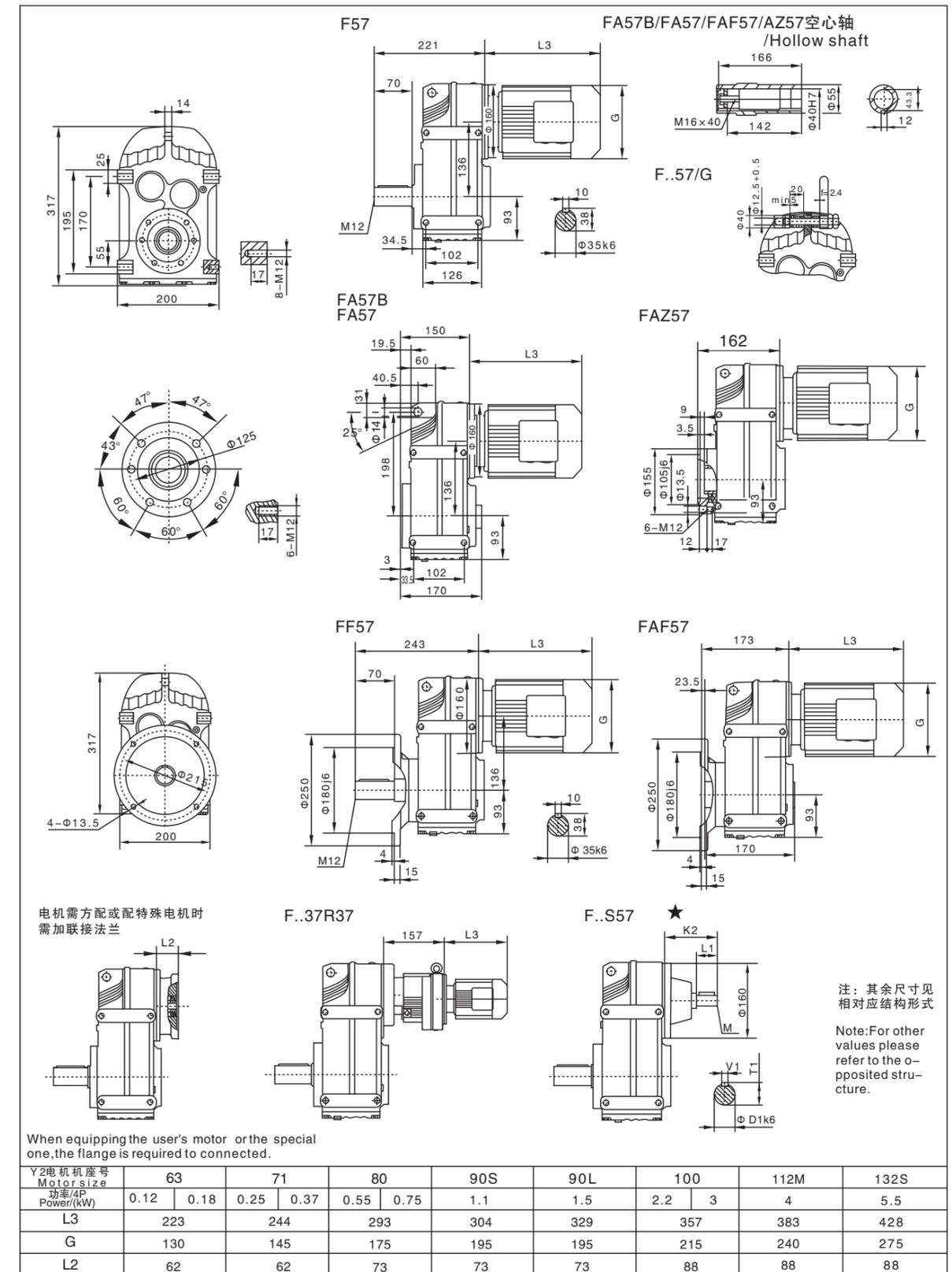
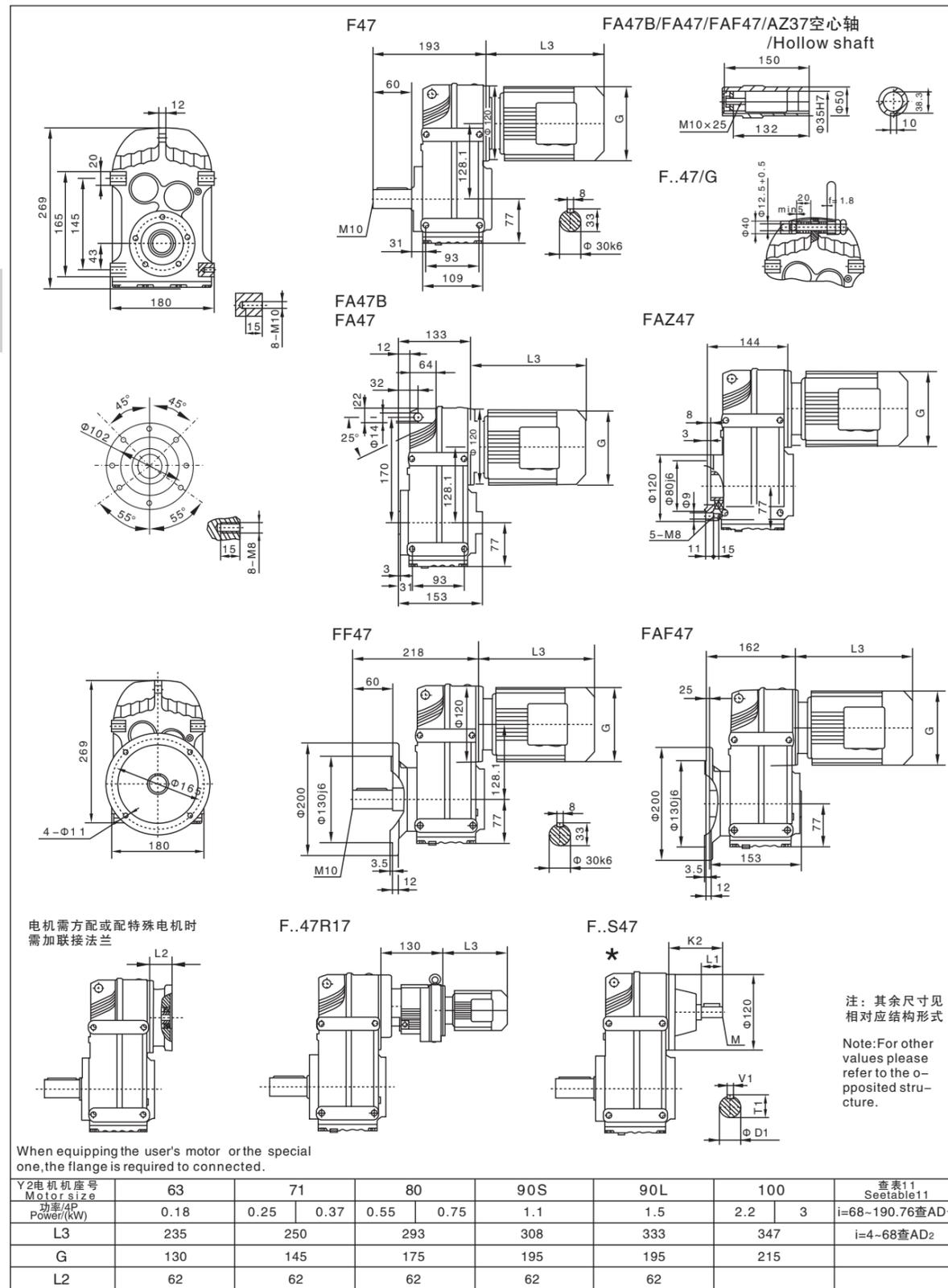


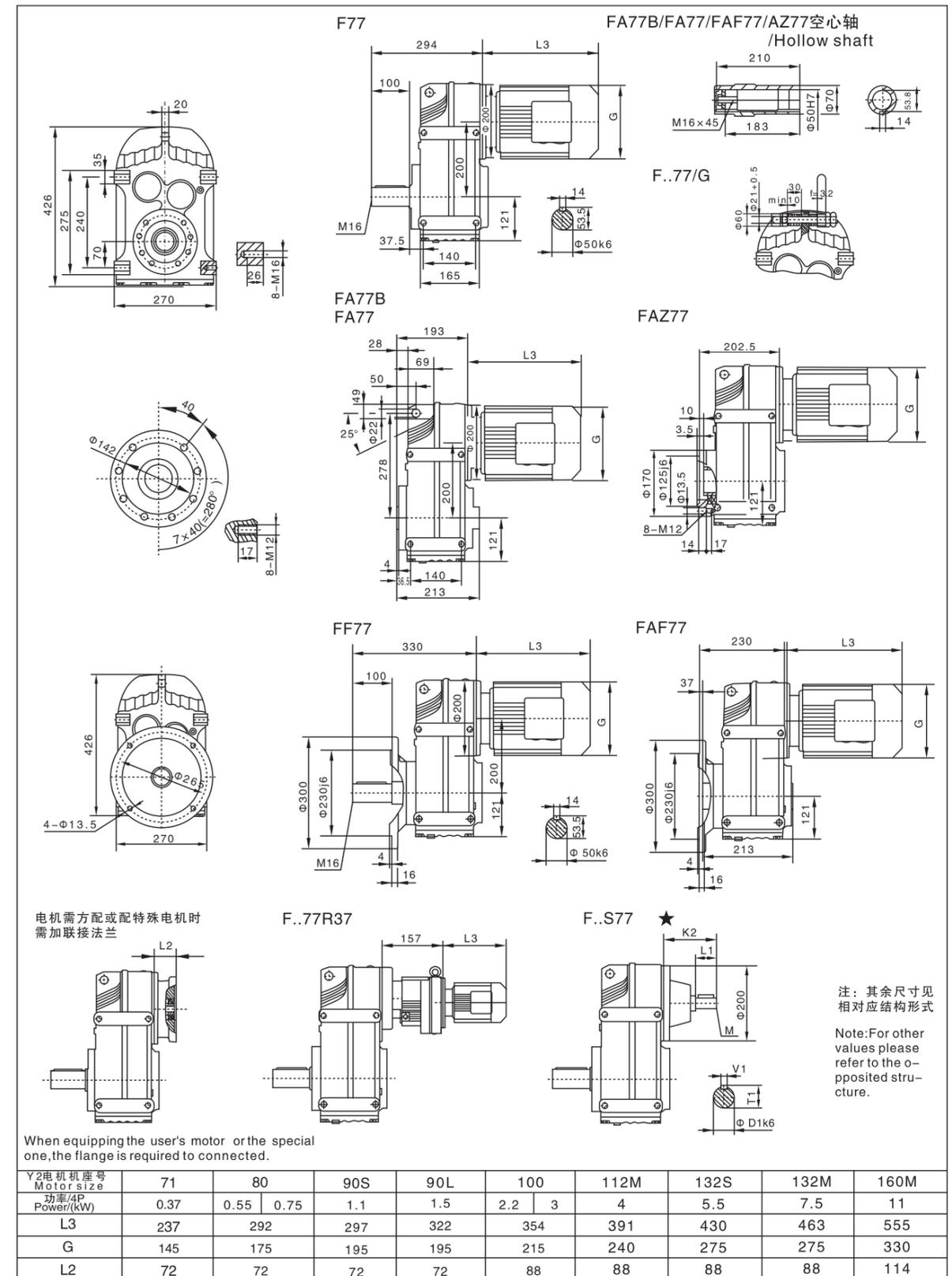
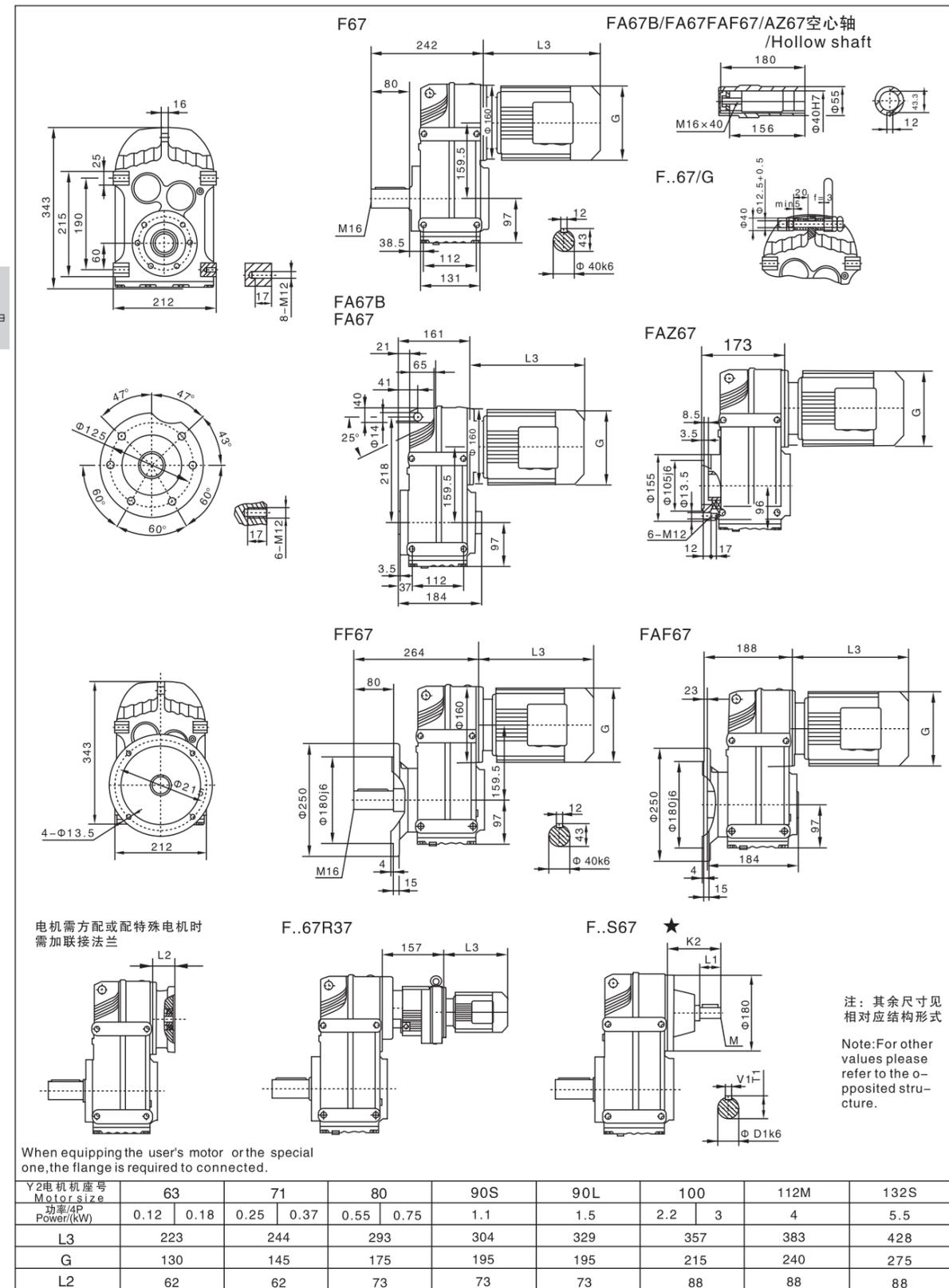
F..S37

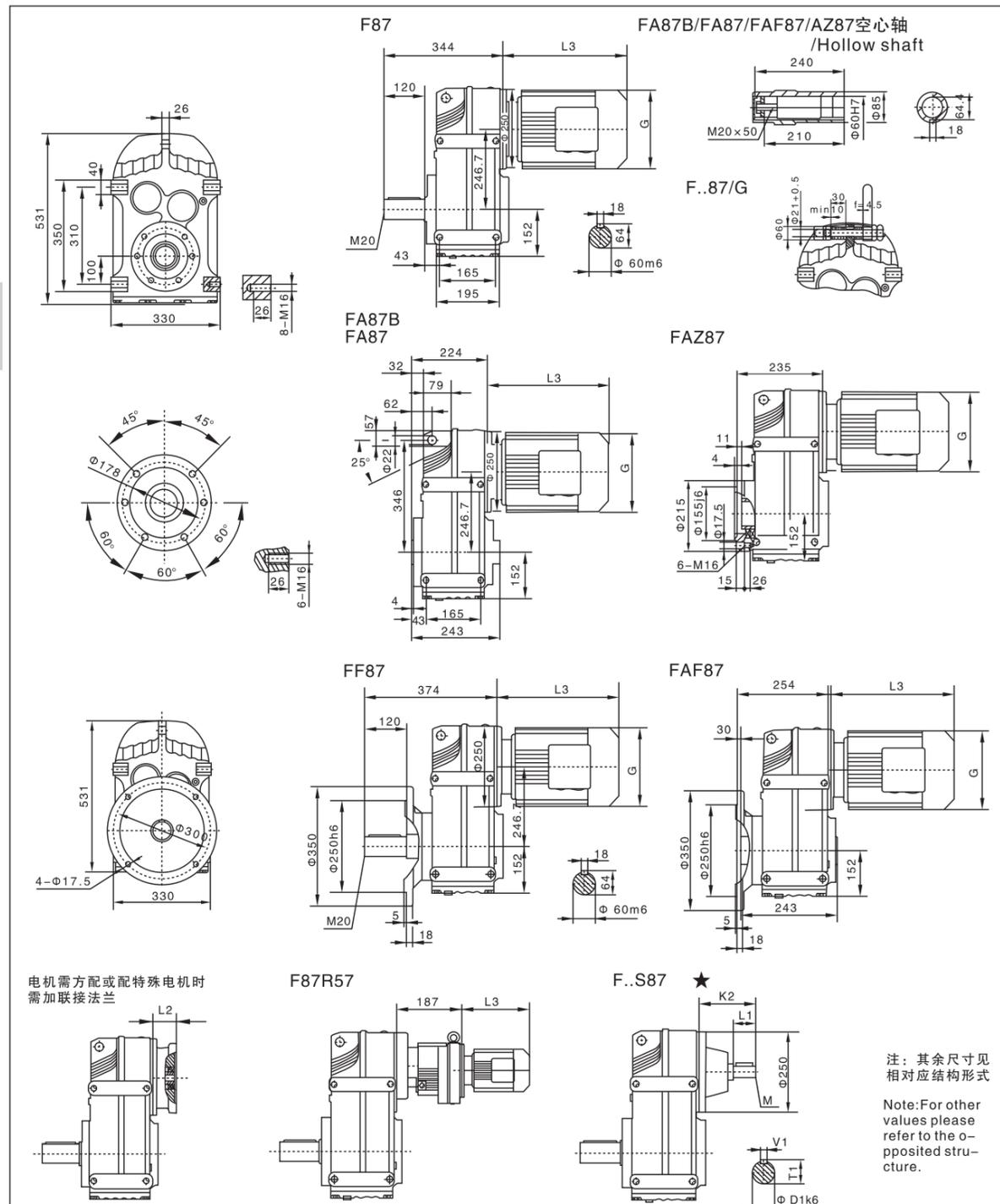
电机需方配或配特殊电机时需加联接法兰
When equipping the user's motor or the special one, the flange is required to be connected.

Y2电机座号 Motor size	63		71		80		90S		90L		100		查表11 See table 11
功率/kW Power/(kW)	0.12	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3			i=50~129查AD ₁
L3	235		250		293		308		333		347		i=3.7~50查AD ₂
G	130		145		175		195		195		215		
L2	62		62		62		62		62				

注: 1. 以上壳体为通用件, 安装尺寸均可相互参照 2. F..表示FA, FF, FAF, FAZ
Note: 1. The above housings are common parts. The mounting dimensions may consult each other. 2. STF.. means STF, STFA, STFF, STFAF, STFAZ
★查15-16页 Search Page 15-16



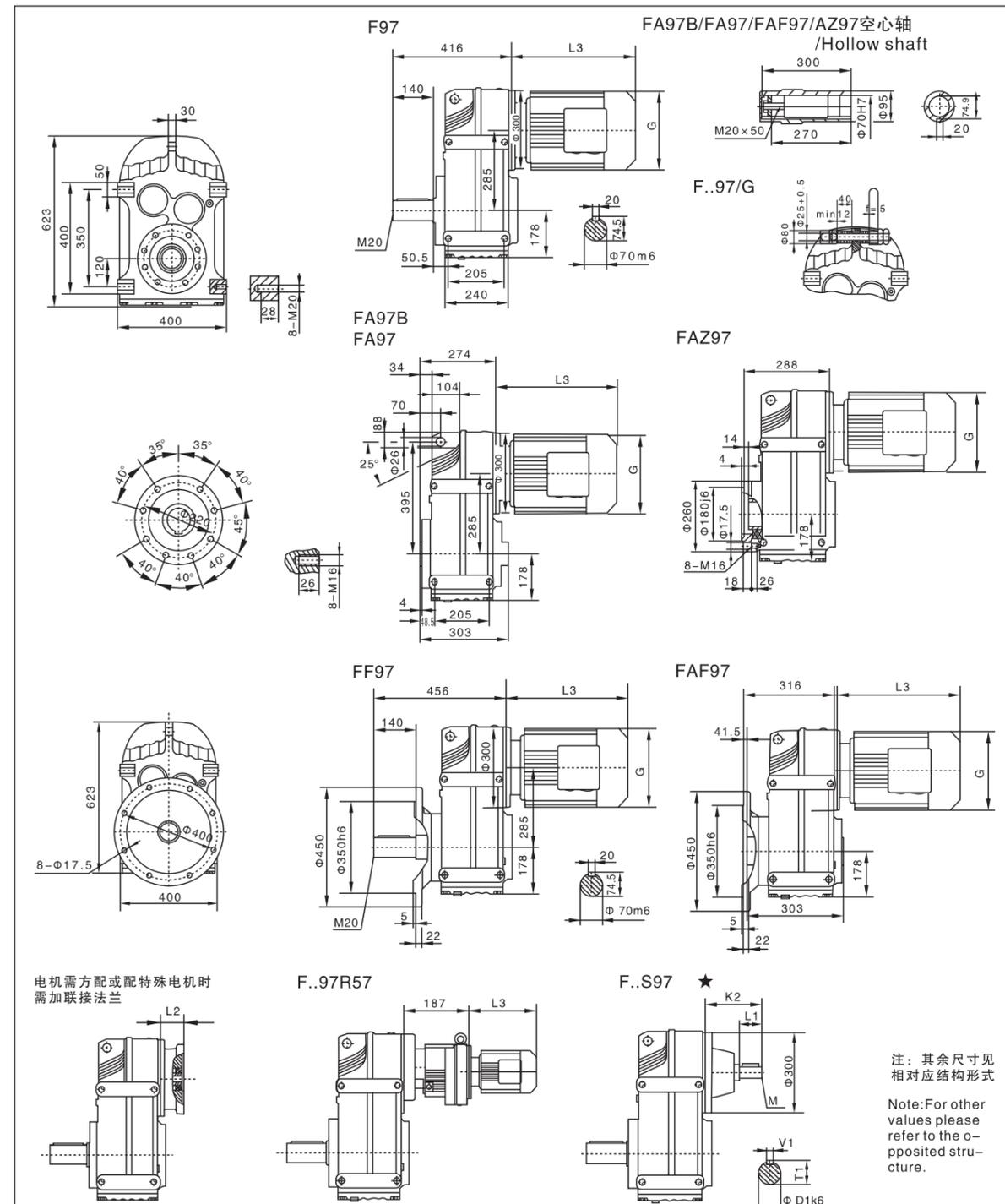




When equipping the user's motor or the special one, the flange is required to be connected.

Y2电机座号 Motor size	80	90S	90L	100	112M	132S	132M	160M	160L	180M	180L
功率/4P Power/(kW)	0.75	1.1	1.5	2.2	3	4	5.5	7.5	11	15	22
L3	261	284	309	351	371	417	450	538	583	612	652
G	175	195	195	215	240	275	275	330	330	380	380
L2	81	81	81	81	81	88	88	114	114	118	118

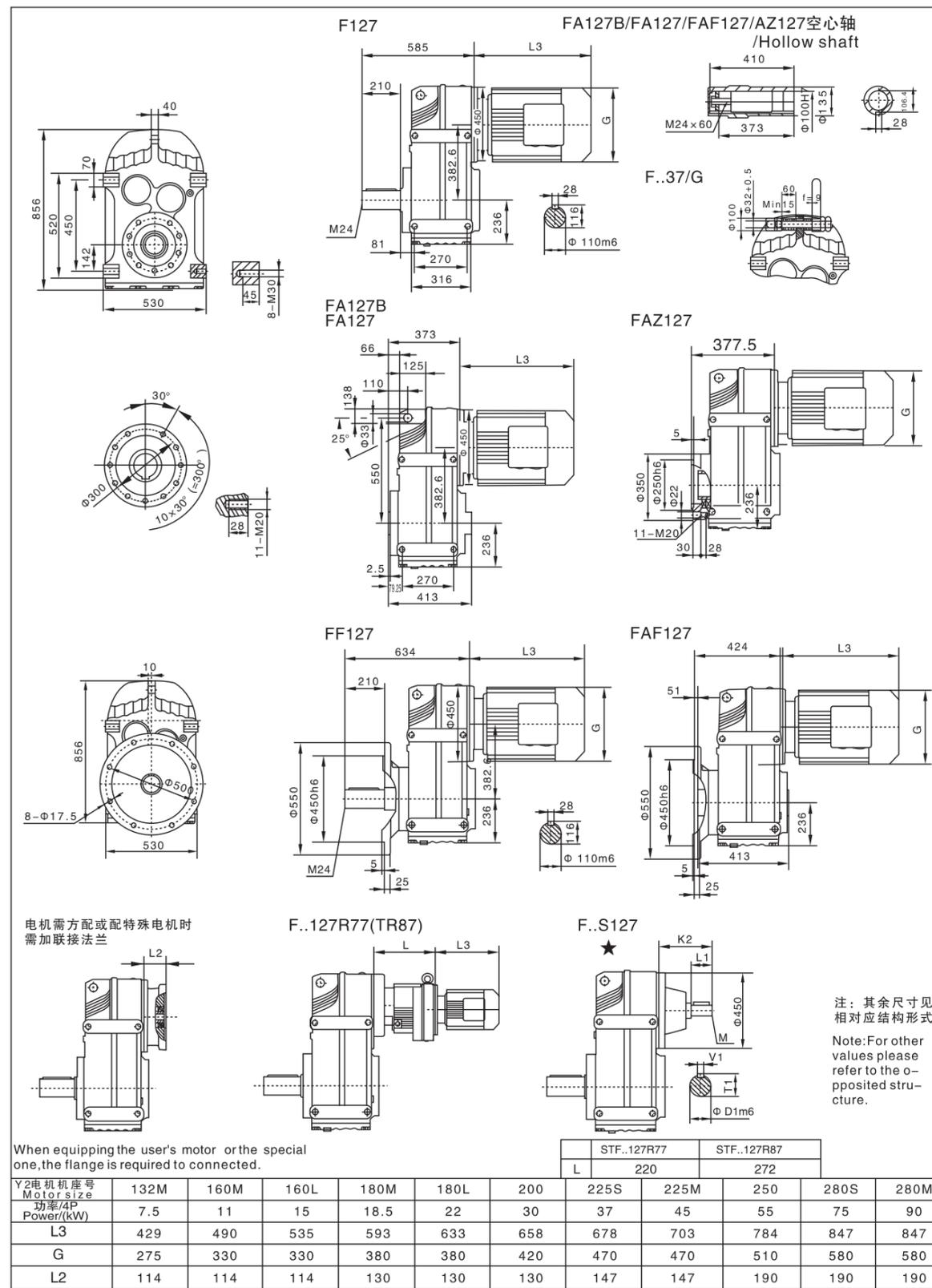
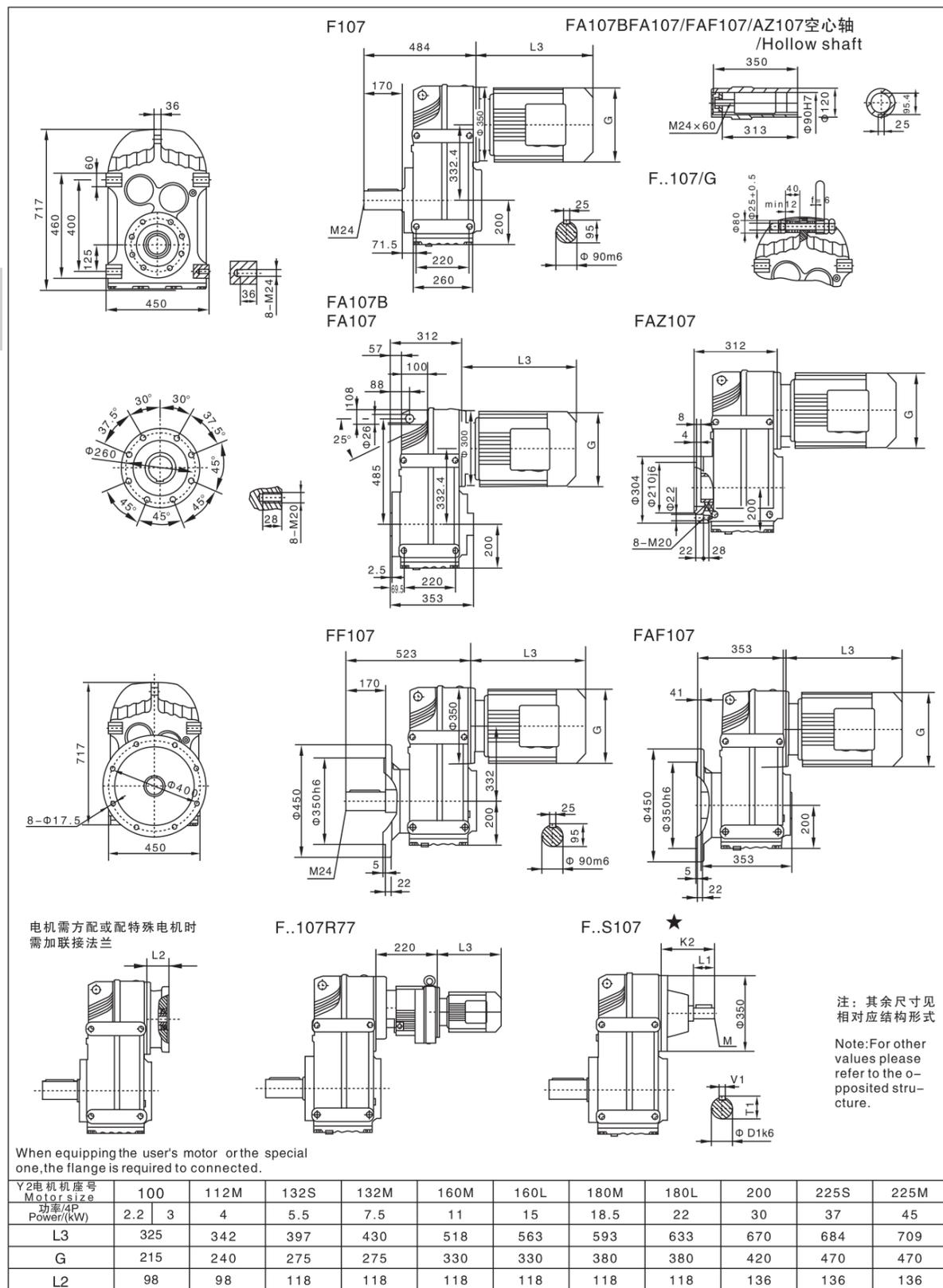
注:1.以上壳体为通用件,安装尺寸均可相互参照 2.F..表示FA, FF, FAF, FAZ
Note:1.The above housings are common parts.The mounting dimensions may consult each other. 2.STF..meanSTF, STFA, STFF, STFAF, STFAZ
★查15-16页 Search Page15-16 查表11: i=76-271查AD2 i=38-76查AD3 i=28-38查AD4 i=4-28查AD5

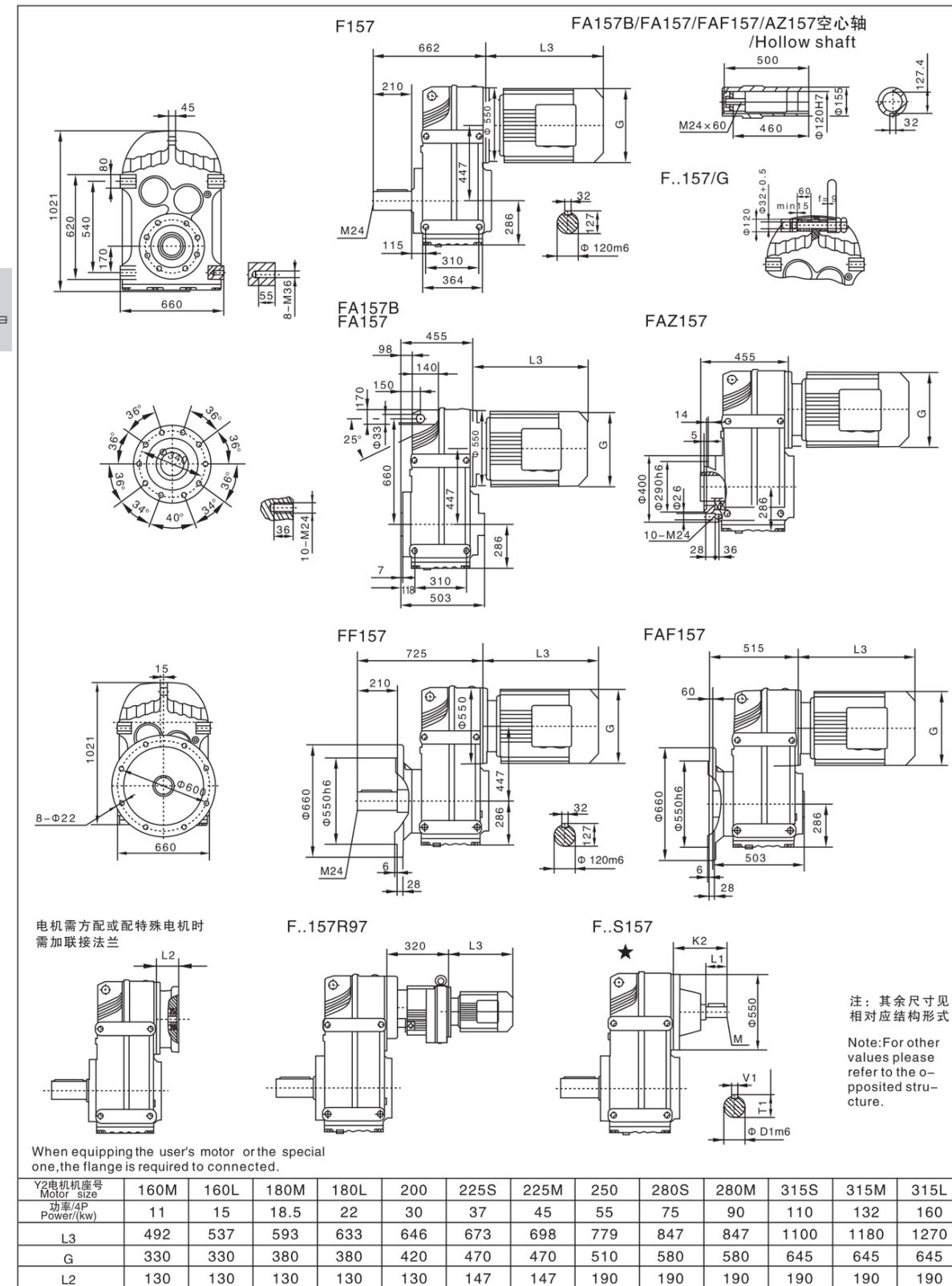


When equipping the user's motor or the special one, the flange is required to be connected.

Y2电机座号 Motor size	90S	90L	100	112N	132S	132M	160M	160L	180M	180L	200
功率/4P Power/(kW)	1.1	1.5	2.2	3	4	5.5	7.5	11	15	18.5	30
L3	276	301	322	342	411	444	529	574	593	633	670
G	195	195	215	240	275	275	330	330	380	380	420
L2			88	88	96	96	116	116	116	116	

注:1.以上壳体为通用件,安装尺寸均可相互参照 2.F..表示FA, FF, FAF, FAZ
Note:1.The above housings are common parts.The mounting dimensions may consult each other. 2.STF..meanSTF, STFA, STFF, STFAF, STFAZ
★查15-16页Search Page15-16 查表11: i=70-277查AD3 i=36-70查AD4 i=15-36查AD5 i=4.5-15查AD6

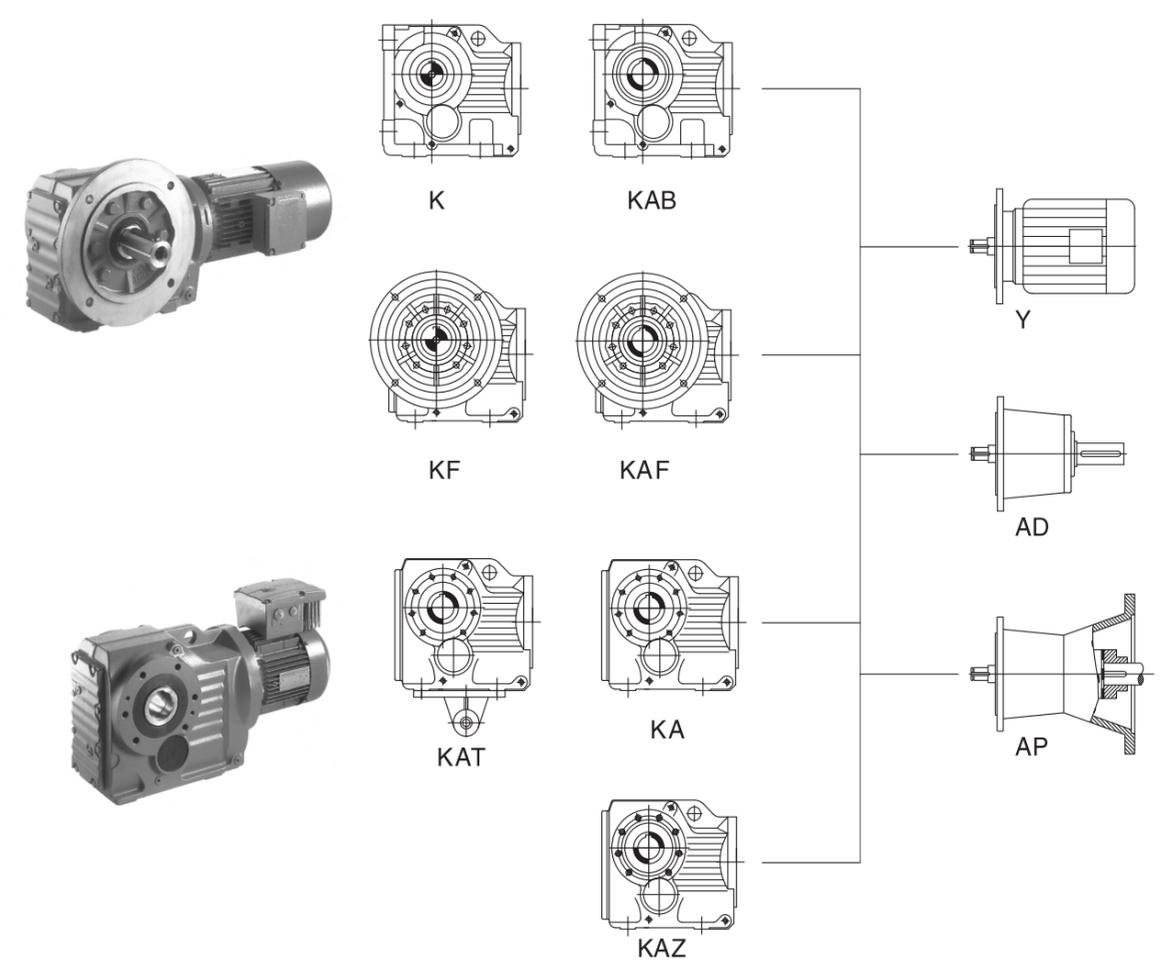




K 系列

斜齿轮—螺旋伞齿轮减速机

K series Helical-bevel gear units

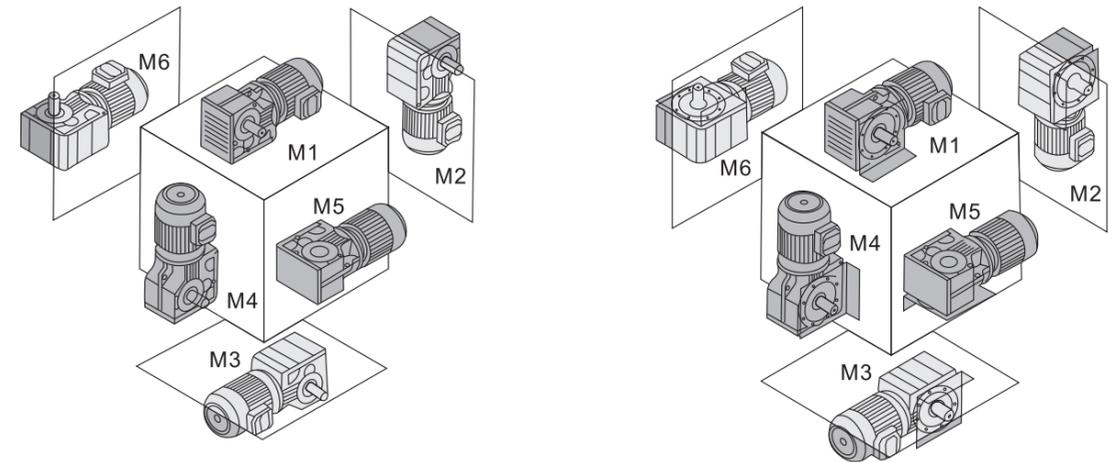


注: 1.以上壳体为通用件, 安装尺寸均可相互参照 2. "F" 表示F, FA, STFF, AF, FAZ
 Note: 1. The above housings are common parts. The mounting dimensions may consult each other. 2. "F" mean F, FA, STFF, AF, FAZ
 * 查15-16页 Search Page15-16 查表11: i=53-268查AD5 i=35-53查AD6 i=29-35查AD7 i=10-29查AD8

型号与标记:

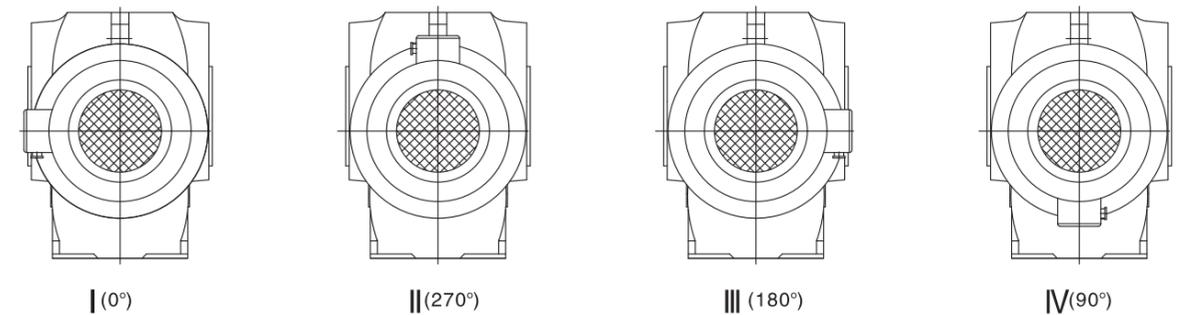
Type Designations:

<p>K A 37-Y 0.37-4P-29.96-M1-I-A</p>	<p>K A 37-Y 0.37-4P-29.96-M1-I-A</p>
<p>减速机类型 结构形式 机座号 电机代号 电机功率、极数 传动比 安装形式 电机接线盒位置 输出轴或法兰方向</p>	<p>Gear units type Structure Size Motor code Motor power, pole Ratio Mounting position Position of the motor thermal box Position of output shaft or flange</p>
<p>减速机类型: 螺旋锥齿轮减速机</p>	<p>Gear units type: Helical-bevel gear units</p>
<p>结构形式: 普通轴伸式(省略) 轴装式 A 轴伸法兰式 F 轴装法兰式 AF 轴装小法兰式 AZ 轴装底脚式 AB 轴装带扭力臂 AT</p>	<p>Structure: Foot-mounted solid shaft output (I) Hollow shaft output A Flange-mounted solid shaft output F Flange-mounted hollow shaft output AF Short-flange-mounted hollow shaft output AZ Foot-mounted hollow shaft output AB Torque-arm-mounted hollow shaft output AT</p>
<p>机座号: (见选型参数表)</p>	<p>Size: (see selection table)</p>
<p>电机代号: 普通(更新) Y(Y2) 防爆 B 直流 Z 制动 E 多速 D 变频 V 分马力 F 增安 A 电磁调速 C 冶金起重 R 变频制动 VE 辊道 G 法兰输入 AP 轴输入 AD</p>	<p>Motor code: Ordinary(renew) Y(Y2) Flame-proof B Direct current Z Brake E Multi-speed D Variable frequency V Power-divided F Ampere-increased A Electromagnetism speed modulation C Hoisting in metallurgy R Variable frequency and brake VE Roller tables G Flange input AP Shaft input AD</p>
<p>电机功率、极数: (见选型参数表)</p>	<p>Motor power, pole: (see selection table)</p>
<p>传动比: (见选型参数表)</p>	<p>Ratio: (see selection table)</p>
<p>安装形式: M1、M2、M3、M4、M5、M6</p>	<p>Mounting position: M1、M2、M3、M4、M5、M6</p>
<p>电机接线盒位置: I、II、III、IV</p>	<p>Position of the motor thermal box: I、II、III、IV</p>
<p>输出轴或法兰方向: 从电机尾部看左边为 A 从电机尾部看右边为 B (见安装形式) 从电机尾部左右边为A+B</p>	<p>Position of output shaft or flange: viewing on motor end:left side-A, right side-B,both sides-A+B(see mounting position)</p>



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

机型号 Gear unit type	37	47	57	67	77	87	97	107	127	157	167	187
结构形式 Structure	K KA KF KAF KAZ KAT KAB											
输入功率 Input power rating (kw)	0.12~3.0	0.18~3.0	0.18~5.5	0.18~5.5	0.37~11	0.75~22	1.1~30	3~45	7.5~90	11~160	11~200	18.5~200
传动比 Ratio	5.36~106.38	5.81~131.87	6.57~145.14	7.28~144.79	7.24~192.18	7.21~197.37	8.71~176.05	8.69~143.47	8.68~146.07	12.65~150.41	17.34~164.50	17.18~179.86
许用转矩(N.m) Permissible torque	200	400	600	820	1550	2700	4300	8000	13000	18000	32000	50000

减速机重量

Gear unit weight

机型号 Gear unit type	K37	K47	K57	K67	K77	K87	K97	K107	K127	K157	K167	K187
重量(kg) Weight	11	20	27	33	57	85	130	250	380	610	1015	1700

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

K Series Selection parameter table

K系列选型参数表

K系列选型参数表

K Series Selection parameter table

Table with 12 columns: Output speed, Output torque, Ratio, Service factor, Type, Pole, Output speed, Output torque, Ratio, Service factor, Type, Pole. It is split into 0.37kW and 0.55kW sections.

Table with 12 columns: Output speed, Output torque, Ratio, Service factor, Type, Pole, Output speed, Output torque, Ratio, Service factor, Type, Pole. It is split into 0.55kW and 0.75kW sections.

K Series Selection parameter table

输出转速 Output speed r/min	输出扭矩 Output torque N.m	传动比 Ratio i	使用系数 Service factor f _s	机型号 Type	极数 Pole	输出转速 Output speed r/min	输出扭矩 Output torque N.m	传动比 Ratio i	使用系数 Service factor f _s	机型号 Type	极数 Pole																																																																																																																																																																																																																																																																																																																																																																						
90kW						132kW																																																																																																																																																																																																																																																																																																																																																																											
14	59300	102.16	0.85	K187 KH187	4	20	62800	73.96	0.80	K187 KH187	4																																																																																																																																																																																																																																																																																																																																																																						
17	51100	88.00	1.00			20	42900	73.96	1.15			23	37200	64.04	1.35	28	31000	53.36	1.60	33	26400	45.50	1.90	35	24700	42.51	2.0	38	22400	38.57	2.2	22	39500	68.07	0.80	K167 KH167	4	35	36400	42.89	0.90	K167 KH167	4	24	35300	60.74	0.90	29	30100	51.77	1.05	35	24900	42.89	1.30	40	21300	36.61	1.50	46	18700	32.55	1.70	51	16700	28.77	1.90	60	14200	24.52	2.2	73	11800	20.32	2.7	85	10100	17.34	3.2	39	22100	38.02	0.80	K157	4	62	20300	23.95	0.90	K157	4	47	18200	31.30	1.00	54	16000	27.62	1.10	62	13900	23.95	1.30	69	12400	21.31	1.45	81	10700	18.37	1.70	99	8670	14.92	2.1	117	7350	12.65	2.3	62	13900	23.91	0.95	K127	4	160kW						70	12300	21.15	1.05	83	10300	17.77	1.25	103	8330	14.35	1.45	116	7420	12.79	1.15	138	6240	10.74	1.30	171	5040	8.68	1.45	28	54900	53.36	0.90	K187 KH187	4	33	46800	45.50	1.05	K187 KH187	4	33	46800	45.50	1.05	45	34200	33.23	1.45	53	28700	27.92	1.75	61	24900	24.18	1.90	74	20700	20.15	2.1	86	17700	17.18	2.3	41	37700	36.61	0.85	K167	4	200kW						61	25200	24.52	1.25	73	20900	20.32	1.55	86	17800	17.34	1.80	81	18900	18.37	0.95	K157	4	33	58500	45.50	0.85	K157	4	100	15400	14.92	1.15	117	13000	12.65	1.30	45	42700	33.23	1.15	53	35900	27.92	1.40	61	31100	24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00	K167	4	73	26100	20.32	1.20	86	22300	17.34	1.45	100	19200	14.92	0.95	K157	4	73	26100	20.32	1.20	K157	4	117	16300	12.65	1.05	117	16300	12.65	1.05	117	16300	12.65	1.05																																																																						
20	42900	73.96	1.15			23	37200	64.04	1.35			28	31000	53.36	1.60	33	26400	45.50	1.90	35	24700	42.51	2.0	38	22400	38.57	2.2	22	39500	68.07	0.80	K167 KH167	4	35	36400			42.89	0.90	K167 KH167	4			24	35300	60.74	0.90	29	30100	51.77	1.05	35	24900	42.89	1.30	40	21300	36.61	1.50	46	18700	32.55	1.70	51	16700	28.77	1.90	60	14200	24.52	2.2	73	11800	20.32	2.7	85	10100	17.34	3.2	39	22100	38.02	0.80			K157	4	62	20300			23.95	0.90	K157	4	47	18200	31.30	1.00	54	16000	27.62	1.10	62	13900	23.95	1.30	69	12400	21.31	1.45	81	10700	18.37	1.70	99	8670	14.92	2.1	117	7350	12.65	2.3			62	13900	23.91	0.95	K127	4	160kW						70	12300	21.15	1.05	83	10300	17.77	1.25	103	8330	14.35	1.45	116	7420	12.79	1.15	138	6240	10.74	1.30	171	5040			8.68	1.45	28	54900			53.36	0.90	K187 KH187	4	33	46800	45.50	1.05	K187 KH187	4	33	46800	45.50	1.05	45	34200	33.23	1.45	53	28700	27.92	1.75	61	24900	24.18	1.90	74	20700			20.15	2.1	86	17700	17.18	2.3	41	37700	36.61	0.85	K167	4	200kW						61	25200	24.52	1.25			73	20900	20.32	1.55			86	17800	17.34	1.80	81	18900	18.37	0.95	K157	4	33	58500	45.50	0.85	K157	4	100	15400	14.92	1.15	117	13000	12.65	1.30	45	42700	33.23	1.15	53	35900	27.92	1.40			61	31100	24.18	1.55			74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00			K167	4	61	31500			24.52	1.00	K167	4	73	26100	20.32	1.20	86	22300	17.34	1.45	100	19200	14.92	0.95	K157	4	73	26100	20.32	1.20	K157	4	117	16300	12.65	1.05	117	16300	12.65	1.05	117	16300	12.65	1.05																																														
23	37200	64.04	1.35			28	31000	53.36	1.60			33	26400	45.50	1.90	35	24700	42.51	2.0	38	22400	38.57	2.2	22	39500	68.07	0.80	K167 KH167	4	35	36400			42.89	0.90			K167 KH167	4					24	35300	60.74	0.90	29	30100	51.77	1.05	35	24900	42.89	1.30	40	21300	36.61	1.50	46	18700	32.55	1.70	51	16700	28.77	1.90	60	14200	24.52	2.2	73	11800	20.32	2.7	85	10100	17.34	3.2	39	22100	38.02	0.80					K157	4			62	20300			23.95	0.90	K157	4	47	18200	31.30	1.00	54	16000	27.62	1.10	62	13900	23.95	1.30	69	12400	21.31	1.45	81	10700	18.37	1.70	99	8670	14.92	2.1			117	7350	12.65	2.3			62	13900	23.91	0.95	K127	4	160kW						70	12300	21.15	1.05	83	10300	17.77	1.25	103	8330	14.35	1.45	116	7420	12.79	1.15			138	6240	10.74	1.30			171	5040			8.68	1.45	28	54900			53.36	0.90	K187 KH187	4	33	46800	45.50	1.05	K187 KH187	4	33	46800	45.50	1.05	45	34200	33.23	1.45			53	28700	27.92	1.75	61	24900	24.18	1.90	74	20700			20.15	2.1	86	17700	17.18	2.3	41	37700	36.61	0.85			K167	4	200kW						61	25200	24.52	1.25	73	20900			20.32	1.55	86	17800			17.34	1.80	81	18900	18.37	0.95	K157	4	33	58500	45.50	0.85	K157	4	100	15400			14.92	1.15	117	13000			12.65	1.30	45	42700	33.23	1.15	53	35900	27.92	1.40	61	31100					24.18	1.55			74	25900			20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4			61	31500	24.52	1.00			K167	4	73	26100	20.32	1.20	86	22300	17.34	1.45	100	19200	14.92	0.95	K157	4	73	26100	20.32	1.20	K157	4	117	16300	12.65	1.05	117	16300	12.65	1.05	117	16300	12.65	1.05																								
28	31000	53.36	1.60		33	26400	45.50	1.90	35		24700	42.51	2.0	38	22400	38.57	2.2	22	39500	68.07	0.80	K167 KH167	4	35	36400	42.89	0.90			K167 KH167	4			24	35300									60.74	0.90	29	30100	51.77	1.05	35	24900	42.89	1.30	40	21300	36.61	1.50	46	18700	32.55	1.70	51	16700	28.77	1.90	60	14200	24.52	2.2	73	11800	20.32	2.7	85	10100	17.34	3.2	39	22100	38.02	0.80	K157	4									62	20300			23.95	0.90			K157	4	47	18200	31.30	1.00	54	16000	27.62	1.10	62	13900	23.95	1.30	69	12400	21.31	1.45	81	10700	18.37	1.70	99	8670			14.92	2.1	117	7350			12.65	2.3	62	13900			23.91	0.95	K127	4	160kW						70	12300	21.15	1.05	83	10300	17.77	1.25	103	8330	14.35	1.45			116	7420	12.79	1.15			138	6240			10.74	1.30	171	5040			8.68	1.45			28	54900	53.36	0.90			K187 KH187	4	33	46800	45.50	1.05	K187 KH187	4			33	46800	45.50	1.05	45	34200	33.23	1.45	53	28700			27.92	1.75	61	24900	24.18	1.90	74	20700	20.15	2.1					86	17700			17.18	2.3	41	37700	36.61	0.85	K167	4			200kW						61	25200	24.52	1.25	73	20900			20.32	1.55	86	17800			17.34	1.80	81	18900	18.37	0.95	K157	4	33	58500	45.50	0.85	K157	4	100	15400	14.92	1.15	117	13000	12.65	1.30					45	42700			33.23	1.15			53	35900	27.92	1.40	61	31100	24.18	1.55	74	25900					20.15	1.70	86	22100					17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00			K167	4	73	26100			20.32	1.20	86	22300	17.34	1.45	100	19200	14.92	0.95	K157	4	73	26100	20.32	1.20	K157	4	117	16300	12.65	1.05	117	16300	12.65	1.05	117	16300	12.65	1.05						
33	26400	45.50	1.90		35	24700	42.51	2.0	38		22400	38.57	2.2	22	39500	68.07	0.80	K167 KH167	4	35	36400			42.89	0.90	K167 KH167	4							24	35300		60.74						0.90	29	30100	51.77	1.05	35	24900	42.89	1.30	40	21300	36.61	1.50	46	18700	32.55	1.70	51	16700	28.77	1.90	60	14200	24.52	2.2	73	11800	20.32	2.7	85	10100	17.34	3.2	39	22100	38.02	0.80	K157	4											62	20300			23.95	0.90					K157	4	47	18200	31.30	1.00	54	16000	27.62	1.10	62	13900	23.95	1.30	69	12400	21.31	1.45	81	10700	18.37	1.70			99	8670	14.92	2.1			117	7350	12.65	2.3			62	13900			23.91	0.95	K127	4	160kW						70	12300	21.15	1.05	83	10300	17.77	1.25			103	8330	14.35	1.45			116	7420			12.79	1.15	138	6240			10.74	1.30			171	5040	8.68	1.45					28	54900	53.36	0.90			K187 KH187	4	33	46800	45.50	1.05	K187 KH187	4	33	46800	45.50	1.05			45	34200	33.23	1.45	53	28700	27.92	1.75	61	24900					24.18	1.90			74	20700	20.15	2.1	86	17700					17.18	2.3	41	37700			36.61	0.85	K167	4	200kW						61	25200			24.52	1.25	73	20900	20.32	1.55			86	17800	17.34	1.80			81	18900	18.37	0.95	K157	4	33	58500	45.50	0.85	K157	4	100	15400	14.92	1.15	117	13000	12.65	1.30	45	42700	33.23	1.15	53	35900	27.92	1.40	61	31100					24.18	1.55	74	25900					20.15	1.70	86	22100	17.18	1.85			61	31500	24.52	1.00					K167	4			61	31500	24.52	1.00	K167	4	73	26100	20.32	1.20			86	22300	17.34	1.45			100	19200	14.92	0.95	K157	4	73	26100	20.32	1.20	K157	4	117	16300	12.65	1.05	117	16300
35	24700	42.51	2.0		38	22400	38.57	2.2	22		39500	68.07	0.80	K167 KH167	4	35	36400			42.89	0.90			K167 KH167	4								24	35300	60.74		0.90				29		30100	51.77	1.05	35	24900	42.89	1.30	40	21300	36.61	1.50	46	18700	32.55	1.70	51	16700	28.77	1.90	60	14200	24.52	2.2	73	11800	20.32	2.7	85	10100	17.34	3.2	39	22100	38.02	0.80	K157	4													62	20300			23.95	0.90							K157	4	47	18200	31.30	1.00	54	16000	27.62	1.10	62	13900	23.95	1.30	69	12400	21.31	1.45	81	10700			18.37	1.70	99	8670			14.92	2.1	117	7350			12.65	2.3			62	13900			23.91	0.95	K127	4	160kW						70	12300	21.15	1.05			83	10300	17.77	1.25			103	8330			14.35	1.45	116	7420			12.79	1.15			138	6240	10.74	1.30					171	5040	8.68	1.45					28	54900	53.36	0.90			K187 KH187	4	33	46800	45.50	1.05	K187 KH187	4	33	46800	45.50	1.05	45	34200	33.23	1.45	53	28700			27.92	1.75	61	24900	24.18	1.90	74	20700	20.15	2.1					86	17700	17.18	2.3			41	37700			36.61	0.85			K167	4	200kW						61	25200	24.52	1.25			73	20900	20.32	1.55			86	17800	17.34	1.80			81	18900	18.37	0.95			K157	4	33	58500	45.50	0.85	K157	4	100	15400	14.92	1.15	117	13000	12.65	1.30	45	42700	33.23	1.15	53	35900	27.92	1.40	61	31100	24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85			61	31500	24.52	1.00									K167	4	61	31500			24.52	1.00	K167	4			73	26100	20.32	1.20			86	22300	17.34	1.45			100	19200	14.92	0.95			K157	4	73	26100	20.32	1.20
38	22400	38.57	2.2		22	39500	68.07	0.80	K167 KH167		4	35	36400			42.89	0.90			K167 KH167	4								24				35300	60.74	0.90		29		30100		51.77		1.05	35	24900	42.89	1.30	40	21300	36.61	1.50	46	18700	32.55	1.70	51	16700	28.77	1.90	60	14200	24.52	2.2	73	11800	20.32	2.7	85	10100	17.34	3.2	39	22100	38.02	0.80	K157	4															62	20300			23.95	0.90									K157	4	47	18200	31.30	1.00	54	16000	27.62	1.10	62	13900	23.95	1.30	69	12400	21.31	1.45			81	10700	18.37	1.70			99	8670	14.92	2.1			117	7350			12.65	2.3			62	13900			23.91	0.95	K127	4	160kW								70	12300	21.15	1.05			83	10300			17.77	1.25	103	8330			14.35	1.45			116	7420	12.79	1.15					138	6240	10.74	1.30					171	5040	8.68	1.45					28	54900	53.36	0.90			K187 KH187	4	33	46800	45.50	1.05	K187 KH187	4	33	46800	45.50	1.05	45	34200	33.23	1.45	53	28700	27.92	1.75	61	24900			24.18	1.90	74	20700	20.15	2.1	86	17700	17.18	2.3			41	37700					36.61	0.85			K167	4	200kW						61	25200	24.52	1.25			73	20900	20.32	1.55			86	17800	17.34	1.80					81	18900	18.37	0.95			K157	4	33	58500	45.50	0.85	K157	4	100	15400	14.92	1.15	117	13000	12.65	1.30	45	42700	33.23	1.15	53	35900	27.92	1.40	61	31100	24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500			24.52	1.00			K167	4			61	31500					24.52	1.00	K167	4			73	26100	20.32	1.20			86	22300	17.34	1.45					100	19200	14.92	0.95
22	39500	68.07	0.80	K167 KH167	4	35	36400	42.89		0.90		K167 KH167	4																																																																																																																																																																																																																																																																																																																																																																				
24	35300	60.74	0.90			29	30100	51.77		1.05						35	24900		42.89				1.30				40		21300		36.61		1.50	46	18700		32.55		1.70		51		16700	28.77	1.90	60	14200	24.52	2.2	73	11800	20.32	2.7	85	10100	17.34	3.2	39	22100	38.02	0.80	K157	4	62	20300	23.95	0.90	K157	4	47	18200	31.30	1.00	54	16000									27.62	1.10	62	13900			23.95	1.30	69	12400	21.31	1.45	81	10700											18.37	1.70	99	8670	14.92	2.1	117	7350	12.65	2.3	62	13900	23.91	0.95	K127	4	160kW						70	12300	21.15	1.05	83	10300			17.77	1.25			103	8330			14.35	1.45			116	7420			12.79	1.15	138	6240	10.74	1.30	171	5040	8.68	1.45	28	54900	53.36	0.90	K187 KH187	4	33	46800	45.50	1.05	K187 KH187	4	33	46800	45.50	1.05			45	34200	33.23	1.45					53	28700	27.92	1.75					61	24900	24.18	1.90					74	20700	20.15	2.1					86	17700	17.18	2.3			41	37700	36.61	0.85	K167	4	200kW						61	25200	24.52	1.25	73	20900	20.32	1.55	86	17800	17.34	1.80	81	18900	18.37	0.95	K157	4	33	58500			45.50	0.85	K157	4			100	15400	14.92	1.15	117	13000	12.65	1.30	45	42700	33.23	1.15	53	35900	27.92	1.40			61	31100	24.18	1.55					74	25900	20.15	1.70					86	22100	17.18	1.85			61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00	K167	4	73	26100	20.32	1.20	86	22300	17.34	1.45	100	19200	14.92	0.95	K157	4	73	26100	20.32	1.20	K157	4	117	16300	12.65	1.05			117	16300	12.65	1.05	117	16300	12.65	1.05																								
29	30100	51.77	1.05			35	24900	42.89		1.30					40	21300	36.61		1.50				46		18700		32.55		1.70		51		16700	28.77	1.90		60		14200		24.52		2.2	73	11800	20.32	2.7	85	10100	17.34	3.2	39	22100	38.02	0.80	K157	4	62	20300	23.95	0.90			K157	4	47	18200			31.30	1.00	54	16000	27.62	1.10									62	13900	23.95	1.30	69	12400	21.31	1.45	81	10700	18.37	1.70	99	8670	14.92	2.1									117	7350	12.65	2.3	62	13900	23.91	0.95	K127	4	160kW						70	12300	21.15	1.05	83	10300	17.77	1.25	103	8330	14.35	1.45	116	7420	12.79	1.15			138	6240			10.74	1.30			171	5040			8.68	1.45	28	54900	53.36	0.90	K187 KH187	4	33	46800	45.50	1.05	K187 KH187	4			33	46800	45.50	1.05			45	34200	33.23	1.45	53	28700	27.92	1.75	61	24900	24.18	1.90			74	20700	20.15	2.1					86	17700	17.18	2.3					41	37700	36.61	0.85					K167	4	200kW						61	25200			24.52	1.25	73	20900	20.32	1.55	86	17800	17.34	1.80	81	18900	18.37	0.95	K157	4	33	58500	45.50	0.85	K157	4			100	15400	14.92	1.15	117	13000					12.65	1.30	45	42700	33.23	1.15	53	35900	27.92	1.40	61	31100	24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500			24.52	1.00	K167	4					61	31500	24.52	1.00			K167	4	73	26100			20.32	1.20	86	22300			17.34	1.45	100	19200	14.92	0.95	K157	4	73	26100	20.32	1.20			K157	4	117	16300			12.65	1.05	117	16300	12.65	1.05	117	16300	12.65	1.05																												
35	24900	42.89	1.30			40	21300	36.61		1.50	46				18700	32.55	1.70		51		16700		28.77		1.90		60		14200		24.52		2.2	73	11800	20.32	2.7		85		10100	17.34	3.2	39	22100	38.02	0.80	K157	4	62	20300	23.95	0.90	K157	4			47	18200	31.30	1.00					54	16000			27.62	1.10	62	13900	23.95	1.30							69	12400	21.31	1.45	81	10700	18.37	1.70	99	8670	14.92	2.1	117	7350	12.65	2.3	62	13900	23.91	0.95							K127	4	160kW								70	12300	21.15	1.05			83	10300	17.77	1.25	103	8330	14.35	1.45	116	7420	12.79	1.15	138	6240	10.74	1.30	171	5040	8.68	1.45			28	54900			53.36	0.90			K187 KH187	4	33	46800	45.50	1.05			K187 KH187	4	33	46800					45.50	1.05	45	34200			33.23	1.45	53	28700	27.92	1.75	61	24900	24.18	1.90	74	20700	20.15	2.1	86	17700	17.18	2.3	41	37700			36.61	0.85	K167	4					200kW										61	25200			24.52	1.25	73	20900			20.32	1.55	86	17800	17.34	1.80	81	18900	18.37	0.95	K157	4	33	58500			45.50	0.85	K157	4					100	15400	14.92	1.15	117	13000			12.65	1.30	45	42700	33.23	1.15	53	35900	27.92	1.40	61	31100	24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500			24.52	1.00			K167	4	73	26100					20.32	1.20			86	22300	17.34	1.45			100	19200	14.92	0.95	K157	4			73	26100	20.32	1.20					K157	4			117	16300	12.65	1.05	117	16300	12.65	1.05	117	16300	12.65	1.05																										
40	21300	36.61	1.50		46	18700	32.55	1.70		51	16700		28.77		1.90	60	14200		24.52		2.2		73		11800		20.32		2.7		85	10100	17.34	3.2	39	22100	38.02		0.80	K157	4	62	20300	23.95	0.90	K157	4			47	18200	31.30	1.00					54	16000	27.62	1.10					62	13900			23.95	1.30	69	12400	21.31	1.45					81	10700	18.37	1.70	99	8670	14.92	2.1	117	7350	12.65	2.3	62	13900	23.91	0.95	K127	4	160kW												70	12300	21.15	1.05	83	10300			17.77	1.25	103	8330			14.35	1.45	116	7420	12.79	1.15	138	6240	10.74	1.30	171	5040	8.68	1.45	28	54900	53.36	0.90	K187 KH187	4	33	46800	45.50	1.05			K187 KH187	4					33	46800	45.50	1.05					45	34200					33.23	1.45	53	28700			27.92	1.75	61	24900	24.18	1.90	74	20700	20.15	2.1	86	17700	17.18	2.3	41	37700	36.61	0.85	K167	4	200kW						61	25200			24.52	1.25	73	20900							20.32	1.55			86	17800	17.34	1.80			81	18900	18.37	0.95	K157	4	33	58500	45.50	0.85			K157	4			100	15400							14.92	1.15	117	13000	12.65	1.30			45	42700	33.23	1.15	53	35900	27.92	1.40	61	31100	24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4			61	31500			24.52	1.00	K167	4			73	26100	20.32	1.20			86	22300	17.34	1.45	100	19200	14.92	0.95	K157	4	73	26100	20.32	1.20					K157	4	117	16300									12.65	1.05	117	16300	12.65	1.05	117	16300	12.65	1.05																												
46	18700	32.55	1.70		51	16700	28.77	1.90		60	14200		24.52		2.2	73	11800		20.32		2.7		85		10100		17.34	3.2	39		22100	38.02	0.80	K157	4	62	20300	23.95	0.90			K157	4	47	18200					31.30	1.00	54	16000					27.62	1.10	62	13900					23.95	1.30			69	12400	21.31	1.45	81	10700			18.37	1.70	99	8670	14.92	2.1	117	7350	12.65	2.3	62	13900	23.91	0.95	K127	4	160kW						70	12300	21.15	1.05	83	10300					17.77	1.25	103	8330	14.35	1.45			116	7420	12.79	1.15			138	6240	10.74	1.30	171	5040	8.68	1.45	28	54900	53.36	0.90	K187 KH187	4	33	46800	45.50	1.05			K187 KH187	4	33	46800	45.50	1.05							45	34200	33.23	1.45					53	28700					27.92	1.75	61	24900			24.18	1.90	74	20700	20.15	2.1	86	17700	17.18	2.3	41	37700	36.61	0.85	K167	4	200kW						61	25200			24.52	1.25	73	20900	20.32	1.55	86	17800	17.34	1.80					81	18900			18.37	0.95	K157	4	33	58500	45.50	0.85	K157	4			100	15400	14.92	1.15							117	13000							12.65	1.30	45	42700	33.23	1.15			53	35900	27.92	1.40	61	31100	24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500					24.52	1.00	K167	4	73	26100					20.32	1.20	86	22300	17.34	1.45	100	19200	14.92	0.95	K157	4	73	26100			20.32	1.20	K157	4							117	16300	12.65	1.05					117	16300	12.65	1.05	117	16300	12.65	1.05																																
51	16700	28.77	1.90		60	14200	24.52	2.2		73	11800		20.32		2.7	85	10100		17.34		3.2	39	22100		38.02		0.80	K157	4	62	20300	23.95	0.90			K157	4	47	18200					31.30	1.00					54	16000	27.62	1.10					62	13900	23.95	1.30					69	12400			21.31	1.45	81	10700	18.37	1.70	99	8670	14.92	2.1	117	7350	12.65	2.3	62	13900	23.91	0.95	K127	4	160kW								70	12300	21.15	1.05	83	10300	17.77	1.25	103	8330			14.35	1.45	116	7420	12.79	1.15			138	6240	10.74	1.30			171	5040	8.68	1.45	28	54900	53.36	0.90	K187 KH187	4	33	46800			45.50	1.05	K187 KH187	4					33	46800	45.50	1.05			45	34200			33.23	1.45	53	28700					27.92	1.75					61	24900	24.18	1.90			74	20700	20.15	2.1	86	17700	17.18	2.3	41	37700	36.61	0.85	K167	4			200kW						61	25200			24.52	1.25	73	20900	20.32	1.55	86	17800	17.34	1.80	81	18900	18.37	0.95	K157	4	33	58500	45.50	0.85			K157	4	100	15400					14.92	1.15	117	13000							12.65	1.30					45	42700	33.23	1.15	53	35900	27.92	1.40	61	31100	24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00			K167	4			73	26100	20.32	1.20			86	22300			17.34	1.45	100	19200	14.92	0.95	K157	4	73	26100	20.32	1.20			K157	4			117	16300					12.65	1.05			117	16300	12.65	1.05	117	16300			12.65	1.05																																						
60	14200	24.52	2.2		73	11800	20.32	2.7		85	10100		17.34		3.2	39	22100	38.02	0.80		K157	4	62		20300	23.95	0.90			K157	4	47	18200					31.30	1.00					54	16000					27.62	1.10	62	13900					23.95	1.30	69	12400					21.31	1.45			81	10700	18.37	1.70	99	8670	14.92	2.1	117	7350	12.65	2.3	62	13900	23.91	0.95	K127	4			160kW								70	12300	21.15	1.05	83	10300	17.77	1.25	103	8330			14.35	1.45	116	7420	12.79	1.15			138	6240	10.74	1.30			171	5040	8.68	1.45	28	54900	53.36	0.90			K187 KH187	4			33	46800							45.50	1.05	K187 KH187	4			33	46800			45.50	1.05	45	34200					33.23	1.45					53	28700	27.92	1.75			61	24900	24.18	1.90	74	20700	20.15	2.1	86	17700	17.18	2.3					41	37700			36.61	0.85	K167	4	200kW						61	25200	24.52	1.25	73	20900	20.32	1.55	86	17800			17.34	1.80	81	18900					18.37	0.95					K157	4	33	58500					45.50	0.85	K157	4			100	15400	14.92	1.15	117	13000	12.65	1.30	45	42700	33.23	1.15	53	35900	27.92	1.40	61	31100	24.18	1.55	74	25900	20.15	1.70	86	22100			17.18	1.85	61	31500					24.52	1.00	K167	4	61	31500			24.52	1.00	K167	4	73	26100	20.32	1.20	86	22300			17.34	1.45	100	19200							14.92	0.95			K157	4	73	26100			20.32	1.20	K157	4	117	16300	12.65	1.05	117	16300	12.65	1.05	117	16300	12.65	1.05																																
73	11800	20.32	2.7		85	10100	17.34	3.2		39	22100		38.02	0.80	K157	4	62	20300	23.95				0.90	K157	4	47	18200					31.30	1.00					54	16000					27.62	1.10					62	13900	23.95	1.30					69	12400	21.31	1.45	81	10700			18.37	1.70	99	8670	14.92	2.1	117	7350	12.65	2.3	62	13900	23.91	0.95	K127	4	160kW								70	12300			21.15	1.05			83	10300	17.77	1.25	103	8330	14.35	1.45	116	7420			12.79	1.15	138	6240	10.74	1.30			171	5040	8.68	1.45	28	54900	53.36	0.90	K187 KH187	4	33	46800	45.50	1.05							K187 KH187	4							33	46800					45.50	1.05			45	34200	33.23	1.45					53	28700			27.92	1.75	61	24900	24.18	1.90	74	20700	20.15	2.1	86	17700	17.18	2.3	41	37700	36.61	0.85	K167	4					200kW								61	25200	24.52	1.25	73	20900	20.32	1.55	86	17800	17.34	1.80	81	18900	18.37	0.95			K157	4	33	58500					45.50	0.85							K157	4	100	15400			14.92	1.15			117	13000	12.65	1.30	45	42700	33.23	1.15	53	35900	27.92	1.40	61	31100	24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00			K167	4	61	31500	24.52	1.00			K167	4			73	26100	20.32	1.20	86	22300			17.34	1.45	100	19200	14.92	0.95			K157	4	73	26100					20.32	1.20	K157	4					117	16300	12.65	1.05	117	16300			12.65	1.05	117	16300	12.65	1.05																																						
85	10100	17.34	3.2		39	22100	38.02	0.80	K157	4	62		20300	23.95			0.90	K157	4	47			18200			31.30	1.00					54	16000					27.62	1.10					62	13900					23.95	1.30	69	12400			21.31	1.45	81	10700	18.37	1.70	99	8670	14.92	2.1	117	7350	12.65	2.3	62	13900	23.91	0.95	K127	4	160kW						70	12300	21.15	1.05					83	10300			17.77	1.25			103	8330	14.35	1.45	116	7420	12.79	1.15	138	6240			10.74	1.30	171	5040	8.68	1.45	28	54900	53.36	0.90	K187 KH187	4	33	46800	45.50	1.05			K187 KH187	4	33	46800															45.50	1.05					45	34200			33.23	1.45	53	28700	27.92	1.75			61	24900	24.18	1.90	74	20700	20.15	2.1	86	17700	17.18	2.3	41	37700	36.61	0.85	K167	4	200kW								61	25200	24.52	1.25	73	20900	20.32	1.55			86	17800	17.34	1.80	81	18900	18.37	0.95	K157	4	33	58500	45.50	0.85	K157	4					100	15400					14.92	1.15			117	13000					12.65	1.30	45	42700	33.23	1.15			53	35900	27.92	1.40	61	31100	24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00	K167	4	73	26100			20.32	1.20	86	22300	17.34	1.45					100	19200	14.92	0.95	K157	4			73	26100	20.32	1.20	K157	4					117	16300	12.65	1.05			117	16300			12.65	1.05			117	16300	12.65	1.05																																																
39	22100	38.02	0.80	K157	4	62	20300	23.95			0.90	K157	4																																																																																																																																																																																																																																																																																																																																																																				
47	18200	31.30	1.00			54	16000	27.62			1.10			62			13900			23.95			1.30			69	12400					21.31	1.45					81	10700	18.37	1.70			99	8670	14.92	2.1	117	7350	12.65	2.3	62	13900	23.91	0.95	K127	4	160kW						70	12300	21.15	1.05	83	10300	17.77	1.25	103	8330			14.35	1.45	116	7420			12.79	1.15	138	6240					10.74	1.30			171	5040	8.68	1.45	28	54900	53.36	0.90	K187 KH187	4	33	46800	45.50	1.05	K187 KH187	4	33	46800	45.50	1.05	45	34200	33.23	1.45	53	28700			27.92	1.75	61	24900					24.18	1.90											74	20700			20.15	2.1			86	17700	17.18	2.3	41	37700	36.61	0.85	K167	4	200kW						61	25200	24.52	1.25	73	20900	20.32	1.55	86	17800	17.34	1.80	81	18900			18.37	0.95	K157	4			33	58500	45.50	0.85	K157	4	100	15400	14.92	1.15	117	13000	12.65	1.30	45	42700	33.23	1.15	53	35900			27.92	1.40	61	31100			24.18	1.55			74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00					K167	4	61	31500	24.52	1.00			K167	4	73	26100	20.32	1.20	86	22300	17.34	1.45	100	19200	14.92	0.95	K157	4	73	26100	20.32	1.20			K157	4	117	16300			12.65	1.05	117	16300	12.65	1.05	117	16300	12.65	1.05																																																																																								
54	16000	27.62	1.10			62	13900	23.95			1.30			69			12400			21.31			1.45			81	10700					18.37	1.70	99	8670			14.92	2.1	117	7350	12.65	2.3	62	13900	23.91	0.95	K127	4	160kW								70	12300	21.15	1.05	83	10300	17.77	1.25	103	8330	14.35	1.45	116	7420	12.79	1.15			138	6240	10.74	1.30			171	5040	8.68	1.45					28	54900	53.36	0.90	K187 KH187	4	33	46800	45.50	1.05	K187 KH187	4			33	46800	45.50	1.05			45	34200	33.23	1.45	53	28700	27.92	1.75	61	24900			24.18	1.90	74	20700					20.15	2.1					86	17700					17.18	2.3	41	37700	36.61	0.85			K167	4	200kW								61	25200	24.52	1.25	73	20900	20.32	1.55	86	17800	17.34	1.80	81	18900	18.37	0.95	K157	4	33	58500			45.50	0.85			K157	4	100	15400	14.92	1.15			117	13000	12.65	1.30	45	42700	33.23	1.15	53	35900	27.92	1.40	61	31100			24.18	1.55	74	25900			20.15	1.70			86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00					K167	4	73	26100	20.32	1.20			86	22300	17.34	1.45	100	19200	14.92	0.95	K157	4	73	26100			20.32	1.20	K157	4	117	16300			12.65	1.05	117	16300	12.65	1.05	117	16300	12.65	1.05																																																																																												
62	13900	23.95	1.30			69	12400	21.31			1.45			81			10700			18.37			1.70			99	8670	14.92	2.1			117	7350	12.65	2.3	62	13900	23.91	0.95	K127	4	160kW								70	12300	21.15	1.05	83	10300			17.77	1.25	103	8330	14.35	1.45	116	7420	12.79	1.15	138	6240	10.74	1.30	171	5040			8.68	1.45	28	54900			53.36	0.90	K187 KH187	4			33	46800	45.50	1.05	K187 KH187	4			33	46800	45.50	1.05					45	34200	33.23	1.45			53	28700	27.92	1.75	61	24900	24.18	1.90	74	20700			20.15	2.1	86	17700					17.18	2.3	41	37700			36.61	0.85			K167	4	200kW										61	25200	24.52	1.25	73	20900			20.32	1.55	86	17800	17.34	1.80	81	18900	18.37	0.95	K157	4	33	58500	45.50	0.85			K157	4	100	15400	14.92	1.15					117	13000	12.65	1.30			45	42700	33.23	1.15	53	35900	27.92	1.40	61	31100	24.18	1.55	74	25900			20.15	1.70	86	22100			17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00			K167	4	73	26100	20.32	1.20					86	22300	17.34	1.45			100	19200	14.92	0.95	K157	4	73	26100			20.32	1.20			K157	4			117	16300			12.65	1.05	117	16300	12.65	1.05	117	16300	12.65	1.05																																																																																												
69	12400	21.31	1.45			81	10700	18.37			1.70			99			8670			14.92	2.1	117	7350			12.65	2.3	62	13900	23.91	0.95	K127	4	160kW								70	12300	21.15	1.05	83	10300			17.77	1.25	103	8330	14.35	1.45			116	7420	12.79	1.15	138	6240	10.74	1.30	171	5040	8.68	1.45	28	54900	53.36	0.90			K187 KH187	4	33	46800			45.50	1.05			K187 KH187	4	33	46800	45.50	1.05					45	34200	33.23	1.45					53	28700	27.92	1.75			61	24900	24.18	1.90	74	20700	20.15	2.1	86	17700			17.18	2.3	41	37700					36.61	0.85	K167	4	200kW								61	25200	24.52	1.25	73	20900	20.32	1.55			86	17800	17.34	1.80	81	18900			18.37	0.95	K157	4	33	58500	45.50	0.85	K157	4			100	15400	14.92	1.15					117	13000	12.65	1.30					45	42700	33.23	1.15			53	35900	27.92	1.40	61	31100	24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00	K167	4			73	26100	20.32	1.20					86	22300	17.34	1.45	100	19200			14.92	0.95	K157	4	73	26100	20.32	1.20	K157	4			117	16300			12.65	1.05							117	16300			12.65	1.05	117	16300	12.65	1.05																																																																																																
81	10700	18.37	1.70			99	8670	14.92			2.1			117	7350	12.65	2.3			62	13900	23.91	0.95	K127	4	160kW								70	12300	21.15	1.05	83	10300			17.77	1.25	103	8330	14.35	1.45			116	7420	12.79	1.15	138	6240			10.74	1.30	171	5040	8.68	1.45	28	54900	53.36	0.90	K187 KH187	4	33	46800	45.50	1.05					K187 KH187	4	33	46800	45.50	1.05					45	34200	33.23	1.45					53	28700	27.92	1.75					61	24900	24.18	1.90			74	20700	20.15	2.1	86	17700	17.18	2.3	41	37700			36.61	0.85	K167	4	200kW								61	25200	24.52	1.25	73	20900			20.32	1.55	86	17800	17.34	1.80	81	18900			18.37	0.95	K157	4	33	58500	45.50	0.85	K157	4			100	15400	14.92	1.15					117	13000	12.65	1.30					45	42700	33.23	1.15					53	35900	27.92	1.40			61	31100	24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500			24.52	1.00	K167	4					73	26100	20.32	1.20	86	22300			17.34	1.45	100	19200	14.92	0.95	K157	4	73	26100			20.32	1.20	K157	4					117	16300			12.65	1.05	117	16300					12.65	1.05	117	16300	12.65	1.05																																																																																																				
99	8670	14.92	2.1			117	7350	12.65	2.3	62	13900			23.91	0.95	K127	4	160kW								70	12300	21.15	1.05	83	10300			17.77	1.25	103	8330	14.35	1.45			116	7420	12.79	1.15	138	6240			10.74	1.30	171	5040	8.68	1.45			28	54900	53.36	0.90	K187 KH187	4	33	46800	45.50	1.05			K187 KH187	4	33	46800	45.50	1.05					45	34200	33.23	1.45					53	28700	27.92	1.75					61	24900	24.18	1.90					74	20700	20.15	2.1			86	17700	17.18	2.3	41	37700	36.61	0.85	K167	4	200kW						61	25200	24.52	1.25	73	20900			20.32	1.55	86	17800	17.34	1.80			81	18900	18.37	0.95	K157	4	33	58500	45.50	0.85	K157	4			100	15400	14.92	1.15					117	13000	12.65	1.30					45	42700	33.23	1.15					53	35900	27.92	1.40	61	31100			24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00	K167	4			73	26100			20.32	1.20					86	22300	17.34	1.45	100	19200	14.92	0.95	K157	4	73	26100	20.32	1.20	K157	4			117	16300			12.65	1.05							117	16300	12.65	1.05	117	16300	12.65	1.05																																																																																																														
117	7350	12.65	2.3	62	13900	23.91	0.95	K127	4	160kW								70	12300	21.15	1.05	83	10300			17.77	1.25	103	8330	14.35	1.45			116	7420	12.79	1.15	138	6240			10.74	1.30	171	5040	8.68	1.45			28	54900	53.36	0.90	K187 KH187	4			33	46800	45.50	1.05			K187 KH187	4	33	46800					45.50	1.05	45	34200					33.23	1.45	53	28700					27.92	1.75	61	24900					24.18	1.90	74	20700					20.15	2.1	86	17700			17.18	2.3	41	37700	36.61	0.85	K167	4			200kW						61	25200	24.52	1.25	73	20900			20.32	1.55	86	17800	17.34	1.80	81	18900	18.37	0.95	K157	4			33	58500	45.50	0.85					K157	4	100	15400					14.92	1.15	117	13000					12.65	1.30	45	42700	33.23	1.15			53	35900	27.92	1.40	61	31100	24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4			61	31500	24.52	1.00					K167	4	73	26100	20.32	1.20			86	22300	17.34	1.45	100	19200	14.92	0.95	K157	4			73	26100	20.32	1.20					K157	4			117	16300					12.65	1.05	117	16300	12.65	1.05	117	16300	12.65	1.05																																																																																																														
62	13900	23.91	0.95	K127	4	160kW																																																																																																																																																																																																																																																																																																																																																																											
70	12300	21.15	1.05			83	10300			17.77	1.25	103	8330	14.35	1.45			116	7420	12.79	1.15	138	6240			10.74	1.30	171	5040	8.68	1.45			28	54900	53.36	0.90	K187 KH187	4			33	46800	45.50	1.05	K187 KH187	4	33	46800	45.50	1.05	45	34200			33.23	1.45	53	28700	27.92	1.75					61	24900					24.18	1.90	74	20700					20.15	2.1	86	17700					17.18	2.3	41	37700			36.61	0.85	K167	4	200kW						61	25200	24.52	1.25	73	20900	20.32	1.55	86	17800	17.34	1.80					81	18900	18.37	0.95	K157	4	33	58500	45.50	0.85	K157	4	100	15400	14.92	1.15	117	13000	12.65	1.30	45	42700	33.23	1.15					53	35900	27.92	1.40							61	31100			24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00	K167	4	73	26100	20.32	1.20	86	22300	17.34	1.45	100	19200	14.92	0.95	K157	4	73	26100			20.32	1.20	K157	4	117	16300	12.65	1.05	117	16300			12.65	1.05	117	16300	12.65	1.05																																																																																																																																																						
83	10300	17.77	1.25			103	8330			14.35	1.45	116	7420	12.79	1.15			138	6240	10.74	1.30	171	5040			8.68	1.45	28	54900	53.36	0.90			K187 KH187	4	33	46800			45.50	1.05	K187 KH187	4	33	46800			45.50	1.05	45	34200	33.23	1.45			53	28700	27.92	1.75	61	24900					24.18	1.90					74	20700	20.15	2.1					86	17700	17.18	2.3	41	37700			36.61	0.85	K167	4	200kW						61	25200	24.52	1.25	73	20900	20.32	1.55	86	17800	17.34	1.80	81	18900	18.37	0.95	K157	4			33	58500	45.50	0.85	K157	4			100	15400	14.92	1.15			117	13000	12.65	1.30	45	42700	33.23	1.15	53	35900	27.92	1.40					61	31100	24.18	1.55			74	25900			20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00	K167	4			73	26100	20.32	1.20			86	22300	17.34	1.45	100	19200	14.92	0.95	K157	4	73	26100			20.32	1.20	K157	4	117	16300			12.65	1.05	117	16300	12.65	1.05	117	16300	12.65	1.05																																																																																																																																																										
103	8330	14.35	1.45			116	7420			12.79	1.15	138	6240	10.74	1.30			171	5040	8.68	1.45	28	54900			53.36	0.90	K187 KH187	4	33	46800	45.50	1.05			K187 KH187	4			33	46800			45.50	1.05			45	34200	33.23	1.45	53	28700			27.92	1.75	61	24900	24.18	1.90					74	20700					20.15	2.1	86	17700	17.18	2.3			41	37700	36.61	0.85	K167	4	200kW						61	25200	24.52	1.25			73	20900	20.32	1.55	86	17800	17.34	1.80	81	18900	18.37	0.95	K157	4	33	58500			45.50	0.85	K157	4	100	15400					14.92	1.15	117	13000			12.65	1.30	45	42700	33.23	1.15	53	35900	27.92	1.40	61	31100			24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85			61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00			K167	4	73	26100					20.32	1.20	86	22300			17.34	1.45	100	19200	14.92	0.95	K157	4			73	26100			20.32	1.20			K157	4			117	16300	12.65	1.05	117	16300	12.65	1.05	117	16300	12.65	1.05																																																																																																																																																								
116	7420	12.79	1.15			138	6240			10.74	1.30	171	5040	8.68	1.45			28	54900	53.36	0.90	K187 KH187	4	33	46800	45.50	1.05			K187 KH187	4	33	46800							45.50	1.05			45	34200			33.23	1.45	53	28700	27.92	1.75			61	24900	24.18	1.90	74	20700					20.15	2.1	86	17700			17.18	2.3	41	37700	36.61	0.85	K167	4	200kW						61	25200	24.52	1.25			73	20900	20.32	1.55			86	17800	17.34	1.80	81	18900	18.37	0.95	K157	4	33	58500			45.50	0.85			K157	4			100	15400					14.92	1.15	117	13000			12.65	1.30	45	42700	33.23	1.15	53	35900	27.92	1.40	61	31100	24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500			24.52	1.00	K167	4					73	26100			20.32	1.20	86	22300	17.34	1.45	100	19200	14.92	0.95	K157	4	73	26100					20.32	1.20			K157	4							117	16300	12.65	1.05	117	16300	12.65	1.05	117	16300	12.65	1.05																																																																																																																																																								
138	6240	10.74	1.30			171	5040			8.68	1.45	28	54900	53.36	0.90	K187 KH187	4	33	46800	45.50	1.05			K187 KH187	4	33	46800					45.50	1.05							45	34200			33.23	1.45			53	28700	27.92	1.75	61	24900			24.18	1.90	74	20700	20.15	2.1	86	17700			17.18	2.3	41	37700	36.61	0.85	K167	4	200kW						61	25200	24.52	1.25			73	20900	20.32	1.55			86	17800	17.34	1.80	81	18900	18.37	0.95	K157	4	33	58500	45.50	0.85			K157	4			100	15400							14.92	1.15					117	13000	12.65	1.30			45	42700	33.23	1.15	53	35900	27.92	1.40	61	31100	24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4			61	31500			24.52	1.00			K167	4			73	26100	20.32	1.20	86	22300	17.34	1.45	100	19200	14.92	0.95	K157	4			73	26100					20.32	1.20	K157	4							117	16300	12.65	1.05	117	16300	12.65	1.05	117	16300	12.65	1.05																																																																																																																																																										
171	5040	8.68	1.45			28	54900	53.36	0.90	K187 KH187	4	33	46800	45.50	1.05			K187 KH187	4	33	46800					45.50	1.05					45	34200							33.23	1.45			53	28700			27.92	1.75	61	24900	24.18	1.90	74	20700	20.15	2.1	86	17700	17.18	2.3	41	37700	36.61	0.85	K167	4	200kW						61	25200	24.52	1.25			73	20900	20.32	1.55			86	17800	17.34	1.80	81	18900	18.37	0.95	K157	4	33	58500	45.50	0.85			K157	4	100	15400							14.92	1.15							117	13000			12.65	1.30	45	42700	33.23	1.15	53	35900	27.92	1.40	61	31100	24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00					K167	4	73	26100	20.32	1.20					86	22300	17.34	1.45	100	19200	14.92	0.95	K157	4	73	26100	20.32	1.20					K157	4			117	16300	12.65	1.05					117	16300			12.65	1.05	117	16300	12.65	1.05																																																																																																																																																																
28	54900	53.36	0.90	K187 KH187	4	33	46800	45.50	1.05			K187 KH187	4																																																																																																																																																																																																																																																																																																																																																																				
33	46800	45.50	1.05			45	34200	33.23	1.45					53	28700					27.92	1.75					61	24900					24.18	1.90					74	20700	20.15	2.1			86	17700	17.18	2.3	41	37700	36.61	0.85	K167	4	200kW						61	25200	24.52	1.25	73	20900			20.32	1.55	86	17800			17.34	1.80	81	18900	18.37	0.95	K157	4	33	58500	45.50	0.85	K157	4	100	15400	14.92	1.15	117	13000			12.65	1.30	45	42700					33.23	1.15					53	35900	27.92	1.40	61	31100			24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00	K167	4	73	26100	20.32	1.20	86	22300	17.34	1.45	100	19200			14.92	0.95	K157	4	73	26100	20.32	1.20			K157	4	117	16300	12.65	1.05	117	16300	12.65	1.05	117	16300	12.65	1.05																																																																																																																																																																																																		
45	34200	33.23	1.45			53	28700	27.92	1.75					61	24900					24.18	1.90					74	20700					20.15	2.1	86	17700			17.18	2.3	41	37700	36.61	0.85	K167	4	200kW								61	25200	24.52	1.25	73	20900	20.32	1.55	86	17800	17.34	1.80			81	18900	18.37	0.95	K157	4	33	58500	45.50	0.85	K157	4			100	15400	14.92	1.15			117	13000	12.65	1.30	45	42700			33.23	1.15	53	35900					27.92	1.40	61	31100			24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00	K167	4			73	26100	20.32	1.20			86	22300	17.34	1.45	100	19200	14.92	0.95	K157	4	73	26100	20.32	1.20			K157	4	117	16300	12.65	1.05			117	16300	12.65	1.05	117	16300	12.65	1.05																																																																																																																																																																																																						
53	28700	27.92	1.75			61	24900	24.18	1.90					74	20700					20.15	2.1					86	17700	17.18	2.3			41	37700	36.61	0.85	K167	4	200kW								61	25200	24.52	1.25	73	20900			20.32	1.55	86	17800	17.34	1.80	81	18900	18.37	0.95	K157	4	33	58500	45.50	0.85	K157	4			100	15400	14.92	1.15					117	13000	12.65	1.30			45	42700	33.23	1.15	53	35900			27.92	1.40	61	31100	24.18	1.55			74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00	K167	4			73	26100	20.32	1.20					86	22300	17.34	1.45			100	19200	14.92	0.95	K157	4	73	26100			20.32	1.20	K157	4					117	16300	12.65	1.05			117	16300	12.65	1.05	117	16300	12.65	1.05																																																																																																																																																																																																						
61	24900	24.18	1.90			74	20700	20.15	2.1					86	17700					17.18	2.3	41	37700			36.61	0.85	K167	4	200kW								61	25200	24.52	1.25	73	20900			20.32	1.55	86	17800	17.34	1.80			81	18900	18.37	0.95	K157	4	33	58500	45.50	0.85			K157	4	100	15400					14.92	1.15	117	13000					12.65	1.30	45	42700			33.23	1.15	53	35900	27.92	1.40	61	31100	24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00			K167	4	73	26100					20.32	1.20	86	22300			17.34	1.45	100	19200	14.92	0.95	K157	4	73	26100	20.32	1.20			K157	4			117	16300							12.65	1.05	117	16300			12.65	1.05	117	16300	12.65	1.05																																																																																																																																																																																																								
74	20700	20.15	2.1			86	17700	17.18	2.3					41	37700	36.61	0.85			K167	4	200kW								61	25200	24.52	1.25	73	20900			20.32	1.55	86	17800	17.34	1.80			81	18900	18.37	0.95	K157	4	33	58500	45.50	0.85	K157	4			100	15400	14.92	1.15					117	13000					12.65	1.30	45	42700					33.23	1.15	53	35900			27.92	1.40	61	31100	24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500			24.52	1.00	K167	4					73	26100			20.32	1.20	86	22300	17.34	1.45	100	19200	14.92	0.95	K157	4	73	26100			20.32	1.20	K157	4							117	16300			12.65	1.05			117	16300	12.65	1.05	117	16300	12.65	1.05																																																																																																																																																																																																												
86	17700	17.18	2.3			41	37700	36.61	0.85	K167	4			200kW								61	25200	24.52	1.25	73	20900			20.32	1.55	86	17800	17.34	1.80			81	18900	18.37	0.95	K157	4	33	58500	45.50	0.85	K157	4			100	15400	14.92	1.15					117	13000	12.65	1.30					45	42700					33.23	1.15	53	35900			27.92	1.40	61	31100	24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00	K167	4			73	26100			20.32	1.20			86	22300			17.34	1.45	100	19200	14.92	0.95	K157	4	73	26100	20.32	1.20	K157	4			117	16300			12.65	1.05							117	16300	12.65	1.05			117	16300	12.65	1.05																																																																																																																																																																																																																				
41	37700	36.61	0.85	K167	4	200kW																																																																																																																																																																																																																																																																																																																																																																											
61	25200	24.52	1.25			73	20900	20.32	1.55			86	17800	17.34	1.80	81	18900	18.37	0.95			K157	4	33	58500	45.50	0.85	K157	4	100	15400	14.92	1.15	117	13000	12.65	1.30	45	42700	33.23	1.15			53	35900	27.92	1.40					61	31100	24.18	1.55					74	25900	20.15	1.70	86	22100			17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00	K167	4	73	26100	20.32	1.20	86	22300	17.34	1.45	100	19200	14.92	0.95	K157	4	73	26100			20.32	1.20	K157	4			117	16300	12.65	1.05	117	16300	12.65	1.05	117	16300	12.65	1.05																																																																																																																																																																																																																																																												
73	20900	20.32	1.55			86	17800	17.34	1.80			81	18900	18.37	0.95	K157	4	33	58500	45.50	0.85			K157	4	100	15400			14.92	1.15	117	13000	12.65	1.30	45	42700	33.23	1.15	53	35900			27.92	1.40	61	31100					24.18	1.55	74	25900			20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00			K167	4	73	26100			20.32	1.20	86	22300	17.34	1.45	100	19200	14.92	0.95	K157	4			73	26100	20.32	1.20	K157	4			117	16300	12.65	1.05	117	16300	12.65	1.05	117	16300	12.65	1.05																																																																																																																																																																																																																																																														
86	17800	17.34	1.80			81	18900	18.37	0.95	K157	4	33	58500	45.50	0.85			K157	4	100	15400					14.92	1.15			117	13000	12.65	1.30	45	42700	33.23	1.15	53	35900	27.92	1.40			61	31100	24.18	1.55			74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00			K167	4	73	26100					20.32	1.20			86	22300	17.34	1.45	100	19200	14.92	0.95	K157	4					73	26100	20.32	1.20					K157	4	117	16300	12.65	1.05	117	16300	12.65	1.05	117	16300	12.65	1.05																																																																																																																																																																																																																																																												
81	18900	18.37	0.95	K157	4	33	58500	45.50	0.85			K157	4																																																																																																																																																																																																																																																																																																																																																																				
100	15400	14.92	1.15			117	13000	12.65	1.30					45	42700					33.23	1.15					53	35900			27.92	1.40	61	31100	24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00	K167	4	73	26100	20.32	1.20	86	22300			17.34	1.45	100	19200	14.92	0.95			K157	4	73	26100	20.32	1.20	K157	4	117	16300	12.65	1.05	117	16300	12.65	1.05	117	16300					12.65	1.05																																																																																																																																																																																																																																																																																		
117	13000	12.65	1.30			45	42700	33.23	1.15					53	35900					27.92	1.40	61	31100			24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00	K167	4			73	26100	20.32	1.20			86	22300	17.34	1.45	100	19200	14.92	0.95	K157	4	73	26100	20.32	1.20	K157	4			117	16300	12.65	1.05			117	16300	12.65	1.05	117	16300	12.65	1.05																																																																																																																																																																																																																																																																																										
45	42700	33.23	1.15			53	35900	27.92	1.40					61	31100	24.18	1.55			74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00	K167	4			73	26100	20.32	1.20					86	22300	17.34	1.45			100	19200	14.92	0.95	K157	4	73	26100			20.32	1.20	K157	4					117	16300	12.65	1.05			117	16300	12.65	1.05	117	16300	12.65	1.05																																																																																																																																																																																																																																																																																										
53	35900	27.92	1.40			61	31100	24.18	1.55	74	25900			20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00	K167	4			73	26100	20.32	1.20					86	22300	17.34	1.45			100	19200	14.92	0.95	K157	4	73	26100	20.32	1.20	K157	4			117	16300			12.65	1.05							117	16300	12.65	1.05			117	16300	12.65	1.05																																																																																																																																																																																																																																																																																														
61	31100	24.18	1.55	74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500	24.52	1.00	K167	4			73	26100	20.32	1.20					86	22300	17.34	1.45			100	19200	14.92	0.95	K157	4	73	26100	20.32	1.20	K157	4			117	16300	12.65	1.05					117	16300			12.65	1.05					117	16300	12.65	1.05																																																																																																																																																																																																																																																																																																						
74	25900	20.15	1.70	86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500			24.52	1.00	K167	4					73	26100	20.32	1.20			86	22300	17.34	1.45	100	19200	14.92	0.95	K157	4	73	26100			20.32	1.20	K157	4					117	16300	12.65	1.05					117	16300	12.65	1.05	117	16300			12.65	1.05																																																																																																																																																																																																																																																																																																										
86	22100	17.18	1.85	61	31500	24.52	1.00	K167	4	61	31500			24.52	1.00			K167	4					73	26100	20.32	1.20	86	22300	17.34	1.45	100	19200	14.92	0.95	K157	4	73	26100			20.32	1.20			K157	4							117	16300	12.65	1.05			117	16300	12.65	1.05	117	16300	12.65	1.05																																																																																																																																																																																																																																																																																																														
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73	26100	20.32	1.20			86	22300			17.34	1.45	100	19200			14.92	0.95			K157	4	73	26100	20.32	1.20	K157	4	117	16300	12.65	1.05	117	16300	12.65	1.05			117	16300			12.65	1.05																																																																																																																																																																																																																																																																																																																																						
86	22300	17.34	1.45			100	19200	14.92	0.95	K157	4	73	26100			20.32	1.20	K157	4			117	16300	12.65	1.05			117	16300	12.65	1.05	117	16300	12.65	1.05																																																																																																																																																																																																																																																																																																																																														
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117	16300	12.65	1.05			117	16300	12.65	1.05																																																																																																																																																																																																																																																																																																																																																																								
117	16300	12.65	1.05																																																																																																																																																																																																																																																																																																																																																																														

K系列选型参数表

K系列选型参数表

输出扭矩 Output torque N.m	输出转速 Output speed r/min	传动比 Ratio i	机型号 Type	功率 Power kW/4p	输出扭矩 Output torque N.m	输出转速 Output speed r/min	传动比 Ratio i	机型号 Type	功率 Power kW/4p																																																																										
200					400																																																																														
0.20	6832	K37R17 KF37R17 KA37R17 KAF37R17	0.12	0.12	1.1	1222	K47R37 KF47R37 KA47R37 KAF47R37	0.12	0.12																																																																										
0.23	5922				0.25	5491				0.29	4759	0.33	4160	0.38	3645	0.43	3205	0.49	2801	0.56	2454	0.64	2166	0.73	1891	0.83	1660	0.94	1466	1.1	1288	1.2	1136	1.4	996	1.6	876	1.8	761	2.1	671	2.4	585	2.7	512	3.1	451	3.5	396	4.0	346	4.3	304	4.9	267	5.7	234	6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96
0.25	5491				0.29	4759				0.33	4160	0.38	3645	0.43	3205	0.49	2801	0.56	2454	0.64	2166	0.73	1891	0.83	1660	0.94	1466	1.1	1288	1.2	1136	1.4	996	1.6	876	1.8	761	2.1	671	2.4	585	2.7	512	3.1	451	3.5	396	4.0	346	4.3	304	4.9	267	5.7	234	6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96		
0.29	4759				0.33	4160				0.38	3645	0.43	3205	0.49	2801	0.56	2454	0.64	2166	0.73	1891	0.83	1660	0.94	1466	1.1	1288	1.2	1136	1.4	996	1.6	876	1.8	761	2.1	671	2.4	585	2.7	512	3.1	451	3.5	396	4.0	346	4.3	304	4.9	267	5.7	234	6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96				
0.33	4160				0.38	3645				0.43	3205	0.49	2801	0.56	2454	0.64	2166	0.73	1891	0.83	1660	0.94	1466	1.1	1288	1.2	1136	1.4	996	1.6	876	1.8	761	2.1	671	2.4	585	2.7	512	3.1	451	3.5	396	4.0	346	4.3	304	4.9	267	5.7	234	6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96						
0.38	3645				0.43	3205				0.49	2801	0.56	2454	0.64	2166	0.73	1891	0.83	1660	0.94	1466	1.1	1288	1.2	1136	1.4	996	1.6	876	1.8	761	2.1	671	2.4	585	2.7	512	3.1	451	3.5	396	4.0	346	4.3	304	4.9	267	5.7	234	6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96								
0.43	3205				0.49	2801				0.56	2454	0.64	2166	0.73	1891	0.83	1660	0.94	1466	1.1	1288	1.2	1136	1.4	996	1.6	876	1.8	761	2.1	671	2.4	585	2.7	512	3.1	451	3.5	396	4.0	346	4.3	304	4.9	267	5.7	234	6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96										
0.49	2801				0.56	2454				0.64	2166	0.73	1891	0.83	1660	0.94	1466	1.1	1288	1.2	1136	1.4	996	1.6	876	1.8	761	2.1	671	2.4	585	2.7	512	3.1	451	3.5	396	4.0	346	4.3	304	4.9	267	5.7	234	6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96												
0.56	2454				0.64	2166				0.73	1891	0.83	1660	0.94	1466	1.1	1288	1.2	1136	1.4	996	1.6	876	1.8	761	2.1	671	2.4	585	2.7	512	3.1	451	3.5	396	4.0	346	4.3	304	4.9	267	5.7	234	6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96														
0.64	2166				0.73	1891				0.83	1660	0.94	1466	1.1	1288	1.2	1136	1.4	996	1.6	876	1.8	761	2.1	671	2.4	585	2.7	512	3.1	451	3.5	396	4.0	346	4.3	304	4.9	267	5.7	234	6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96																
0.73	1891				0.83	1660				0.94	1466	1.1	1288	1.2	1136	1.4	996	1.6	876	1.8	761	2.1	671	2.4	585	2.7	512	3.1	451	3.5	396	4.0	346	4.3	304	4.9	267	5.7	234	6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96																		
0.83	1660				0.94	1466				1.1	1288	1.2	1136	1.4	996	1.6	876	1.8	761	2.1	671	2.4	585	2.7	512	3.1	451	3.5	396	4.0	346	4.3	304	4.9	267	5.7	234	6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96																				
0.94	1466				1.1	1288				1.2	1136	1.4	996	1.6	876	1.8	761	2.1	671	2.4	585	2.7	512	3.1	451	3.5	396	4.0	346	4.3	304	4.9	267	5.7	234	6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96																						
1.1	1288				1.2	1136				1.4	996	1.6	876	1.8	761	2.1	671	2.4	585	2.7	512	3.1	451	3.5	396	4.0	346	4.3	304	4.9	267	5.7	234	6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96																								
1.2	1136				1.4	996				1.6	876	1.8	761	2.1	671	2.4	585	2.7	512	3.1	451	3.5	396	4.0	346	4.3	304	4.9	267	5.7	234	6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96																										
1.4	996				1.6	876				1.8	761	2.1	671	2.4	585	2.7	512	3.1	451	3.5	396	4.0	346	4.3	304	4.9	267	5.7	234	6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96																												
1.6	876				1.8	761				2.1	671	2.4	585	2.7	512	3.1	451	3.5	396	4.0	346	4.3	304	4.9	267	5.7	234	6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96																														
1.8	761	2.1	671	2.4	585	2.7	512	3.1	451	3.5	396	4.0	346	4.3	304	4.9	267	5.7	234	6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96																																						
2.1	671	2.4	585	2.7	512	3.1	451	3.5	396	4.0	346	4.3	304	4.9	267	5.7	234	6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96																																								
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2.7	512	3.1	451	3.5	396	4.0	346	4.3	304	4.9	267	5.7	234	6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96																																												
3.1	451	3.5	396	4.0	346	4.3	304	4.9	267	5.7	234	6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96																																														
3.5	396	4.0	346	4.3	304	4.9	267	5.7	234	6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96																																																
4.0	346	4.3	304	4.9	267	5.7	234	6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96																																																		
4.3	304	4.9	267	5.7	234	6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96																																																				
4.9	267	5.7	234	6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96																																																						
5.7	234	6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96																																																								
6.4	205	7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96																																																										
7.2	181	8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96																																																												
8.1	160	9.5	136	10	127	12	110	14	96	12	110	14	96	12	110	14	96	12	110	14	96																																																														
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14	96																																																																																		

K37
Dimensions: 63, 139, L3, 150, 115, 32, 110, 143, 8.5, 28, 110, 120, 110, 50, 110, 100, 100, 120, 10, 8, 28, $\phi 25k6$, M10.

KA37
Dimensions: 71, 139, L3, 164, 100, 147, 170, 100, 60, 20, 35, 117, 4-M10, 20, 110, 110, 2.5, 63, 60, $\phi 110$, 50°.

KF37
Dimensions: 210, 139, L3, 4- $\phi 9$, 8.5, 170, 164, 100, 57.5, 134, 50, 10, 10, 8, 28, $\phi 25k6$, $\phi 110i6$, $\phi 160$, M10.

KA37/T
Dimensions: 23.5, 60°, R22.5, 100-0.5, 10, 140-0.2, $\phi 26^{+0.25}$, $\phi 10.4_{-0.1}$, 31, 36.

K..S37
Dimensions: K2, L1, $\phi D1$, $\phi 120$, M, V1, T.

K..37R17
Dimensions: 130, L3, Note: For other values please refer to the opposite structure.

Y2电机座号 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	250	293	308	333	347			
G	130	145	175	195	195	215			
L2	62	62	62	62	62				

注: 1. KA, KF, KAF, KAZ壳体为通用件, 安装尺寸均可相互参照。 2. "K.."表示K, KA, KF, KAF, KAZ, KAB。
Note: 1. The housings of KA, KF, KAF, KAZ are common parts. The mounting dimensions may consult each other.
2. "K.."mean K, KA, KF, KAF, KAZ, KAB.
* 查15-16页 Search Page15-16 查表11: i=34-106.5查AD1 i=5.3-34查AD2

K47
Dimensions: 71, 166, L3, 170, 130, 37, 18, 166, 7.2, 160, 162, 7.2, 160, 145, 135, 60, 112, 112, 8, $\phi 11$, 120, 15, 8, 33, $\phi 30k6$, M10, 15, 3.

KA47
Dimensions: 77, 166, L3, 185, 112, 175, 110, 70, 40, 140, 4-M10, 20, 78, 75, 3, $\phi 120$, 8-M8, 12, 45°, 45°, 55°, 55°, 75, 75, M12x30, 132, $\phi 35H7$, $\phi 50$, 38.3, 10.

KF47
Dimensions: 243, 166, L3, 4- $\phi 11$, 7.2, 160, 185, 112, 72, 160, 60, 112, 2, 3.5, 10, 8, 28, $\phi 30k6$, $\phi 130i6$, $\phi 200$, M10, 32.

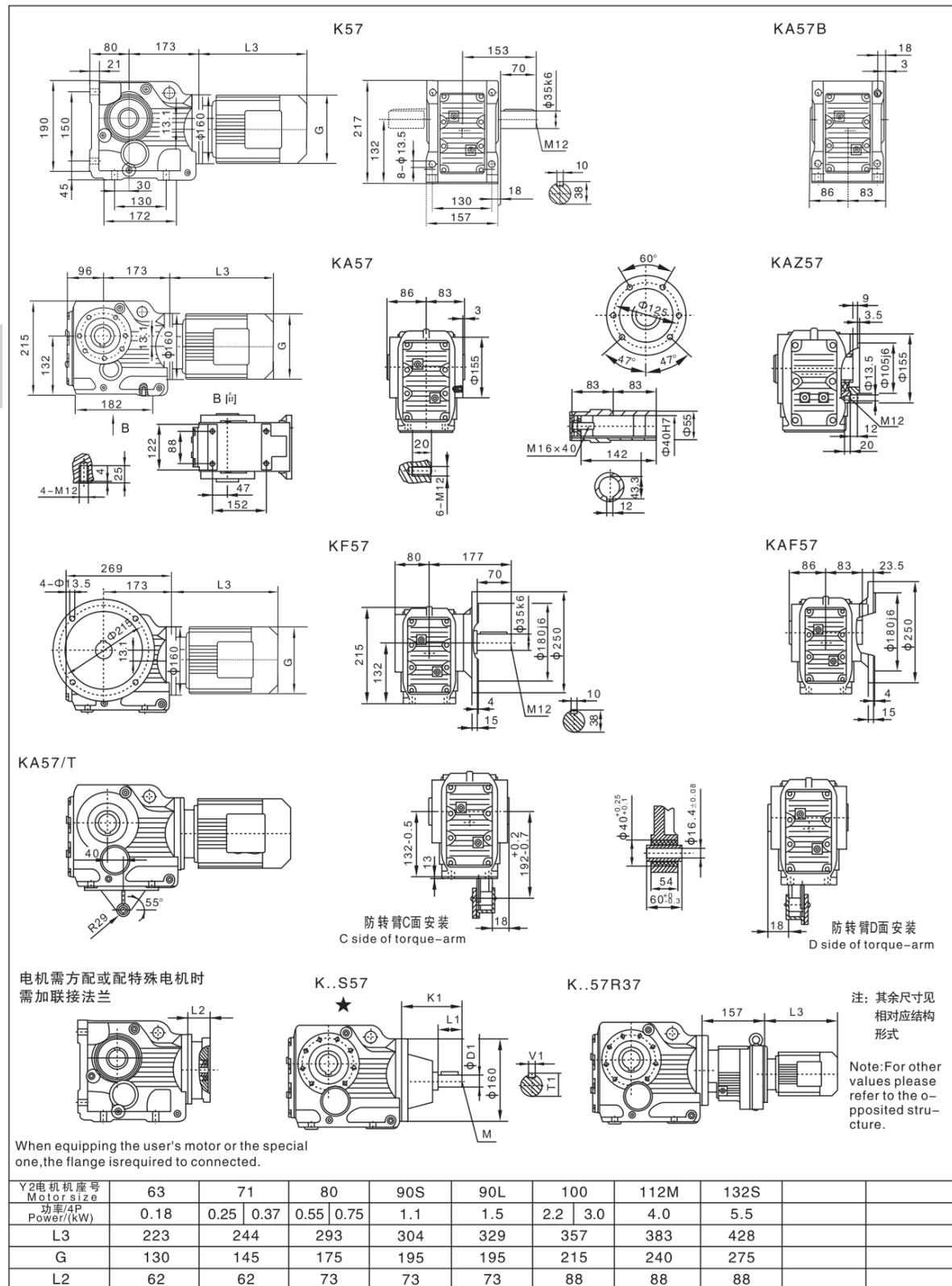
KA47/T
Dimensions: 30, 55°, R22.5, 112-0.5, 2, 160-0.2, 20, $\phi 26^{+0.25}$, $\phi 10.4_{-0.1}$, 31, 36.

K..S47
Dimensions: K1, L1, $\phi D1$, $\phi 160$, M, V1, T.

K..47R37
Dimensions: 157, L3, Note: For other values please refer to the opposite structure.

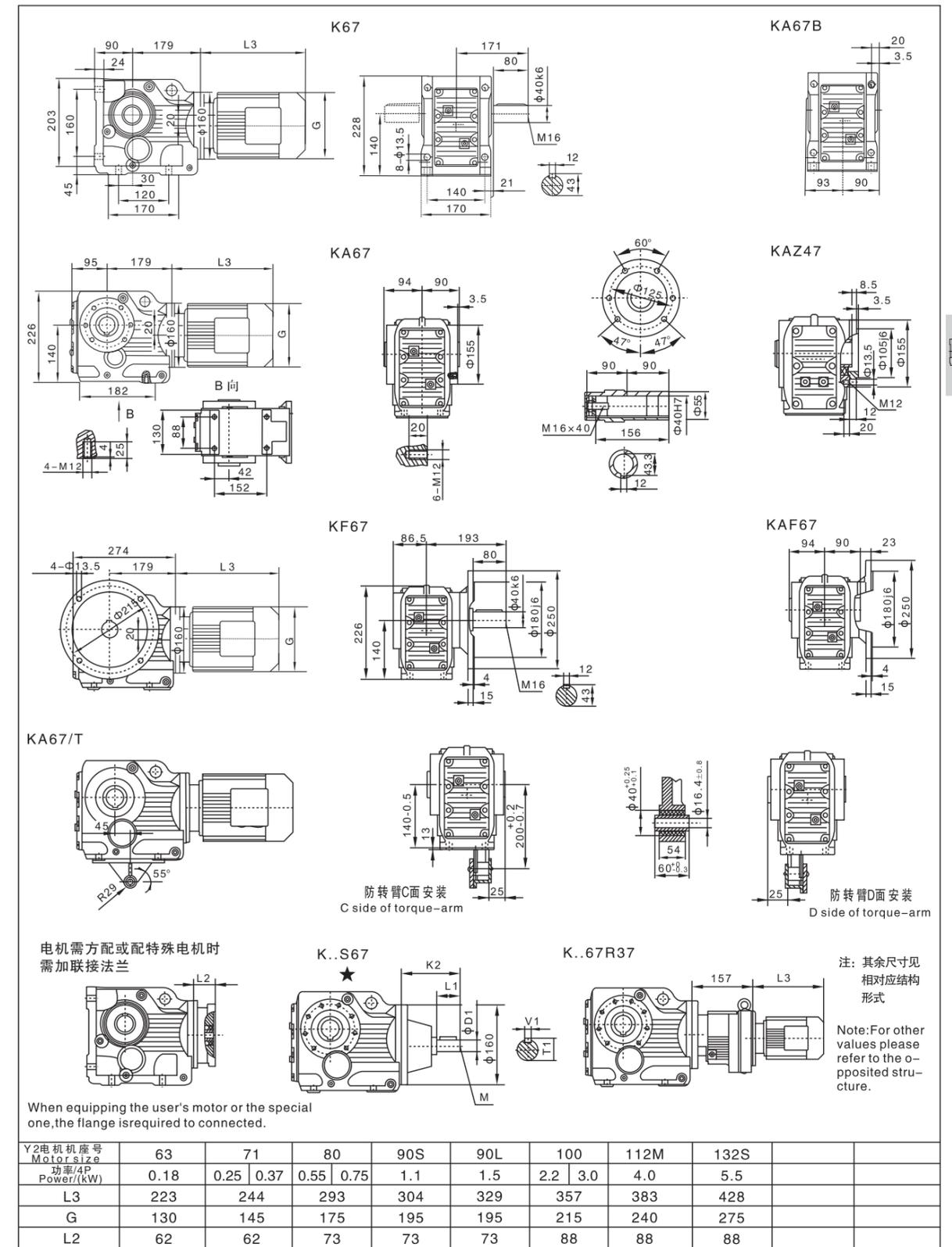
Y2电机座号 Motor size	63	71	80	90S	90L	100			
功率/4P Power/(kW)	0.18	0.25 0.37	0.55 0.75	1.1	1.5	2.2 3.0			
L3	223	244	293	304	329	357			
G	130	145	175	195	195	215			
L2	62	62	73	73	73	88			

注: 1. KA, KF, KAF, KAZ壳体为通用件, 安装尺寸均可相互参照。 2. "K.."表示K, KA, KF, KAF, KAZ, KAB。
Note: 1. The housings of KA, KF, KAF, KAZ are common parts. The mounting dimensions may consult each other.
2. "K.."mean K, KA, KF, KAF, KAZ, KAB.
* 查15-16页 Search Page15-16 查表11: i=9-132查AD2 i=5.8-9查AD3



注:1. KA, KF, KAF, KAZ壳体为通用件,安装尺寸均可相互参照。 2. "K.."表示K, KA, KF, KAF, KAZ, KAB。
Note:1. The housings of KA, KF, KAF, KAZ are common parts. The mounting dimensions may consult each other.
2. "K.."mean K, KA, KF, KAF, KAZ, KAB.

* 查15-16页 Search Page15-16 查表11: i=16-145.2查AD2 i=6.5-16查AD3



注:1. KA, KF, KAF, KAZ壳体为通用件,安装尺寸均可相互参照。 2. "K.."表示K, KA, KF, KAF, KAZ, KAB。
Note:1. The housings of KA, KF, KAF, KAZ are common parts. The mounting dimensions may consult each other.
2. "K.."mean K, KA, KF, KAF, KAZ, KAB.

* 查15-16页 Search Page15-16 查表11: i=35-145查AD2 i=7.2-35查AD3

电机需方配或配特殊电机时需加联接法兰
When equipping the user's motor or the special one, the flange is required to be connected.

Y2电机座号 Motor size	71	80	90S	90L	100	112M	132S	132M	160M
功率/4P Power/(kW)	0.37	0.55 0.75	1.1	1.5	2.2 3.0	4.0	5.5	7.5	11
L3	237	292	297	322	354	391	430	463	555
G	145	175	195	195	215	240	275	275	330
L2	72	72	72	72	88	88	88	88	114

注: 1. KA, KF, KAF, KAZ壳体为通用件, 安装尺寸均可相互参照。 2. "K.."表示K, KA, KF, KAF, KAZ, KAB。
Note: 1. The housings of KA, KF, KAF, KAZ are common parts. The mounting dimensions may consult each other.
2. "K.." mean K, KA, KF, KAF, KAZ, KAB.

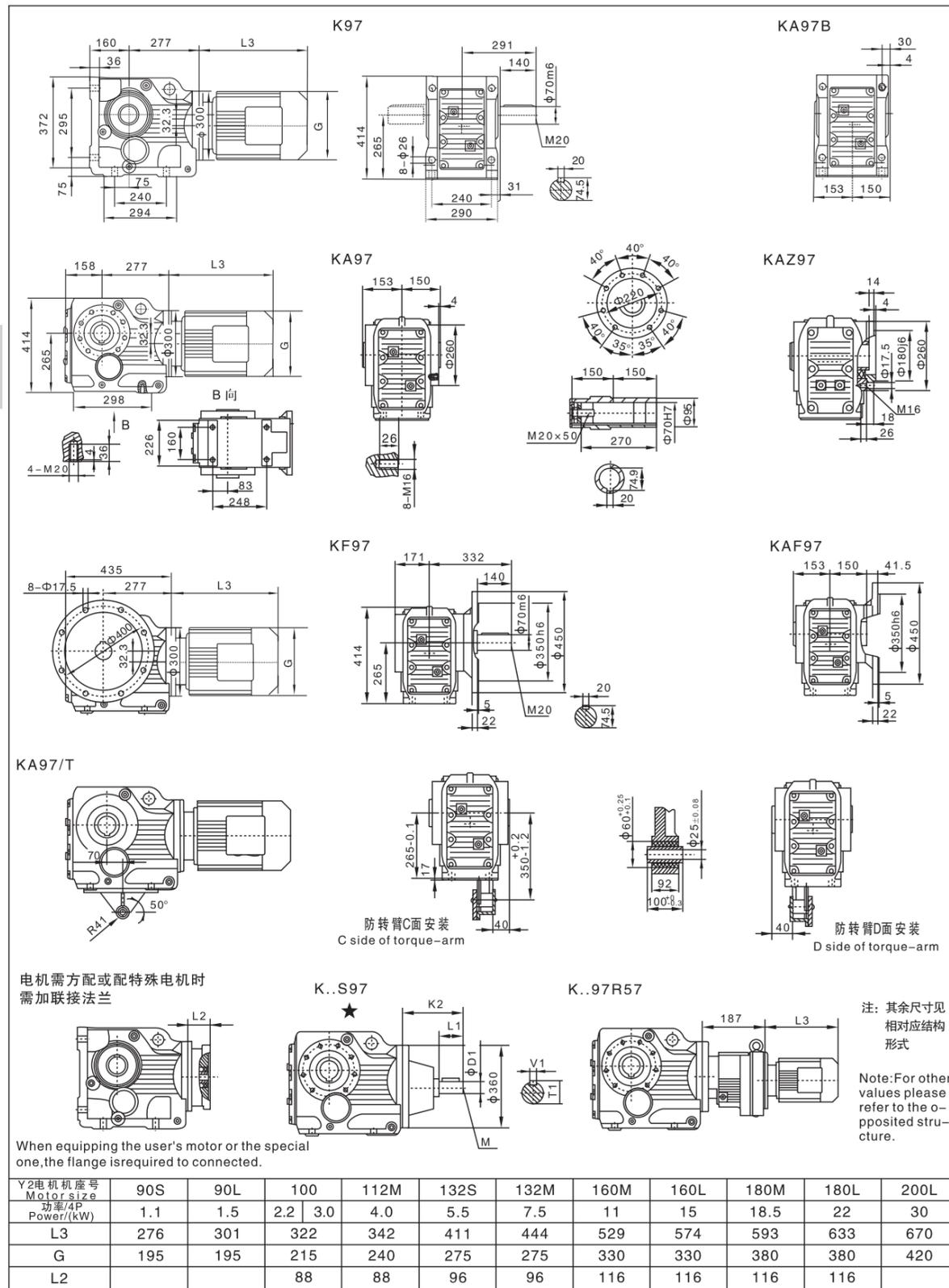
* 查15-16页 Search Page15-16 查表11: i=43-192查AD2 i=30-43查AD3 i=7.2-30查AD4

电机需方配或配特殊电机时需加联接法兰
When equipping the user's motor or the special one, the flange is required to be connected.

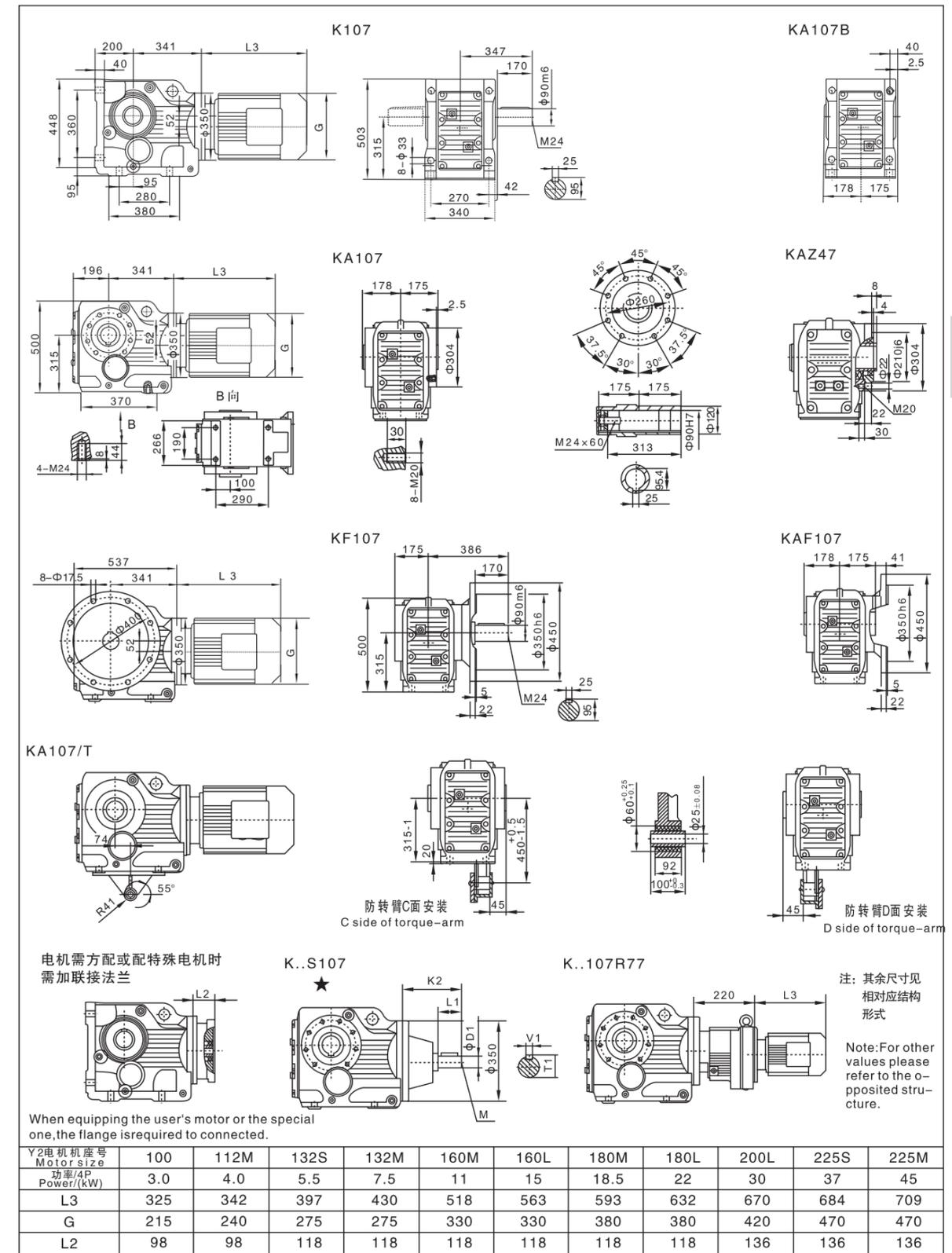
Y2电机座号 Motor size	80	90S	90L	100	112M	132S	132M	160M	160L	180M	180L
功率/4P Power/(kW)	0.75	1.1	1.5	2.2 3.0	4.0	5.5	7.5	11	15	18.5	22
L3	261	284	309	351	371	417	450	538	583	612	652
G	175	195	195	215	240	275	275	330	330	380	380
L2	81	81	81	81	81	88	88	114	114	118	118

注: 1. KA, KF, KAF, KAZ壳体为通用件, 安装尺寸均可相互参照。 2. "K.."表示K, KA, KF, KAF, KAZ, KAB。
Note: 1. The housings of KA, KF, KAF, KAZ are common parts. The mounting dimensions may consult each other.
2. "K.." mean K, KA, KF, KAF, KAZ, KAB.

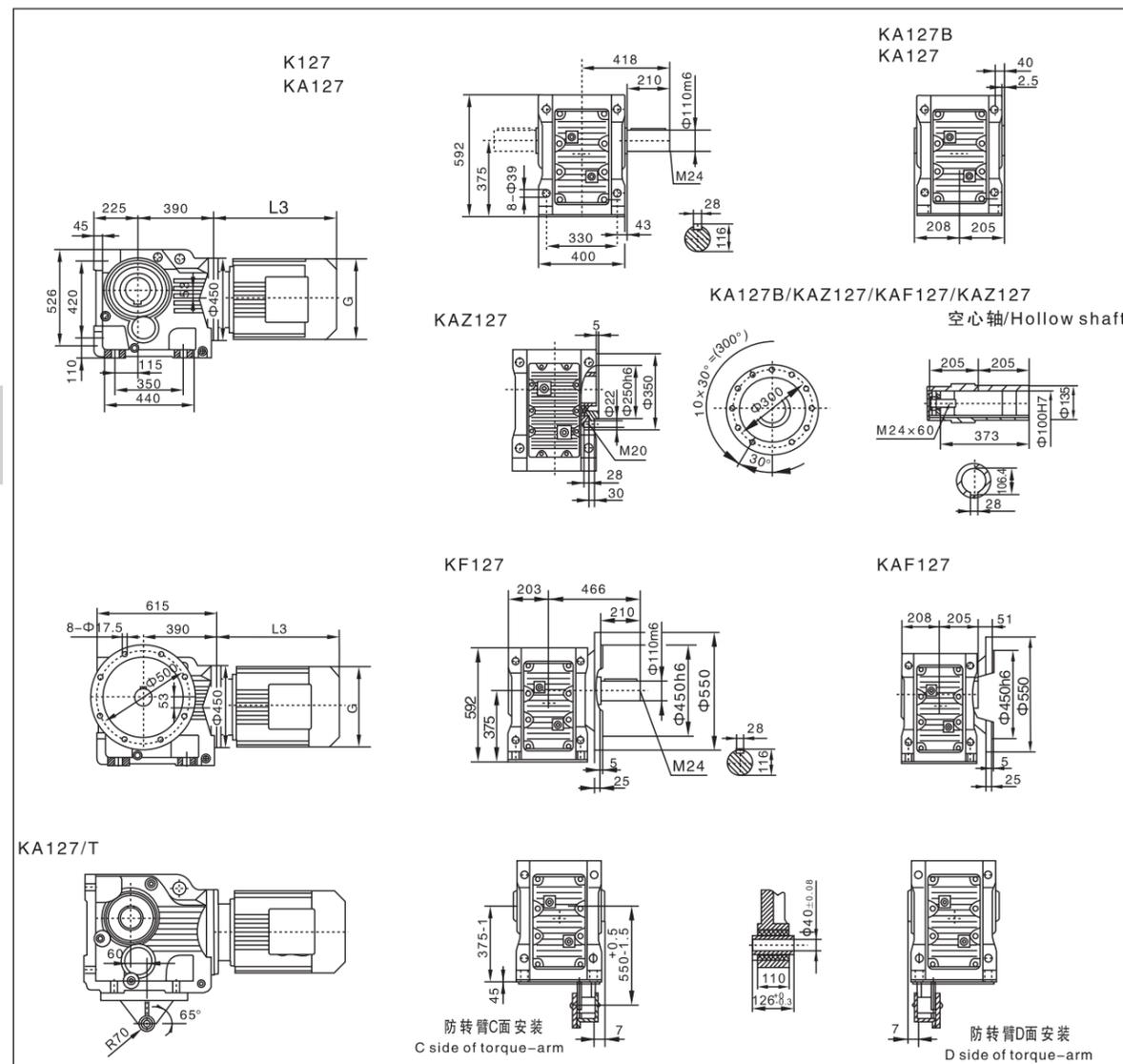
* 查15-16页 Search Page15-16 查表11: i=84-197.4查AD2 i=33-84查AD3 i=11-33查AD4 i=7.2-11查AD5



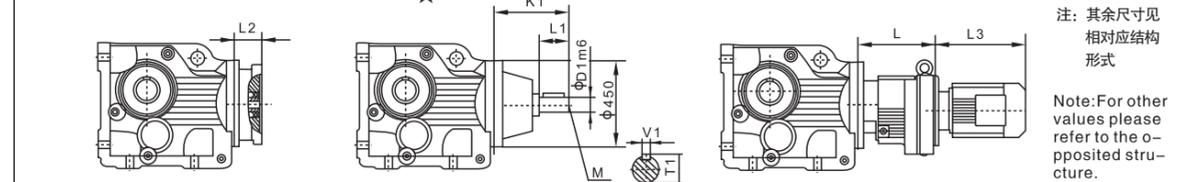
注: 1. KA, KF, KAF, KAZ壳体为通用件, 安装尺寸均可相互参照。 2. "K.."表示K, KA, KF, KAF, KAZ, KAB。
 Note: 1. The housings of KA, KF, KAF, KAZ are common parts. The mounting dimensions may consult each other.
 2. "K.."mean K, KA, KF, KAF, KAZ, KAB.
 * 查15-16页 Search Page15-16 查表11: i=67-176.1查AD3 i=40-67查AD4 i=14-40查AD5 i=8.7-14查AD6



注: 1. KA, KF, KAF, KAZ壳体为通用件, 安装尺寸均可相互参照。 2. "K.."表示K, KA, KF, KAF, KAZ, KAB。
 Note: 1. The housings of KA, KF, KAF, KAZ are common parts. The mounting dimensions may consult each other.
 2. "K.."mean K, KA, KF, KAF, KAZ, KAB.
 * 查15-16页 Search Page15-16 查表11: i=47-143.5查AD4 i=30-47查AD5 i=8.6-30查AD6



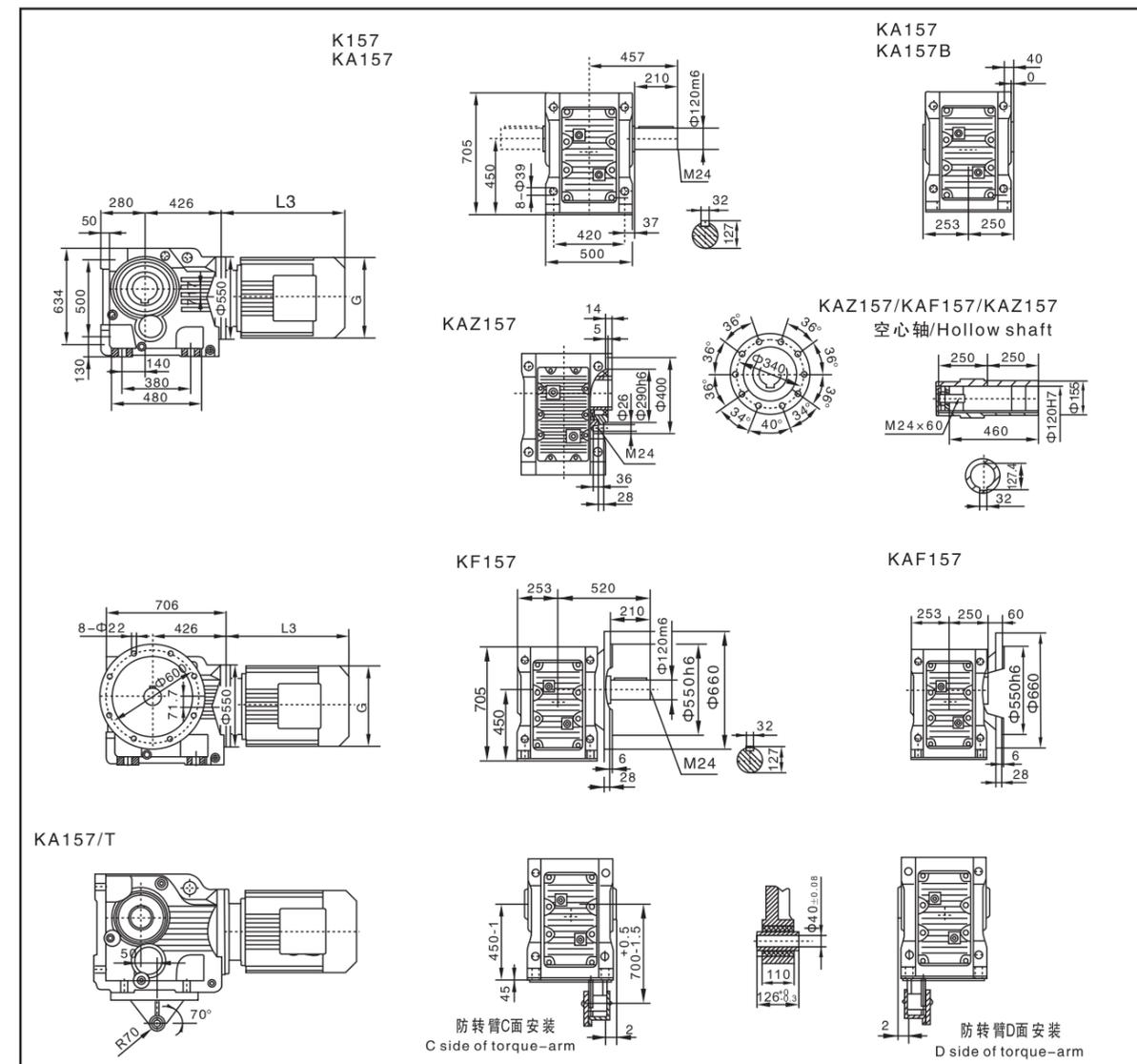
电机需方配或配特殊电机时需加联接法兰



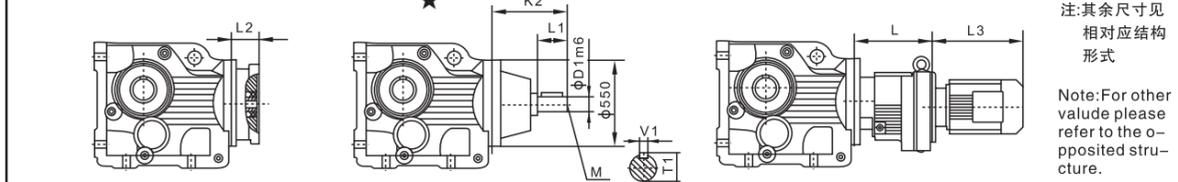
When equipping the user's motor or the special one, the flange is required to be connected.

Y2电机座号 Motor size	功率/4P Power/(kW)	K..127R77		K..127R87		L	220	225S	225M	250M	280S	280M
		L	220	L	272							
L3	7.5	132M	160M	160L	180M	180L	200L	37	45	55	75	847
G	11	15	18.5	22	30	37	45	55	75	847	847	847
L2	114	114	130	130	147	147	190	190	190	190	190	190

注: 1. KA, KF, KAF, KAZ壳体为通用件, 安装尺寸均可相互参照。 2. "K.."表示K, KA, KF, KAF, KAZ, KAB。
Note: 1. The housings of KA, KF, KAF, KAZ are common parts. The mounting dimensions may consult each other.



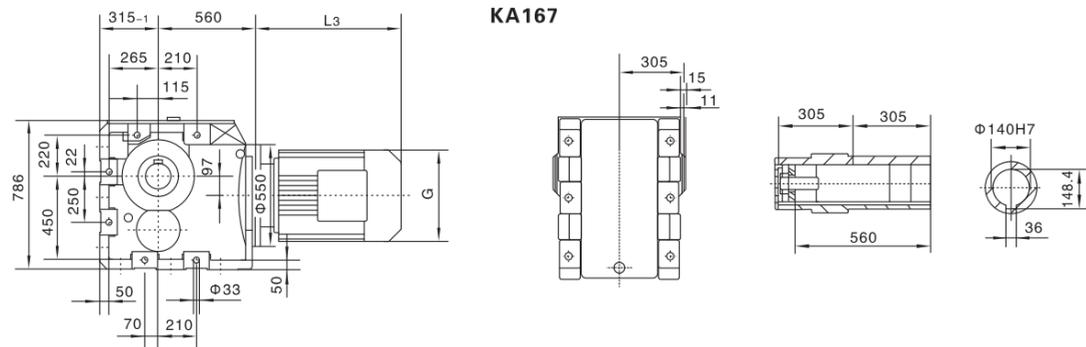
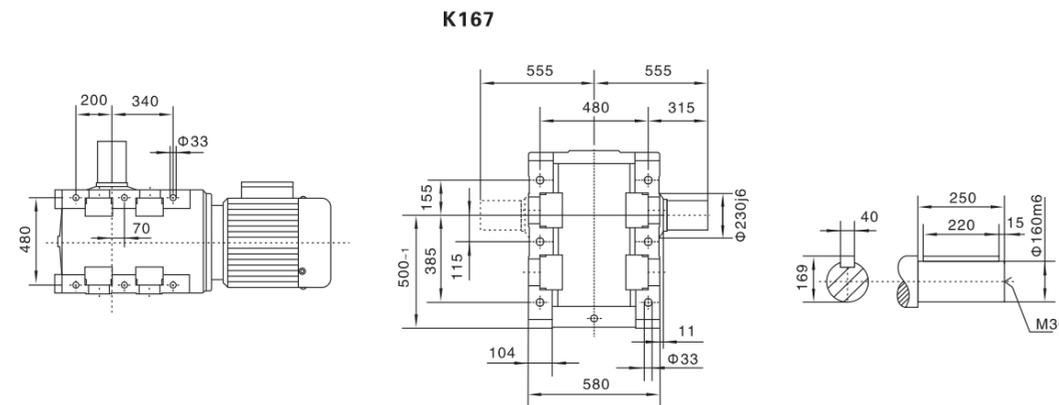
电机需方配或配特殊电机时需加联接法兰



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

Y2电机座号 Motor size	功率/4P Power/(kW)	K..157R97		K..157R107		L	320	250M	280S	280M	315S	315M	315L
		L	320	L	355								
L3	11	160M	160L	180M	180L	200L	225S	225M	55	75	90	110	132
G	15	18.5	22	30	37	45	55	75	847	847	1100	1180	1270
L2	130	130	130	130	147	147	190	190	190	190	190	190	190

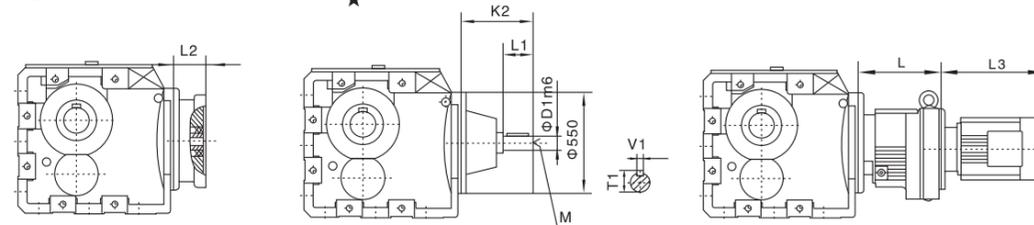
注: 1. KA, KF, KAF, KAZ壳体为通用件, 安装尺寸均可相互参照。 2. "K.."表示K, KA, KF, KAF, KAZ, KAB。
Note: 1. The housings of KA, KF, KAF, KAZ are common parts. The mounting dimensions may consult each other.



电机需方配或配特殊电机时需加联接法兰

K..S167

K..167R97(R107)



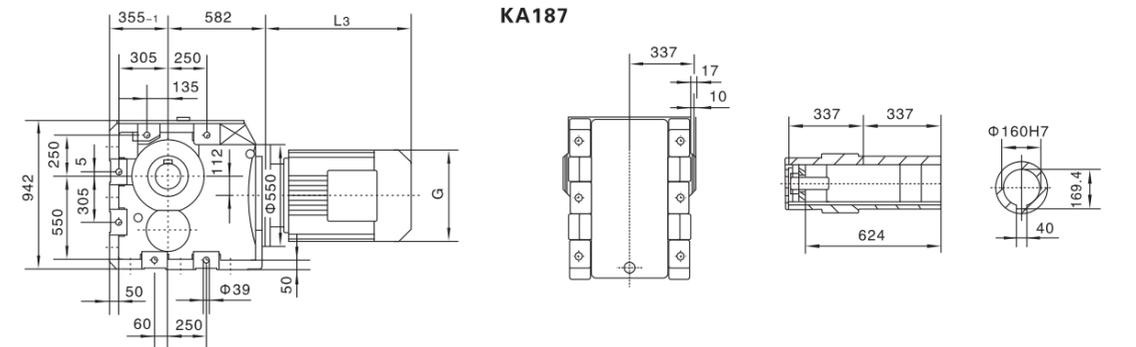
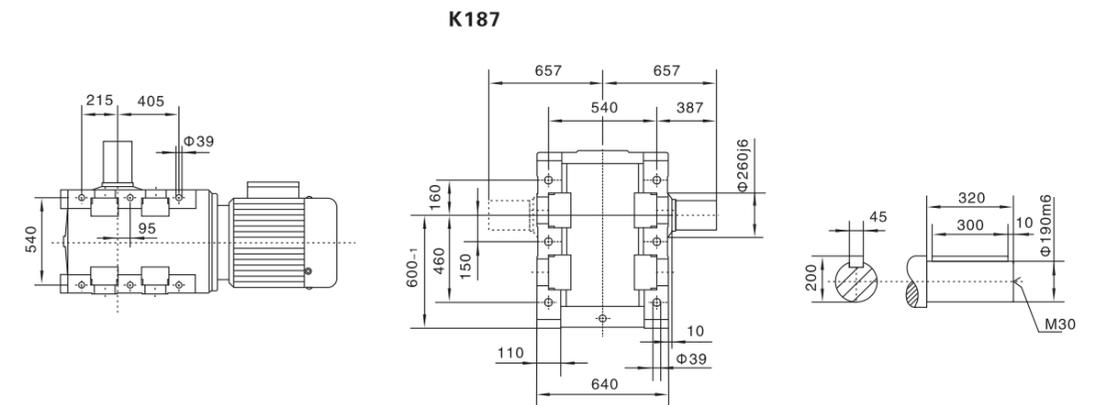
When equipping the user's motor or the special one, the flange is required to be connected.

注:其余尺寸见相对应结构形式
Note: For other values please refer to the opposed structure.

Y2电机座号 Motor size	TK..167TR97									TK..167TR107				
	160M	160L	180M	180L	200L	225S	225M	250M	280S	L	320	355		
功率/4P Power/(kW)	11	15	18.5	22	30	37	45	55	75	90	110	132	160	200
L3	492	537	593	633	646	673	698	779	847	847	1100	1180	1270	
G	330	330	380	380	420	470	470	510	580	580	645	645	645	
L2	130	130	130	130	130	147	147	190	190	190	190	190	190	

注:1. KA, KF, KAF, KAZ壳体为通用件, 安装尺寸均可相互参照。 2. "K.."表示K, KA, KF, KAF, KAZ, KAB。
Note: 1. The housings of KA, KF, KAF, KAZ are common parts. The mounting dimensions may consult each other.
2. "K.." mean K, KA, KF, KAF, KAZ, KAB.

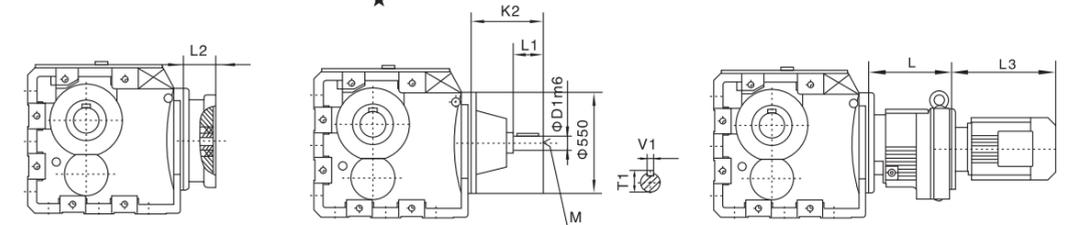
★查15-16页 Search Page 15-16 查表15: i=135-164.5查AD5 i=102-135 查AD6 i=57-102查AD7 i=17.3-57查AD8



电机需方配或配特殊电机时需加联接法兰

K..S187

K..187R97(R107)



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

注:其余尺寸见相对应结构形式
Note: For other values please refer to the opposed structure.

Y2电机座号 Motor size	TK..187TR97									TK..187TR107				
	160M	160L	180M	180L	200L	225S	225M	250M	280S	L	320	355		
功率/4P Power/(kW)	11	15	18.5	22	30	37	45	55	75	90	110	132	160	200
L3	492	537	593	633	646	673	698	779	847	847	1100	1180	1270	
G	330	330	380	380	420	470	470	510	580	580	645	645	645	
L2	130	130	130	130	130	147	147	190	190	190	190	190	190	

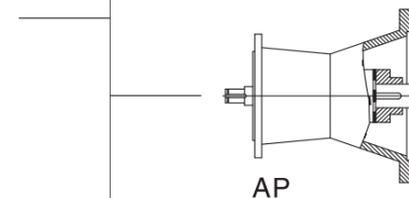
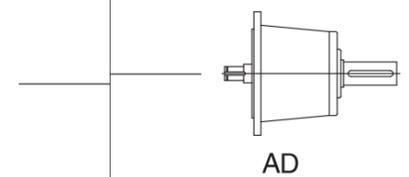
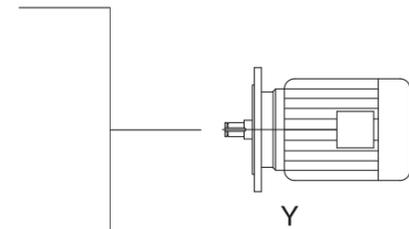
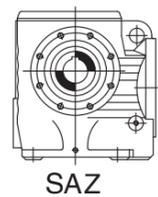
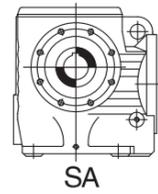
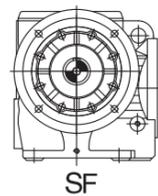
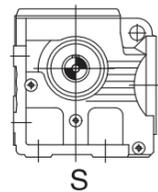
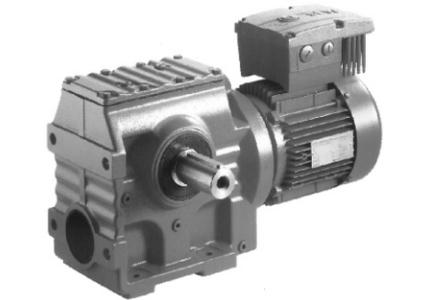
注:1. KA, KF, KAF, KAZ壳体为通用件, 安装尺寸均可相互参照。 2. "K.."表示K, KA, KF, KAF, KAZ, KAB。
Note: 1. The housings of KA, KF, KAF, KAZ are common parts. The mounting dimensions may consult each other.
2. "K.." mean K, KA, KF, KAF, KAZ, KAB.

★查15-16页 Search Page 15-16 查表11: i=141-179.9查AD6 i=98-141查AD7 i=17.1-98查AD8

S 系列

斜齿轮—蜗轮减速机

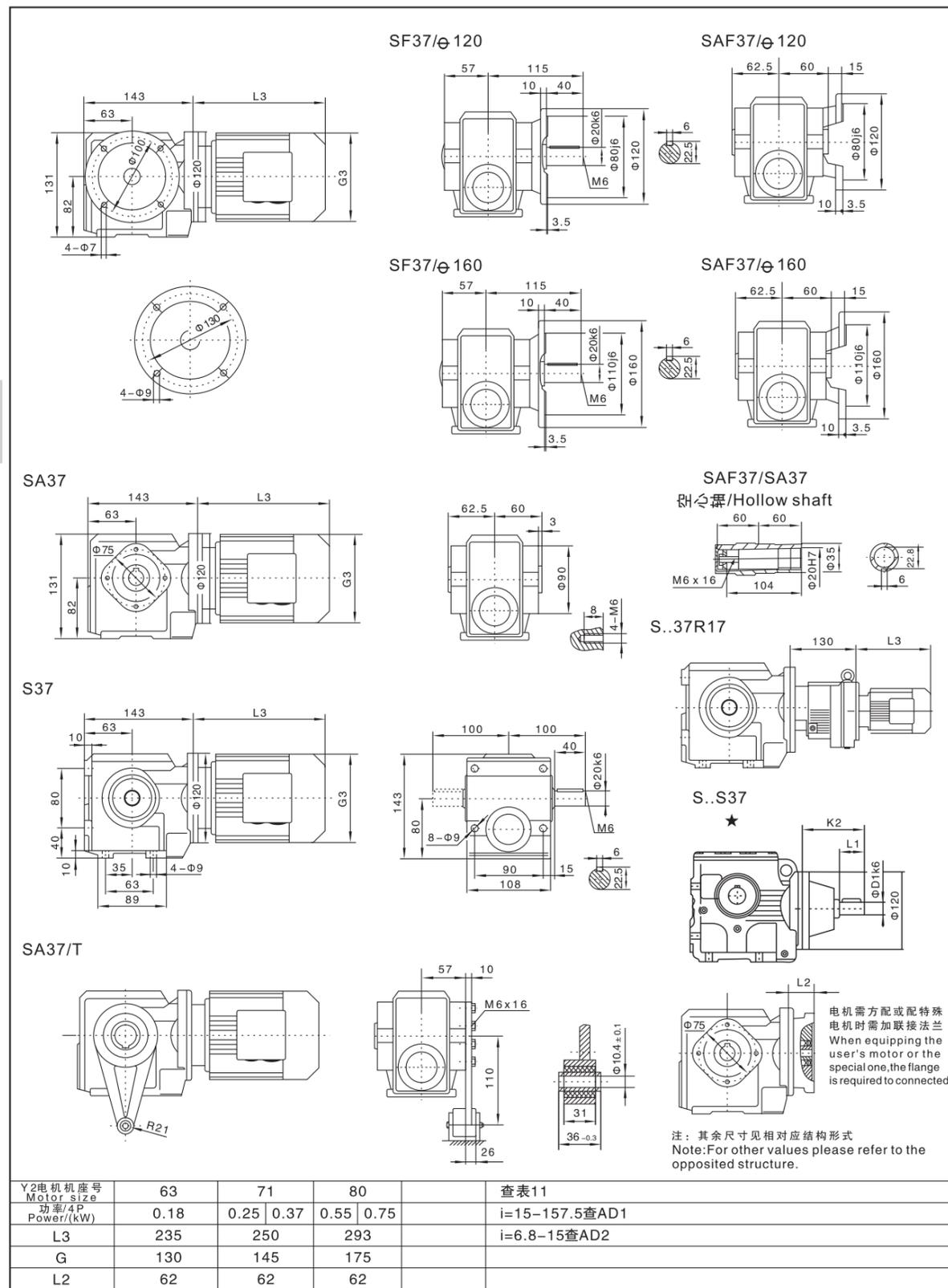
S series Helical-worm gear units



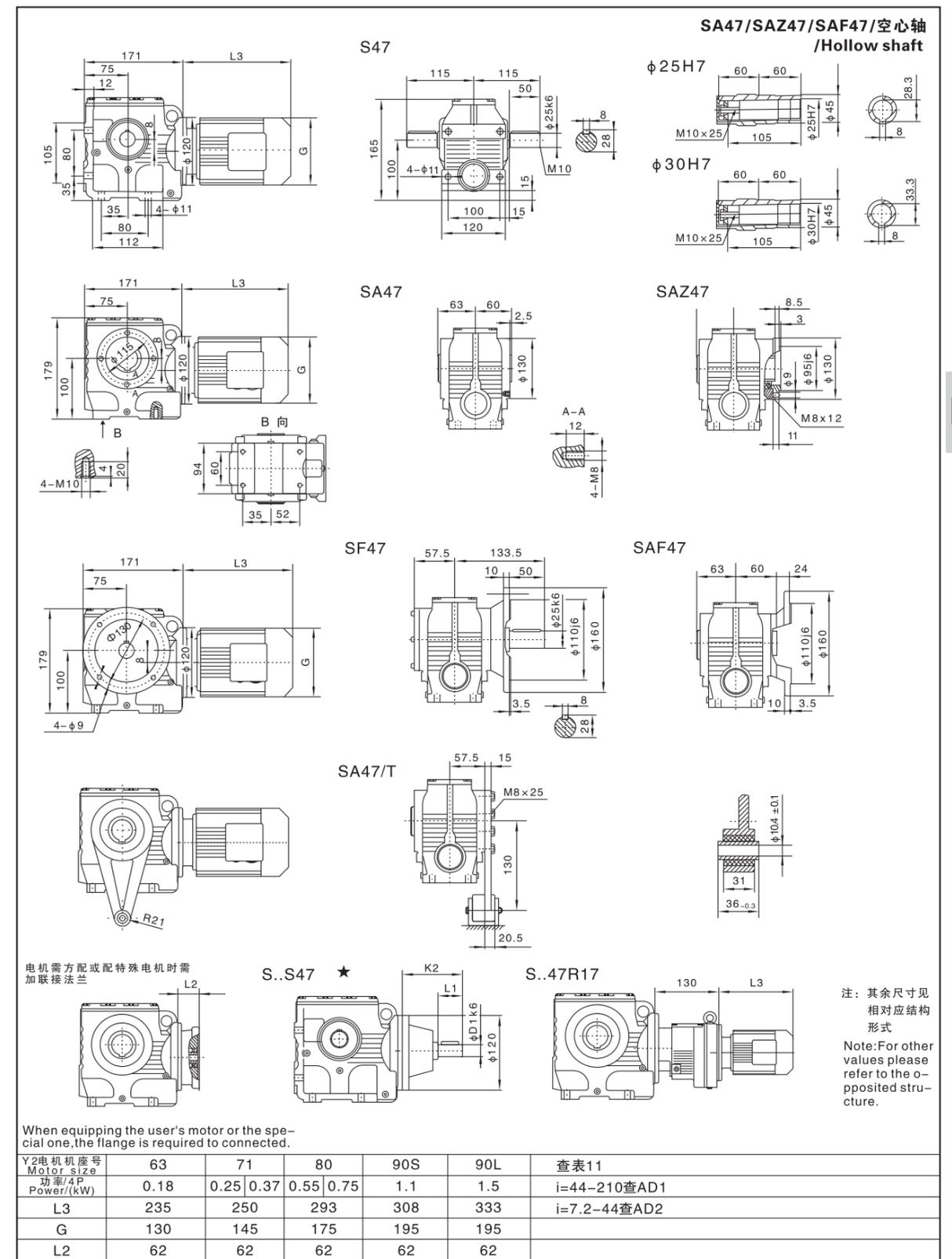
型号与标记: Type Designations:

<p>S 37-Y 0.37-4P-30.68-M1-I-A</p> <p>减速机类型 结构形式 机座号 电机代号 电机功率、极数 传动比 安装形式 电机接线盒位置 输出轴或法兰方向</p>	<p>S 37-Y 0.37-4P-30.68-M1-I-A</p> <p>Gear units type Structure Size Motor code Motor power, pole Ratio Mounting position Position of the motor thermal box Position of output shaft or flange</p>
<p>减速机类型: 斜齿-蜗轮蜗杆减速机</p>	<p>Gear units type: Helical-worm gear units</p>
<p>结构形式: 普通轴伸式 (省略) 轴装式 A 轴伸法兰式 F 轴装法兰式 AF 轴装小法兰式 AZ 轴装带扭力臂 AT</p>	<p>Structure: Foot-mounted solid shaft output (-) Hollow shaft output A Flange-mounted solid shaft output F Flange-mounted hollow shaft output AF Short-flange-mounted hollow shaft output AZ Torque-arm-mounted hollow shaft output AT</p>
<p>机座号: (见选型参数表)</p>	<p>Size: (see selection table)</p>
<p>电机代号: 普通 (更新) Y(Y2) 防爆 B 直流 Z 制动 E 多速 D 变频 V 分马力 F 增安 A 电磁调速 C 冶金起重 R 变频制动 VE 辊道 G 法兰输入 AP 轴输入 AD</p>	<p>Motor code: Ordinary(renew) Y(Y2) Flame-proof B Direct current Z Brake E Multi-speed D Variable frequency V Power-divided F Ampere-increased A Electromagnetism speed modulation C Hoisting in metallurgy R Variable frequency and brake VE Roller tables G Flange input AP Shaft input AD</p>
<p>电机功率、极数: (见选型参数表)</p>	<p>Motor power, pole: (see selection table)</p>
<p>传动比: (见选型参数表)</p>	<p>Ratio: (see selection table)</p>
<p>安装形式: M1、M2、M3、M4、M5、M6</p>	<p>Mounting position: M1、M2、M3、M4、M5、M6</p>
<p>电机接线盒位置: I、II、III、IV</p>	<p>Position of the motor thermal box: I、II、III、IV</p>
<p>输出轴或法兰方向: 从电机尾部看左边为 A 从电机尾部看右边为 B (见安装形式) 从电机尾部看左右边为 A+B</p>	<p>Position of output shaft or flange: viewing on motor end:left side -A, right side-B,both sides-A+B(see mounting position)</p>

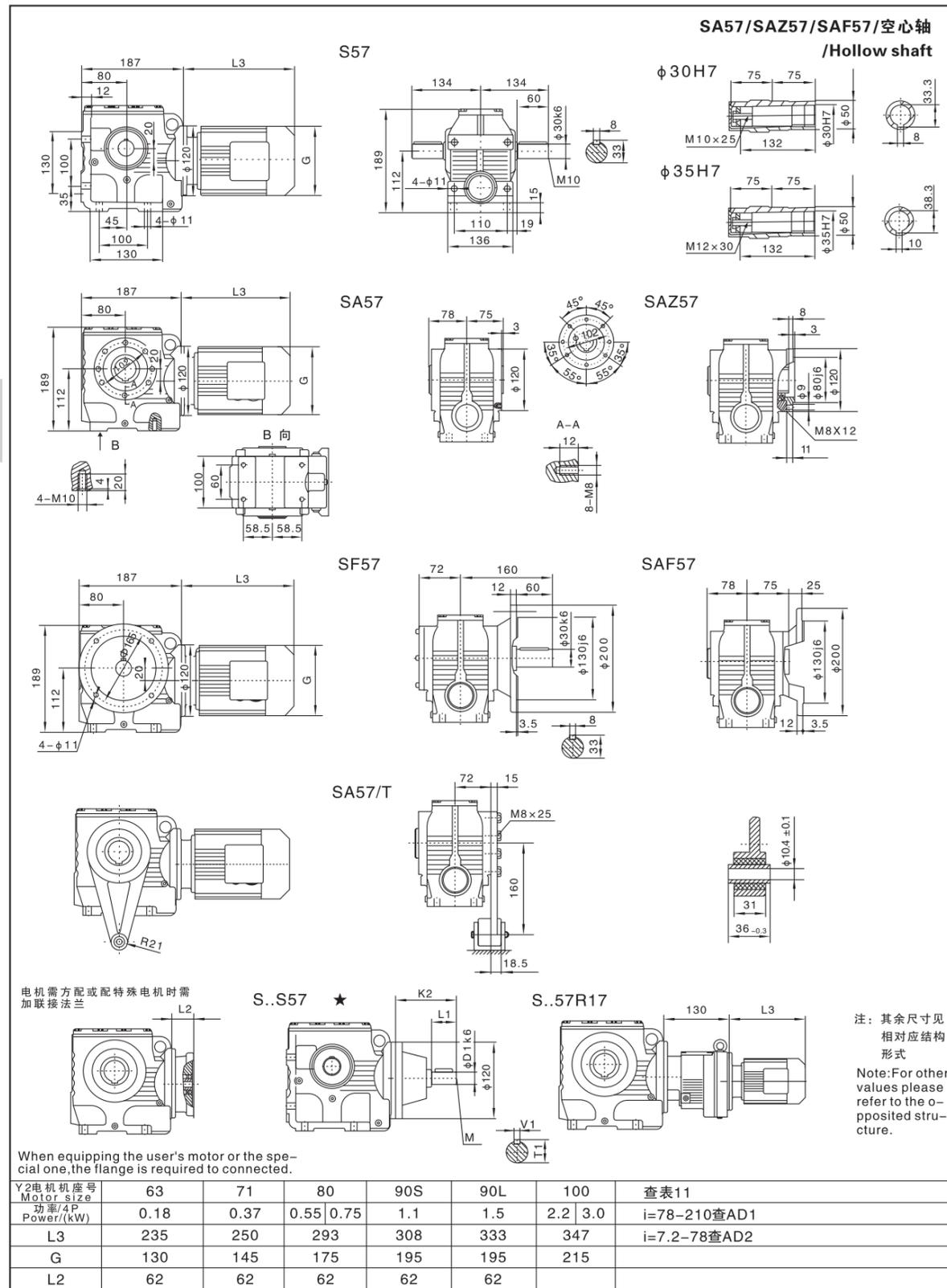




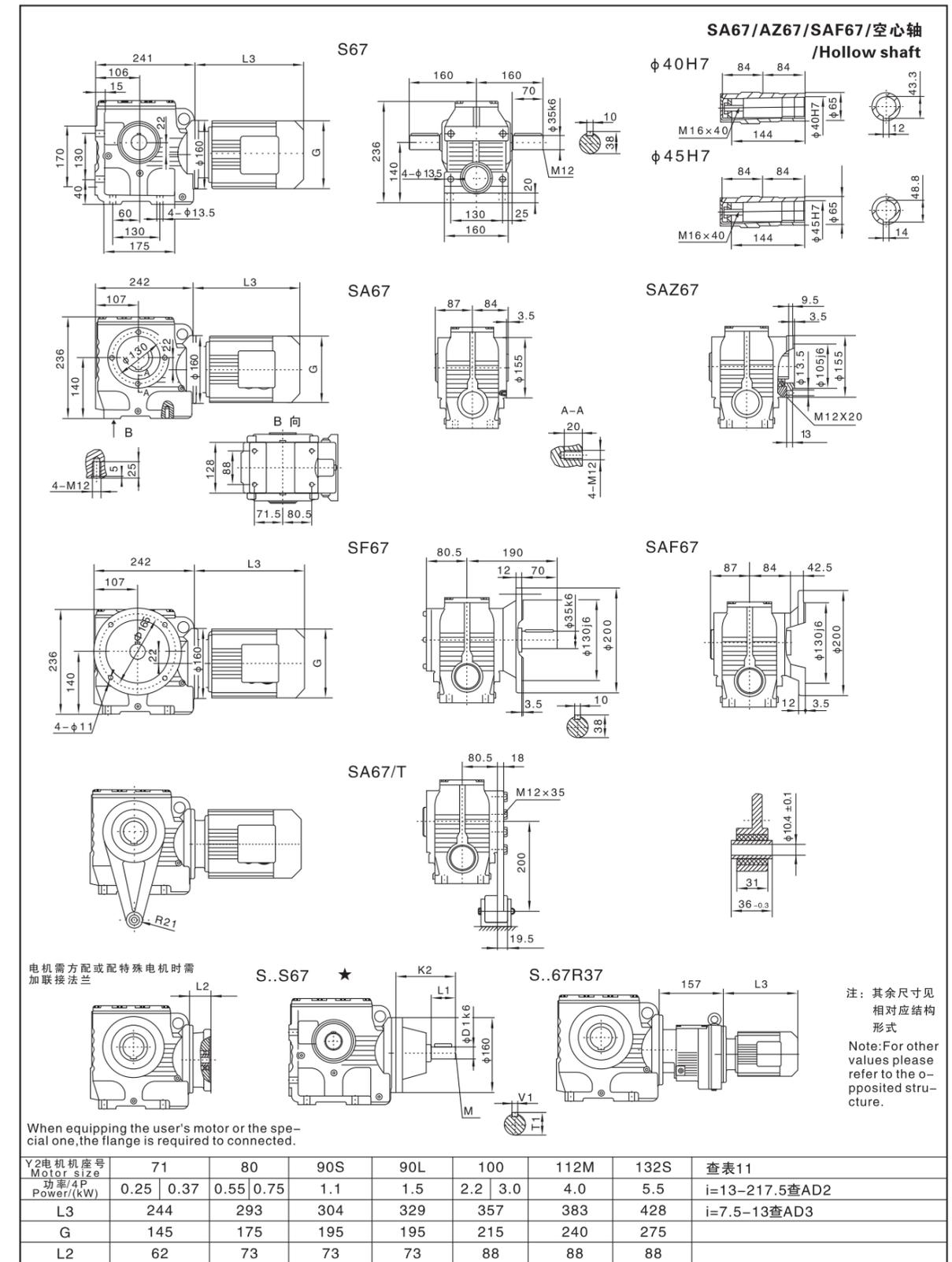
注:1SA、SF、SAF、SAZ壳体为通用件, 安装尺寸均可相互参照。2.“S.”表示S、SA、SF、SAF、SAZ
 Note:1.The housing of SA、SF、SAF、SAZ are common parts, The mounting dimensions may consult each other. 2.*S*mean S、SA、SF、SAF、SAZ
 ★查15-16页 Search Page15-16



注:1SA、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 housing of SA、SF、SAF、SAZ are common parts, The mounting dimensions may consult each other. 2.*S*mean S、SA、SF、SAF、SAZ
 ★查15-16页 Search Page15-16



注:1SA、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 housing of SA、SF、SAF、SAZ are common parts, The mounting dimensions may consult each other. 2.“S..”mean S、SA、SF、SAF、SAZ
★查15-16页 Search Page15-16



注:1SA、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 housing of SA、SF、SAF、SAZ are common parts, The mounting dimensions may consult each other. 2.“S..”mean S、SA、SF、SAF、SAZ
★查15-16页 Search Page15-16

SA67/SAZ67/SAF67/空心轴 /Hollow shaft

S77
 $\phi 50H7$
 $\phi 60H7$

SA77
 $\phi 50H7$
 $\phi 60H7$

SF77
 $\phi 50H7$
 $\phi 60H7$

SA77/T

S..S77 ★
S..77R37

电机需方配或配特殊电机时需加联接法兰
 When equipping the user's motor or the special one, the flange is required to be connected.

Y2电机座号 Motor size	80	90S	90L	100	112M	132S	132M	查表11
功率/kW Power/(kW)	0.55 0.75	1.1	1.5	2.2 3.0	4.0	5.5	7.5	i=40-256.5查AD2
L3	292	297	322	354	391	430	463	i=12-40查AD3
G	175	195	195	215	240	275	275	i=8-12查AD4
L2	72	72	72	88	88	88	88	

注: 其余尺寸见相对应结构形式
 Note: For other values please refer to the o-pposited structure.

SA67/SAZ67/SAF67/空心轴 /Hollow shaft

S87
 $\phi 60H7$
 $\phi 70H7$

SA87
 $\phi 60H7$
 $\phi 70H7$

SF87
 $\phi 60H7$
 $\phi 70H7$

SA87/T

S..S87 ★
S..87R57

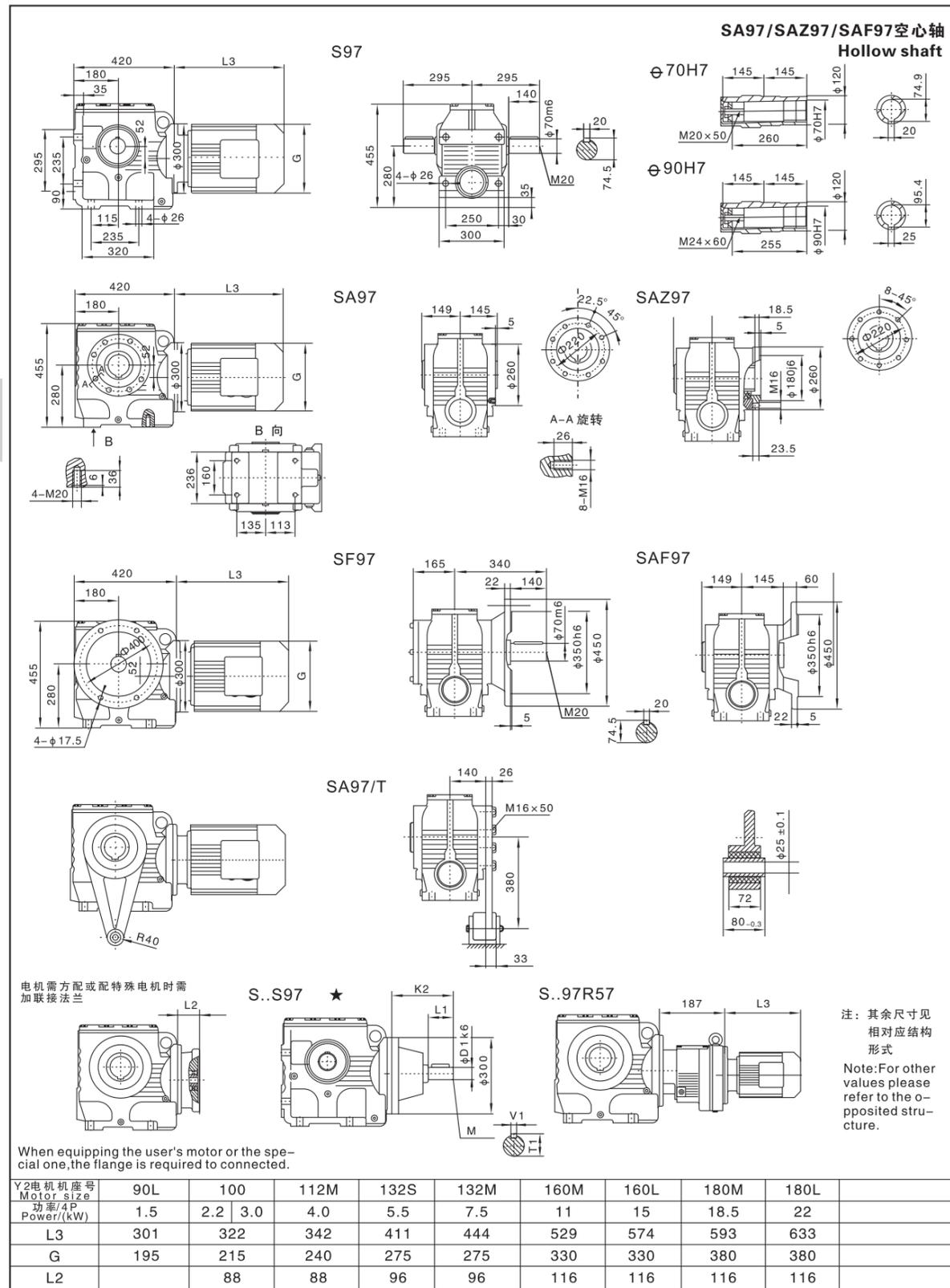
电机需方配或配特殊电机时需加联接法兰
 When equipping the user's motor or the special one, the flange is required to be connected.

Y2电机座号 Motor size	80	90S	90L	100	112M	132S	132M	160M	160L
功率/kW Power/(kW)	0.75	1.1	1.5	2.2 30	4.0	5.5	7.5	11	15
L3	261	284	309	351	371	417	450	538	583
G	175	195	195	215	240	275	275	330	330
L2	81	81	81	81	81	88	88	114	114

注: 其余尺寸见相对应结构形式
 Note: For other values please refer to the o-pposited structure.

注: 1SA、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 housing of SA、SF、SAF、SAZ are common parts, The mounting dimensions may consult each other. 2. "S.."mean S、SA、SF、SAF、SAZ
 ★查15-16 Search Page15-16

注: 1SA、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 housing of SA、SF、SAF、SAZ are common parts, The mounting dimensions may consult each other. 2. "S.."mean S、SA、SF、SAF、SAZ
 ★查15-16页 Search Page15-16 查表11: i=64-288查AD2 i=26-64查AD3 i=7.8-26查AD4



注: 1SA、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 housing of SA、SF、SAF、SAZ are common parts, The mounting dimensions may consult each other. 2. "S.." mean S、SA、SF、SAF、SAZ
 查15-16页 Search Page15-16 查表11: i=65-286.4查AD3 i=27-65查AD4 i=8.26-27查AD5