

AC/DC Gear Motor

交直流减速电动机



电动机型号说明 Description Of Motor Model

5 1 K 40 R GN -C T E
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

- ① 电动机的尺寸 Motor Frame Size 0:42mm 2:60mm 3:70mm 4:80mm 5:90mm 6:104mm
- ② 类型名称 Motor Type I:感应电动机 Induction Motors R:可逆电动机 Reversible Motors T:转矩电动机 Torque Motors
- ③ 系列名称 Series K:K系列 K Series
- ④ 输出功率 Output Power(W) (例.e.g.)40:40W
- ⑤ R:表示带调速电动机; 无:表示未带 The Suffix "-R" after the Output Power Means Speed Adjustable Motor.
- ⑥ 转轴形状 Motor Shaft Type GN:GN型齿轮轴 GN Type: Pinion Shaft GU:GU型齿轮轴 GU Type: Pinion Shaft
A:圆轴型 Round Shaft A1:键槽型 Keyway
- ⑦ 电源电压·极数 Power Supply Voltage·Poles
A:单相 Single-Phase 100V50/60Hz4P H:单相 Single-Phase 220/230V60Hz4P
B:单相 Single-Phase 110V50Hz2P S:三相 Three-Phase 200/220/230V50/60Hz4P
C:单相 Single-Phase 220/230V50Hz4P S3:三相 Three-Phase 380/400/415V50/60Hz4P
D:单相 Single-Phase 220V50Hz2P T:三相 Three-Phase 200/220/230V50/60Hz2P
E:单相 Single-Phase 110/120V60Hz4P T3:三相 Three-Phase 380/400/415V50/60Hz2P
- ⑧ T:带端子箱型 Terminal Box Type F:带风扇 W/Fan FF:带强制风扇 W/Forced Fan
M:无励磁动作型电磁制动电动机 Power of Activated Type Electromagnetic Brake Motor
- ⑨ 附属电容器的种类 Capacitor Type J:单相 100V、110V、120V 用 电 容 器 For Single-Phase 100V、110V、120VAC
E:单相 220/230V 用 电 容 器 For Single-Phase 220/230VAC
Blank: Three-Phase Type

电动机铭牌上记载的型号上, 并无标示电容器种类的 (J、E) 记号。各种安全规格以电动机铭牌上的型号取得认证。
The types of capacitor (e.g. J, E) are not marked on the nameplate. When the motor is approved under various safety standards, the model name on the nameplate is the approved model name.

减速器型号说明 Description Of Reducer Model

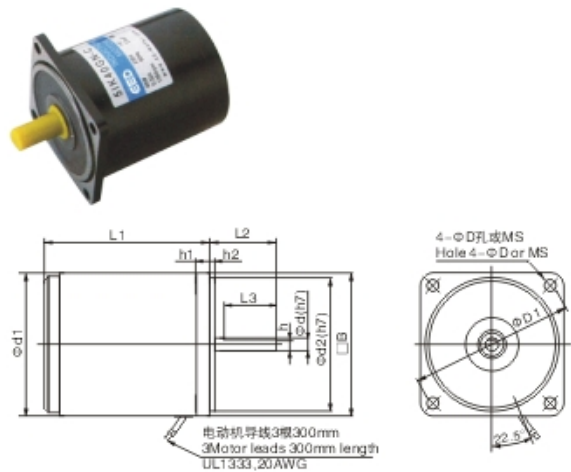
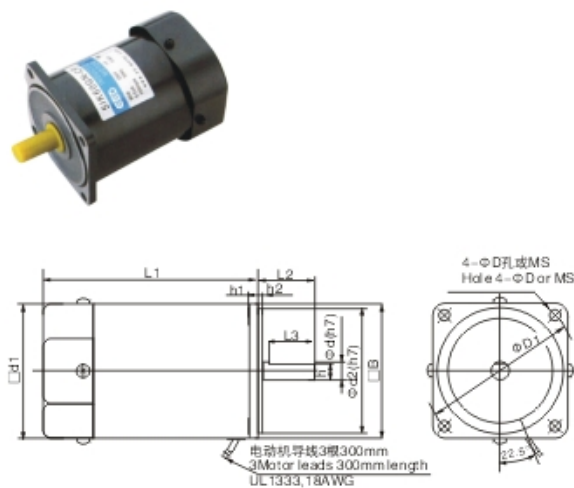
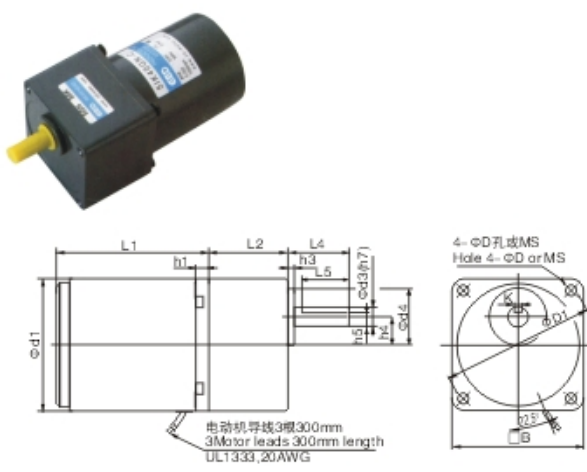
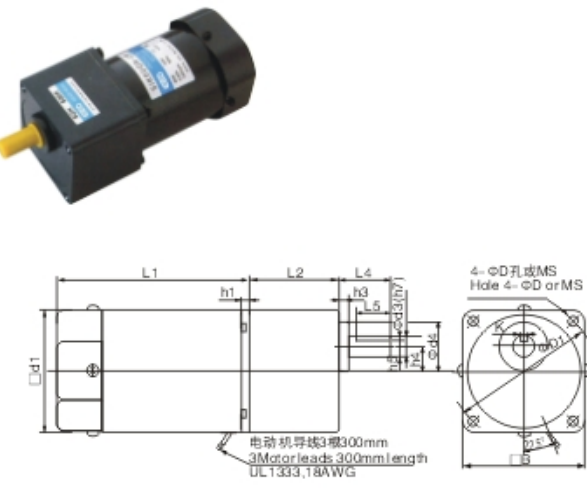
5 GN 50 K
① ② ③ ④

- ① 减速器安装尺寸 Gearhead Frame Size 0:42mm 2:60mm 3:70mm 4:80mm 5:90mm 6:104mm
- ② 齿轴类型 Type of Pinion GN:GN型齿轮 GN Type Gear GU:GU型齿轮 GU Type Gear
- ③ 减速比 Gear Ratio (例.e.g.)50:减速比 Ratio 1:50
10x 仅限减速比 1:10 的中间减速比 10x denotes the decimal gearhead of ratio 1:10
- ④ 轴承种类 Bearing Type K:滚珠轴承 (对GU型方箱体标注为KB) Bearing (Make KB for type GU square case)

电动机的一般规格 General Specification Of Motors

1W-180W型

项目 Item	规格 Specifications
绝缘电阻 Insulation Resisitance	于常温·常湿下的电动机额定运行后, 以DC500V电阻表测量线圈·外壳间时, 测量值为100MΩ以上。 In the circumstance of normal ambient temperature and humidity, the resistance can be up to 100MΩ or more When 500VDC megger is applied between the winding and the frame after rated motor operations.
绝缘电压 Dielectric Strength	于常温·常湿下的电动机额定运行后, 在线圈·外壳间施加一分钟50Hz或60Hz、1.5kV(三相400V为2kV)的电压, 亦无异常。 In the circumstance of normal ambient temperature and humidity, there will be no problem to withstand 1.5kV (three phase 400v:2kV) at 50/60Hz between the windings and the frame for 1 minute after rated motor operation.
温度上升 Temperature Rise	在装上减速器或同等散热, 并于常温下进行额定运行时, 以电阻法测定其线圈温度上升值为80℃以下 (三相型为70℃以下) Temperature rise of windings are 80℃ or less measured by the resistance change method after rated motor Operation with connecting a gearhead or Equivalent heat radiation plate ※(Three-phase type:70℃ or less)
绝缘等级 Insulation Class	UL/CSA规格: A种 (105℃) EN规格: B种 (130℃)、F种 (155℃) UL/CSA Standards: Class A(105℃) EN Standards: Class B(130℃)、Class F(155℃)
过热保护装置 Overheat Protection	内置热保护装置 (自动复位型), Thermal Protector inside (automatic return) B种 (开放: 120℃±5℃、75℃±15℃) F种 (开放: 145℃±5℃、100℃±15℃) Class B(opening: 120℃±5℃、75℃±15℃) Class F(opening: 145℃±5℃、100℃±15℃)
使用环境温度 Ambient Temperature	单相100V、三相200V: -10~+50℃ (无结冰), 其他电压: -10~+40℃ (无结冰) Single-Phase 100VAC、Three-Phase 200VAC: -10~+50℃(Nonfreezing), Others: -10~+40℃(Nonfreezing)
使用环境湿度 Ambient Humidity	85%以下 (无结露) 85% or less (Noncondensing)
保护等级 Degerr of Protection	导线型 Lead wire type: IP20 带端子箱型: Terminal Box Type 单相 Single-phase 100V50/60Hz、110/120V60Hz、220/230V50Hz、220/230V60Hz 25W-180W Type: IP54 (不包括圆轴安装面 Excluding the installation surface of the round shaft type) 三相 Three-phase 200/220/230V//50/60Hz、380/400/415V/50/60Hz 25W-180W Type: IP54 (不包括圆轴安装面 Excluding the installation surface of the round shaft type)

3~40W感应电动机光机外形图
3~40W Induction bare motor dimension60~180W感应电动机光机外形图
60~180W Induction bare motor dimension3~40W感应减速电动机整机外形图
3~40W Induction gear motor dimension60~180W感应减速电动机整机外形图
60~180W Induction gear motor dimension

▼ 外形安装尺寸 Appearance Installation Size

系列 Series	名称 Type	感应电动机外形安装尺寸 Induction motor assembling dimension																		单位: Unit(mm)				
	尺寸 Dimension	d	d1	d2	d3	d4	L	L1	L2	L3	L4	L5	h	h1	h2	h3	h4	h5	D	D1	S	B	D	
	功率 Power																							
0IK	3W	5	□42	37.6	5	18	28.5	64	20	—	20	12	—	5	1.5	3	8	4.5	3.5	48	—	42	—	
2IK	6W	6	60	55	8	25	32/42	75	24	17	30	27	5	6.5	2	3	10	7	5	70	4	60	—	
3IK	15W	6	69	65	10	25	32/42	80	32	25	33	25	5	7	2	3	15	7.5	6	82	5	70	4	
4IK	25W	8	79	73	10	32	32/42.5	85	32	25	33	25	7	7	2	3	15	7.5	6	94	5	80	4	
5IK	40W	10	89	83	12	36	42/60	105	37	30	32	25	9	8	2	5	18	9.5	6.5	104	6	90	4	
	60W(GN)	12	90	83	12	36	42/60	126	37	30	32	25	11	8	2	5	18	9.5	6.5	104	6	90	4	
	60W(GU)	12	90	83	15	36	65.5	126	37	30	38	25	11	8	2	7.5	18	12	6.5	104	6	90	5	
	90W	12	90	83	15	36	65.5	141	37	30	38	25	11	8	2	7.5	18	12	6.5	104	6	90	5	
	120W	12	90	83	15	36	65.5	141	37	30	38	25	11	8	2	7.5	18	12	6.5	104	6	90	5	
6IK	120W	12	104	94	15	46	72	187	37	30	42	25	11	10	2	10	20	12	9	120	8	104	5	
	140W	12	104	94	15	46	72	187	37	30	42	25	11	10	2	10	20	12	9	120	8	104	5	
	180W	12	104	94	15	46	72	187	37	30	42	25	11	10	2	10	20	12	9	120	8	104	5	

注: L部分尺寸, 斜线 "/" 前表示速比为3~18时的齿轮箱长度; 斜线后表示速比为25~200时的齿轮箱长度。

Note: L, the number before "/" represents the length of the gearbox with the reduction from 3 to 18, while the number after represents the length of the gearbox with the reduction from 25 to 200.

▼ 规格Specs 连续额定 Cont. rated

型号 Model · 类型 Type 导线型 Lead Wire Type		输出功率 Output Power	电压 Voltage	频率 Frequency	电流 Current	启动转矩 Starting Torque	额定转矩 Rated Torque	额定转速 Rated Speed	电容器容量 Capacitor		
齿轮轴型 Pinion Shaft	圆轴型 Round Shaft									W	V
OIK3GN-BJ	OIK3A-BJ	3	1ph110	50	0.120	5	11	2500	1.5		
				60	0.130		10	3000			
OIK3GN-DE	OIK3A-DE			6	1ph220	50	0.060	5	11	2500	0.35
						60	0.064		10	3000	
2IK6GN-AJ	2IK6A-AJ	6	1ph100			50	0.240	55	48	1200	3.5
						60	0.250	50	40	1450	
2IK6GN-CE	2IK6A-CE			6	1ph220	50	0.130	50	48	1200	0.8
						60	0.110		40	1450	
2IK6GN-S	2IK6A-S	15	3ph220			50	0.076	85	48	1200	-
						60	0.065	70	40	1450	
3IK15GN-AJ	3IK15A-AJ			15	1ph100	50	0.35	90	125	1200	6.0
						60	0.33	85	105	1450	
3IK15GN-CE	3IK15A-CE	15	1ph220			50	0.18	90	125	1200	1.2
						60	0.20		105	1450	
3IK15GN-S	3IK15A-S			25	3ph220	50	0.14	220	125	1200	-
						60	0.12	180	105	1450	
4IK25GN-AJ	4IK25A-AJ	25	1ph100			50	0.45	120	200	1250	8.0
						60	0.50		165	1550	
4IK25GN-CE	4IK25A-CE			25	1ph220	50	0.25	120	200	1250	1.5
						60	0.23		160	1550	
4IK25GN-S	4IK25A-S	40	3ph220			50	0.185	350	200	1250	-
						60	0.170	250	160	1550	
5IK40GN-AJ	5IK40A-AJ			40	1ph100	50	0.65	220	315	1250	12.0
						60	0.70		260	1550	
5IK40GN-CE	5IK40A-CE	40	1ph220			50	0.35	220	315	1250	2.5
						60	0.40		250	1550	
5IK40GN-S	5IK40A-S			60	3ph220	50	0.30	800	315	1250	-
						60	0.25	660	250	1550	
5IK60GN-AFJ	5IK60A-AFJ	60	1ph100			50	1.00	320	470	1250	20.0
						60	1.10		380	1550	
5IK60GN-CFE	5IK60A-CFE			60	1ph220	50	0.50	340	470	1250	4.0
						60	0.55		470	1250	
5IK60GN-SF	5IK60A-SF	90	3ph220			50	0.45	1000	470	1250	-
						60	0.40	800	380	1550	
5IK60GU-AFJ	-			60	1ph100	50	1.00	320	470	1250	20.0
						60	1.10		380	1550	
5IK60GU-CFE	-	60	1ph220			50	0.50	340	470	1250	4.0
						60	0.55		470	1250	
5IK60GU-SF	-			90	3ph220	50	0.45	1000	470	1250	-
						60	0.40	800	380	1550	
5IK90GU-AFJ	5IK90A-AFJ	90	1ph100			50	1.55	450	700	1250	25.0
						60	1.85		570	1550	
5IK90GU-CFE	5IK90A-CFE			90	1ph220	50	0.72	450	700	1250	5.0
						60	0.70		700	1250	
5IK90GU-SF	5IK90A-SF	120	3ph220			50	0.60	1350	700	1250	-
						60	0.55	1100	570	1550	
5IK120GU-AFJ	5IK120A-AFJ			120	1ph100	50	2.1	600	930	1250	30.0
						60	2.5		750	1550	
5IK120GU-CFE	5IK120A-CFE	120	1ph220			50	1.0	650	930	1250	7.0
						60	0.95		750	1550	
5IK120GU-SF	5IK120A-SF			120	3ph220	50	0.70	1850	930	1250	-
						60	0.60	1600	750	1550	
6IK120GU-AFJ	6IK120A-AFJ	120	1ph100			50	2.1	600	930	1250	30.0
						60	2.5		750	1550	
6IK120GU-CFE	6IK120A-CFE			120	1ph220	50	1.0	750	930	1250	8.0
						60	0.95		930	1250	
6IK120GU-SF	6IK120A-SF	180	3ph220			50	0.75	2200	930	1250	-
						60	0.70	2000	730	1600	
6IK140GU-AFJ	6IK140A-AFJ			140	1ph100	50	2.7	700	1080	1250	35.0
						60	3.0		870	1550	
6IK140GU-CFE	6IK140A-CFE	140	1ph220			50	1.05	850	1080	1250	10.0
						60	1.15		1080	1250	
6IK140GU-SF	6IK140A-SF			180	3ph220	50	0.85	2700	1080	1250	-
						60	0.75	2200	870	1550	
6IK180GU-AFJ	6IK180A-AFJ	180	1ph100			50	3.2	900	1385	1250	45.0
						60	3.5		1120	1550	
6IK180GU-CFE	6IK180A-CFE			180	1ph220	50	1.4	1100	1385	1250	12.0
						60	1.20		1385	1250	
6IK180GU-SF	6IK180A-SF	180	3ph220			50	1.20	3400	1385	1250	-
						60	1.0	2700	1120	1550	

▼ 装有减速器时的容许力矩 Allowable Torque When Being With Gearbox

容许力矩单位 Allowance Torque Unit: 上段Upside(N.m)/下段Belowside(kgf.cm)

类型Type	电动机Motor	减速器Gearhead	减速比Gear Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	200
OIK3GN-BJ OIK3GN-DE	OGN□K	50Hz	500	417	300	250	200	166	120	100	83	60	50	41	30	25	20	16	15	12.5	10	8.3	7.5	
		60Hz	600	500	360	300	240	200	144	120	100	72	60	50	36	30	24	20	18	15	12	10	9	
2IK6GN-AJ 2IK6GN-CE 2IK6GN-S	2GN□K	50Hz	0.027	0.032	0.045	0.053	0.067	0.080	0.10	0.12	0.14	0.18	0.22	0.26	0.36	0.44	/	/	/	/	/	/	/	
		60Hz	0.024	0.029	0.041	0.049	0.061	0.073	0.091	0.1	0.13	0.17	0.20	0.24	0.33	0.40	/	/	/	/	/	/	/	
3IK15GN-AJ 3IK15GN-CE 3IK15GN-S	3GN□K	50Hz	0.12	0.14	0.19	0.23	0.29	0.35	0.49	0.58	0.70	0.88	1.1	1.3	1.6	1.9	2.4	2.9	3	3	3	3	3	
		60Hz	1.22	1.43	1.94	2.35	2.96	3.57	5.0	5.92	7.14	8.98	11.2	13.3	16.3	19.4	24.5	29.6	30	30	30	30	30	
4IK25GN-AJ 4IK25GN-CE 4IK25GN-S	4GN□K	50Hz	0.10	0.12	0.16	0.19	0.24	0.29	0.41	0.49	0.58	0.73	0.88	1.1	1.3	1.6	2.0	2.4	2.6	3	3	3	3	
		60Hz	1.02	1.22	1.63	1.94	2.45	2.96	4.18	5.0	5.92	7.45	8.98	11.2	13.3	16.3	20.4	24.5	26.5	30	30	30	30	
5IK40GN-AJ 5IK40GN-CE 5IK40GN-S	5GN□K	50Hz	0.30	0.36	0.51	0.61	0.76	0.91	1.3	1.5	1.8	2.3	2.7	3.3	4.1	5	5	5	5	5	5	5	5	
		60Hz	3.06	3.67	5.20	6.22	7.75	9.28	13.2	15.3	18.3	23.4	27.5	33.7	41.8	50	50	50	50	50	50	50	50	
6IK60GN-AJ 6IK60GN-CE 6IK60GN-SF	6GN□K	50Hz	0.26	0.31	0.43	0.51	0.64	0.77	1.1	1.3	1.5	1.9	2.3	2.8	3.5	4.2	5	5	5	5	5	5	5	
		60Hz	2.65	3.16	4.38	5.20	6.53	7.85	11.2	13.2	15.3	19.3	23.4	28.5	35.7	42.8	50	50	50	50	50	50	50	
7IK90GU-AJ 7IK90GU-CE 7IK90GU-SF	7GN□K	50Hz	0.49	0.58	0.81	0.97	1.2	1.5	2.0	2.4	2.9	3.7	4.4	5.3	6.6	7.9	8	8	8	8	8	8	8	
		60Hz	5.00	5.91	8.26	9.89	12.2	15.3	20.4	24.4	29.6	37.7	44.9	54.1	67.3	80	80	80	80	80	80	80	80	
8IK120GU-AJ 8IK120GU-CE 8IK120GU-SF	8GN□K	50Hz	0.40	0.48	0.67	0.80	1.0	1.2	1.7	2.0	2.4	3.0	3.6	4.3	5.4	6.5	8	8	8	8	8	8	8	
		60Hz	4.08	4.89	6.83	8.16	10.2	12.2	17.3	20.4	24.4	30.6	36.7	43.8	55.1	66.3	80	80	80	80	80	80	80	
9IK180GU-AJ 9IK180GU-CE 9IK180GU-SF	9GN□K	50Hz	0.77	0.92	1.3	1.5	1.9	2.3	3.2	3.8	4.6	5.7	6.9	8.3	10	10	10	10	10	10	10	10	10	
		60Hz	7.85	9.38	13.2	15.3	19.4	23.4	32.6	38.7	46.9	58.1	70.4	84.7	100	100	100	100	100	100	100	100	100	
10IK250GU-AJ 10IK250GU-CE 10IK250GU-SF	10GN□K	50Hz	0.63	0.76	1.1	1.3	1.6	1.9	2.6	3.0	3.8	4.7	5.7	6.8	8	10	10	10	10	10	10	10	10	
		60Hz	6.42	7.75	11.2	13.2	16.3	19.3	26.5	32.6	38.7	47.9	58.1	69.3	80	100	100	100	100	100	100	100	100	
11IK360GU-AJ 11IK360GU-CE 11IK360GU-SF	11GN□K	50Hz	1.1	1.4	1.9	2.3	2.9	3.4	4.8	5.7	6.8	8.6	10	10	10	10	10	10	10	10	10	10	10	
		60Hz	11.2	14.2	19.3	23.4	29.6	34.7	48.9	58.1	69.3	87.7	100	100	100	100	100	100	100	100	100	100	100	
12IK500GU-AJ 12IK500GU-CE 12IK500GU-SF	12GN□K	50Hz	0.92	1.1	1.5	1.8	2.3	2.8	3.8	4.6	5.5	6.9	8.3	10	10	10	10	10	10	10	10	10	10	
		60Hz	9.38	11.2	15.3	18.3	23.4	28.5	38.7	46.9	56.1	70.1	84.7	100	100	100	100	100	100	100	100	100	100	
13IK720GU-AJ 13IK720GU-CE 13IK720GU-SF	13GN□K	50Hz	1.1	1.4	1.9	2.3	2.9	3.4	4.3	5.1	6.2	7.7	9.3	11.2	15.5	18.6	20	20	20	20	20	20	20	
		60Hz	11.2	14.2	19.3	23.4	29.6	34.7	43.9	52.0	63.2	78.6	95.0	114	158	190	200	200	200	200	200	200	200	
14IK1000GU-AJ 14IK1000GU-CE 14IK1000GU-SF	14GN□K	50Hz	0.92	1.1	1.5	1.8	2.3	2.8	3.5	4.2	5.0	6.3	7.5	9.0	12.5	15.0	18.8	20	20	20	20	20	20	
		60Hz	9.38	11.2	15.3	18.3	23.4	28.5	35.7	42.9	51.0	64.3	76.5	92	128	153	192	200	200	200	200	200	200	
15IK1400GU-AJ 15IK1400GU-CE 15IK1400GU-SF	15GN□K	50Hz	1.7	2.0	2.8	3.4	4.3	5.1	6.4	7.7	9.2	11.6	13.6	16.6	20	20	20	20	20	20	20	20	20	
		60Hz	17.3	20.4	28.6	34.7	43.9	52.0	65.3	78.6	93.3	118	142	169	200	200	200	200	200	200	200	200	200	
16IK1800GU-AJ 16IK1800GU-CE 16IK1800GU-SF	16GN□K	50Hz	1.4	1.7	2.3	2.8	3.5	4.2	5.2	6.2	7.5	9.4	11.3	13.5	18.8	20	20	20	20	20	20	20	20	
		60Hz	14.3	17.3	23.5	28.6	35.7	42.9	53.1	63.3	76.5	95.9	115	138	192	200	200	200	200	200	200	200	200	
17IK2500GU-AJ 17IK2500GU-CE 17IK2500GU-SF	17GN□K	50Hz	2.3	2.7	3.8	4.5	5.6	6.8	8.5	10.2	12.2	15.3	18.4	20	20	20	20	20	20	20	20	20	20	
		60Hz	23.4	27.5	38.7	45.9	57.1	69.3	86.7	104	124	156	187	200	200	200	200	200	200	200	200	200	200	
18IK3600GU-AJ 18IK3600GU-CE 18IK3600GU-SF	18GN□K	50Hz	1.8	2.2	3.0	3.6	4.6	5.5	6.8	8.2	9.8	12.4	14.9	17.8	20	20	20	20	20	20	20	20	20	
		60Hz	18.3	22.4	30.6	36.7	46.9	56.1	69.5	83.6	100	126	152	181	200	200	200	200	200	200	200	200	200	
19IK5000GU-AJ 19IK5000GU-CE 19IK5000GU-SF	19GN□K	50Hz	2.3	2.7	3.8	4.5	5.6	6.8	8.5	10.2	12.2	15.3	18.4	20	20	20	20	20	20	20	20	20	20	
		60Hz	23.4	27.5	38.7	45.9	57.1	69.3	86.7	104	124	156	187	200	200	200	200	200	200	200	200	200	200	
20IK7200GU-AJ 20IK7200GU-CE 20IK7200GU-SF	20GN□K	50Hz	1.8	2.2	3.0	3.6	4.6	5.5	6.8	8.2	9.8	12.4	14.9	17.8	20	20	20	20	20	20	20	20	20	
		60Hz	18.3	22.4	30.6	36.7	46.9	56.1	69.3	83.6	100	126	152	181	200	200	200	200	200	200	200	200	200	
21IK10000GU-AJ 21IK10000GU-CE 21IK10000GU-SF	21GN□K	50Hz	2.6	3.1	4.4	5.2	6.6	7.9	9.9	11.8	14.2	17.8	21.4	25.7	30.6	40	40	40	40	40	40	40	40	
		60Hz	26.5	31.6	44.8	53.0	67.3	80.6	101	120	144	181	218	262	363	400	400	400	400	400	400	400	400	
22IK14000GU-AJ 22IK14000GU-CE 22IK14000GU-SF	22GN□K	50Hz	2.1	2.5	3.5	4.2	5.3	6.3	7.9	9.5	11.4	14.4	17.2	20.7	28.7	34.5	40	40	40	40	40	40	40	
		60Hz	21.4	25.5	35.7	42.8	54.0	63.2	80.6	96.9	116	147	175	211	292	352	400	400	400	400	400	400	400	
23IK18000GU-AJ 23IK18000GU-CE 23IK18000GU-SF	23GN□K	50Hz	3.4	4.0	5.6	6.7	8.4	10.1	12.6	15.2	18.2	22.8	27.4	32.9	40	40	40	40	40	40	40	40	40	
		60Hz	34.6	40.8	57.1	68.3	85.6	103	128	155	185	232	279	335	400	400	400	400	400	400	400	400	400	
24IK25000GU-AJ 24IK25000GU-CE 24IK25000GU-SF	24GN□K	50Hz	2.7	3.3	4.5	5.4	6.8	8.2	10.2	12.3	14.7	18.5	22.2	26.6	37	40	40	40	40	40	40	40	40	
		60Hz	27.5	33.6	45.9	55.1	69.3	83.6	104	125	150	188	226	271	377	400	400	400	400	400	400	400	400	

● 减速器容许力矩带“□”色表示与电动机同一方向，其它则为相反方向。

● 转速是以电动机的同步转速（50Hz:1500r/min、60Hz:1800r/min）为基础除以减速比而计算出来的数值。

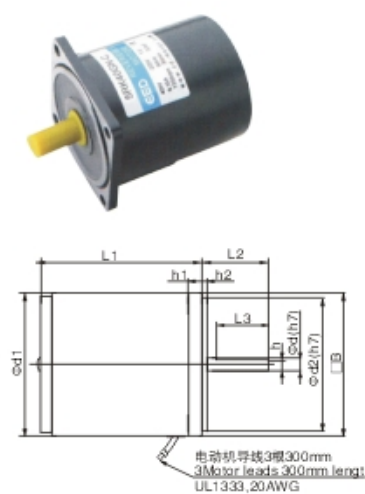
实际转速将随负载大小变化而比所示数值减少2%~20%左右

● “□” indicates the same rotating direction of the motor while the others rotate in the opposite direction.

● The speed is calculated by dividing the motor's synchronous speed(50Hz:1500r/min;60Hz:1800r/min)by the gear ratio.The accurate speed is 2%~20% less than displayed value,depending on the size of the load.

6~40W可逆电动机光机外形图

6~40W Reversible bare motor dimension



▼ 规格Specs 30分钟额定 30 Minutes Rating

型号Model · 类型Type 导线型Lead Wire Type		输出功率 Output Power	电压 Voltage	频率 Frequency	电流 Current	启动转矩 Starting Torque	额定转矩 Rated Torque	额定转速 Rated Speed	电容器容量 Capacitor
齿轮轴型 Pinion Shaft	圆轴型 Round Shaft	W	V	Hz	A	mN.m	mN.m	r/min	μ F
2RK6GN-AJ	2RK6A-AJ	6	1ph100	50	0.265	60	48	1200	4.0
				60	0.232	55	40	1450	
2RK6GN-CE	2RK6A-CE			50	0.145	55	48	1200	
			1ph220		0.150				1.0
			1ph230						
3RK15GN-AJ	3RK15A-AJ	15	1ph100	50	0.40	110	125	1200	7.0
				60	0.56	105	105	1450	
3RK15GN-CE	3RK15A-CE		1ph220	50	0.23	110	125	1200	1.5
			1ph230						
4RK25GN-AJ	4RK25A-AJ	25	1ph100	50	0.59	160	200	1250	10.0
				60	0.69	140	165	1550	
4RK25GN-CE	4RK25A-CE		1ph220	50	0.29	140			1.8
			1ph230		0.30	160	200	1250	
5RK40GN-AJ	5RK40A-AJ	40	1ph100	50	0.78	300	315	1250	15.0
				60	1.05		260	1550	
5RK40GN-CE	5RK40A-CE		1ph220	50	0.45	270	315	1250	3.0
			1ph230						
5RK60GN-AFJ	5RK60A-AFJ	60	1ph100	50	1.26	470	470	1250	25.0
				60	1.70		380	1550	
5RK60GN-CFE	5RK60A-CFE		1ph220	50	0.55	420	470	1250	4.5
			1ph230		0.60	460			
5RK60GU-AFJ	-	60	1ph100	50	1.26	470	470	1250	25.0
				60	1.70		380	1550	
5RK60GU-CFE	-		1ph220	50	0.55	420	470	1250	4.5
			1ph230		0.60	460			
5RK90GU-AFJ	5RK90A-AFJ	90	1ph100	50	1.78	600	700	1250	30.0
				60	2.35		570	1550	
5RK90GU-CFE	5RK90A-CFE		1ph220	50	0.82	560	700	1250	6.0
			1ph230		0.81				
5RK120GU-AFJ	5RK120A-AFJ	120	1ph100	50	2.25	700	930	1250	35.0
				60	2.85		750	1550	
5RK120GU-CFE	5RK120A-CFE		1ph220	50	1.15	720	930	1250	8.0
			1ph230						



▼ 装有减速器时的容许力矩 Allowable Torque When Being With Gearbox

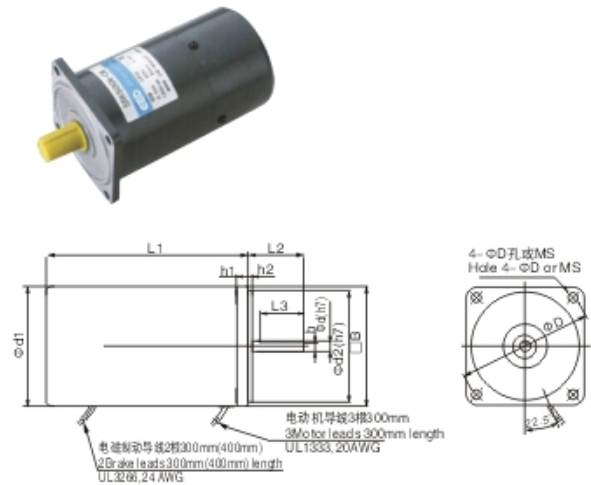
容许力矩单位 Allowance Torque Unit:上段Upside(N.m)/下段Belowside(kgf.com)

类型Type 电动机Motor 减速器Gearhead	减速比Gear Ratio		3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	200
	转速 Speed r/min	50Hz	500	417	300	250	200	166	120	100	83	60	50	41	30	25	20	16	15	12.5	10	8.3	7.5
			60Hz	600	500	360	300	240	200	144	120	100	72	60	50	36	30	24	20	18	15	12	10
2RK6GN-AJ 2RK6GN-CE	2GN□K	50Hz	0.12	0.14	0.19	0.23	0.29	0.35	0.49	0.58	0.70	0.88	1.1	1.3	1.6	1.9	2.4	2.9	3	3	3	3	3
			1.22	1.43	1.94	2.35	2.96	3.57	5.0	5.92	7.14	8.98	11.2	13.3	16.3	19.4	24.5	29.6	30	30	30	30	30
		60Hz	0.10	0.12	0.16	0.19	0.24	0.29	0.41	0.49	0.58	0.73	0.88	1.1	1.3	1.6	2.0	2.4	2.6	3	3	3	3
			1.02	1.22	1.63	1.94	2.45	2.96	4.18	5.0	5.92	7.45	8.98	11.2	13.3	16.3	20.4	24.5	26.5	30	30	30	30
3RK15GN-AJ 3RK15GN-CE	3GN□K	50Hz	0.30	0.36	0.51	0.61	0.76	0.91	1.3	1.5	1.8	2.3	2.7	3.3	4.1	5	5	5	5	5	5	5	5
			3.06	3.67	5.20	6.22	7.75	9.28	13.2	15.3	18.3	23.4	27.5	33.7	41.8	50	50	50	50	50	50	50	50
		60Hz	0.26	0.31	0.43	0.51	0.64	0.77	1.1	1.3	1.5	1.9	2.3	2.8	3.5	4.2	5	5	5	5	5	5	5
			2.65	3.16	4.38	5.20	6.53	7.85	11.2	13.2	15.3	19.3	23.4	28.5	35.7	42.8	50	50	50	50	50	50	50
4RK25GN-AJ 4RK25GN-CE	4GN□K	50Hz	0.49	0.58	0.81	0.97	1.2	1.5	2.0	2.4	2.9	3.7	4.4	5.3	6.6	7.9	8	8	8	8	8	8	8
			5.00	5.91	8.26	9.89	12.2	15.3	20.4	24.4	29.6	37.7	44.9	54.1	67.3	80	80	80	80	80	80	80	80
		60Hz	0.40	0.48	0.67	0.80	1.0	1.2	1.7	2.0	2.4	3.0	3.6	4.3	5.4	6.5	8	8	8	8	8	8	8
			4.08	4.89	6.83	8.16	10.2	12.2	17.3	20.4	24.4	30.6	36.7	43.8	55.1	66.3	80	80	80	80	80	80	80
5RK40GN-AJ 5RK40GN-CE	5GN□K	50Hz	0.77	0.92	1.3	1.5	1.9	2.3	3.2	3.8	4.6	5.7	6.9	8.3	10	10	10	10	10	10	10	10	10
			7.85	9.38	13.2	15.3	19.4	23.4	32.6	38.7	46.9	58.1	70.4	84.7	100	100	100	100	100	100	100	100	100
		60Hz	0.63	0.76	1.1	1.3	1.6	1.9	2.6	3.0	3.8	4.7	5.7	6.8	10	10	10	10	10	10	10	10	10
			6.42	7.75	11.2	13.2	16.3	19.3	26.5	32.6	38.7	47.9	58.1	69.3	100	100	100	100	100	100	100	100	100
5RK60GN-AFJ 5RK60GN-CFE	5GN□K	50Hz	1.1	1.4	1.9	2.3	2.9	3.4	4.8	5.7	6.8	8.6	10	10	10	10	10	10	10	10	10	10	10
			11.2	14.2	19.3	23.4	29.6	34.7	48.9	58.1	69.3	87.7	100	100	100	100	100	100	100	100	100	100	100
		60Hz	0.92	1.1	1.5	1.8	2.3	2.8	3.8	4.6	5.5	6.9	8.3	10	10	10	10	10	10	10	10	10	10
			9.38	11.2	15.3	18.3	23.4	28.5	38.7	46.9	56.1	70.1	84.7	100	100	100	100	100	100	100	100	100	100
5RK60GU-AFJ 5RK60GU-CFE	5GU□KB	50Hz	1.1	1.4	1.9	2.3	2.9	3.4	4.3	5.1	6.2	7.7	9.3	11.2	15.5	18.6	20	20	20	20	20	20	20
			11.2	14.2	19.3	23.4	29.6	34.7	43.9	52.0	63.2	78.6	95.0	114	158	190	200	200	200	200	200	200	200
		60Hz	0.92	1.1	1.5	1.8	2.3	2.8	3.5	4.2	5.0	6.3	7.5	9.0	12.5	15.0	18.8	20	20	20	20	20	20
			9.38	11.2	15.3	18.3	23.4	28.5	35.7	42.9	51.0	64.3	76.5	92	128	153	192	200	200	200	200	200	200
5RK90GU-AFJ 5RK90GU-CFE	5GU□KB	50Hz	1.7	2.0	2.8	3.4	4.3	5.1	6.4	7.7	9.2	11.6	13.6	16.6	20	20	20	20	20	20	20	20	20
			17.3	20.4	28.6	34.7	43.9	52.0	65.3	78.6	93.3	118	142	169	200	200	200	200	200	200	200	200	200
		60Hz	1.4	1.7	2.3	2.8	3.5	4.2	5.2	6.2	7.5	9.4	11.3	13.5	18.8	20	20	20	20	20	20	20	20
			14.3	17.3	23.5	28.6	35.7	42.9	53.1	63.3	76.5	95.9	115	138	192	200	200	200	200	200	200	200	200
5RK120GU-AFJ 5RK120GU-CFE	5GU□KB	50Hz	2.3	2.7	3.8	4.5	5.6	6.8	8.5	10.2	12.2	15.3	18.4	20	20	20	20	20	20	20	20	20	20
			23.4	27.5	38.7	45.9	57.1	69.3	86.7	104	124	156	187	200	200	200	200	200	200	200	200	200	200
		60Hz	1.8	2.2	3.0	3.6	4.6	5.5	6.8	8.2	9.8	12.4	14.9	17.8	20	20	20	20	20	20	20	20	20
			18.3	22.4	30.6	36.7	46.9	56.1	69.5	83.3	100	126	152	181	200	200	200	200	200	200	200	200	200

- 减速器容许力矩带“□”色表示与电动机同一方向，其它则为相反方向。
- 转速是以电动机的同步转速（50Hz:1500r/min、60Hz:1800r/min）为基础除以减速比而计算出来的数值。
- 实际转速将随负载大小变化而比所示数值减少2%~20%左右
- “□” indicates the same rotating direction of the motor while the others rotate in the opposite direction.
- The speed is calculated by dividing the motor's synchronous speed(50Hz:1500r/min;60Hz:1800r/min)by the gear ratio.The accurate speed is 2%~20% less than displayed value,depending on the size of the load.

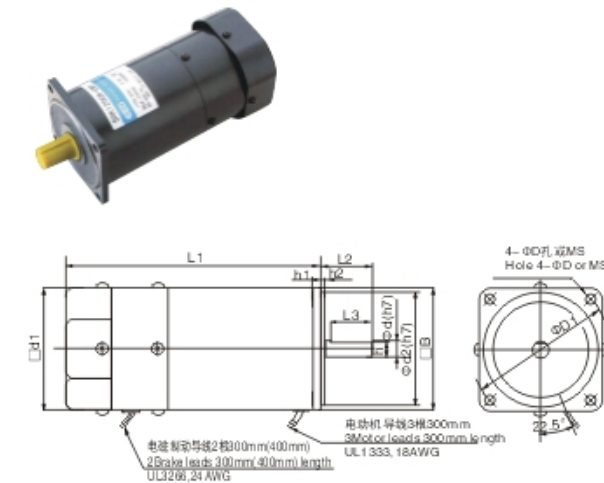
6~40W无励磁动作型电磁制动电动机光机外形图

6~40W Power off activated type electromagnetic brake bare motor dimension



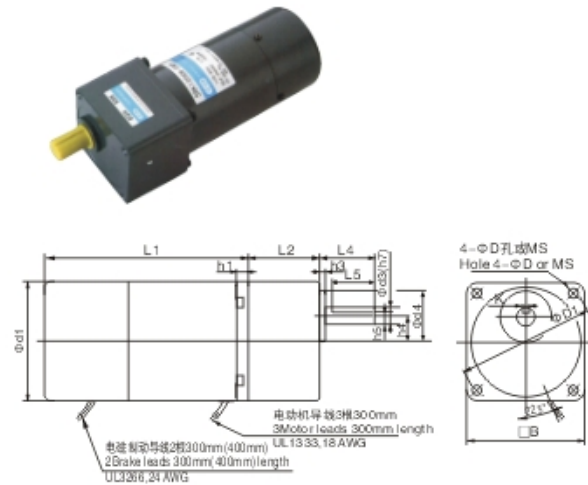
60~180W无励磁动作型电磁制动电动机光机外形图

6~40W Power off activated type electromagnetic brake bare motor dimension



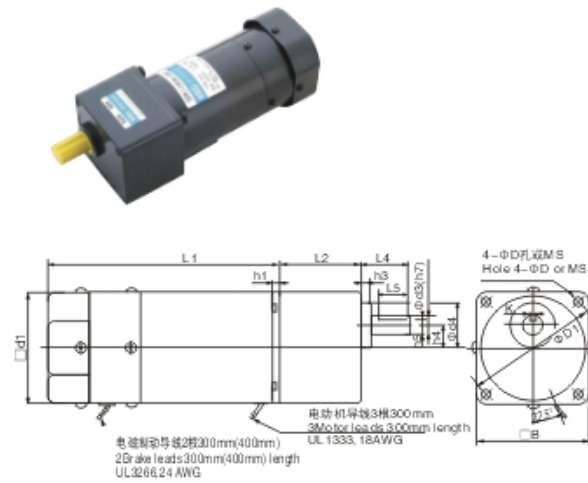
6~40W无励磁动作型电磁制动电动机整机外形图

6~40W Power off activated type electromagnetic brake gear motor dimension



6~40W无励磁动作型电磁制动电动机整机外形图

6~40W Power off activated type electromagnetic brake gear motor dimension



外形安装尺寸 Appearance Installation Size

单位:Unit(mm)

系列 Series	名称Type	无励磁动作型电磁制动电动机外形安装尺寸 Power Off Activated Type Electromagnetic Brake Motor assembling Dimension																					
	尺寸Dimension	d	d1	d2	d3	d4	L	L1	L2	L3	L4	L5	h	h1	h2	h3	h4	h5	D	D1	S	B	K
	功率Power																						
2RK	6W	6	60	55	8	25	32/42	115	24	17	30	27	5	6.5	1.5	3	10	7	5	70	4	60	-
3RK	15W	6	70	65	10	25	32/42	119	32	25	33	25	5	7	2	3	15	7.5	6	82	5	70	4
4RK	25W	8	80	73	10	32	32/42.5	131.5	32	25	33	25	7	7	2	3	15	7.5	6	94	5	80	4
5RK	40W	10	89	83	12	36	42/60	151	37	30	32	25	9	8	2	5	18	9.5	6.5	104	6	90	4
	60W(GN)	12	90	83	12	36	42/60	169.5	37	30	32	25	11	8	2	5	18	9.5	6.5	104	6	90	4
	60W(GU)	12	90	83	15	36	65.5	169.5	37	30	38	25	11	8	2	7.5	18	12	6.5	104	6	90	5
	90W	12	90	83	15	36	65.5	184.5	37	30	38	25	11	8	2	7.5	18	12	6.5	104	6	90	5
	120W	12	90	83	15	36	65.5	184.5	37	30	38	25	11	8	2	7.5	18	12	6.5	104	6	90	5
6RK	120W	12	104	94	15	46	72	185	37	30	42	25	11	10	2	10	20	12	9	120	8	104	5
	140W	12	104	94	15	46	72	185	37	30	42	25	11	10	2	10	20	12	9	120	8	104	5
	180W	12	104	94	15	46	72	185	37	30	42	25	11	10	2	10	20	12	9	120	8	104	5

注: L部分尺寸, 斜线“/”前表示速比为3~18时的齿轮箱长度; 斜线后表示速比为25~200时的齿轮箱长度。

Note: L, the number before “/” represents the length of the gearbox with the reduction from 3 to 18, while the number after represents the length of the gearbox with the reduction from 25 to 200.

规格 SPECS

没有内置简易制动 This type of motor does not contain a built-in simple brake mechanism.

型号 Model	类型 Type	额定 Rated	输出功率 Output Power	电压 Voltage	频率 Frequency	电流 Current	启动转矩 Starting Torque	额定转矩 Rated Torque	额定转速 Rated Speed	电容器容量 Capacitor
齿轮轴型 Pinion Shaft	圆轴型 Round Shaft		W	V	Hz	A	mN.m	mN.m	r/min	μF
2RK6GN-AMJ	2RK6A-AMJ	30min	6	1ph100	50	0.265	60	48	1200	4.0
				60	0.232	55	40	1450		
2RK6GN-CME	2RK6A-CME	30min		1ph220	50	0.145	55	48	1200	1.0
				1ph230		0.150				
2RK6GN-SM	2RK6A-SM	30min		3ph100	50	0.076	85	48	1200	-
				60	0.065	70	40	1450		
3RK15GN-AMJ	3RK15A-AMJ	30min	15	1ph100	50	0.40	110	125	1200	7.0
				60	0.56	105	105	1450		
3RK15GN-CME	3RK15A-CME	30min		1ph220	50	0.23	110	125	1200	1.5
				1ph230						
3RK15GN-SM	3RK15A-SM	30min		3ph100	50	0.14	220	125	1200	-
				60	0.12	180	105	1450		
4RK25GN-AMJ	4RK25A-AMJ	30min	25	1ph100	50	0.59	160	200	1250	10.0
				60	0.69	140	165	1550		
4RK25GN-CME	4RK25A-CME	30min		1ph220	50	0.29	140	200	1250	1.8
				1ph230		0.30				
4RK25GN-SM	4RK25A-SM	连续 Cont		3ph100	50	0.185	350	200	1200	-
				60	0.170	250	165	1550		
5RK40GN-AMJ	5RK40A-AMJ	30min	40	1ph100	50	0.78	300	315	1250	15.0
				60	1.05		260	1550		
5RK40GN-CME	5RK40A-CME	30min		1ph220	50	0.45	270	315	1250	3.0
				1ph230						
5RK40GN-SM	5RK40A-SM	连续 Cont		3ph100	50	0.30	800	315	1250	-
				60	0.25	660	250	1600		
5RK60GN-AFMJ	5RK60A-AFMJ	30min	60	1ph100	50	1.26	470	470	1250	25.0
				60	1.70		380	1550		
5RK60GN-CFME	5RK60A-CFME	30min		1ph220	50	0.55	420	470	1250	4.5
				1ph230		0.60	460			
5RK60GN-SFM	5RK60A-SFM	连续 Cont		3ph100	50	0.45	1000	470	1250	-
				60	0.40	800	380	1550		
5RK60GU-AFMJ	-	30min	60	1ph100	50	1.26	470	470	1250	25.0
				60	1.70		380	1550		
5RK60GU-CFME	-	30min		1ph220	50	0.55	420	470	1250	4.5
				1ph230		0.60	460			
5RK60GU-SFM	-	连续 Cont		3ph100	50	0.45	1000	470	1250	-
				60	0.40	800	380	1550		
5RK90GU-AFMJ	5RK90A-AFMJ	30min	90	1ph100	50	1.78	600	700	1250	30.0
				60	2.35		570	1550		
5RK90GU-CFME	5RK90A-CFME	30min		1ph220	50	0.82	560	700	1250	6.0
				1ph230		0.81				
5RK90GU-SFM	5RK90A-SFM	连续 Cont		3ph100	50	0.60	1350	700	1200	-
				60	0.55	1100	570	1550		
5RK120GU-AFMJ	5RK120A-AFMJ	30min	120	1ph100	50	2.25	700	930	1250	35.0
				60	2.85		750	1550		
5RK120GU-CFME	5RK120A-CFME	30min		1ph220	50	1.15	720	930	1250	8.0
				1ph230						
5RK120GU-SFM	5RK120A-SFM	连续 Cont		3ph100	50	0.70	1850	930	1250	-
				60	0.60	1600	750	1550		
6RK120GU-AMJ	6RK120A-AMJ	30min	120	1ph100	50	2.1	600	930	1250	35.0
				60	2.5		750	1550		
6RK120GU-CME	6RK120A-CME	30min		1ph220	50	0.95	750	930	1250	8.0
				1ph230						
6RK120GU-SM	6RK120A-SM	30min		3ph100	50	0.75	2200	890	1250	-
				60	0.70	2000	730	1550		
6RK140GU-AMJ	6RK140A-AMJ	30min	140	1ph100	50	2.7	700	1080	1250	35.0
				60	3.0		870	1550		
6RK140GU-CME	6RK140A-CME	30min		1ph220	50	1.05	850	1040	1250	10.0
				1ph230		1.15				
6RK140GU-SM	6RK140A-SM	30min		3ph100	50	0.85	2700	1080	1250	-
				60	0.75	2200	870	1550		
6RK180GU-AMJ	6RK180A-AMJ	30min	180	1ph100	50	3.2	900	1385	1250	45.0
				60	3.5		1120	1550		
6RK180GU-CME	6RK180A-CME	30min		1ph220	50	1.40	1100	1385	1250	12.0
				1ph230						
6RK180GU-SM	6RK180A-SM	30min		3ph100	50	1.20	3400	1385	1250	-
				60	1.00	2700	1120	1550		

▼ 装有减速器时的容许力矩 Allowable Torque When Being With Gearbox

容许力矩单位 Allowance Torque Unit 上段Upside(N.m)/下段Belowside(kg.f.cm)

类型Type 电动机Motor 减速器 Gearhead	减速比Gear Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	200
2RK6GN-AMJ 2RK6GN-CME 2RK6GN-SM	50Hz	500	417	300	250	200	166	120	100	83	60	50	41	30	25	20	16	15	12.5	10	8.3	7.5
	60Hz	600	500	360	300	240	200	144	120	100	72	60	50	36	30	24	20	18	15	12	10	9
3RK15GN-AMJ 3RK15GN-CME 3RK15GN-SM	50Hz	0.12	0.14	0.19	0.23	0.29	0.35	0.49	0.58	0.70	0.88	1.1	1.3	1.6	1.9	2.4	2.9	3	13	3	3	3
	60Hz	0.10	0.12	0.16	0.19	0.24	0.29	0.41	0.49	0.58	0.73	0.88	1.1	1.3	1.6	2.0	2.4	2.6	3	3	3	3
4RK25GN-AMJ 4RK25GN-CME 4RK25GN-SM	50Hz	0.30	0.36	0.51	0.61	0.76	0.91	1.3	1.5	1.8	2.3	2.7	3.3	4.1	5	5	5	5	5	5	5	5
	60Hz	0.26	0.31	0.43	0.51	0.64	0.77	1.1	1.3	1.5	1.9	2.3	2.8	3.5	4.2	5	5	5	5	5	5	5
5RK40GN-AMJ 5RK40GN-CME 5RK40GN-SM	50Hz	0.49	0.58	0.81	0.97	1.2	1.5	2.0	2.4	2.9	3.7	4.4	5.3	6.6	7.9	8	8	8	8	8	8	8
	60Hz	0.40	0.48	0.67	0.80	1.0	1.2	1.7	2.0	2.4	3.0	3.6	4.3	5.4	6.5	8	8	8	8	8	8	8
5RK60GN-AMJ 5RK60GN-CME 5RK60GN-SFM	50Hz	0.77	0.92	1.3	1.5	1.9	2.3	3.2	3.8	4.6	5.7	6.9	8.3	10	10	10	10	10	10	10	10	10
	60Hz	0.63	0.76	1.1	1.3	1.6	1.9	2.6	3.2	3.8	4.7	5.7	6.8	8.6	10	10	10	10	10	10	10	10
5RK60GU-AMJ 5RK60GU-CFME 5RK60GU-SFM	50Hz	1.1	1.4	1.9	2.3	2.9	3.4	4.8	5.7	6.8	8.6	10	10	10	10	10	10	10	10	10	10	10
	60Hz	0.92	1.1	1.5	1.8	2.3	2.8	3.8	4.6	5.5	6.9	8.3	10	10	10	10	10	10	10	10	10	10
5RK90GU-AMJ 5RK90GU-CFME 5RK90GU-SFM	50Hz	1.7	2.0	2.8	3.4	4.3	5.1	6.4	7.7	9.2	11.6	13.9	16.6	20	20	20	20	20	20	20	20	20
	60Hz	1.4	1.7	2.3	2.8	3.5	4.2	5.2	6.2	7.5	9.4	11.3	13.5	18.8	20	20	20	20	20	20	20	20
5RK120GU-AMJ 5RK120GU-CFME 5RK120GU-SFM	50Hz	2.3	2.7	3.8	4.5	5.6	6.8	8.5	10.2	12.2	15.3	18.4	20	20	20	20	20	20	20	20	20	20
	60Hz	1.8	2.2	3.0	3.6	4.6	5.5	6.8	8.2	9.8	12.4	14.9	17.8	20	20	20	20	20	20	20	20	20
6RK120GU-AMJ 6RK120GU-CME 6RK120GU-SM	50Hz	2.3	2.7	3.8	4.5	5.6	6.8	8.5	10.2	12.2	15.3	18.4	22.1	30.7	36.8	40	40	40	40	40	40	40
	60Hz	1.8	2.2	3.0	3.6	4.6	5.5	6.8	8.2	9.8	12.4	14.9	17.8	24.8	29.7	37.1	40	40	40	40	40	40
6RK140GU-AMJ 6RK140GU-CME 6RK140GU-SM	50Hz	2.6	3.1	4.4	5.2	6.6	7.9	9.9	11.8	14.2	17.8	21.4	25.7	35.6	40	40	40	40	40	40	40	40
	60Hz	2.1	2.5	3.5	4.2	5.3	6.3	7.9	9.5	11.4	14.4	17.2	20.7	28.7	34.5	40	40	40	40	40	40	40
6RK180GU-AMJ 6RK180GU-CME 6RK180GU-SM	50Hz	3.4	4.0	5.6	6.7	8.4	10.1	12.6	15.2	18.2	22.8	27.4	32.9	40	40	40	40	40	40	40	40	40
	60Hz	2.7	3.3	4.5	5.4	6.8	8.2	10.2	12.3	14.7	18.5	22.2	26.6	37	40	40	40	40	40	40	40	40

●减速器容许力矩带“□”色表示与电动机同一方向，其它则为相反方向。

●转速是以电动机的同步转速（50Hz:1500r/min、60Hz:1800r/min）为基础除以减速比而计算出来的数值。

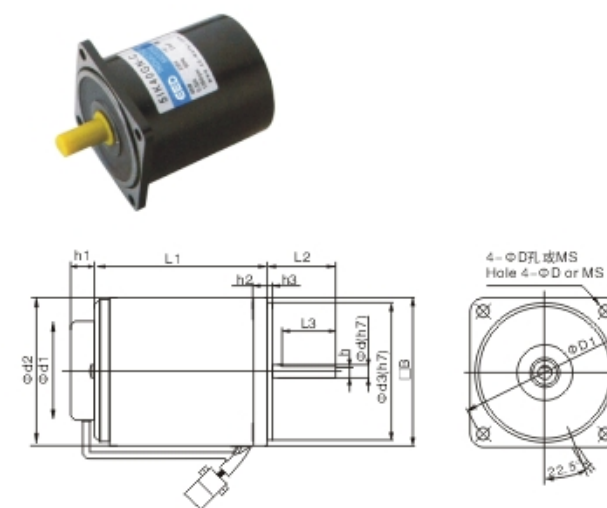
实际转速将随负载大小变化而比所示数值减少2%~20%左右

●“□” indicates the same rotating direction of the motor while the others rotate in the opposite direction.

●The speed is calculated by dividing the motor's synchronous speed(50Hz:1500r/min;60Hz:1800r/min)by the gear ratio.The accurate speed is 2%~20% less than displayed value,depending on the size of the load.

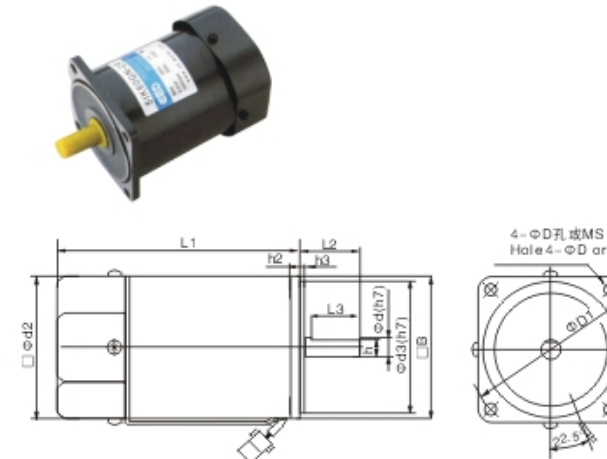
6~40W调速电动机光机外形图

6~40W Speed control bare motor dimension



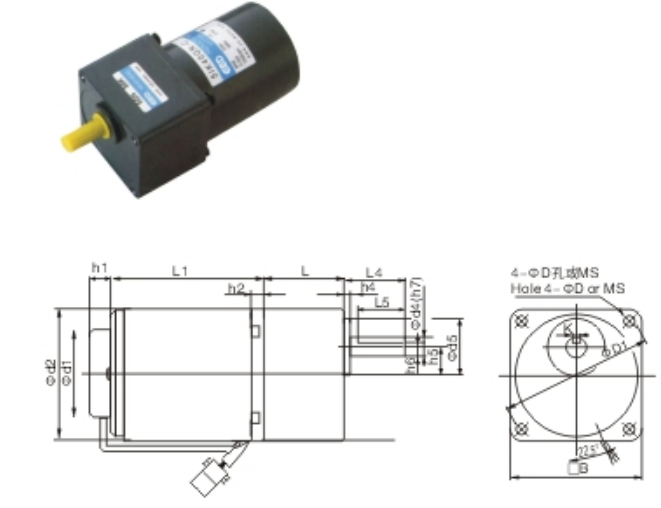
60~180W调速电动机光机外形图

60~180W Speed control bare motor dimension



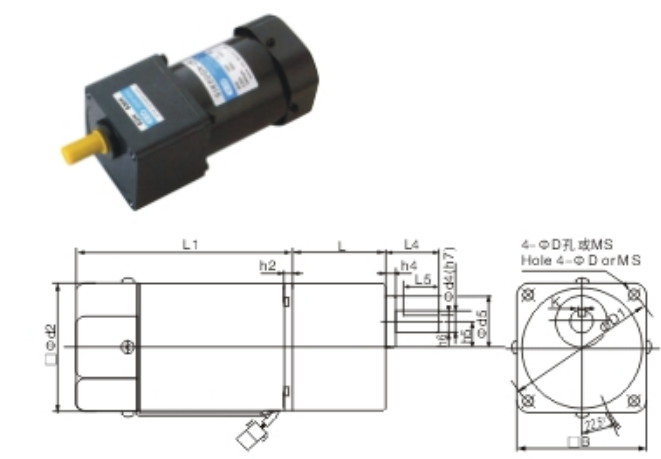
6~40W调速电动机整机外形图

6~40W Speed control gear motor dimension



60~180W调速电动机整机外形图

60~180W Speed control gear motor dimension



▼ 外形安装尺寸 Appearance Installation Size

系列 Series	名称 Type	调速电动机外形安装尺寸 Speed control motor assembling dimension																				单位:Unit(mm)				
	尺寸 Dimension 功率 Power	d	d1	d2	d3	d4	d5	L	L1	L2	L3	L4	L5	h	h1	h2	h3	h4	h5	h6	D	D1	S	B	K	
2IK	6W	6	46	60	55	8	25	32/42	75	24	17	30	27	5	11	6.5	1.5	3	10	7	5	70	4	60	-	
3IK	15W	6	46	69	65	10	25	32/42	80	32	25	33	25	5	11	7	2	3	15	7.5	6	82	5	70	4	
4IK	25W	8	46	80	73	10	32	32/42.5	85	32	25	33	25	7	11	7	2	3	15	7.5	6	94	5	80	4	
5IK	40W	10	46	89	83	12	36	42/60	105	37	30	32	25	9	11	8	2	5	18	9.5	6.5	104	6	90	4	
	60W(GN)	12	-	90	83	12	36	42/60	137	37	30	32	25	11	-	8	2	5	18	9.5	6.5	104	6	90	4	
	60W(GU)	12	-	90	83	15	36	65.5	137	37	30	38	25	11	-	8	2	7.5	18	12	6.5	104	6	90	5	
	90W	12	-	90	83	15	36	65.5	152	37	30	38	25	11	-	8	2	7.5	18	12	6.5	104	6	90	5	
	120W	12	-	90	83	15	36	65.5	152	37	30	38	25	11	-	8	2	7.5	18	12	6.5	104	6	90	5	
6IK	120W	12	-	104	94	15	46	72	187	37	30	42	25	11	-	10	2	10	20	12	9	120	8	104	5	
	140W	12	-	104	94	15	46	72	187	37	30	42	25	11	-	10	2	10	20	12	9	120	8	104	5	
	180W	12	-	104	94	15	46	72	187	37	30	42	25	11	-	10	2	10	20	12	9	120	8	104	5	

注：L部分尺寸，斜线“/”前表示速比为3~18时的齿轮箱长度；斜线后表示速比为25~200时的齿轮箱长度。

Note:L,the number before“/”represents the length of the gearbox with the reduction from 3 to 18, while the number after represents the length of the gearbox with the reduction from 25 to 200.

▼ 规格Specs 连续额定 Cont-Ratied

型号Model · 类型Type 导线型Lead Wire Type		输出功率 Output Power	电压 Voltage	频率 Frequency	调速范围 Speed Control Range	容许转矩 Allowance Torque		启动转矩 Starting Torque	电流 Current	电容器容量 Capacitor
齿轮轴型 Pinion Shaft	圆轴型 Round Shaft					1200r/min	90r/min			
		W	V	Hz	r/min	mN.m	mN.m	mN.m	A	μ F
2IK6RGN-AJ	2IK6RA-AJ	6	1ph100	50	90 ~ 1350	50	30	35	0.260	3.50
				60	90 ~ 1700	50	29	35	0.280	
2IK6RGN-CE	2IK6RA-CE	6	1ph220	50	90 ~ 1350	55	29	35	0.150	0.8
				1ph230	90 ~ 1700					
3IK15RGN-AJ	3IK15RA-AJ	15	1ph100	50	90 ~ 1350	120	35	55	0.42	6.0
				60	90 ~ 1700					
3IK15RGN-CE	3IK15RA-CE	15	1ph220	50	90 ~ 1350	120	35	54	0.26	1.2
				1ph230	90 ~ 1700					
4IK25RGN-AJ	4IK25RA-AJ	25	1ph100	50	90 ~ 1350	190	47	88	0.50	8.0
				60	90 ~ 1700					
4IK25RGN-CE	4IK25RA-CE	25	1ph220	50	90 ~ 1350	190	47	88	0.30	1.8
				1ph230	90 ~ 1700					
5IK40RGN-AJ	5IK40RA-AJ	40	1ph100	50	90 ~ 1350	260	70	180	0.80	12.0
				60	90 ~ 1700					
5IK40RGN-CE	5IK40RA-CE	40	1ph220	50	90 ~ 1350	300	75	160	0.45	2.5
				1ph230	90 ~ 1700					
5IK60RGN-AFJ	5IK60RA-AFJ	60	1ph100	50	90 ~ 1350	460	140	265	1.20	20.0
				60	90 ~ 1700					
5IK60RGN-CFE	5IK60RA-CFE	60	1ph220	50	90 ~ 1350	490	140	265	0.60	4.0
				1ph230	90 ~ 1700					
5IK60RGU-AFJ	-	60	1ph100	50	90 ~ 1350	460	140	265	1.20	20.0
				60	90 ~ 1700					
5IK60RGU-CFE	-	60	1ph220	50	90 ~ 1350	490	140	265	0.60	4.0
				1ph230	90 ~ 1700					
5IK90RGU-AFJ	5IK90RA-AFJ	90	1ph100	50	90 ~ 1350	710	230	405	2.00	25.0
				60	90 ~ 1700					
5IK90RGU-CFE	5IK90RA-CFE	90	1ph220	50	90 ~ 1350	710	230	410	0.80	5.0
				1ph230	90 ~ 1700					
5IK120RGU-AFJ	5IK120RA-AFJ	120	1ph100	50	90 ~ 1350	750	330	530	2.70	30.0
				60	90 ~ 1700					
5IK120RGU-CFE	5IK120RA-CFE	120	1ph220	50	90 ~ 1350	750	330	530	1.20	7.0
				1ph230	90 ~ 1700					
6IK120RGU-AFJ	6IK120RA-AFJ	120	1ph100	50	90 ~ 1350	750	360	530	2.70	30.0
				60	90 ~ 1700					
6IK120RGU-CFE	6IK120RA-CFE	120	1ph220	50	90 ~ 1350	750	360	530	1.10	8.0
				1ph230	90 ~ 1700					
6IK140RGU-AFJ	6IK140RA-AFJ	140	1ph100	50	90 ~ 1350	830	420	620	3.4	35.0
				60	90 ~ 1700					
6IK140RGU-CFE	6IK140RA-CFE	140	1ph220	50	90 ~ 1350	830	420	620	1.35	10.0
				1ph230	90 ~ 1700					
6IK180RGU-CFE	6IK180RA-CFE	180	1ph220	50	90 ~ 1350	920	500	700	1.60	12.0
				1ph230	90 ~ 1700					

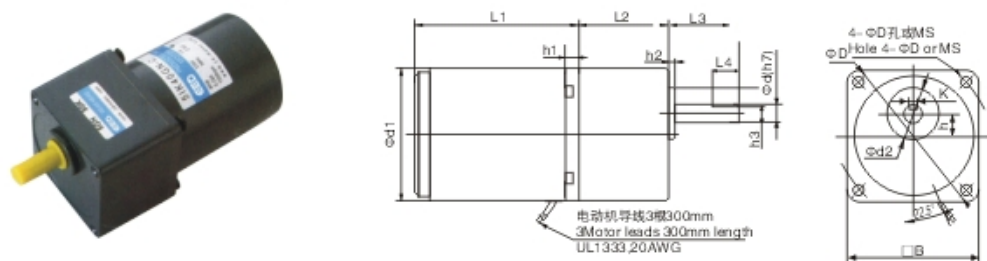


▼ 装有减速器时的容许力矩 Allowable Torque When Being With Gearbox

容许力矩单位 Allowance Torque Unit: 上段Upside(N.m)/下段Belowside(kgf.com)

类型Type 电动机Motor 减速器 Gearhead	减速比Gear Ratio		3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	200	
	转速 Speed r/min	50Hz	500	417	300	250	200	166	120	100	83	60	50	41	30	25	20	16	15	12.5	10	8.3	7.5	
2IK6RGN-AJ 2IK6RGN-CE	2GN□K	50Hz	0.12	0.14	0.19	0.23	0.29	0.35	0.49	0.58	0.70	0.88	1.1	1.3	1.6	1.9	2.4	2.9	3	3	3	3	3	
			1.22	1.43	1.94	2.35	2.96	3.57	5.0	5.92	7.14	8.98	11.2	13.3	16.3	19.4	24.5	29.6	30	30	30	30	30	
		60Hz	0.10	0.12	0.16	0.19	0.24	0.29	0.41	0.49	0.58	0.73	0.88	1.1	1.3	1.6	2.0	2.4	2.6	3	3	3	3	3
			1.02	1.22	1.63	1.94	2.45	2.96	4.18	5.0	5.92	7.45	8.98	11.2	13.3	16.3	20.4	24.5	26.5	30	30	30	30	30
3IK15RGN-AJ 3IK15RGN-CE	3GN□K	50Hz	0.30	0.36	0.51	0.61	0.76	0.91	1.3	1.5	1.8	2.3	2.7	3.3	4.1	5	5	5	5	5	5	5	5	
			3.06	3.67	5.20	6.22	7.75	9.28	13.2	15.3	18.3	23.4	27.5	33.7	41.8	50	50	50	50	50	50	50	50	
		60Hz	0.26	0.31	0.43	0.51	0.64	0.77	1.1	1.3	1.5	1.9	2.3	2.8	3.5	4.2	5	5	5	5	5	5	5	5
			3.6	3.16	4.38	5.20	6.53	7.85	11.2	13.2	15.3	19.3	23.4	28.5	35.7	42.8	50	50	50	50	50	50	50	50
4IK25RGN-AJ 4IK25RGN-CE	4GN□K	50Hz	0.49	0.58	0.81	0.97	1.2	1.5	2.0	2.4	2.9	3.7	4.4	5.3	6.6	7.9	8	8	8	8	8	8	8	
			5.00	5.91	8.26	9.89	12.2	15.3	20.4	24.4	29.6	37.7	44.9	54.1	67.3	80	80	80	80	80	80	80	80	
		60Hz	0.40	0.48	0.67	0.80	1.0	1.2	1.7	2.0	2.4	3.0	3.6	4.3	5.4	6.5	8	8	8	8	8	8	8	8
			4.08	4.89	6.83	8.16	10.2	12.2	17.3	20.4	24.4	30.6	36.7	43.8	55.1	66.3	80	80	80	80	80	80	80	80
5IK40RGN-AJ 5IK40RGN-CE	5GN□K	50Hz	0.77	0.92	1.3	1.5	1.9	2.3	3.2	3.8	4.6	5.7	6.9	8.3	10	10	10	10	10	10	10	10	10	
			7.85	9.38	13.2	15.3	19.4	23.4	32.6	38.7	46.9	58.1	70.4	84.7	100	100	100	100	100	100	100	100	100	
		60Hz	0.63	0.76	1.1	1.3	1.6	1.9	2.6	3.2	3.8	4.7	5.7	6.8	8.6	10	10	10	10	10	10	10	10	10
			6.42	7.75	11.2	13.2	16.3	19.3	26.5	32.6	38.7	47.9	58.1	69.3	87.7	100	100	100	100	100	100	100	100	100
5IK60RGN-AFJ 5IK60RGN-CFE	5GN□K	50Hz	1.1	1.4	1.9	2.3	2.9	3.4	4.8	5.7	6.8	8.6	10	10	10	10	10	10	10	10	10	10	10	
			11.2	14.2	19.3	23.4	29.6	34.7	48.9	58.1	69.3	87.7	100	100	100	100	100	100	100	100	100	100	100	
		60Hz	0.92	1.1	1.5	1.8	2.3	2.8	3.8	4.6	5.5	6.9	8.3	10	10	10	10	10	10	10	10	10	10	10
			9.38	11.2	15.3	18.3	23.4	28.5	38.7	46.9	56.1	70.1	84.7	100	100	100	100	100	100	100	100	100	100	100
5IK60RGU-AFJ 5IK60RGU-CFE	5GU□KB	50Hz	1.1	1.4	1.9	2.3	2.9	3.4	4.3	5.1	6.2	7.7	9.3	11.2	15.5	18.6	20	20	20	20	20	20	20	
			11.2	14.2	19.3	23.4	29.6	34.7	43.9	52.0	63.2	78.6	95.0	114	158	190	200	200	200	200	200	200	200	
		60Hz	0.92	1.1	1.5	1.8	2.3	2.8	3.5	4.2	5.0	6.3	7.5	9.0	12.5	15.0	18.8	20	20	20	20	20	20	20
			9.38	11.2	15.3	18.3	23.4	28.5	35.7	42.9	51.0	64.3	76.5	92	128	153	192	200	200	200	200	200	200	200
5IK90RGU-AFJ 5IK90RGU-CFE	5GU□KB	50Hz	1.7	2.0	2.8	3.4	4.3	5.1	6.4	7.7	9.2	11.6	13.9	16.6	20	20	20	20	20	20	20	20	20	
			17.3	20.4	28.6	34.7	43.9	52.0	65.3	78.6	93.3	118	139	169	200	200	200	200	200	200	200	200	200	
		60Hz	1.4	1.7	2.3	2.8	3.5	4.2	5.2	6.2	7.5	9.4	11.3	13.5	18.8	20	20	20	20	20	20	20	20	20
			14.3	17.3	23.5	28.6	35.7	42.9	53.1	63.3	76.5	95.9	115	128	192	200	200	200	200	200	200	200	200	200
5IK120RGU-AFJ 5IK120RGU-CFE	5GU□KB	50Hz	2.3	2.7	3.8	4.5	5.6	6.8	8.5	10.2	12.2	15.3	18.4	20	20	20	20	20	20	20	20	20	20	
			23.4	27.5	38.7	45.9	57.1	69.3	86.7	104	124	156	187	200	200	200	200	200	200	200	200	200	200	
		60Hz	1.8	2.2	3.0	3.6	4.6	5.5	6.8	8.2	9.8	12.4	14.9	17.8	20	20	20	20	20	20	20	20	20	20
			18.3	22.4	30.6	36.7	46.9	56.1	69.5	83.6	100	126	152	181	200	200	200	200	200	200	200	200	200	200
6IK120RGU-AFJ 6IK120RGU-CFE	6GU□K	50Hz	2.3	2.7	3.8	4.5	5.6	6.8	8.5	10.2	12.2	15.3	18.4	22.1	30.7	36.8	40	40	40	40	40	40	40	
			23.4	27.5	38.7	45.9	57.1	69.3	86.7	104	124	156	187	225	313	375	400	400	400	400	400	400	400	
		60Hz	1.8	2.2	3.0	3.6	4.6	5.5	6.8	8.2	9.8	12.4	14.9	17.8	24.8	29.7	37.1	40	40	40	40	40	40	40
			18.3	22.4	30.6	36.7	46.9	56.1	69.3	83.6	100	126	152	181	153	303	378	400	400	400	400	400	400	400
6IK140RGU-AFJ 6IK140RGU-CFE	6GU□K	50Hz	2.6	3.1	4.4	5.2	6.6	7.9	9.9	11.8	14.2	17.8	21.4	25.7	35.6	40	40	40	40	40	40	40	40	
			26.5	31.6	44.8	53.0	67.3	80.6	101	120	144	181	218	262	263	400	400	400	400	400	400	400	400	
		60Hz	2.1	2.5	3.5	4.2	5.3	6.3	7.9	9.5	11.4	14.4	17.2	20.7	28.7	34.5	40	40	40	40	40	40	40	40
			21.4	25.5	35.7	42.8	54.0	64.2	80.6	96.9	116	147	175	211	292	352	400	400	400	400	400	400	400	400
6IK180RGU-CFE	6GU□K	50Hz	3.4	4.0	5.6	6.7	8.4	10.1	12.6	15.2	18.2	22.8	27.4	32.9	40	40	40	40	40	40	40	40	40	
			34.6	40.8	57.1	68.3	85.6	103	128	155	185	232	279	335	400	400	400	400	400	400	400	400	400	400

转矩减速电动机整机外形图 Torque gear motor dimension



▼ 外形安装尺寸 Appearance Installation Size

系列 Series	名称Type	转矩电动机外形安装尺寸 Torque control motor assembling dimension														单位:Unit(mm)		
	尺寸Dimension 功率Power	d1	d2	d	L1	L2	L3	L4	h	h1	h2	h3	D	D1	S	B	K	
2TK	3W	60	25	8	75	32/42	30	17	10	6.5	3	7	4.5	70	4	60	—	
3TK	6W	69	30	10	80	32/42	33	25	15	7	3	7.5	5.5	82	5	70	4	
4TK	10W	79	32	10	85	32/42.5	33	25	15	7	3	7.5	5.5	94	5	80	4	
5TK	20W	89	36	12	105	42/60	32	25	18	8	5	9.5	6.5	104	6	90	4	

注: L4部分尺寸, 斜线 “/” 前表示速比为3~18时的齿轮箱长度; 斜线后表示速比为25~200时的齿轮箱长度。其光电机尺寸同相应规格感应电机。
Note: L4, the number before “/” represents the length of the gearbox with the reduction from 3 to 18, while the number after represents the length of the gearbox with the reduction from 25 to 200.

▼ 规格 Specs

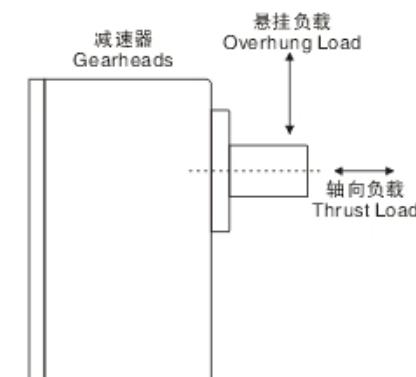
3W、6W、10W、20W

电机型号类型 Model of Motor		使用额定 (堵转) Rating at Locked Rotor	电压 Voltage	频率 Frequency	启动转矩 Starting Torque	最大输出功率 Max. Output Power	最大输出 功率时转速 Speed at Max. Output Power	最大输出 功率转矩 Torque at Max. Output Power	电容器容量 Capacitor
齿轮轴型 Pinion Shaft	圆轴型 Round Shaft								
			V	Hz	mN.m	W	mN.m	mN.m	μF
2TK3GN-AJ	2TK3A-AJ	5min	110	50	69	3.2	750	41	7.0
		连续Cont	60		25	1.3		16	
		5min	110	60	69	3.2	900	37	6.0
		连续Cont	60		25	1.3		11	
2TK3GN-CE	2TK3A-CE	5min	220	50	69	3.2	750	41	1.5
		连续Cont	140		25	1.2		16	
		5min	220	60	69	3.2	900	37	1.2
		连续Cont	140		25	1.2		11	
3TK6GN-AJ	3TK6A-AJ	5min	110	50	134	6.0	750	80	8.0
		连续Cont	60		68	2.5		36	
		5min	110	60	134	6.5	900	74	7.0
		连续Cont	60		68	2.8		30	
3TK6GN-CE	3TK6A-CE	5min	220	50	134	6.0	750	80	2.0
		连续Cont	140		68	2.5		36	
		5min	220	60	134	6.5	900	74	1.5
		连续Cont	140		68	2.8		30	
4TK10GN-AJ	4TK10A-AJ	5min	110	50	235	10	750	127	10.0
		连续Cont	60		74	3.0		46	
		5min	110	60	25	10	900	127	8.0
		连续Cont	60		69	3.0		38	
4TK10GN-CE	4TK10A-CE	5min	220	50	265	10	750	127	2.5
		连续Cont	140		98	3.0		46	
		5min	220	60	225	10	900	127	2.0
		连续Cont	140		90	3.0		38	
5TK20GN-AJ	5TK20A-AJ	5min	110	50	363	20	750	224	15.0
		连续Cont	60		137	6.0		76	
		5min	110	60	294	26	900	216	12.0
		连续Cont	60		108	6.0		64	
5TK20GN-CE	5TK20A-CE	5min	220	50	363	20	750	224	3.5
		连续Cont	140		137	6.0		76	
		5min	220	60	294	26	900	216	3.0
		连续Cont	140		108	6.0		64	

▼ 电动机的容许悬挂负载·容许轴向负载 Permissible Overhung Load And Permissible Thrust Load Of Motor

容许轴向负载 Permissible Thrust Load

电动机 Motor		容许悬挂负载 Permissible Overhung Load	
安装尺寸 Motor Frame Size	输出轴直径 Output Shaft Diameter Φ (mm)	距轴端的距离 Distance From Shaft End	
□ (mm)		10mm	20mm
42	5	40	-
60	6	50	110
70	6	40	60
80	8	90	140
	10	110	120
90	10	140	200
	12	240	270
100	14	320	350



容许轴向负载 Permissible Thrust Load
请尽量不要施加轴向负载。即使不得已的情况下, 请将轴向负载控制在电动机重量的一半以下。
Avoid thrust loads as much as possible. If thrust load is unavoidable, keep it to half or less of the motor mass.

型号 Model	减速比 Gear Ratio	最大容许转矩 Maximum Permissible Torque N.m	容许悬挂负载 Permissible Overhung Load		容许轴向 Permissible Thrust Load N
			距轴端10mm 10mm from Shaft End	距轴端20mm 20mm from Shaft End	
0GU□K	3 ~ 60	1.0	20	-	15
2GN□K	3 ~ 18	3.0	50	80	30
	25 ~ 200		120	180	
3GN□K	3 ~ 18	5.0	80	120	40
	25 ~ 200		150	250	
4GN□K	3 ~ 18	8.0	100	150	50
	25 ~ 200		200	300	
5GN□K	3 ~ 18	10	250	350	100
	25 ~ 200		300	450	
5GU□K 5GU□K	3 ~ 9	20	400	500	150
	12.5 ~ 18		450	600	
	25 ~ 200		500	700	
6GU□K	3 ~ 200	40	1100	1500	300

▼ 减速器输出轴上的容许负载惯性惯量 Permissible Load Inertia For Gearhead Output Shaft

减速比 1/3 ~ 1/50 时 $JG = JM \times i^2$ JG : 减速器输出轴容许负载惯性惯量 ($\times 10^{-4} \text{kg.m}^2$)
 减速比 1/60 以上时 $JG = IM \times 2500$ JM : 减速器输出轴容许负载惯性惯量 ($\times 10^{-4} \text{kg.m}^2$)
 I : 减速比例: 减速比 1/3 时 $i=3$
 Gear ratio 1/3 ~ 1/50 $JG = JM \times i^2$ JG : Permissible load inertia gearhead output shaft ($\times 10^{-4} \text{kg.m}^2$)
 Gear ratio 1/60 or high $JG = IM \times 2500$ JM : Permissible load inertia at the motor shaft ($\times 10^{-4} \text{kg.m}^2$)
 I : Gear ratio (Example: $i=3$ means the gear ratio or 1/3)

▼ 齿轮箱允许力矩表说明 Description Of Allowable Torque On Gearbox

- 减速器润滑方式为全封闭沉浸式润滑, 油脂不易干涸;
- 齿轮箱型式图中 □, 表示减速比;
- 减速器选用先进可靠的“一体式”减速器, 轴承室与减速壳体为一体, 采用全滚珠轴承;
- 测试数据条件为同步转速下;
- The speed reducer is fully closed and immersion lubricated so that grease is not easy to dry.
- □ in the type of gearbox indicates reduction ratio.
- A reliable state-of-the-art “integrated” speed reducer is used, which integrates bearing case and reducer case into one and full ball bearings are used.
- The gray color of the form indicated the same rotating direction of the motor while the rotating direction of others is opposite.

电动机轴上的容许负载惯性惯量 Permissible Load Inertia At The Motor Shaft

电动机电源相数 No. of Phase	安装尺寸 Motor Frame Size	输出功率 Output Power	电动机轴上的容许负载惯性惯量 Permissible load inertia at the Motor Shaft	
			J(x10 ⁻⁴ kg.m ²)	GD ² (kg.m ²)
单相 Single-phase	42	1W、3W	0.016	0.07
	60	3W※、6W	0.062	0.25
	70	6W※、15W	0.14	0.52
	80	10W※、25W	0.31	1.2
		20W※、40W	0.75	3
	90	60W	1.1	4.6
		90W	1.1	4.6
		120W	1.1	4.6
	100	120W	2	8
		140W	2	8
		180W	2	8
三相 Three-phase	60	6W	0.062	0.25
	70	15W	0.14	0.52
	80	25W	0.31	1.2
	90	40W	0.75	3
		600W	1.1	4.6
		90W	1.1	4.6
	100	120W	1.1	4.6
		120W	2	8
		140W	2	8
		180W	2	8
直流 DC Power	60	60W、10W、15W	0.062	0.25
	70	15W	0.14	0.52
	80	25W、40W	0.31	1.2
	90	40W	0.75	3
		60W	1.1	4.6
		90W	1.1	4.6
		120W	1.1	4.6
	100	250W	2	8

※是指转矩电动机的输出功率 ※Output power for torque motors

减速器容许转矩的计算 The Calculation For The Permissible Torque Of Gearhead

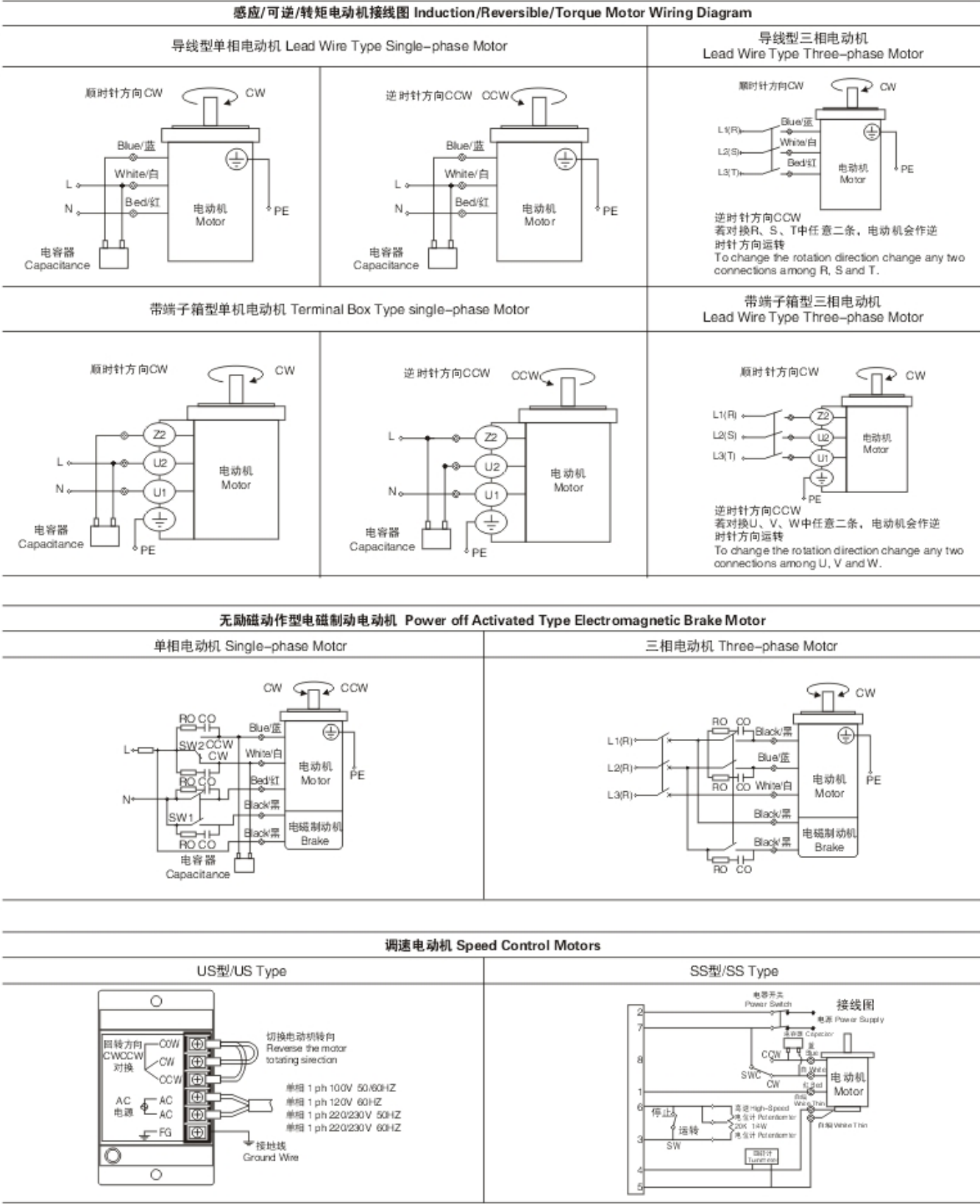
部分机型并未列在容许转矩表上, 需要时可按下公式计算。
Permissible torque for some products are omitted, In that case, use the equation below to calculate the permissible torque.
容许转矩Permissible Torque $TG=TM \times i \times \eta$
TG:减速器容许转矩Permissible Torque of Gearhead TM:电动机转矩 Motor Torque
i:减速器减速比 Gear Ratio Gearhead η :减速器传动效率 Gearhead Efficiency

减速器传动效率 Gearhead Efficiency

减速比 Gear Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	200
型号 Model																					
0GN□K																					
2GN□K 3GN□K 4GN□K																					
5GN□K																					
5GU□KB(K)																					
6GN□K																					

连接图 Connection Diagrams

运转方向指从电动机轴端来看的方向。CW表示顺时针方向, CCW表示逆时针方向。
表中所记型号为齿轮轴型, 圆轴型变同。
The direction of motor rotation is as viewed from the shaft end of motor. CW represents the clockwise direction, while CCW represents the counterclockwise direction.
Connection diagrams are also valid for the equivalent round shaft type.

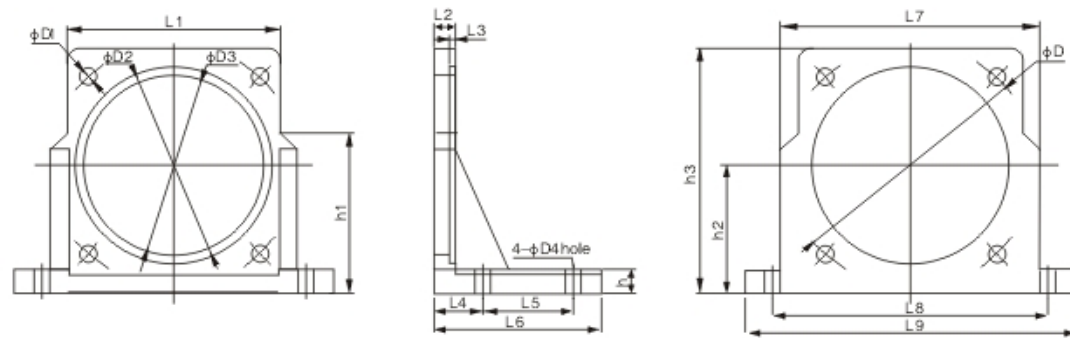


▼ 电动机·减速器用安装底座 Motor/gearhead Mouning Brackets

便于安装固定电动机、减速器的转用安装底座。为可以对应大功率电动机、减速器的高强度型产品。安装底座上钻有螺孔，请用减速器附属的螺丝来组合电动机与减速器。安装电动机单体时，请另用安装用螺丝。

Mounting Brackets for attaching and securing a motor and gearhead. They are high-strength type, Which can be used with high power motors / gearheads. These brackets come with tapped holes. To mount the motor and gearhead, simply fasten with screws provided to the gearhead. To mount the motor alone, mounting screws must be provided separately.

▼ 安装尺寸 Motor Frame Size



单位:Unit(mm)

尺寸 Size 型号 Model	D1	D2	D3	D4	D	L1	L2	L3	L4	L5	L6	L7	L8	L9	H	h1	h2	h3
EED3M5	5.5	65.5	60	5.5	84	70	7	2	16	30	55	78	92	110	8	52	43	78.5
EED4M5	5.5	73	66	5.5	94	80	7	2	7.5	35	50	89	102	114	7.5	43	48	88.5
EED5M5	6.5	83	73	6.5	104	90	7	2	10	40	60	100	114	130	8	50	50	95.5

注：材质：铝合金；EED3M5适用3GN减速器；EED4M5适用4GN减速器；EED5M5适用5GN、5GU减速器。

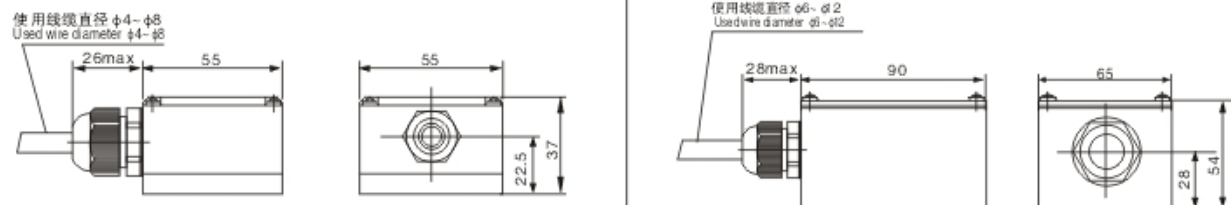
Note: material: aluminum, EED3M5 for 3GN gearbox; EED4M5 for 4GN gearbox; EED5M5 for 5GN, 5GU gearbox.

▼ 电动机用端子箱 Terminal Box For Motor

根据客户的需求，可选择以下类型的端子箱

You can select from following types of terminal boxes according to customer's request.

单位:Unit(mm)



型号 Model: EEDTX 安装尺寸 □80mm、□90mm、□104mm
电动机 Motor with the frame size of □80mm、□90mm、□104mm

型号 Model: EEDTC 安装尺寸 □80mm、□90mm、□104mm
电动机 Motor with the frame size of □80mm、□90mm、□104mm

▼ 控制器型号说明 Description Of Governor Model

U

调速器种类
Speed Controller type

U: 组合型
U: Combination

S: 分离型
S: Separation

S

调速器功能
Speed Controller Function

S: 速度控制器
S: Speed Governor

11

电压
Voltage

11: 单相110V50Hz
11: Single Phase 110V50Hz

22: 单相220V50Hz
22: Single Phase 220V50Hz

33: 数字显示器
33: Digital Display

A

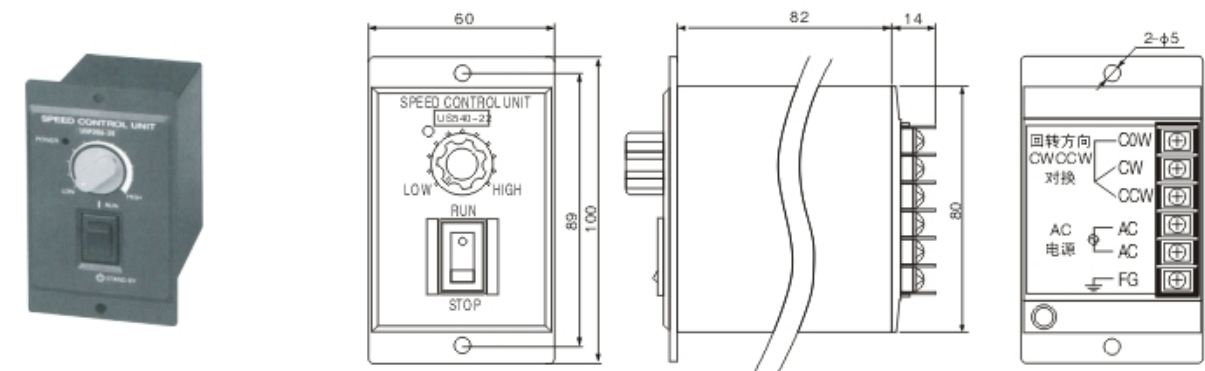
电容安装方式

Capacitor Mounting Type

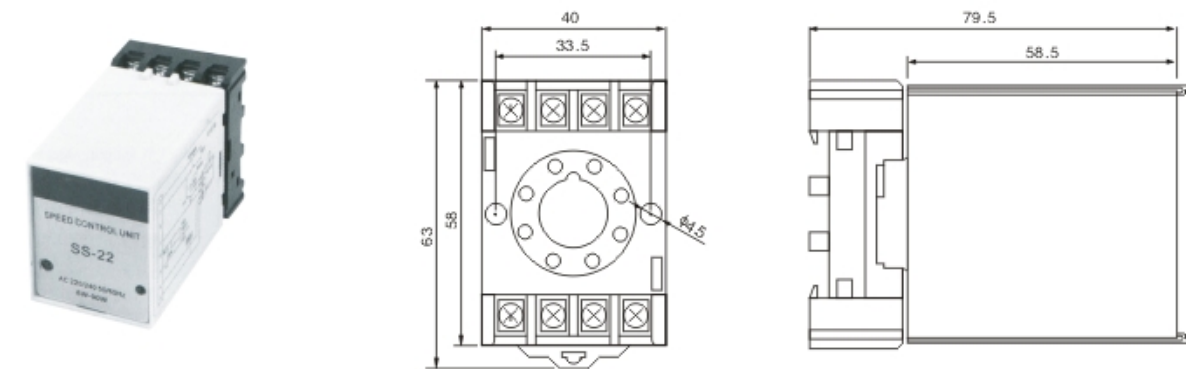
11: 内置式电容器
11: Built-in Capacitor

22: 外置式电容器
22: External Capacitor

▼ 组合型 Combination US11、US22 正、反转变速 Clockwise And Anti-clockwise Speed Change



▼ 分离型 Combination SS11、SS22 正、反转变速 Clockwise And Anti-clockwise Speed Change



▼ 调速器特性表 List Of Speed Governor Characteristics

参数 Parameter 型号 Model	电压(V) Voltage(V)	频率(Hz) Frequency(Hz)	最大电流(A) Max. Current(A)	电机功率(W) Motor Power(W)	速度范围(r/min) Speed Range(r/min)	速度变速器 Speed Changer	速度应答器 Speed Responder	速度应安性 Speed Stability	工作环境温度 Working Ambient Temperature
US11	110V ± 10%	50/60	5	6~140	90/1350	3%	(0.5)	优 Excellent	-10℃~+50℃
US22	220V ± 10%			6~180	90/1650				
SS11	110V ± 10%	50/60	5	6~140	90/1350	3%	(0.5)	优 Excellent	-10℃~+50℃
SS12	220V ± 10%			6~180	90/1650				
SS33	110V ± 10%	50/60	5	6~140	90/1350	3%	(0.5)	优 Excellent	-10℃~+50℃
	220V ± 10%			6~180	90/1650				

X	5(5)	D(W)	60	24	GU	30S
①	②	③	④	⑤	⑥	⑦

①	公司名称 Company	兴达电机 EED MOTOR				
②	机座号 Code	2	3	4	5	6
	电机安装法兰 Mounting Flange mm	60x60	70x70	80x80	90x90	104x104
	机壳直径 Case Diameter mm	60	60	80	80	90
③	电机种类 Motor type	D: 直流电动机 (D: DC MOTOR) DW: 针对60、70系列电机D后加W表示外置电刷电机 For 60,70 series motor, DW means external brush motor.				
④	输出功率 Output Power	(例)60:60W				
⑤	电源电压 Voltage	(例)24:24V				
⑥	电机形状 Shape of Motor Shaft	GN: 普通型斜齿轮 GN: General Helical Gear A1: 铣键槽 A1: Milling Keyway GU: 加强型斜齿轮 GU: Reinforced Helical Gear A: 铁扁 A: Flat type				
⑦	电机转速 Speed	(例)30S:3000RPM				

备注: 如果电机需配刹车器可在型号最后增加-M符号, 如Z5(5) D60-24GU-30S-M, 刹车器电压与电机额定电压机同; 型号中电机可解读为机壳外径90mm、GU型、额定电压24VDC、额定功率60W、额定转速3000RPM、配24VDC刹车器。

Note: we use M to symbolise the brake, such as Z5(5) D 60-24 GU-30S-M, the brake voltage is the same as the rated voltage of the motor; Type of motor can be interpreted as a case diameter of 90mm, GU type, rated voltage 24VDC, rated power 60W, rated speed of 3000RPM, with brake-24VDC.

▼ 减速器型号说明 Description Of Reducer Model

5	GN	50	K
①	②	③	④

①	型号尺寸 Model&Dimension	2: 60mm 3: 70mm 4: 80mm 5: 90mm 6: 104mm
②	齿轮种类 Gear Type	GN: 普通型斜齿轮 GN: General Helical Gear GU: 加强型斜齿轮 GU: Reinforced Helical Gear
③	减速比 Reduction Ratio	例) 50:减速比1:50 50:Reduction Ratio 1:50 10X仅限 减速比1:10的中间减速比 10X denotes the mid reduction ration 1:10
④	轴承种类 Bearing Type	K: 滚珠轴承(对GU型方箱本标注为KB) K: Ball bearing(Mark KB for Type GU square case)

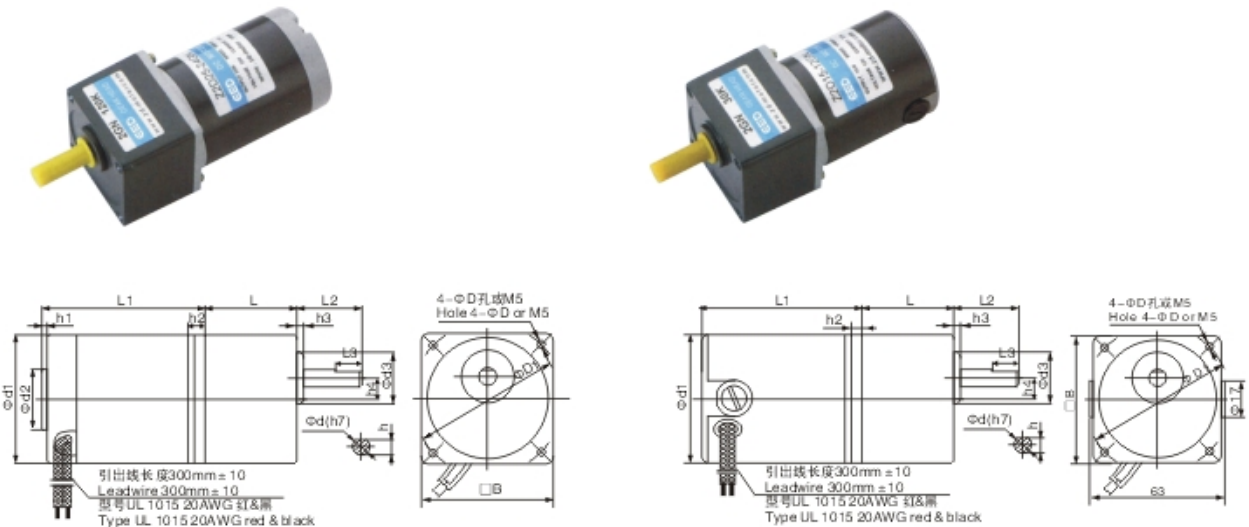
备注: 非标准分体式的编号: 在电动型号或减速器型号前加"V"(请在定货时写明具体参数要求)

Note: The code of the non-standard split type is to add "V" before the model number of the motor or reducer (Please specify the detailed parameter requirement in the purchase orde)

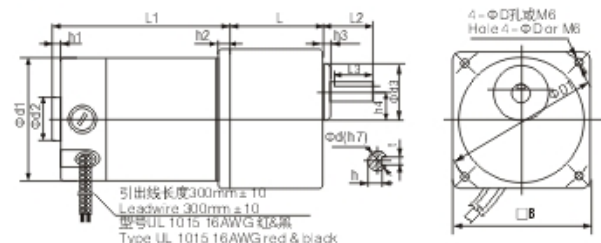
▼ 直流电机的一般规格 General Specification Of Dc Motor

项目	规格
绝缘电阻 Insulation resistance	于常温、常湿下的电动机额定运行后, 以DC500V电阴表测量线圈、外壳间时, 测量值为20兆欧以上。 In the circumstance of normal ambient temperature and humidity, the resistance can be up to 20M Ω or more when 500VDC megger is applied between the windings and the frame after rated motor oprations
绝缘耐压 Insulation voltage	于常温、常湿下的电动机额定运行后, 在线圈和机壳间施加一分钟50或60Hz、1.5kV的电压, 亦无异常。 In the circumstance of normal ambient temperature and humidity, there will be no problem to withstand 1.5kV at 50/60Hz between the windings and the frame for 1 minute after rated motor operation
温度上升 Temperature rise	运转电机后, 用温度计法来测量时, 电机表面最高热点温升数值在80K以下。 The temperature rise should be lower than 80°C measured by resistance method when the motor is working.
绝缘等级 Insulation Class	B级(130°C) Class B(130°C)
使用温度 Using temperature	-10~+40°C(无冰冻) -10~+40°C(Nonfreezing)
使用湿度 Using temperature	85%以下(无结露的场所) ≤85%(Place without dew)

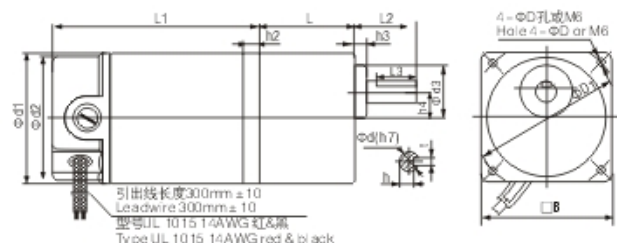
▼ X2D(W)电机外形图 Motor Dimension



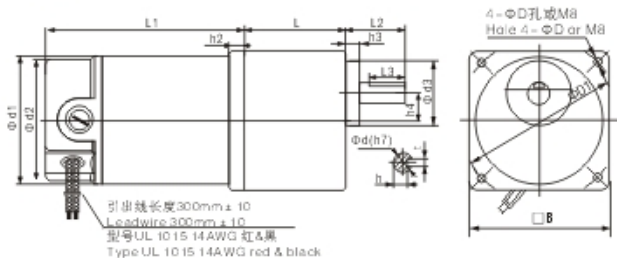
▼ X5D电机外形图 Motor Dimension



▼ X55D电机外形图 Motor Dimension



▼ X6D电机外形图 Motor Dimension



▼ 直流电动机的外形安装尺寸 Size Of The Dc Motor

系列 Series	名称Type	直流电机整机外形安装尺寸 DC gear motor assembling dimension															单位:Unit(mm)	
	尺寸Dimension 功率Power	d	d1	d2	d3	D	D1	L	L1	L2	L3	h	h1	h2	h3	h4	t	B
Z2D	06/10	8	60	28	25	4.5	70	32/41	75	30	27	7	2.5	5	3	10	-	60
	15	8	60	28	25	4.5	70	32/41	89	30	27	7	2.5	5	3	10	-	60
Z3D	25	10	60	28	25	5.5	82	32/42	101	33	25	7.5	2.5	6	3	15	4	70
Z4D	40	10	80	28	32	5.5	94	32/42.5	120.5	33	25	7.5	5	6.5	3	15	4	80
Z5D	40	12	80	28	36	6.5	104	42/60	124	32	25	9.5	5	7.5	5	18	5	90
	60	15	80	28	36	6.5	104	65.5	143	38	25	12	5	7.5	7.5	18	5	90
	90	15	80	28	36	6.5	104	65.5	143	38	25	12	5	7.5	7.5	18	5	90
	120	15	80	28	36	6.5	104	65.5	143	38	25	12	5	7.5	7.5	18	5	90
Z55D	250	15	90	85.5	36	6.5	104	65.5	196	38	25	12	/	11	7.5	18	5	90
Z6D	250	15	90	85.5	46	9	120	72	194.5	42	25	12	/	11	10	20	5	104

备注: L 部份尺寸, 斜线“/”前表示速比为 3~18 的齿轮箱长度, 斜线后表示速比为 25~200 齿轮箱长度。

Note: L, the number before “/” represents the length of the gearbox with the reduction from 3 to 18, while the number after represents the length of the gearbox with the reduction from 25 to 200.

类型 TypeI	功率 Power W	电压 Voltage V	空载参数No-load Parameters		负载参数Load Parameters			电刷寿命 Brush life H	电机重量 Motor Weigh kg	
			转速Speed r/min	电流Current A	转速Speed r/min	力矩Torque mN.m	电流Current A			
Z2D(W)	6	12	3200	0.6 Max.	2950	19	0.8	2000	0.6	
	6	24	3200	0.3 Max.	2950	19	0.5	2000	0.6	
	6	90	3200	0.1 Max.	3000	19	0.2	2000	0.6	
	15	12	3000	0.7 Max.	2800	51	2.0	2000	0.7	
	15	24	3200	0.3 Max.	2950	48	1.0	2000	0.7	
	15	90	3000	0.1 Max.	2900	49	0.3	2000	0.7	
Z3D(W)	25	12	3300	1.0 Max.	3000	80	3.0	2000	1.0	
	25	24	3200	0.6 Max.	2800	87	1.6	2000	1.0	
	25	90	3200	0.2 Max.	3000	80	0.5	2000	1.0	
Z4D	40	12	3200	2.0 Max.	3000	127	5.2	2000	1.8	
	40	24	3200	0.8 Max.	3000	127	2.1	2000	1.8	
	40	90	3100	0.3 Max.	2950	129	0.6	2000	1.8	
Z5D	40	12	3200	2.0 Max.	3000	127	5.2	2000	1.9	
	40	24	3000	1.0 Max.	2800	140	2.2	2000	1.9	
	40	90	3100	0.3 Max.	2950	129	0.6	2000	1.98	
	40	12	3200	2.0 Max.	2950	194	7.5	2000	2.2	
	60	24	3100	1.5 Max.	2800	210	3.5	2000	2.2	
	60	90	3200	0.3 Max.	3000	191	1.0	2000	2.2	
	90	12	3300	3.0 Max.	2800	307	10.0	2000	2.2	
	90	24	3100	1.5 Max.	2800	307	5.0	2000	2.2	
	90	90	3100	0.5 Max.	2850	302	1.5	2000	2.2	
	120	12	3400	3.0 Max.	3000	382	14.0	2000	2.2	
	120	24	3100	1.5 Max.	2600	441	7.0	2000	2.2	
	120	90	3300	0.3 Max.	3000	382	1.8	2000	2.2	
	Z55D	250	24	3600	4.0 Max.	3200	746	16.0	2000	2.2
		250	90	3300	2.0 Max.	3000	796	4.2	2000	2.2
250		220	3100	0.2 Max.	2800	853	1.5	2000	2.2	
Z6D	250	24	3600	4.0 Max.	3200	746	16.0	2000	5	
	250	90	3300	2.0 Max.	3000	796	4.2	2000	5	
	250	220	3310	0.2 Max.	2800	853	1.5	2000	5	

注: 电机电压、功率及转速可在配件尺寸等条件允许下根据客户要求定制, 部分参数未列入表中;

Note: Motor voltage, power and speed will be customized according to his requestment under the allowed circumstance or adoptable dimension

▼ 装有减速器的出力轴力矩计算方法 How To Calculate The Torque Of motor Being With Gearbox

$$T=9.55 \cdot W \cdot i \cdot \eta / n$$

T: 减速器出轴扭矩(N.m), 如计算值超过减速器最大允许扭矩, 以速器

最大允许扭矩值为准

W:电机额定功率(W)

 i : 减速器减速比 η : 减速器传动效率

n : 电机额定转速(r/min)

$$T=9.55 \cdot W \cdot i \cdot \eta / n$$

T: the torque of the gearbox shaft(N.m) If the data calculated is bigger than the max allowable torque, pls refer to the max allowable torque of the gearbox.

W; (W) Motor rated power

i : reduction ratio

 η : transmission efficiency

n : (r/min) motor rated speed

▼ 减速器传动效率 η Transmission Efficiency

型 号	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	200		
2GN□K	81%									73%			66%										
3GN□K KGN□K																							
5GN□K																							
5GU□KB(K)	81%						73%			66%					59%								
6GN□K																							

▼ 减速器最大允许力矩 The Max Allowable Torque Of The Gearbox

型号 Type	2GN□K	3GN□K	4GN□K	5GN□K	5GU□KB(K)	6GN□K
最大允许扭矩 N.m The max allowable torque	3.0	5.0	8.0	10.0	20.0	40.0

直流减速电动机 DC GEAR MOTOR



有刷开门电机/BRUSH DOOR MOTORS

产品特点 Product Charactes

本产品采用DC永磁有刷马达做运转主体，可与微电脑控制系统方面对接，与电脑控制系统配合实现自我监察，制定最佳运作模式产品具有：噪声低、体积小、重量轻、寿命长、适用范围广等优点；同时可满足客户对自动门升级的需要。

This product adopted PMDC brush motor as the main part of rotor. It can be matched with computer system of control. It can realise self-supervise through matching with computer, and you can set the best working model. It has characters of low noise, small volume, light, long life and wide use. Meanwhile, it can meet the customer's request of update.

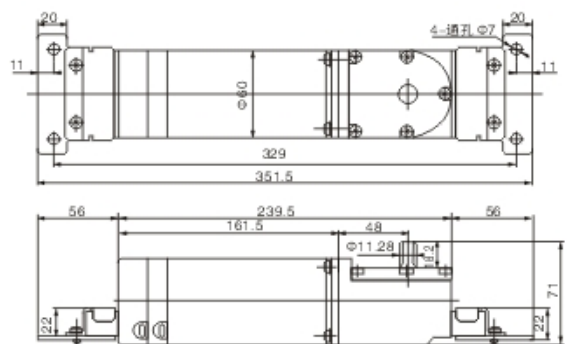


电机性能参数 Moor Performance Parameters

型号 Mode	功率 Power W	电压 Voltage V	空载参数o-load Parameters		负载参数 Load Parameters			整机允许力矩 Allowable Torque Gear Motor		电机重量 Motor Weight kg
			转速Speed r/min	电流Current A	转速Speed r/min	力矩Torque MN.m	电流Current A	GK8.5 mN.m	GK13 mN.m	
ZDMJ-1	60	24	2300	0.4Max.	1800	318	4.0	1840	2650	1.2
ZDMJ-2	60	90	2300	0.3Max.	1800	318	1.1			1.0

外形图 Dimensions(单位Unit: mm)

减速器附有安装用螺丝Mounting screws are included with gearhead.
导线型(电动机: 1.8kg 减速器: 0.8kg)
Lead Wire Type (Motor:1.8kg Gearhead:0.8kg)



电动机型号 Motor model	减速器型号 Gearhead model	减速比 Gear Ratio
ZDMJ-1	GK□	8.5
ZDMJ-2		13

减速器型号的□中为减速比的数值
Enter the gear ratio in the box(□)within the model name

齿轮箱出轴渐开线花键参数 Parameters of involute output shaft		
模数Module	m	0.6
齿数Teeth	z	18
压力角Pressure angle	α	45°
公差等级和配合类别 Tolerance class and matching sort	6h	6hGB/T3478.1-95
大径 Big dia	Dee	φ 11.28 ^{+0.02} _{-0.04}
小径 Small dia	Die	φ 10.08 ^{+0.02} _{-0.04}
跨齿数 Gear No of spanning measurement	K	4
公法线平均长度 Average length of common line	Wmin	6.34

主要技术要求 Main Data

- 1、基本技术参数：DC24V,60W,1800RPM S1, B CLASS, IP20
- 2、额定力矩：318 mN.m
- 3、光机空载噪声：<50dB, L=50cm
- 4、耐电压：AC660V, 1S, 泄漏电流<5mA
- 5、绝缘电阻：>20MΩ 500V
- 6、工作寿命：2500H
- 7、环保要求：符合ROHS指令



直流减速电动机 DC GEAR MOTOR

无刷开门电机/BRUSHLESS DOOR MOTORS

产品特点 Product Charactes

本产品采用DC无刷直流马达做运转主体，可更方便的与微电脑控制系统对接。更方便的与电脑控制系统配合实现自我监察，制定最佳动作模式，如速度、推动力、制动力等。产品具有：寿命长、噪声低、体积小、重量轻、适用范围广等优点；同时可满足客户对自动门升级的需要。

This product adopted PMDC brush motor as the main part of rotor. It can be matched with computer system of control. It can realise self-supervise through matching with computer, and you can set the best working model. Such asspeed ,impetus, resistant power and so on. It has characters of low noise, small volume, light, long life and wide use. Meanwhile, it can meet the customers' request of update.

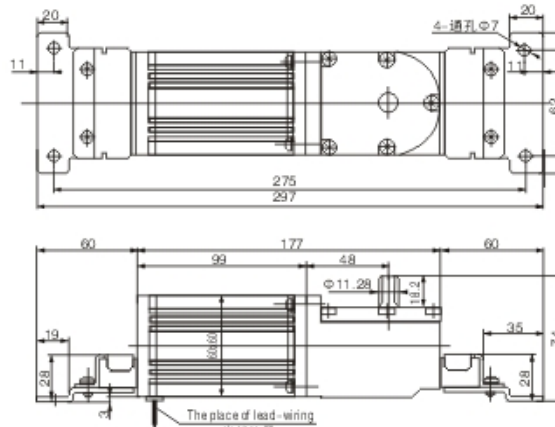


电机性能参数 Moor Performance Parameters

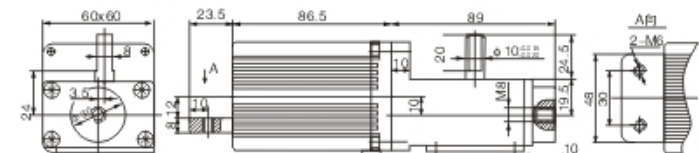
型号 Mode	功率 Power W	电压 Voltage V	空载参数o-load Parameters		负载参数 Load Parameters			整机允许力矩 Allowable Torque Gear Motor		电机重量 Motor Weight kg
			转速Speed R/min	电流Current A	转速Speed r/min	力矩Torque mN.m	电流Current A	GK8.5 mN.m	GK13 MN.m	
ZDMJ-3	60	24	3000	0.6Max.	2500	229	4.0	1320	2000	1.2
ZDMJ-4	60	24	3000	0.6Max.	2500	229	4.0	GX12.5/195.		1.0

外形图 Dimensions(单位Unit: mm)

减速器附有安装用螺丝Mounting screws are included with gearhead.
ZDMJ-3(电动机: 1.2kg 减速器: 0.8kg)
ZDMJ-3(Motor:1.2kg Gearhead:0.8kg)



ZDMJ-4(电动机: 1.0kg 减速器: 0.5kg)
ZDMJ-4(Motor:1.0kg Gearhead:0.5kg)



电动机型号 Motor model	减速器型号 Gearhead model	减速比 Gear Ratio
ZDMJ-3	GK□	8.5
ZDMJ-4		13
	GK□	12.5

减速器型号的□中为减速比的数值
Enter the gear ratio in the box(□)within the model name

齿轮箱出轴渐开线花键参数 Parameters of involute output shaft		
模数Module	m	0.6
齿数Teeth	z	18
压力角Pressure angle	α	45o
公差等级和配合类别 Tolerance class and matching sort	6h	6hGB/T3478.1-95
大径 Big dia	Dee	φ 11.28 ^{+0.02} _{-0.04}
小径 Small dia	Die	φ 10.08 ^{+0.02} _{-0.04}
跨齿数 Gear No of spanning measurement	K	4
公法线平均长度 Average length of common line	Wmin	6.34

主要技术要求 Main Data

- 1、基本技术参数：DC24V,60W,2500RPM S1, B CLASS, IP20
- 2、额定力矩：229 mN.m
- 3、光机空载噪声：<50dB, L=50cm
- 4、耐电压：AC660V, 1S, 泄漏电流<5mA
- 5、绝缘电阻：>50MΩ 500V
- 6、工作寿命：4000H
- 7、环保要求：符合ROHS指令