



GUANGZHUO
Transmission

减速机系列



常州市光卓传动设备有限公司

Changzhou Guangzhuo Transmission Machine Co., LTD

<https://www.czgzcd.com>

小型交流减速电机型号说明方法

TYPE AND MOTOR MODEL

■ 减速电机型号说明 Description Of Motor Model

G H - 100 - 50 - SZ - B - G1 - LD - Q1
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① 箱体结构基本代号 Basic structure: H (卧式 Horizontal), V (立式 Vertical)

② 输出功率 Output: 100W, 200W, 400W, 750W, 1100W, 1500W, 2200W, 3000W, 3700W

③ 齿轮箱的减速比 Gear ratio: 3, 5, 10...1800

④ 电机的基本结构 Motor basic data:

S: 三相电机 3-Phase motor, 220-240/380-415V, 50/60Hz

C: 单相电机 1-Phase motor, 220V, 50/60Hz

E: 单相电机 1-Phase motor, 110V, 50/60Hz

DV: 单相双电压电机 Double voltage motor, 110V/220V, 50/60Hz

Z: 缩框型减速电机 Light type duty

(标准型省略 Standard type omit)

⑤ 刹车器 Brake unit

B: DC断电刹车器 Brake unit (另配交变直快速整流器 With quick rectifier from AC to DC)

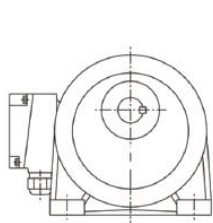
YB: 手持放刹车器 Manual brake unit

F1: 110V轴流风机, F2: 220V轴流风机, F3: 380V轴流风机 F1: 110V axial fan, F2: 220V axial fan, F3: 380V axial fan

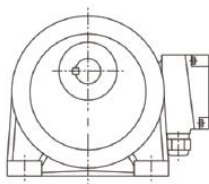
⑥ 出轴端看接线盒方位 (如图示) Terminal box direction from output shaft (As shown)

G1: 左方向 Left G2: 右方向 Right G3: 上方向 Top G4: 下方向 Down

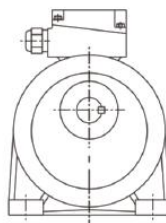
G H 型
G H Type



G1:左方向Left



G2:右方向Right

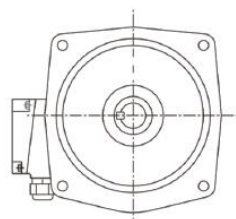


G3:上方向Top

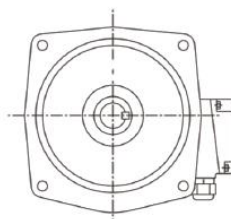


G4:下方向Down

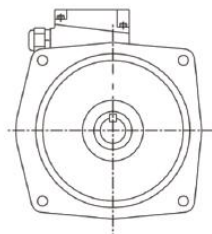
G V 型
G V Type



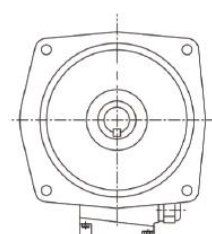
G1:左方向Left



G2:右方向Right



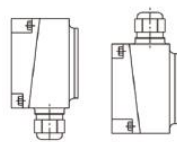
G3:上方向Top



G4:下方向Down

⑦ 出轴端看引出线方位 (如图示) Lead direction from output shaft (As shown)

T: 向上 Top D: 向下 Down F: 向前 Forward B: 向后 Back L: 向左 Left R: 向右 Right



LD



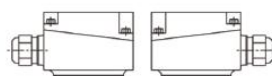
LT



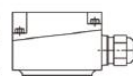
RD



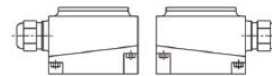
RT



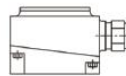
TL



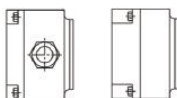
TR



DL



DR



LF



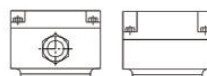
LB



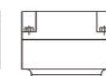
RF



RB



TF



TB



DF



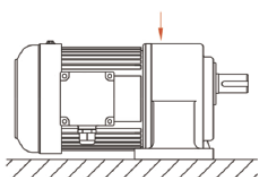
DB

小型交流减速电机型号说明方法

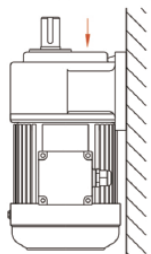
TYPE AND MOTOR MODEL

- ⑧ 出厂标准安装形式：Standard installaion method
 本公司出厂所有减速器适用如图安装形式
 All of our company's reducer can be applied to the following kinds of installation method
 图中Ho、H3、H6、H9、Hu、HD中注油孔方向为标准型
 In the diagram, Ho,H3,H6,H9,Hu,HD are our standard types of oil hole direction
 注油孔在特殊位置的，请特别告知，本公司将修改出气孔位置
 Pls inform us if the location of oil hole is special, we will modify it
 实际使用时，建议将注油孔中的堵油销拔出，以平衡减速箱内的压力
 Pls pull out the pin of the oil plug to reduce the pressure in the gearbox during running

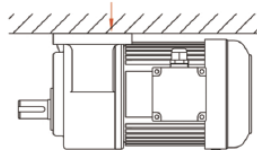
Ho 出气孔方向
Air hold direction



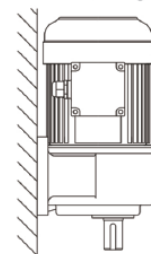
Hu 出气孔方向
Air hold direction



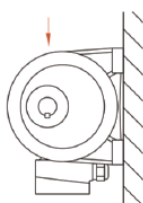
H6 出气孔方向
Air hold direction



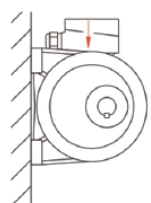
HD 无出气孔
No oil filling hole



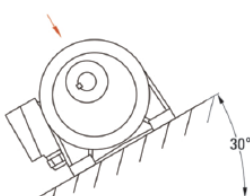
H9 出气孔方向
Air hold direction



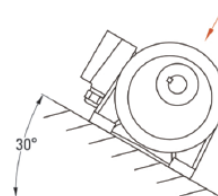
H3 出气孔方向
Air hold direction



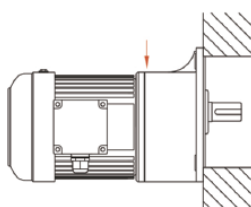
H1 出气孔方向
Air hold direction



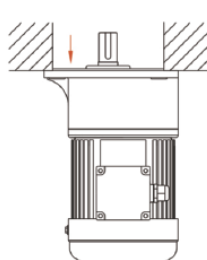
H2 出气孔方向
Air hold direction



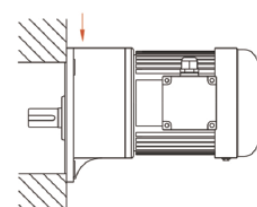
Vo 出气孔方向
Air hold direction



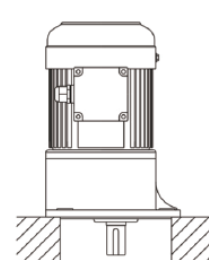
Vu 出气孔方向
Air hold direction



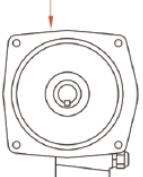
V6 出气孔方向
Air hold direction



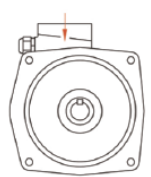
VD 无出气孔
No oil filling hole



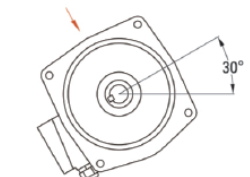
V9 出气孔方向
Air hold direction



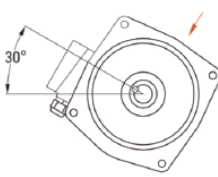
V3 出气孔方向
Air hold direction



V1 出气孔方向
Air hold direction



V2 出气孔方向
Air hold direction



备注：

订购变频电机时，请说明变频范围，减速电机的使用环境工作方式等。

带刹车减速电机总长度需增加10mm。

Note:

For motors supplied by transducer please tell us detailed working modes and working ambient.

The total length of brake motors will be 10mm longer than standard motors.

技术资料 TECHNICAL DATA

电机基本规范 Motor Specification

项目 Item	三相电机 3-Phase Motor	单相电机 1-Phase Motor
防护等级 Protection	铝合金壳接线盒为IP54, 铁壳接线盒为IP20 IP54 with alum alloy terminal box, and other is IP20	
外壳材质 Frame material	100W~3700W机壳为铝合金, 1#, 2#, 3#, 齿轮箱为铝合金 4#, 5#, 6#齿轮箱为铸铁 Alum alloy for 100W~2200W frame, alum alloy for 1#, 2#, 3#, gear case, 4#, 5#, 6# cast iron for others	
工作方式 Duty	连续运转 / Continuous running S1工作制 Duty: S1	
绝缘等级 INS.class	B级(F级)可选/Optional 常规B级 (F级可选) Regular class B (Class F can choose)	
适用环境 Environment	温度 / Temp: -10℃~+40℃ 湿度 / Humidity: ≤90%	
使用电压 Voltage	220V, 380V, 240V, 400V, 415V, 440V, 50/60Hz	110V/50/60Hz, 220V/50/60Hz
极数 Pole	4P (6P)	4P
海拔 Height	≤1000m	
起动方式 Starting	全压起动 Direct start	0.1-0.2Kw单电容起动 Capacitor 0.4-1.5Kw双电容起动 Double capacitors
依据标准 Standard	GB755/IEC-60034	

单相电机配套电容值, 电容运转形式 Capacitor For 1-phase Motor, C-running Type

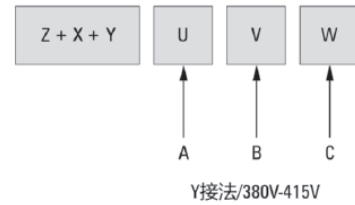
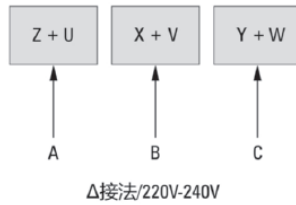
输出功率 Output Power	运转电容 Running Capacitor	起动电容 Starting Capacitor	运转电容+起动电容 (离心开关) Running+Starting Capacitor (Ceutrifugal Switch)
100W, 1/8HP	10μF/450V	/	/
200W, 1/4HP	16μF/450V	100μF/250V	/
400W, 1/2HP	30μF/450V	/	25μF/450V+75μF/250V
750W, 1HP	35μF/450V	/	35μF/450V+150μF/250V
1500W, 2HP	50μF/450V	/	50μF/450V+200μF/250V

刹车性能说明 Function For Brake Unit

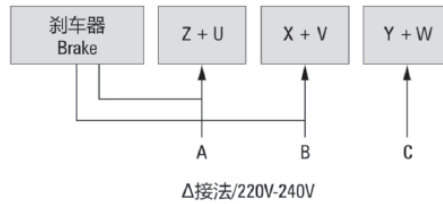
输出功率 Output Power	允许最高转速 Permit Max Rpm	刹车制动力 Torque (kg.m)	刹车间隙 Clearance (mm)	重量 Weight (kg)
1/8HP4P-1/4HP4P (100W-200W)	4000	0.15-0.4	0.3-0.5	2.0
1/2HP4P-1HP4P (400W-750W)	3600	0.25-0.7	0.4-0.6	4.3
1.5HP4P-2HP4P (1100W-1500W)	3600	0.92-2.0	0.5-0.7	6.3
3HP4P-5HP4P (2200W-3700W)	3600	1.80-3.5	0.6-0.8	7.0

接线方式 WIRING DIAGRAM

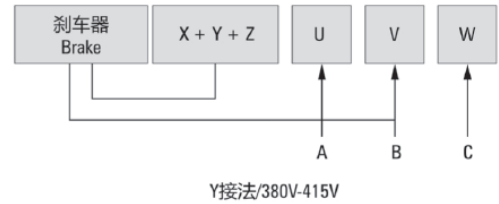
三相电机接线方式
FOR 3-PHASE MOTOR



三相电机与刹车器接线方式
THE CONNECTION MODE FOR THREE PHASE MOTOR AND BRAKE



※注: 刹车器两根电源线接任意两根接线端。
Note: Brake wires can connect to either pin.

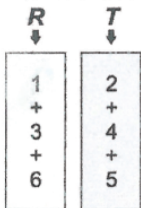


※注: 刹车器电源线一根接电机公共端, 另外一根接电机任意一组。
Note: One of brake wire connect to motor public and the other wire connects to either motor wire.

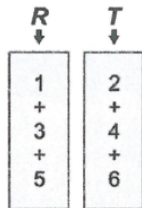
車器結綫方式 SINGLE PHASE MOTOR W/BRAKE UNIT DIAGRAM

相低壓 LOW VOLTAGE-110V

CLOCKWISE

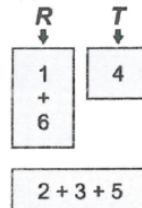


反轉 COUNT-CLOCKWISE

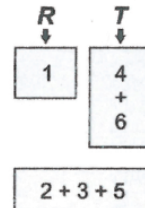


(a) 單相高壓 HIGH VOLTAGE-220V

正轉 CLOCKWISE

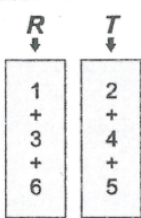


反轉 COUNT-CLOCKWISE

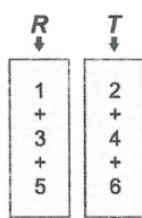


(c) 單相低壓 110V 附直流刹車器
LOW VOLTAGE 110V WITH DC BRAKE UNIT

正轉 CLOCKWISE



反轉 COUNT-CLOCKWISE



AC110V → DC90V
整流器
POWER UNIT

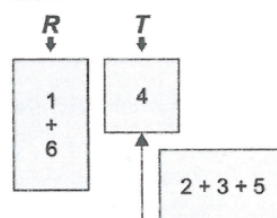
DC 90V 刹車器線圈
BRAKE UNIT

AC110V → DC90V
整流器
POWER UNIT

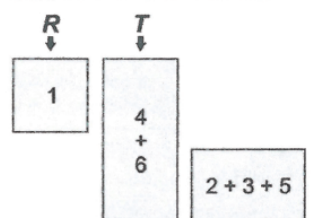
刹車器線圈
DC90V BRAKE

(c) 單相高壓 220V 附直流刹車器
HIGH VOLTAGE 220V WITH DC BRAKE UNIT

正轉 CLOCKWISE



反轉 COUNT-CLOCKWISE



AC110V → DC90V
整流器
POWER UNIT

DC 90V 刹車器線圈
BRAKE UNIT

AC110V → DC90V
整流器
POWER UNIT

DC 90V 刹車器線圈
BRAKE UNIT

※备注: 电机变频时, 刹车器请单独接电源。电机使用频率低于30Hz时, 必须带轴流风机, 轴流风机须单独接电源。

※Note: Please connect brake wire to power single when motor frequency converts. Motor must match a separate fan when run under 30Hz.

技术资料 TECHNICAL DATA

(2) 三相电压全负载电流值 3-PHASE/4-POLES FULL LOAD AMPERE

输出马力 CAPACITY	50HZ-4P					60HZ-4P				
	220V	380V	415V	440V	RPM	220V	380V	440V	460V	RPM
100W	0.60	0.40	0.32	0.30	1410	0.6	0.40	0.30	0.29	1720
200W	1.15	0.67	0.70	0.58	1410	1.1	0.63	0.55	0.52	1720
400W	2.14	1.24	1.13	1.07	1420	1.9	1.10	0.95	0.91	1730
750W	3.67	2.13	1.94	1.84	1420	3.4	1.96	1.70	1.63	1730
1500W	6.59	3.82	3.49	3.30	1430	6.1	3.53	3.05	2.92	1740
2200W	8.94	5.18	4.74	4.47	1430	8.7	5.04	4.35	4.16	1725
3700W	13.85	8.03	7.34	6.93	1430	13.5	7.82	6.75	6.46	1745

(3) 单相电压全负载电流值 1-PHASE/4-POLES FULL LOAD AMPERE

输出马力 CAPACITY	50HZ-4P			60HZ-4P		
	110V	220V	RPM	110V	220V	RPM
100W	4.00	2.00	1410	3.80	1.90	1720
200W	5.00	2.50	1410	4.60	2.30	1720
400W	8.40	4.20	1420	7.80	3.90	1730
750W	14.20	7.10	1420	12.90	6.40	1730
1500W	26.00	13.00	1430	23.40	11.70	1740

(4) 单相马达电容器规格 1-PHASE MOTOR CAPACITOR

输出马力 CAPACITY	运转电容 (文电型)	启动电容 (离心开关型)	运转电容+启动电容 (离心开关型)
100W	10 μ f-350V	--	--
200W	16 μ f-350V	125 μ f-160v	--
400W	30 μ f-350V	--	30 μ f-350v + 200 μ f-160v
750W	35 μ f-350V	--	30 μ f-350v + 300 μ f-160v
1500W	--	--	50 μ f-250v + 400 μ f-160v

技术资料 TECHNICAL DATA

B) 输出扭矩表 OUTPUT TORQUE

标准型 NORMAL DUTY

减速比 RATIO	输出转速 OUTPUT R.P.M		输出扭矩 OUTPUT TORQUE													
			0.1KW		0.2KW		0.4KW		0.75KW		1.5KW		2.2KW		3.7KW	
	HZ															
	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60
3	500	600	0.19	0.16	0.37	0.31	0.70	0.60	1.30	1.10	2.60	2.20	3.80	3.20	6.00	5.50
5	300	360	0.31	0.26	0.62	0.52	1.20	1.00	2.20	1.90	4.50	3.80	6.72	5.60	11.0	10.0
10	150	180	0.62	0.52	1.24	1.04	2.40	2.00	4.50	3.80	9.10	7.60	13.7	11.2	22.0	20.0
15	100	120	0.91	0.76	1.80	1.50	3.60	3.00	6.80	5.70	13.5	11.3	20.1	16.8	32.6	29.8
20	75	90	1.20	1.00	2.40	2.00	4.80	4.00	9.00	7.50	18.1	15.1	26.8	22.4	43.6	36.0
25	60	72	1.40	1.20	3.00	2.50	6.00	5.00	11.2	9.40	22.6	18.9	33.6	28.0	53.9	49.53
30	50	60	1.80	1.50	3.60	3.00	7.20	6.00	13.5	11.3	27.1	22.6	40.3	33.6	64.7	58.8
40	37	45	2.20	1.90	4.60	3.90	9.30	7.80	17.5	14.6	34.9	29.1	52.0	43.4	86.3	78.4
45	33	40	2.70	2.20	5.40	4.40	10.9	9.10	20.6	17.0	41.1	34.0	59.8	49.6	98.5	81.7
50	30	36	2.80	2.40	5.70	4.80	11.6	9.70	21.9	18.3	43.6	36.4	65.1	54.3	107	97.0
60	25	30	3.40	2.90	6.90	5.80	13.9	11.6	26.2	21.9	52.4	43.7	78.1	65.1	127	115
70	21	25	4.30	3.60	8.00	6.80	16.2	13.5	31.5	26.3	62.4	52.0	92.5	77.1		
80	19	23	4.80	4.00	9.20	7.70	18.4	15.4	35.5	29.6	70.8	59.0	105	87.5		
90	17	20	5.20	4.40	10.3	8.60	20.7	17.3	39.3	32.8	77.1	64.3	113	94.3		
100	15	18	5.80	4.90	11.5	9.60	23.0	19.2	43.2	36.0	83.7	69.8	126	105		
120	12	15	6.90	5.80	13.8	11.5	27.7	23.1	51.8	43.2	101	83.7				
140	11	13	8.00	6.70	16.0	13.4	32.0	26.7	59.7	49.8	116	96.8				
160	9	11	9.10	7.60	18.3	15.3	36.3	30.3	68.0	56.7	132	110				
180	8	10	10.3	8.60	20.7	17.3	40.8	34.0	76.8	64.0	148	123				
200	7	9	11.6	9.70	22.9	19.1	43.2	36.0	82.8	69.0						

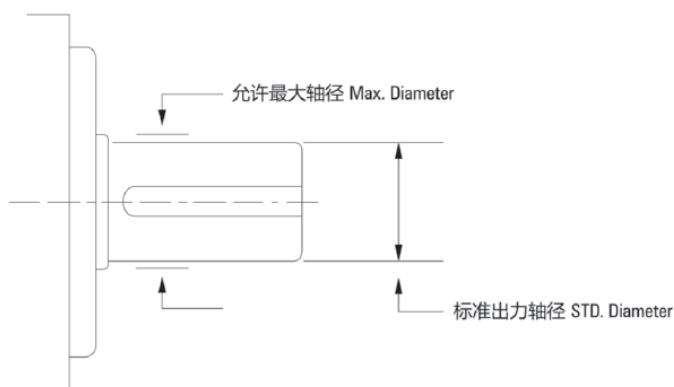
(C) 出力轴悬垂荷重 OVERHUNG LOAD

KG-M

减速比 RATIO	输出转速 OUTPUT R.P.M		0.1KW		0.2KW		0.4KW		0.75KW		1.5KW		2.2KW		3.7KW	
	HZ															
	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60
3	500	600	30	25	30	25	54	45	60	50	145	130	165	150	200	180
5	300	360	36	30	36	30	78	70	85	75	165	150	210	180	270	225
10	150	180	70	60	70	60	150	130	180	150	280	250	430	360	570	550
15	100	120	110	90	110	100	175	160	165	160	355	348	490	450	780	750
20	75	90	150	125	135	125	190	170	175	170	369	365	540	500	850	830
25	60	72	155	140	150	140	210	180	185	180	450	430	650	630	1100	1050
30	50	60	160	150	170	165	235	220	415	400	480	450	690	650	1200	1100
40	38	45	160	160	180	180	270	260	430	420	580	550	710	670	1280	1200
45	33	40	170	170	180	180	335	328	440	430	590	570	820	780	1300	1250
50	30	36	170	170	180	180	350	335	450	440	600	580	850	820	1400	1350
60	25	30	180	180	180	180	350	350	450	450	630	610	900	900	1400	1400
70	21	25	180	180	180	180	350	350	460	460	670	650	1100	1100		
80	18	22	180	180	180	180	350	350	460	460	680	680	1100	1100		
90	16	20	180	180	180	180	350	350	500	500	850	850	1200	1200		
100	15	18	200	200	250	250	380	380	590	590	900	900	1200	1200		
120	12	15	200	200	320	320	390	390	640	640	920	920				
140	11	13	200	200	320	320	400	400	679	679	920	920				
150	10	12	220	220	330	330	420	420	679	679	950	950				
160	9	11	220	220	330	330	420	420	700	700	950	950				
180	8	10	240	240	350	350	430	430	720	720	980	980				
200	7	9	240	240	350	350	430	430	720	720						
1/250~1/1800			300	300	480	480	720	720	1400	1400						

技术资料 TECHNICAL DATA

输出轴允许最大轴径 Available Max Output Shaft Diameter

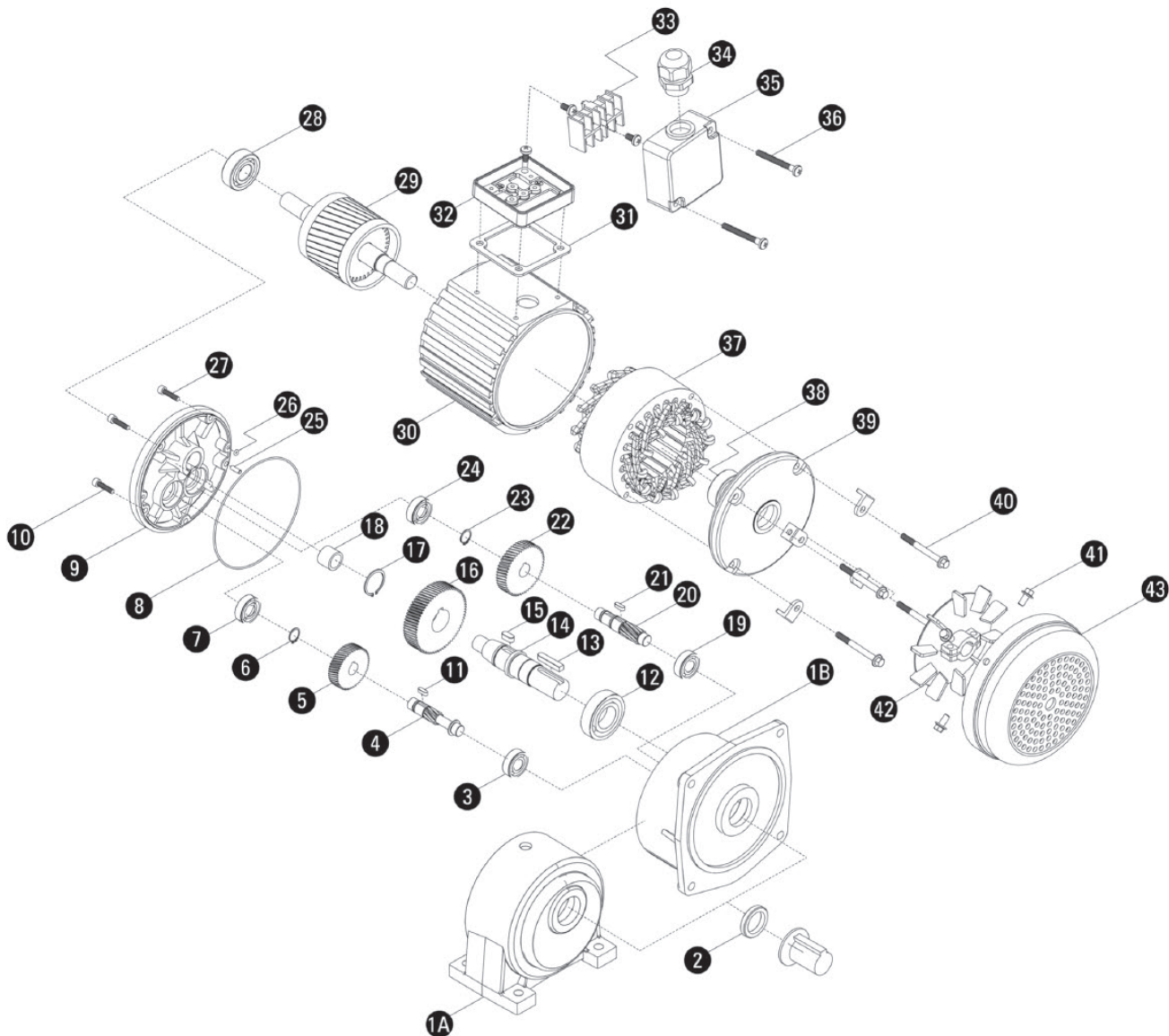


齿轮箱型号 Gear Box	标准出轴直径 Standard Output Shaft Dia	最大允许直径 Max Available Shaft Dia	输出端轴承 Output End Bearing
1#	Φ18	Φ20	6004
2#	Φ22	Φ25	6205
3#	Φ28	Φ30	6206
4#	Φ32	Φ35	6207
5#	Φ40	Φ45	6209
6#	Φ50	Φ55	6211

减速电机各零件部分大致说明 Main Parts Notes

部件名称 Parts Name	说明 Notes
箱体 Gearbox	1#、2#、3#箱体出轴直径为18、22、28，箱体采用铝合金，4#、5#、6#箱体出轴直径为32、40、50，箱体采用铸铁。 The output shaft diameter of gearbox 1#, 2#, 3# are 18, 22, 28 separately. The material of gearbox is Al. alloy. 4#, 5#, 6# are 32, 40, 50 respectively. Gearbox is made of cast iron.
齿轮片 Gear piece	齿轮材料为40Cr，调质HB280，高精度滚齿，齿部高频淬火HRC50，齿面磨齿，齿轮精度6级。 The material 40Cr mixes to HB280, then dealt with high frequency quencher HRC50. Gear should be processed by milling with high precision. The class is 6.
齿轮轴 Gear shaft	齿轮材料为20CrMnTi，高精度滚齿，渗碳淬火HRC60，齿面二次刮削，精度6级。 The material 20CrMnTi will be changed into HRC60 through processing of cementite quencher. Gear shaft will be processed with gear hobbing. Precision class is 6.
电机轴 Motor shaft	齿轮材料为20CrMnTi，高精度滚齿，渗碳淬火HRC60，齿面二次刮削，精度6级。 The material 20CrMnTi will be changed into HRC60 through processing of cementite quencher. Gear shaft will be processed with gear hobbing. Precision class is 6.
轴承 Ball bearing	电机部分轴承采用高精度等级精密轴承，以确保长期运转寿命。 We adopt tight bearing with high precision, to make sure longterm running life.
油封 Oil seal	电机轴以耐高温油封为主，可有效防止油脂渗漏。 Gear shaft gives priority to enduring high temp, avoiding oil infiltration.
接线盒 Terminal box	有两种：一种是铝合金接线盒，有较好的防水及防尘性能，防护等级为IP54。 另外一种是铁壳的接线盒，结构轻巧，防护等级IP20。 Two type. One is Al alloy, which equips good capability of waterproof and dustproof. Protection grade is Ip54. The other is steel case with deft structure. Protection grade is IP20.

产品结构图 DETAILS PARTS LIST



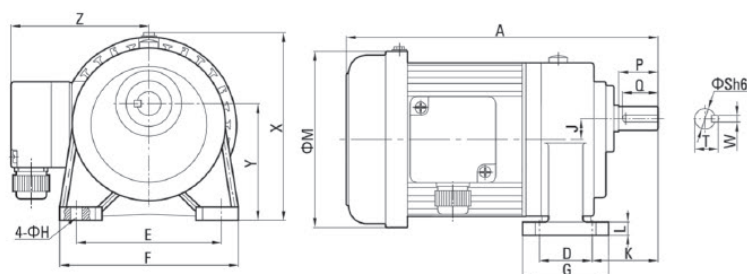
明细表 Parts List

序号 Item	名称 Name	序号 Item	名称 Name	序号 Item	名称 Name
1A	卧式 Horizontal housing	15	三级小齿轴键 Key-3RD pinion	30	机壳 Shell
1B	立式 Vertical housing	16	三级大齿轮 Gear-3RD stage	31	密封垫 A seal
2	输出轴油封 Oil seal-output shaft	17	C-挡圈 Snap ring	32	接线盒底座 Junction box base
3	二级齿轴承 Bearing-2ND stage pinion	18	输出轴自润轴承 Oilless bearing	33	接线端子 Terminal block
4	二级小齿轴 Pinion-3ND stage	19	二级齿轴承 Bearing-2ND stage pinion	34	锁紧器 Locking device
5	一级大齿轮 Gear-1ST stage	20	三级小齿轴 Pinion-2ND stage	35	接线盒盖 Junction box
6	C-挡圈 Snap ring	21	三级小齿轴键 Key-3RD stage pinion	36	固定螺钉 Fixed screw
7	二级齿轴承 Bearing-2ND stage pinion	22	二级大齿轮 Gear-2RD stage	37	定子总成 Stator
8	O型圈 Oil ring	23	C-挡圈 Snap ring	38	电机轴承 Bearing of shaft
9	电机前盖 Front cover	24	三级齿轴承 Bearing-3ND stage pinion	39	后端盖 Back cover
10	内六角螺钉 Hex-head screw	25	定位销 Pin	40	固定螺栓 Fixed bolt
11	二级小齿轴键 Key-2RD stage pinion	26	O型圈 Oil ring	41	内六角螺钉 Hex-head screw
12	输出轴承 Bearing-output shaft	27	内六角螺钉 Hex-head screw	42	风叶 Fan
13	输出轴键 Key-output shaft	28	电机轴承 Bearing of shaft	43	风罩 Fan cover
14	输出轴 Output shaft	29	转子 Rotor		

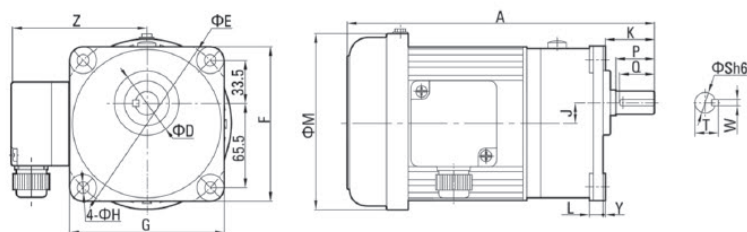
1#齿轮箱出轴直径 $\Phi 18\text{mm}$ 配三相电机技术参数

1#GEARBOX WITH SHAFT DIA $\Phi 18\text{mm}$ WITH 3-PHASE MOTOR PARAMETERS

卧式 Horizontal



立式 Vertical



尺寸表 Size Table

单位 Unit:mm

功率 Power	减速比Ratio	A	D	E	F	G	H	J	K	L	M	X	Y	Z	S	P	Q	W	T	重量Weight
100W 1/8HP	标准型3-50	250	40(50)	110(140)	135(120)	65(120)	9	16	50(39.5)	10(12)	133	138	88.5(2)	120	18	30	27	5	20.2	6
	缩框型60-200	250	40(50)	110(140)	135(120)	65(120)	9	16	50(39.5)	10(12)	133	138	88.5(2)	120	18	30	27	5	20.2	6
200W 1/4HP	标准型3-10	285	40(50)	110(140)	135(120)	65(120)	9	16	50(39.5)	10(12)	133	138	88.5(2)	120	18	30	27	5	20.2	7.0
	缩框型15-90	285	40(50)	110(140)	135(120)	65(120)	9	16	50(39.5)	10(12)	133	138	88.5(2)	120	18	30	27	5	20.2	7.0

※表中“()”内为立式箱体尺寸。

※Labulation“()”denote vertical box dimension.

输出轴容许扭矩 Output Torque

单位 Unit:kg.m

功率 Power	类型 Type	速 频 率	3	5	10	15	20	25	30	40	45	50	60	70	80	90	100	120	140	160	180	200
100W 1/8HP	标准型 Standard type	50Hz	0.20	0.30	0.60	0.80	1.10	1.40	1.70	2.30	2.50	2.80	/	/	/	/	/	/	/	/	/	/
		60Hz	0.10	0.20	0.50	0.70	0.90	1.20	1.40	1.90	2.10	2.30	/	/	/	/	/	/	/	/	/	/
	缩框型 Light duty type	50Hz	/	/	/	/	/	/	/	/	/	/	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40
		60Hz	/	/	/	/	/	/	/	/	/	/	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40
200W 1/4HP	标准型 Standard type	50Hz	0.30	0.60	1.10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
		60Hz	0.30	0.50	0.90	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	缩框型 Light duty type	50Hz	/	/	/	1.70	2.30	2.80	3.40	3.40	3.40	3.40	3.40	3.40	3.40	/	/	/	/	/	/	/
		60Hz	/	/	/	1.40	1.90	2.30	3.40	3.40	3.40	3.40	3.40	3.40	3.40	/	/	/	/	/	/	/

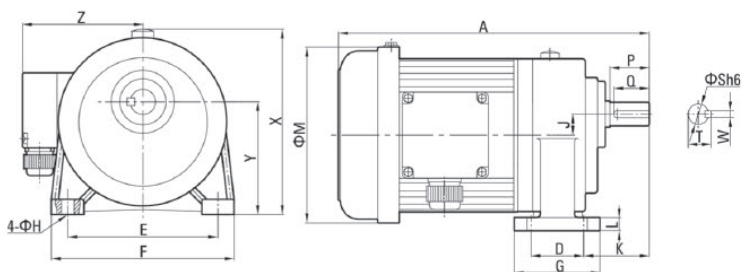
2#齿轮箱出轴直径 $\Phi 22\text{mm}$ 配三相电机技术参数 2#GEARBOX WITH SHAFT DIA $\Phi 22\text{mm}$ WITH 3-PHASE MOTOR PARAMETERS

■ 卧式 Horizontal

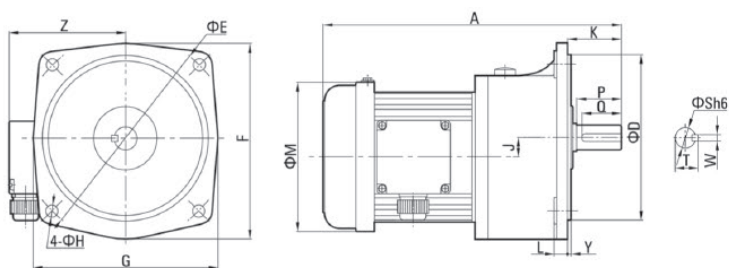
■ 立式 Vertical



■ 卧式 Horizontal



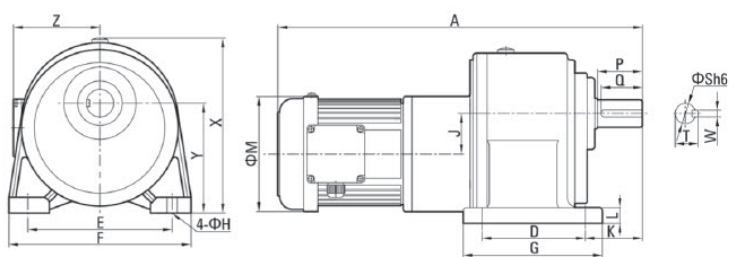
■ 立式 Vertical



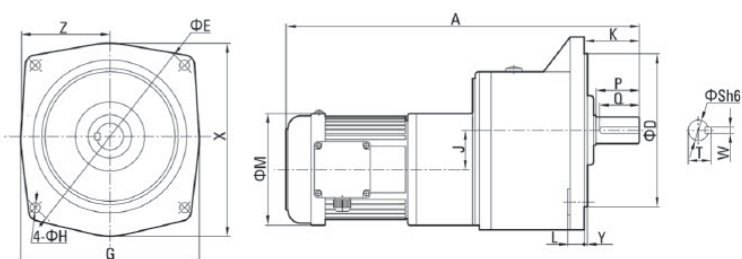
■ 高速比(1#+2#) High Ratio(1#+2#)



■ 卧式 Horizontal



■ 立式 Vertical



2#齿轮箱出轴直径Φ22mm配三相电机技术参数
2#GEARBOX WITH SHAFT DIA Φ22mm WITH 3-PHASE MOTOR PARAMETERS

尺寸表 Size Table

单位 Unit:mm

功率 Power	减速比Ratio	A	D	E	F	G	H	J	K	L	M	X	Y	Z	S	P	Q	W	T	重量Weight
100W 1/8HP	标准型60-200	280	65(148)	130(185)	158(175)	90(165)	11	17.5	60(48)	13(12)	133	152	97.5(3)	120	22	40	35	7	25	8
	缩框型250-180 (1#+2#)	345	65(148)	130(185)	158(175)	90(165)	11	33.5	60(48)	13(12)	133	152	97.5(3)	120	22	40	35	7	25	12.0
200W 1/4HP	标准型15-90	285	65(148)	130(185)	158(175)	90(165)	11	17.5	60(48)	13(12)	133	152	97.5(3)	120	22	40	35	7	25	9.00
	缩框型100-200	285	65(148)	130(185)	158(175)	90(165)	11	17.5	60(48)	13(12)	133	152	97.5(3)	120	22	40	35	7	25	9.00
400W 1/2HP	标准型3-10	330	65(148)	130(185)	158(175)	90(165)	11	17.5	60(48)	13(12)	167	152	97.5(3)	135	22	40	35	7	25	11.5
	缩框型15-90	330	65(148)	130(185)	158(175)	90(165)	11	17.5	60(48)	13(12)	167	152	97.5(3)	135	22	40	35	7	25	12
750W 1HP	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	缩框型3-25	330	65(148)	130(185)	158(175)	90(165)	11	17.5	60(48)	13(12)	167	152	97.5(3)	135	22	40	35	7	25	13.5

※表中"()"内为立式箱体尺寸。
※Labulation"()"denote vertical box dimension.

输出轴容许扭矩 Output Torque

单位 Unit:kg.m

功率 Power	类型 Type	速 频 率	3	5	10	15	20	25	30	40	45	50	60	70	80	90	100	120	140	160	180	200
100W 1/8HP	标准型 Standard type	50Hz	/	/	/	/	/	/	/	/	/	/	3.40	3.90	4.50	5.10	5.60	6.80	7.90	9.00	10.1	11.3
		60Hz	/	/	/	/	/	/	/	/	/	/	2.80	3.30	3.70	4.20	4.60	5.60	6.50	7.40	8.40	9.30
	缩框型 Light duty type	50Hz	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
		60Hz	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
200W 1/4HP	标准型 Standard type	50Hz	/	/	/	1.50	2.00	2.50	3.00	4.10	4.60	5.10	6.10	7.10	8.10	9.10	/	/	/	/	/	/
		60Hz	/	/	/	1.30	1.70	2.10	2.50	3.30	3.80	4.20	5.0	5.90	6.70	7.50	/	/	/	/	/	/
	缩框型 Light duty type	50Hz	/	/	/	/	/	/	/	/	/	/	/	/	/	/	10.1	11.6	11.6	11.6	11.6	11.6
		60Hz	/	/	/	/	/	/	/	/	/	/	/	/	/	/	8.40	10.0	11.6	11.6	11.6	11.6
400W 1/2HP	标准型 Standard type	50Hz	0.70	1.10	2.30	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
		60Hz	0.60	0.90	1.90	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	缩框型 Light duty type	50Hz	/	/	/	3.00	4.10	5.10	6.10	8.10	9.10	10.1	10.3	10.3	10.3	10.3	/	/	/	/	/	/
		60Hz	/	/	/	2.50	3.30	4.20	5.00	6.70	7.50	8.40	10.3	10.3	10.3	10.3	/	/	/	/	/	/
750W 1HP	标准型 Standard type	50Hz	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
		60Hz	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	缩框型 Light duty type	50Hz	1.30	2.10	4.20	5.70	7.60	9.50	/	/	/	/	/	/	/	/	/	/	/	/	/	/
		60Hz	1.00	1.70	3.50	4.70	6.30	7.80	/	/	/	/	/	/	/	/	/	/	/	/	/	/

高速比输出轴容许扭矩 (1#+2#) High Ratio Output Shaft Torque (1#+2#)

单位 Unit:kg.m

功率 Power	类型 Type	速 频 率	250	300	350	400	450	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
100W 1/8HP	缩框型 Light duty type	50Hz	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
		60Hz	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6

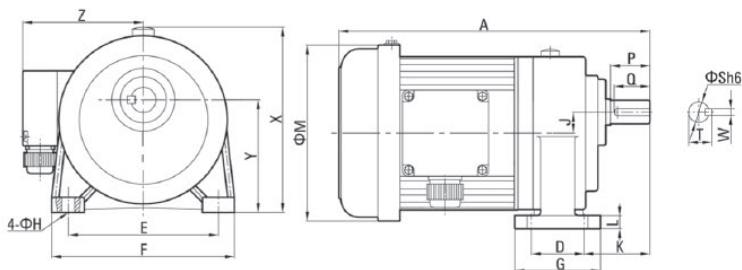
3#齿轮箱出轴直径 $\Phi 28\text{mm}$ 配三相电机技术参数 3#GEARBOX WITH SHAFT DIA $\Phi 28\text{mm}$ WITH 3-PHASE MOTOR PARAMETERS

■ 卧式 Horizontal

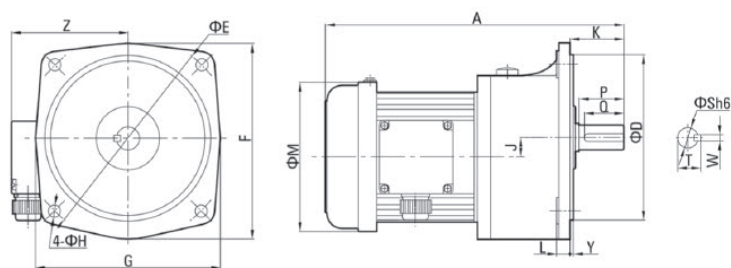
■ 立式 Vertical



■ 卧式 Horizontal



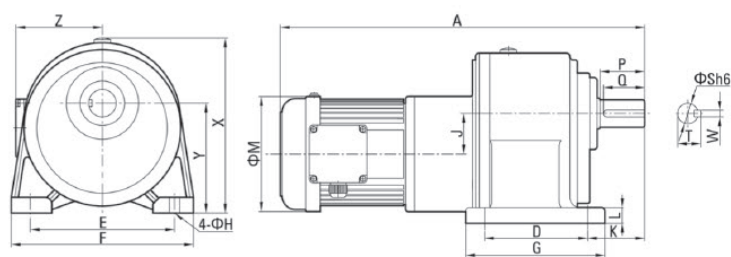
■ 立式 Vertical



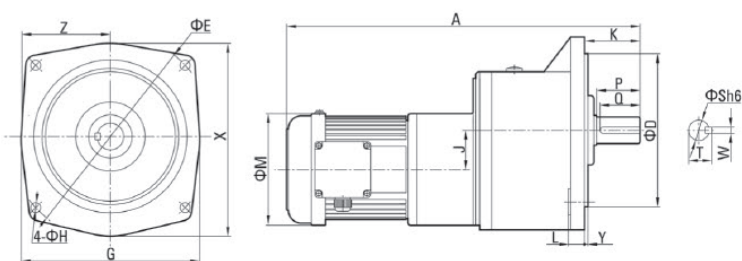
■ 高速比(1#+3#) High Ratio(1#+3#)



■ 卧式 Horizontal



■ 立式 Vertical



单位 Unit:mm

功率 Power	减速比Ratio	A	D	E	F	G	H	J	K	L	M	X	Y	Z	S	P	Q	W	T	重量Weight
100W 1/8HP	标准型250-1800 (1#+3#)	370	90(170)	140(220)	178(205)	120(195)	12	39	68(58)	17(13)	133	178	116(3)	120	28	45	40	7	31.1	14.5
	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
200W 1/4HP	标准型100-200	350	90(170)	140(220)	178(205)	120(195)	12	23	68(58)	17(13)	133	178	116(3)	120	28	45	40	7	31.1	9.00
	缩框型250-1800 (1#+3#)	410	90(170)	140(220)	178(205)	120(195)	12	39	68(58)	17(13)	133	178	116(3)	120	28	45	40	7	31.1	18.0
400W 1/2HP	标准型15-90	360	90(170)	140(220)	178(205)	120(195)	12	23	68(58)	17(13)	107	178	116(3)	135	28	45	40	7	31.1	14.0
	缩框型100-200	360	90(170)	140(220)	178(205)	120(195)	12	23	68(58)	17(13)	107	178	116(3)	135	28	45	40	7	31.1	14.0
750W 1HP	标准型3-25	380	90(170)	140(220)	178(205)	120(195)	12	23	68(58)	17(13)	107	178	116(3)	135	28	45	40	7	31.1	16.0
	缩框型30-120	380	90(170)	140(220)	178(205)	120(195)	12	23	68(58)	17(13)	107	178	116(3)	135	28	45	40	7	31.1	16.0
1500W 2HP	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	缩框型3-30	420	90(170)	140(220)	178(205)	120(195)	12	23	68(58)	17(13)	192	188	116(3)	146	28	45	40	7	31.1	25.0

※Labulation“()”denote vertical box dimension.

单位 Unit:kg.m

[illegible]

单位 Unit:kg.m

[illegible]

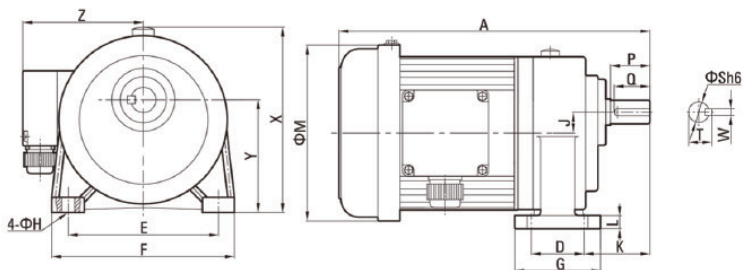
4#齿轮箱出轴直径 $\Phi 32\text{mm}$ 配三相电机技术参数 4#GEARBOX WITH SHAFT DIA $\Phi 32\text{mm}$ WITH 3-PHASE MOTOR PARAMETERS

■ 卧式 Horizontal

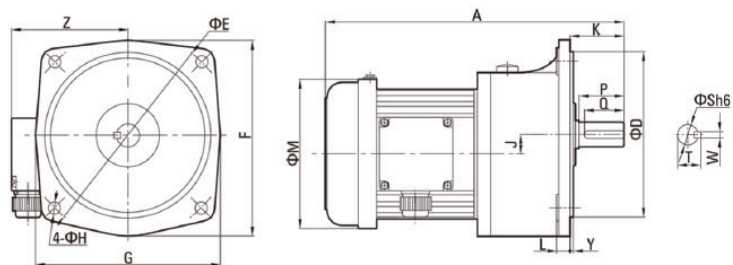
■ 立式 Vertical



■ 卧式 Horizontal



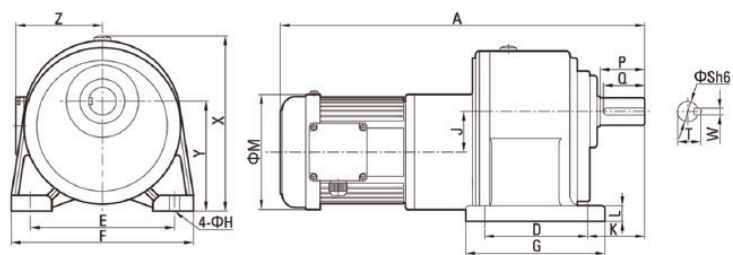
■ 立式 Vertical



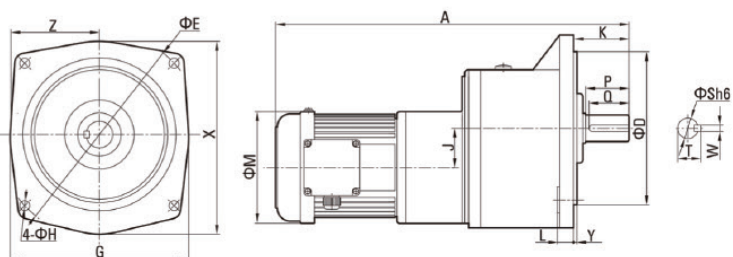
■ 高速比(2#+4#) High Ratio(2#+4#)



■ 卧式 Horizontal



■ 立式 Vertical



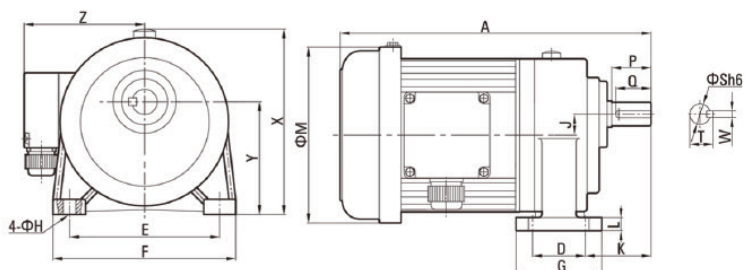
[illegible]

5#齿轮箱出轴直径 $\Phi 40\text{mm}$ 配三相电机技术参数 5#GEARBOX WITH SHAFT DIA $\Phi 40\text{mm}$ WITH 3-PHASE MOTOR PARAMETERS

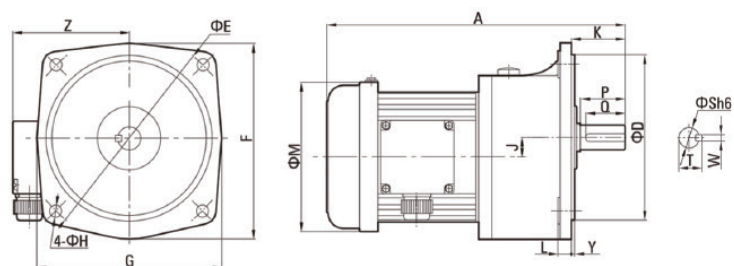
■ 卧式 Horizontal ■ 立式 Vertical



■ 卧式 Horizontal



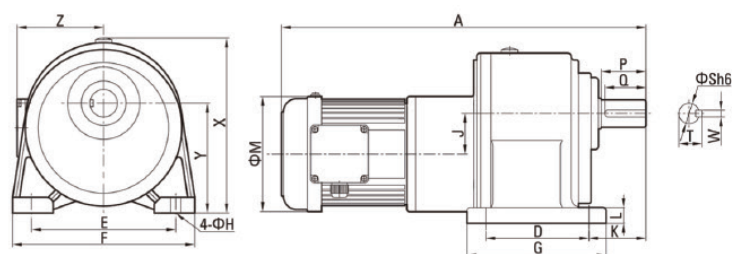
■ 立式 Vertical



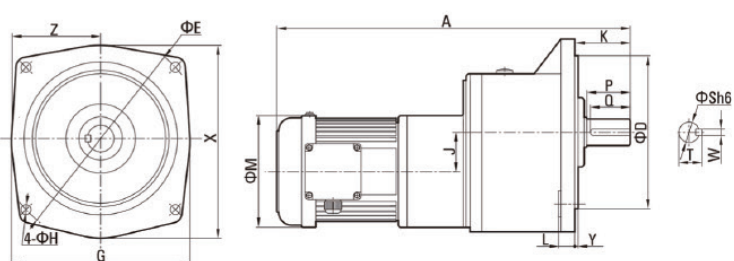
■ 高速比(3#+5#) High Ratio(3#+5#)



■ 卧式 Horizontal



■ 立式 Vertical



单位 Unit:mm

功率 Power	减速比Ratio	A	D	E	F	G	H	J	K	L	M	X	Y	Z	S	P	Q	W	T	重量Weight
400W 1/2HP	标准型250-1800 (3# + 5#)	550	150(230)	210(310)	265(291)	198(272)	15	59	85	24(21)	107	250(/)	160(5)	135	40	65	60	10	43.5	46.0
	缩框型	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
750W 1HP	标准型125-200	455	150(230)	210(310)	265(291)	198(272)	15	36	85	24(21)	107	250(/)	160(5)	135	40	65	60	10	43.5	42.5
	缩框型250-1800 (3# + 5#)	555	150(230)	210(310)	265(291)	198(272)	15	59	85	24(21)			160(5)	135	40	65	60	10	43.5	50.0
1500W 2HP	标准型40-100	503	150(230)	210(310)	265(291)	198(272)	15	36	85	24(21)			160(5)	146	40	65	60	10	43.5	52.0
	缩框型110-150	503	150(230)	210(310)	265(291)	198(272)	15	36	85	24(21)	192		160(5)	146	40	65	60	10	43.5	52.0
2200W 3HP	标准型3-40	506	150(230)	210(310)	265(291)	198(272)	15	36	85	24(21)	220	250(/)	160(5)	100	40	65	60	10	43.5	58.0
	缩框型45-80	506	150(230)	210(310)	265(291)	198(272)	15	36	85	24(21)	220		160(5)	100	40	65	60	10	43.5	58.0
3700W 5HP	标准型3-10	548	150(230)	210(310)	265(291)	198(272)	15	36	85	24(21)	220		160(5)	100	40	65	60	10	43.5	62.0
	缩框型15-60	548	150(230)	210(310)	265(291)	198(272)	15	36	85	24(21)	220		160(5)	100	40	65	60	10	43.5	62.0

※Labulation"()"denote vertical box dimension.

单位 Unit:kg.m

功率 Power	类型 Type	速 频 率 比	3	5	10	15	20	25	30	40	45	50	60	70	80	90	100	120	140	160	180	200
750W 1HP	标准型 Standard type	50Hz	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	48.0	54.8	61.7	68.5
		60Hz	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	43.9	50.1	56.4	62.7
	缩框型 Light duty type	50Hz	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
		60Hz	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
1500W 2HP	标准型 Standard type	50Hz	/	/	/	/	/	/	/	30.4	34.3	38.1	45.7	53.3	60.9	68.5	76.1	/	/	/	/	/
		60Hz	/	/	/	/	/	/	/	25.1	28.2	31.3	37.6	43.9	50.1	56.4	62.7	/	/	/	/	/
	缩框型 Light duty type	50Hz	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	82.8	82.8	/	/	/
		60Hz	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	67.7	79.0	/	/	/
2200W 3HP	标准型 Standard type	50Hz	3.70	6.20	12.4	16.7	22.3	27.9	33.5	44.7	/	/	/	/	/	/	/	/	/	/	/	/
		60Hz	3.10	5.10	10.2	13.8	18.4	23.0	27.6	36.8	/	/	/	/	/	/	/	/	/	/	/	/
	缩框型 Light duty type	50Hz	/	/	/	/	/	/	/	44.7	50.2	55.8	67.0	78.1	83.7	/	/	/	/	/	/	/
		60Hz	/	/	/	/	/	/	/	36.8	41.4	46.0	55.2	64.4	73.5	/	/	/	/	/	/	/
3700W 5HP	标准型 Standard type	50Hz	6.30	10.4	20.9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
		60Hz	5.20	8.60	17.2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	缩框型 Light duty type	50Hz	/	/	/	28.2	37.5	46.9	51.8	51.8	51.8	51.8	/	/	/	/	/	/	/	/	/	/
		60Hz	/	/	/	23.2	30.9	38.7	46.4	51.8	51.8	51.8	51.8	/	/	/	/	/	/	/	/	/

单位 Unit:kg.m

[illegible]

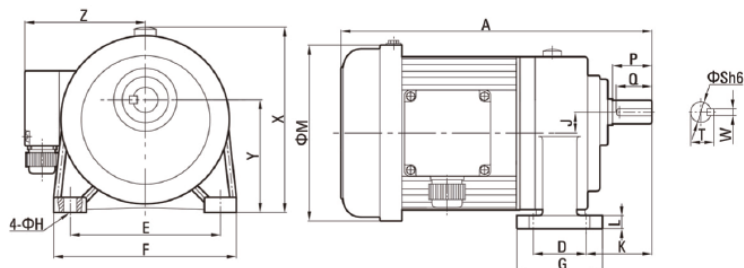
6#齿轮箱出轴直径 $\Phi 50\text{mm}$ 配三相电机技术参数 6#GEARBOX WITH SHAFT DIA $\Phi 50\text{mm}$ WITH 3-PHASE MOTOR PARAMETERS

■ 卧式 Horizontal

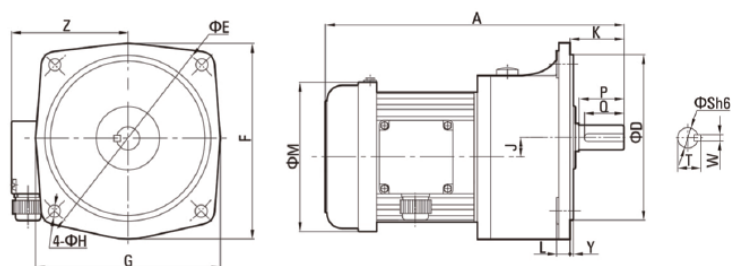
■ 立式 Vertical



■ 卧式 Horizontal



■ 立式 Vertical



■ 尺寸表 Size Table

单位 Unit:mm

功率 Power	减速比Ratio	A	D	E	F	G	H	J	K	L	M	X	Y	Z	S	P	Q	W	T	重量Weight
1500W 2HP	标准型110-180	560	170(280)	265(390)	335(369)	238(341)	18	51	120(92)	31	192	308(/)	200(5)	140	50	80	75	14	54	94.0
2200W 3HP	标准型45-100	580	170(280)	265(390)	335(369)	238(341)	18	51	120(92)	31	220	308(/)	200(5)	160	50	80	75	14	54	97.0
3700W 5HP	标准型15-60	620	170(280)	265(390)	335(369)	238(341)	18	51	120(92)	31	220	308(/)	200(5)	160	50	80	75	14	54	98.0

※表中“()”内为立式箱体尺寸。

※Labulation“()”denote vertical box dimension.

■ 输出轴容许扭矩 Output Torque

单位 Unit:kg.m

功率 Power	类型 Type	速 频 比 率	3	5	10	15	20	25	30	40	45	50	60	70	80	90	100	120	140	*160	*180	*200
1500W 2HP	标准型 Standard type	50Hz	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	91.30	106.6	121.8	137.0	/
		60Hz	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	75.20	87.80	100.3	112.8	/
2200W 3HP	标准型 Standard type	50Hz	/	/	/	/	/	/	/	/	50.20	55.80	67.00	78.10	89.30	100.5	111.6	/	/	/	/	/
		60Hz	/	/	/	/	/	/	/	/	41.40	46.00	55.20	64.40	73.50	82.70	91.90	/	/	/	/	/
3700W 5HP	标准型 Standard type	50Hz	/	/	/	31.30	41.70	52.20	56.30	75.10	84.50	93.90	112.6	/	/	/	/	/	/	/	/	/
		60Hz	/	/	/	25.80	34.40	42.90	46.40	61.80	69.60	77.30	92.80	/	/	/	/	/	/	/	/	/

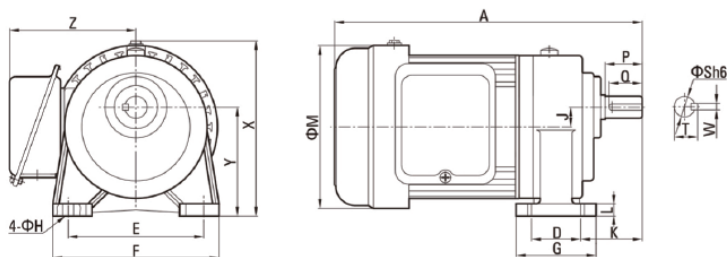
※备注：*为达到此速此时，必须搭配6P马达使用。

※Note: In order to reach this ratio, must be used 6P motor.

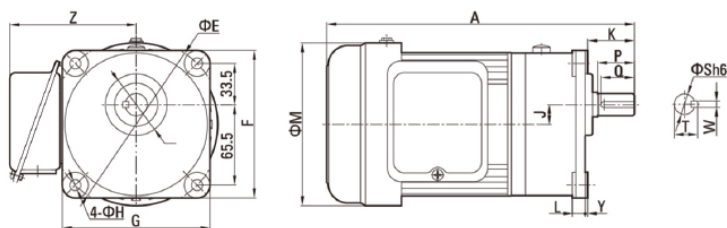
1#齿轮箱出轴直径 $\Phi 18\text{mm}$ 配单相电机技术参数

1#GEARBOX WITH SHAFT DIA $\Phi 18\text{mm}$ WITH 1-PHASE MOTOR PARAMETERS

卧式 Horizontal



立式 Vertical



尺寸表 Size Table

单位 Unit:mm

功率 Power	减速比Ratio	A	D	E	F	G	H	J	K	L	M	X	Y	Z	S	P	Q	W	T	重量Weight
100W 1/8HP	标准型3-50	250	40(50)	110(140)	135(120)	65(120)	9	16	50(40)	10(12)	133	138(/)	88.5(2)	120	18	30	27	5	20.2	5.7
	缩框型60-200	250	40(50)	110(140)	135(120)	65(120)	9	16	50(40)	10(12)	133	138(/)	88.5(2)	120	18	30	27	5	20.2	5.7
200W 1/4HP	标准型3-10	285	40(50)	110(140)	135(120)	65(120)	9	16	50(40)	10(12)	133	138(/)	88.5(2)	120	18	30	27	5	20.2	7.0
	缩框型15-90	285	40(50)	110(140)	135(120)	65(120)	9	16	50(40)	10(12)	133	138(/)	88.5(2)	120	18	30	27	5	20.2	7.0

※表中"()"内为立式箱体尺寸。

※Labulation"(/)"denote vertical box dimension.

输出轴容许扭矩 Output Torque

单位 Unit:kg.m

功率 Power	类型 Type	速 频 率	3	5	10	15	20	25	30	40	45	50	60	70	80	90	100	120	140	160	180	200
100W 1/8HP	标准型 Standard type	50Hz	0.20	0.30	0.60	0.80	1.10	1.40	1.70	2.30	2.50	2.80	/	/	/	/	/	/	/	/	/	/
		60Hz	0.16	0.26	0.52	0.76	1.00	1.20	1.50	1.90	2.20	2.30	/	/	/	/	/	/	/	/	/	/
	缩框型 Light duty type	50Hz	/	/	/	/	/	/	/	/	/	/	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40
		60Hz	/	/	/	/	/	/	/	/	/	/	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40
200W 1/4HP	标准型 Standard type	50Hz	0.30	0.60	1.10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
		60Hz	0.30	0.50	0.90	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	缩框型 Light duty type	50Hz	/	/	/	1.70	2.30	2.80	3.40	3.40	3.40	3.40	3.40	3.40	3.40	/	/	/	/	/	/	/
		60Hz	/	/	/	1.40	1.90	2.30	3.40	3.40	3.40	3.40	3.40	3.40	3.40	/	/	/	/	/	/	/

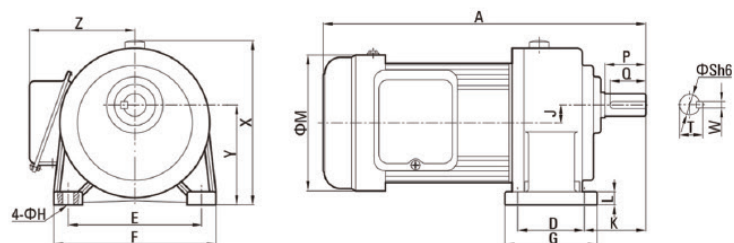
2#齿轮箱出轴直径 $\Phi 22\text{mm}$ 配单相电机技术参数 2#GEARBOX WITH SHAFT DIA $\Phi 22\text{mm}$ WITH 1-PHASE MOTOR PARAMETERS

■ 卧式 Horizontal

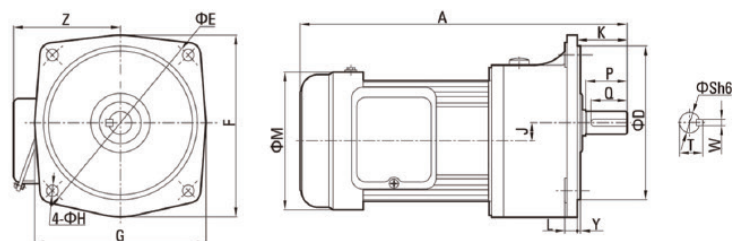
■ 立式 Vertical



■ 卧式 Horizontal



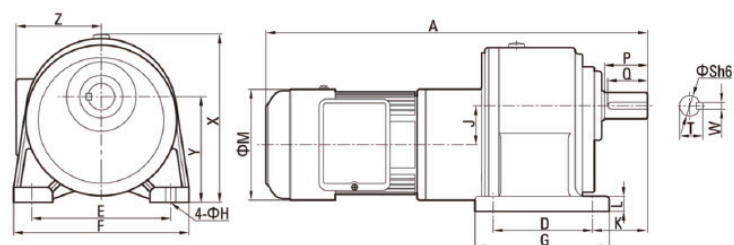
■ 立式 Vertical



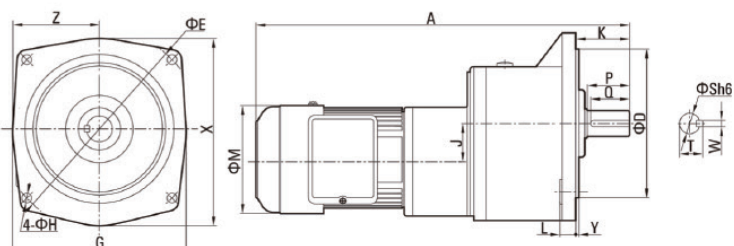
■ 高速比(1#+2#) High Ratio(1#+2#)



■ 卧式 Horizontal



■ 立式 Vertical



※Labulation“()”denote vertical box dimension.

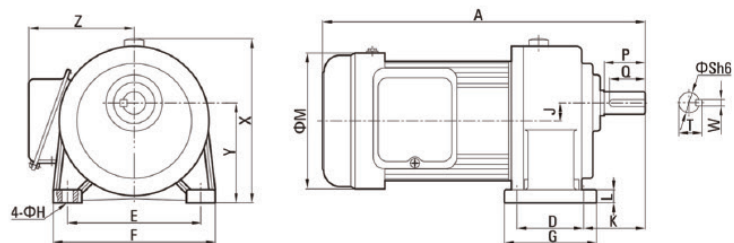
3#齿轮箱出轴直径 $\Phi 28\text{mm}$ 配单相电机技术参数 3#GEARBOX WITH SHAFT DIA $\Phi 28\text{mm}$ WITH 1-PHASE MOTOR PARAMETERS

■ 卧式 Horizontal

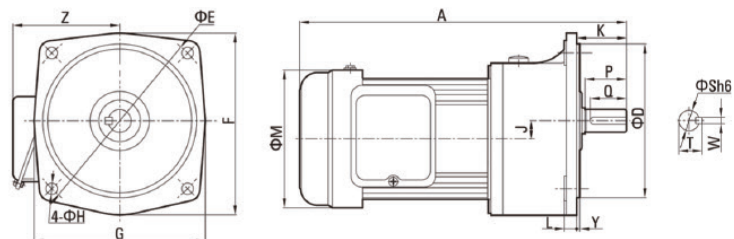
■ 立式 Vertical



■ 卧式 Horizontal



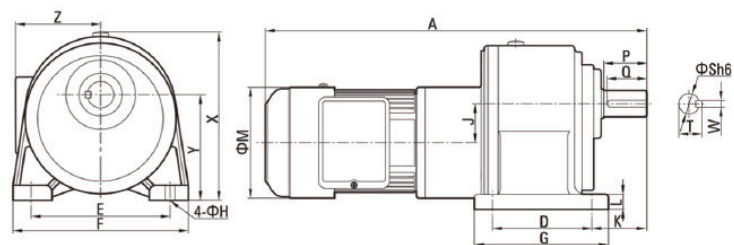
■ 立式 Vertical



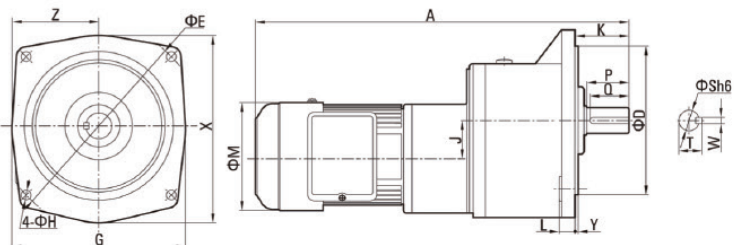
■ 高速比(1#+3#) High Ratio(1#+3#)



■ 卧式 Horizontal



■ 立式 Vertical



单位 Unit:mm

功率 Power	减速比Ratio	A	D	E	F	G	H	J	K	L	M	X	Y	Z	S	P	Q	W	T	重量Weight
100W 1/8HP	标准型250-1800 (1#+3#)	370	90(170)	140(220)	178(205)	120(195)	12	39	68(58)	17(13)	133	178(/)	116(3)	120	28	45	40	7	31.1	14.5
	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
200W 1/4HP	标准型100-200	350	90(170)	140(220)	178(205)	120(195)	12	23	68(58)	17(13)	133	178(/)	116(3)	120	28	45	40	7	31.1	9.00
	缩框型250-1800 (1#+3#)	410	90(170)	140(220)	178(205)	120(195)	12	39	68(58)	17(13)	167	178(/)	116(3)	120	28	45	40	7	31.1	18.0
400W 1/2HP	标准型15-90	390	90(170)	140(220)	178(205)	120(195)	12	23	68(58)	17(13)	167	178(/)	116(3)	135	28	45	40	7	31.1	14.0
	缩框型100-200	390	90(170)	140(220)	178(205)	120(195)	12	23	68(58)	17(13)	167	178(/)	116(3)	135	28	45	40	7	31.1	14.0
750W 1HP	标准型3-25	380	90(170)	140(220)	178(205)	120(195)	12	23	68(58)	17(13)	167	178(/)	116(3)	135	28	45	40	7	31.1	16.0
	缩框型30-120	390	90(170)	140(220)	178(205)	120(195)	12	23	68(58)	17(13)	167	178(/)	116(3)	135	28	45	40	7	31.1	16.0
1500W 2HP	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	缩框型3-30	420	90(170)	140(220)	178(205)	120(195)	12	23	68(58)	17(13)	192	188(/)	116(3)	146	28	45	40	7	31.1	25.0

※Labulation“()”denote vertical box dimension.

单位 Unit:kg.m

[illegible]

单位 Unit:kg.m

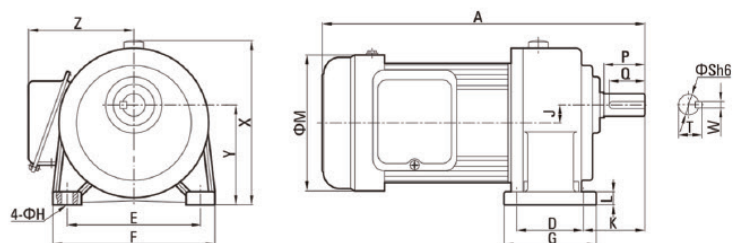
[illegible]

4#齿轮箱出轴直径 $\Phi 32\text{mm}$ 配单相电机技术参数 4#GEARBOX WITH SHAFT DIA $\Phi 32\text{mm}$ WITH 1-PHASE MOTOR PARAMETERS

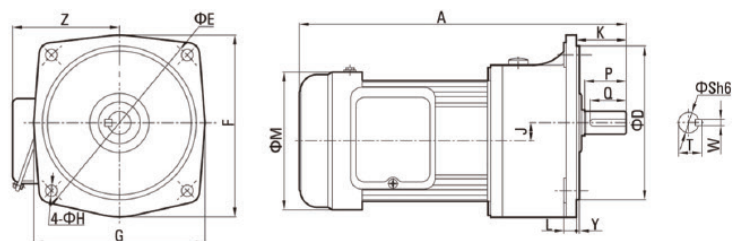
■ 卧式 Horizontal ■ 立式 Vertical



■ 卧式 Horizontal



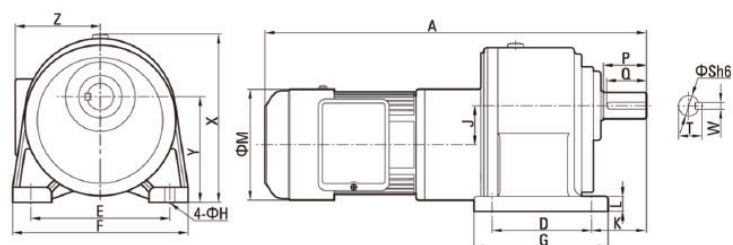
■ 立式 Vertical



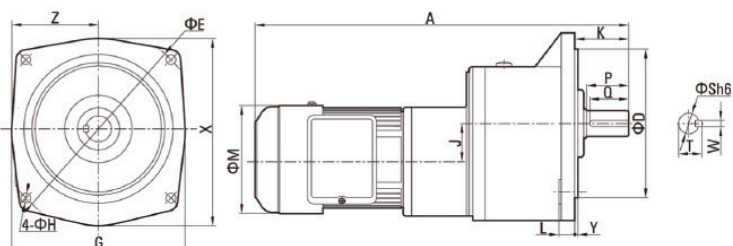
■ 高速比(2#+4#) High Ratio(2#+4#)



■ 卧式 Horizontal



■ 立式 Vertical



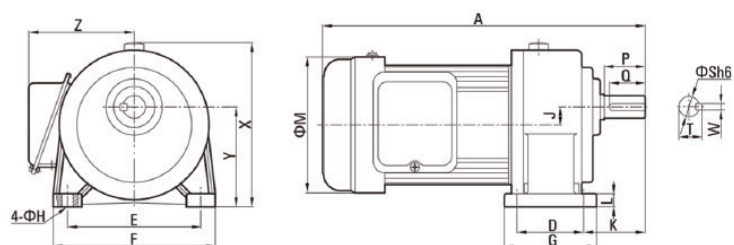
[illegible]

5#齿轮箱出轴直径 $\Phi 40\text{mm}$ 配单相电机技术参数 5#GEARBOX WITH SHAFT DIA $\Phi 40\text{mm}$ WITH 1-PHASE MOTOR PARAMETERS

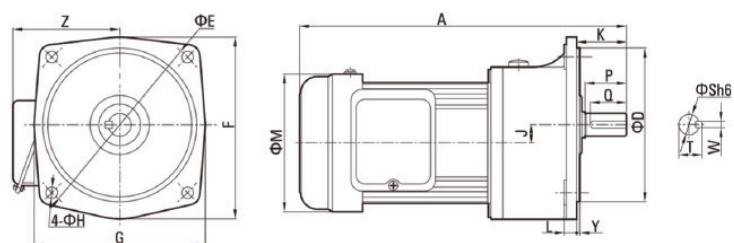
■ 卧式 Horizontal ■ 立式 Vertical



■ 卧式 Horizontal



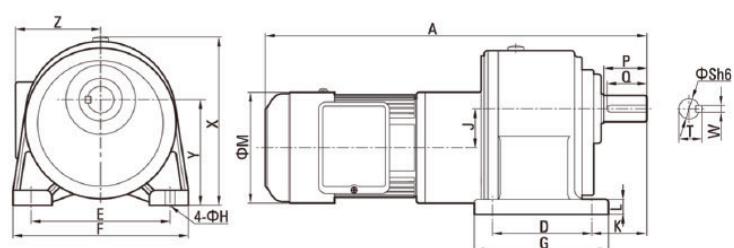
■ 立式 Vertical



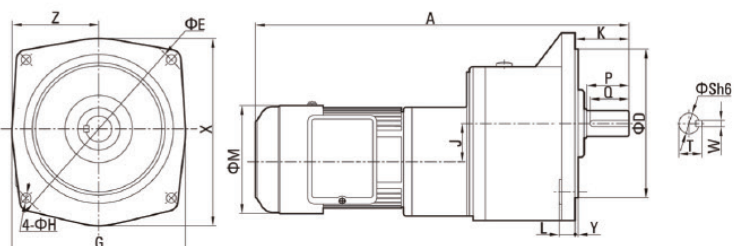
■ 高速比(3#+5#) High Ratio(3#+5#)



■ 卧式 Horizontal



■ 立式 Vertical



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6#齿轮箱出轴直径 $\Phi 50\text{mm}$ 配单相电机技术参数

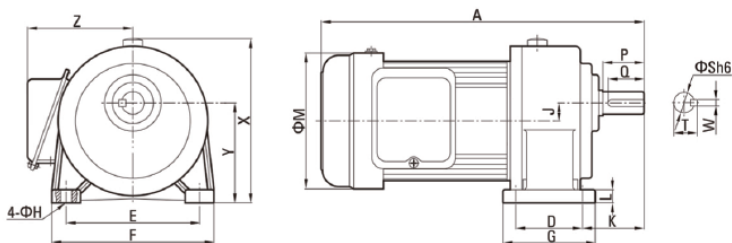
6#GEARBOX WITH SHAFT DIA $\Phi 50\text{mm}$ WITH 1-PHASE MOTOR PARAMETERS

■ 卧式 Horizontal

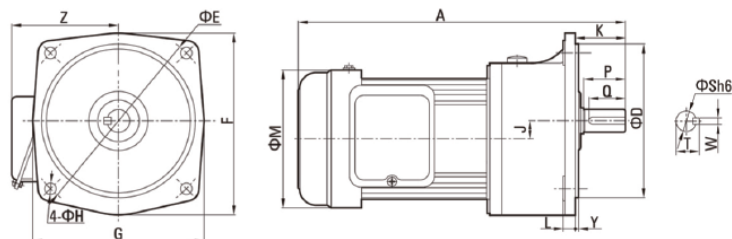
■ 立式 Vertical



■ 卧式 Horizontal



■ 立式 Vertical



■ 尺寸表 Size Table

单位 Unit:mm

功率 Power	减速比Ratio	A	D	E	F	G	H	J	K	L	M	X	Y	Z	S	P	Q	W	T	重量Weight
1500W 2HP	标准型110-180	560	170(280)	265(390)	335(369)	230(341)	18	51	120(92)	31	192	308(/)	200(5)	146	50	80	75	14	54	94.0

※表中“()”内为立式电机尺寸。

※Labulation“()” denote vertical motor dimension.

■ 输出轴容许扭矩 Output Torque

单位 Unit:kg.m

功率 Power	类型 Type	速 频 率	3	5	10	15	20	25	30	40	45	50	60	70	80	90	100	120	140	160	180	200
1500W 2HP	标准型 Standard type	50Hz	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	91.30	106.6	/	/	/
		60Hz	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	75.20	87.80	/	/	/

■ 尺寸表 Size Table

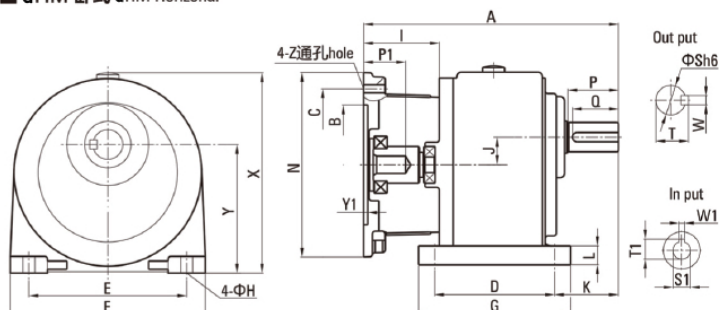
输入法兰齿轮减速机技术参数 FLANGE TYPE REDUCER WITHOR MOTOR PARAMETERS

■ 卧式 Horizontal

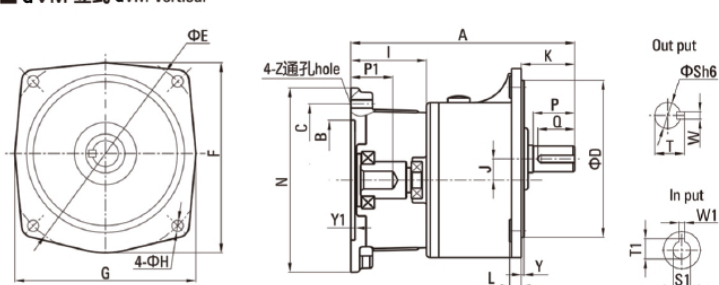
■ 立式 Vertical



■ GHM 卧式 GHM Horizontal



■ GVM 立式 GVM Vertical



输入孔尺寸 Input Bore Size

功率 Power	输入孔 Input Bore	键槽 Keyway			
	S1	W1	T1	P1	
200W	Φ11	4	12.8	32.5	
400W	Φ14	5	16.3	32.5	
750W	Φ19	6	21.8	43.0	
1500W	Φ24	8	27.3	53.0	
2200W	Φ28	8	31.3	63.0	
3700W	Φ28	8	31.3	63.0	

输出轴尺寸 Output Shaft Size

型号 Size	输出轴 Output Shaft		键槽 Keyway			键 Key
	Sh6	P	W	T	Q	SPEC
1#	Φ18	30	5	20.2	27	5*5*27
2#	Φ22	40	7	25.0	35	7*7*35
3#	Φ28	45	7	31.3	40	7*7*40
4#	Φ32	55	10	35.5	50	10*8*50
5#	Φ40	65	10	43.5	60	10*8*60
6#	Φ50	80	14	54.0	75	14*9*75

输入法兰齿轮减速机技术参数
FLANGE TYPE REDUCER WITHOR MOTOR PARAMETERS

卧式输入法兰 Horizontal Type

单位 Unit:mm

功率 Power	减速比Ratio	型号	A	B	C	D	E	F	G	H	I	J	K	L	N	X	Y	Y1	Z
200W 1/4HP	3-10	1#	160	110	130	40	110	135	65	9	55	16.0	50	10	160	138	88.50	4.5	M8
	15-90	2#	195	110	130	65	130	158	90	12	55	17.5	60	13	160	152	97.50	4.5	M8
	100-200	3#	225	110	130	90	140	178	120	12	55	23.0	68	17	160	178	116.0	4.5	M8
400W 1/4HP	3-10	2#	195	110	130	65	130	158	90	12	55	17.5	60	13	160	152	97.50	4.5	M8
	15-90	3#	225	110	130	90	140	178	120	12	55	23.0	68	17	160	178	116.0	4.5	M8
	100-200	4#	255	110	130	130	170	210	165	13	55	30.0	70	18	160	216	138.5	4.5	M8
750W 1/4HP	3-25	3#	250	130	165	90	140	178	120	12	82	23.0	68	17	200	178	116.0	4.5	M10
	3-120	4#	285	130	165	130	170	210	165	13	82	30.0	70	18	200	216	138.5	4.5	M10
	125-200	5#	330	130	165	150	210	265	203	15	82	36.0	83	20	200	250	160.0	4.5	M10
1500W 2HP	3-30	4#	285	130	165	130	170	210	165	13	82	30.0	70	18	200	216	138.5	4.5	M10
	40-100	5#	330	130	165	150	210	265	203	15	82	36.0	83	20	200	250	160.0	4.5	M10
2200W 3HP	3-40	5#	355	180	215	150	210	265	203	15	105	36.0	83	20	250	250	160.0	5.0	M12
	45-100	6#	410	180	215	170	265	335	238	18	105	51.0	97	25	250	308	200.0	5.0	M12
3700W 5HP	3-10	5#	355	180	215	150	210	265	203	15	105	36.0	83	20	250	250	160.0	5.0	M12
	15-60	6#	410	180	215	170	265	335	235	18	105	51.0	97	25	250	308	200.0	5.0	M12

立式输入法兰 Vertical Type

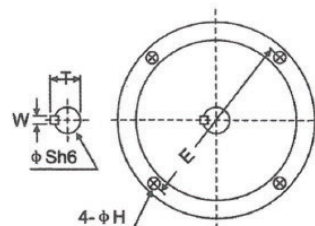
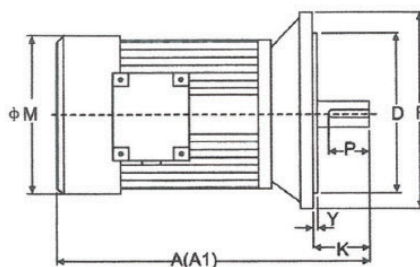
单位 Unit:mm

功率 Power	减速比Ratio	型号	A	B	C	D	E	F	G	H	I	J	K	L	N	Y	Y1	Z
200W 1/4HP	3-10	*1#	160	110	130	50	140	120	120	9	55	16.0	40.0	12	160	6	4.5	M8
	15-90	2#	195	110	130	148	185	175	165	11	55	17.5	48.0	12	160	3	4.5	M8
	100-200	3#	225	110	130	170	220	205	195	12	55	23.0	58.0	13	160	3	4.5	M8
400W 1/4HP	3-10	2#	195	110	130	148	185	175	165	11	55	17.5	48.0	12	160	3	4.5	M8
	15-90	3#	225	110	130	170	220	205	195	12	55	23.0	58.0	13	160	3	4.5	M8
	100-200	4#	255	110	130	185	255	248	225	15	55	30.0	66.5	16	160	3	4.5	M8
750W 1/4HP	3-25	3#	250	130	165	170	220	205	195	12	82	23.0	58.0	13	200	3	4.5	M10
	3-120	4#	285	130	165	185	255	248	225	15	82	30.0	66.5	16	200	3	4.5	M10
	125-200	5#	330	130	165	230	310	291	255	15	82	36.0	85.0	21	200	5	4.5	M10
1500W 2HP	3-30	4#	285	130	165	185	255	248	225	15	82	30.0	66.5	16	200	3	4.5	M10
	40-100	5#	330	130	165	230	310	291	272	15	82	36.0	83.0	21	200	5	4.5	M10
2200W 3HP	3-40	5#	355	180	215	230	310	291	272	15	105	36.0	83.0	21	250	5	5.0	M14
	45-100	6#	410	180	215	280	390	369	341	18	105	51.0	92.0	25	250	5	5.0	M14
3700W 5HP	3-10	5#	355	180	215	230	310	291	272	15	105	36.0	85.0	21	250	5	5.0	M14
	15-60	6#	410	180	215	280	390	369	341	18	105	51.0	92.0	25	250	5	5.0	M14

※备注 : 1.配合IEC电机为主
2.*属于B型输出法
※Note: 1.Available for IEC motor.
2.Belong to type output flange.

尺寸表 DIMENSIONS

25) GV..S 立式标准IEC三相铝壳(刹车)马达 GV..S IEC VERTICAL 3-PHASE ALUMINUM (BRAKE) MOTOR



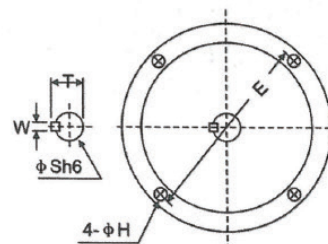
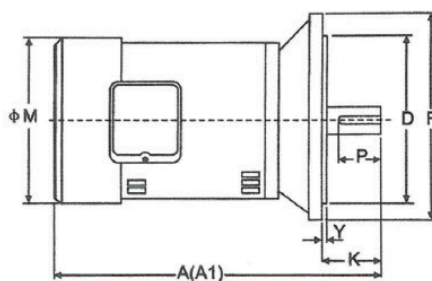
DIMENSIONS (M/M)

适用机型: GV..S, GV..SB, GV..ST, GV..STB

输出马力 CAPACITY	框号 FRAME	A	A1	D	E	F	H	K	M	P	S	T	W	Y	重量 WEIGHT
4P															
1/8HP	56	210	210	110	130	160	10	23	133	10	11	12.5	4	3.5	6.8
1/4HP	63	240	240	110	130	160	10	23	133	10	11	12.5	4	3.5	8.1
1/2HP	71	275	275	110	130	160	12	30	143	14	14	16	5	3.5	10.6
1HP	80	285	285	130	165	200	12	40	167	25	19	21.5	6	3.5	13.0
2HP	90L	370	370	130	165	200	12	50	192	32	24	27	8	3.5	21.5
3HP	100L	410	410	180	215	250	14.5	60	220	40	28	31	8	4	28.0
5HP	112L	450	450	180	215	250	14.5	60	220	40	28	31	8	4	34.5
规格															
1/8HP	--	210	210	95	115	140	10	23	133	10	11	12.5	4	3.5	4.4
1/4HP	63	240	240	95	115	140	10	23	133	10	11	12.5	4	3.5	5.9

A1: 三相铝框马达附刹车器 WITH 3-PHASE ALUMINUM BRAKE MOTOR

26) GV..AT 立式标准IECD单相铝壳(刹车)马达 GV..AT IECD VERTICAL 3-PHASE STEEL PLATE (BRAKE) MOTOR



DIMENSIONS (M/M)

适用机型: GV..AT, GV..ATB, GV..A, GV..AB

输出马力 CAPACITY	框号 FRAME	A	A1	D	E	F	H	K	M	P	S	T	W	X	Y	重量 WEIGHT
4P																
1/8HP	--	204	--	110	130	160	10	23	127	10	11	12.5	4	--	3.5	7.0
1/4HP	63	238	--	110	130	160	10	23	127	10	11	12.5	4	--	3.5	8.2
1/2HP	71	254	284	110	130	160	12	30	167	14	14	16	5	42	3.5	9.1
1HP	80	281	311	130	165	200	14.5	40	167	25	19	21.5	6	48	3.5	12.5

安全注意事项

SAFETY CAUTIONS

总体 General	请不要在齿轮箱及电机铭牌或产品目录的规格以外使用，以免触电，受伤及损坏装置等。 Please don't use motor out of the range which is clarified in of nameplate of gear box and motor and the specification of product catalogue, avoiding getting an electric shock, hurting or damaging the device. 请不要把手指或物品进入齿轮或电机开口部分，以免触电、受伤、发生火灾及损坏装置等。 Please do not put your fingers into the opening part of gear of motor, in order to prevent getting an electric shock, hurting catching a fire or damaging device etc. 请不要使用带伤的齿轮箱或电机，以免有可能受伤，发生火灾等。 Please do not use the injured gear head or motor, in order to prevent hurting, catching a fire etc. 请不要拆下铭牌。 Please do not put off the nameplate. 若客户对产品私自进行改造的，不属于保修范围，本公司不承担任何责任。 If the products are reformed by the customers personally, it no belongs to the guarantee scope, and our company doesn't undertake any responsibility.
搬动/Moving	搬动时，若发生脱落或倾倒，是很危险的，请充分注意。 When you move it, if it shed off or tit to one side, it is very dangerous, please pay more attention.
安装 Assembly	请绝对不要在齿轮箱和电机周围放置可燃物，以免发生火灾。 Please never put the flammable thing near and motor, for fear of a fire. 请不要在电机周围放置物品，影响电机通风、冷却，甚至因异常多热而烫伤或发生火灾。 Please do not put the things around motor, otherwise it can effect ventilation and cooling, even burning or catching a fire because of too hot. 裸手请不要触碰齿轮及电机轴端部、齿轮部的键槽，以免受伤。 Please do not touch the gear, the motor shaft and the key slot of the gear with naked hand, or you may be hurt. 在食品机械等可能发生漏油的装置中，请在安装部分另加一个能盛油的油杯，防止万一漏油对产品有不良的影响。 The device may creating the smoke, such as food machine, please add an oil cup assembly part, to prevent leaking oil which may have a bad effect on the products.
对主机械的连接 Assemble to the main machine	在旋转部分，请设安全罩等，防止受伤。 Please set a safe cover above the revolving part, to prevent being hurt. 在与对方机械连接前，请确认旋转方向。若旋转方向不正确，有可能受伤或破坏装置。 Before linking to the other machine, please confirm the revolving direction is not right, it may hurt the gear motor or destroy the device.
配线/Wiring	在测试绝缘电阻时，请不要接触端子，以免触电危险。 Please don't get in touch with terminal, when you measure insure insulated resistance, preventing danger of getting an electric shock.
运转 Operation	请按照接线图或使用说明书实施与电源的连接，以免触电或发生火灾。（无端子箱的，请切实加强连接部分的绝缘） Please link with the electric source according to wire diagram and usage manual, in order to prevent getting an electric shock or catching a fire. (no terminal box, please strengthen the insulation of the connection part surely) 对电源电缆和电机引线，请不要过分弯曲、拉伸、夹紧，以免触电危险。 Referring to the electrical source cable and the motor wire, please do not bend, stretch, and clip tightly excessively, in order to prevent getting an electric shock. 接地端子应牢固接地，以免触电危险。务必使用符合铭牌要求的电源，以免烧毁电机、发生火灾。 The terminal box connecting to the ground must be firm, in order to prevent getting an electric shock. Please adopt the electrical source according to the nameplate, to avoid burning the motor and catching a fire.
日常检查保养 The daily check and maintain	在运转中，绝对不要接近或接触旋转物体（轴等）。有卷入受伤时，请马上切断电源开关，及时处理。 When operating, do not get close to or touch the revolving parts (shaft). If something or somebody engulfs or hurts, Please turn off the electrical power switch right and handle at once. 停电时，请务必切断电源开关，防止来电后伤人或破坏装置。 Please turn off the electrical source switch when electricity stops, in order to prevent hurting the person and damaging the device. 请注意：带有热保护的电机，当电机温度异常时会自动切断电源，当电机温度下降到一定值时，电机会自动恢复工作。 （注：电机在没有烧坏的情况下，会自动复原） Please note, motor with the thermal protector, when temperature of the motor is unusual, it will turn off the electrical source automatically, when the temperature of the motor fall down to a fixed data, the motor can work automatically. (Note: when the motor is not burned-not, the motor can work automatically) 在平常时，保持电机在正常的工作环境工作运转。（特殊型号除外） In daily, you should keep the motor operating in the normal work environment. (Except the special model) 检查时，请绝对不要接触旋转物体（轴等）。有可能被卷入、受伤。 While checking, please do not get close to or touch the revolving parts (shaft). Something or somebody may engulf of hurt.
接受货物时检查 Receiving confirm	请确认现货是否和订货一样。选择错误的产品，有可能导致电机受损或破坏装置等。 Please confirm if it is the right one with the order when receiving. Choosing wrong probably leads to damage of motor of damage the device and etc.

故障排除 TROUBLE SHOOTING

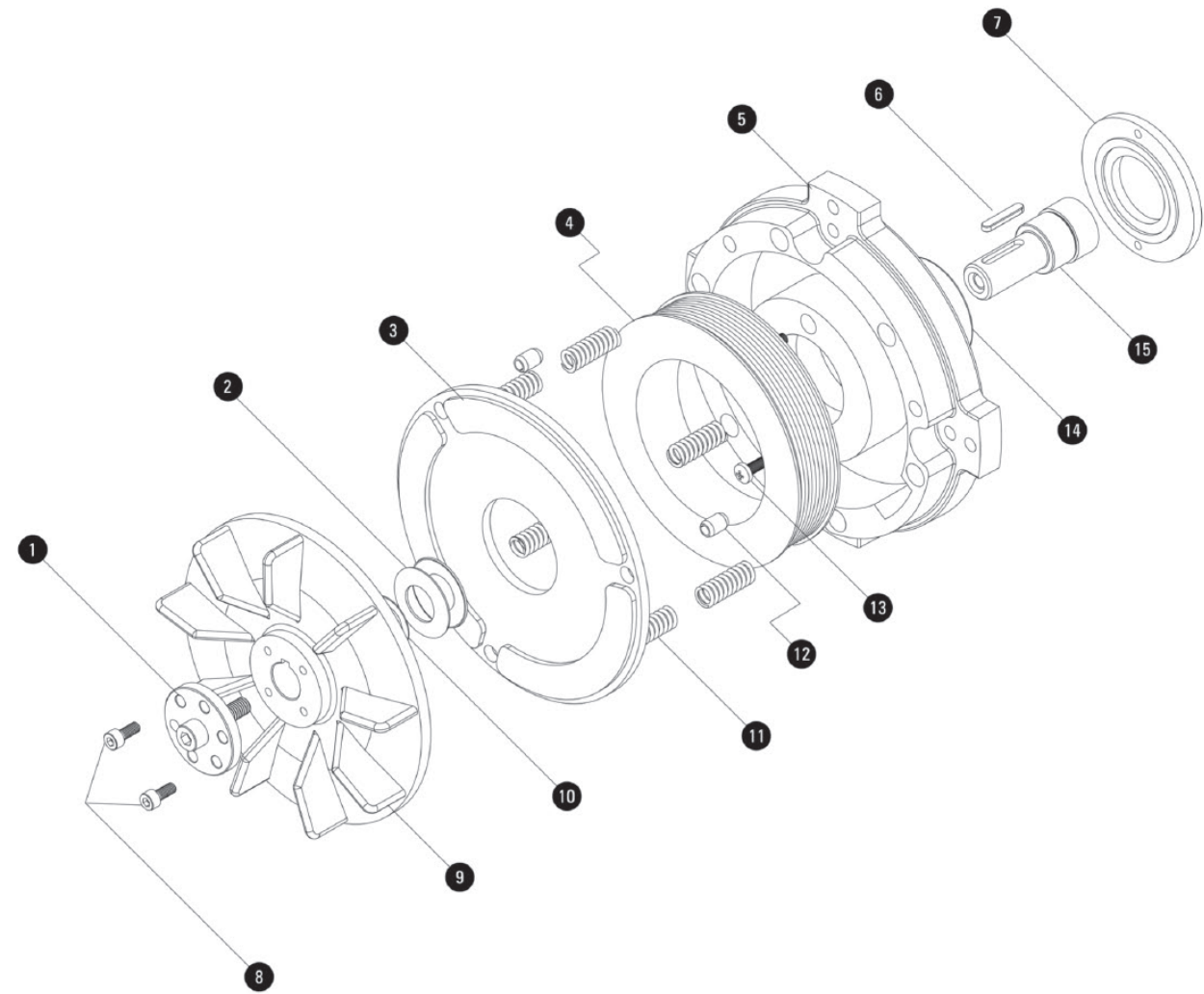
■ 刹车故障排除 Trouble Remove Of Brake

不良故障 Trouble	原因分析 Possible Analysis	解决方式 Solution Method
刹车器不动作 No action of brake	未供电源 No power supply	供应电源 Supply power
	来令片磨损 Brake disc worn out	换新来令片 Use new brake disc
	间隙过大 Large backlash	调整间隙 Adjust backlash
	电源压力不足 Low voltage	提供正确电压 Use correct voltage
	电源供应器损坏 Power supply damage	电源供应器换新 Use new power
	异物入侵 Dirty inside	清洁零件 Clean parts
	使用电压错误 Wrong voltage	使用正确电压 Correct voltage
	接线脱落 Connect wire lost	重新接线 Re-connect wire
	来令片卡死 Brake disc locked	清洁零件 Clean parts
	刹车圈烧坏 Brake coil burned-out	刹车线圈换新 Use new brake disc
刹车移动 Brake moving	来令片磨损 Brake disc worn out	换新来令片 Supply power
	间隙过大 Large backlash	调整间隙 Adjust backlash
	来令片沾染油渍 Surface oil	清洁来令片 Clean brake disc
	负载过大 Over loading	重新设计 Re-design brake unit
	刹车表面歪斜 Disc surface twist	更换零件 Use new parts
	下降衡量过大 Huge momentum	机构重新设计 System re-design
	选用机型错误 Select wrong type	选用正确机型 Re-select unit
	环境温度过高 No power supply	检查环境温度 Adjust temperature

■ 减速机器故障排除 Trouble Shouting For Gearmotor

	不良故障 Trouble	原因分析 Possible Analysis	解决方式 Solution Method
噪音 Noise	齿轮敲击声 Knocking	齿轮表面受伤 Hurt gear surface	更换受伤齿轮组 Replace gear set
	连续性杂音 Continually	轴承损坏 Bad bearing	更换损坏轴承 Replace bearing
	周期性杂音 Periodically	异物附着齿面 Particle inside	检测齿轮齿面 Check gear
	嘶嘶声 Neight	油量不足 Lack of lubricant	添加润滑油 Fill with lub-oil
	继续性杂音 Intermittently	润滑油不洁 Dirty lubricant	更换新润滑油 Replace lubricant
振动 Vibration	固定底座振动 Mounting base vibration	安装平面歪斜 Bad surface mounting	重新调整固定底座 Re-adjust mounting base
	出力轴振动 Output shaft vibration	轴承损坏 Bad bearing	更换损坏轴承 Replace bearing
	内部齿轮零件振动 Inside gear parts vibration	齿轮受损 Gear wounded	更换受损齿轮 Replace wounded gear
	箱体振动 Housing vibration	齿轮组安装不良 Bad gear assembly	重新调整齿轮组 Re-adjust gear set
漏油 Leakage	油封漏油 Oil seal leakage	油封硬化 Oil seal too harden	更换损坏油封 Replace wounded oil seal
	箱体漏油 Housing leakage	箱体有砂孔 Box had sand hole	更换砂孔箱体 Replace sand hole box
	结合面漏油 Connect surface leakage	O-型环损坏 O-ring broken	更换损坏O-型环 Replace wounded O-ring
过热 Over heating	油封 Bad oil seal	油封太紧 Oil seal too tight	更换太紧油封 Replace tighten oil seal
	箱体过热 Housing too heat	过负载 Over load runing	重新计算负载马力 Re-calculate loading
	缺润滑油 Less lubricant	油量不足 Lack of lubricant	加入润滑油 Fill with lubricant
	马达过热 Motor too heat	马达过载 Overload motor	更换新马达 Replace new motor

刹车零件分解图
BRAKE UNIT SECTION DIAGRAM



■ 明细表 Parts List

序号 Item	名称 Name	序号 Item	名称 Name
1	调整螺栓 Gap adjustment bolt	9	散热风叶 Fan
2	蝶型弹簧 Disc spring	10	调整垫圈 Adjustment washer
3	磨擦来令片 Friction brake disc	11	压力弹簧 Pressure spring
4	激磁线圈 Brake coil	12	定位销 Fixed pin
5	刹车座 Brake housing	13	固定螺丝 M fixed screw
6	平键 Key	14	轴承 Bearing
7	轴承固定盖 Fixed bearing cover	15	马达轴 Motor
8	固定螺丝 Fixed screw		

连接系数表 CONNECTION FACTOR

■ 连结系数表 Connection Factor

配件名称 Parts Name	连结系数 Connection Factor
链轮 Sproket	1.00
齿轮 Gear	1.25
三角皮带 Belt	1.50
平皮带 Flat belt	2.50

■ 荷重系数表 Service Factor

减速负载等级 Load Grade	每日运转时间 (HRS) Daily Operating Hours			
	1-2	3-8	9-15	16-24
均一负载 Uniform load	0.80	0.90	1.20	1.30
中级冲击负载 Medium impact load	1.00	1.20	1.30	1.50
重级冲击负载 Heavy impact load	1.20	1.50	1.75	2.00

■ 基本传动公式 Basic Formular

名称 Name	公式 Basic Formular
减速比 (i)	$i = N/1800$
回转速度 (rpm)	$N = V/\pi D$
输出扭矩 (kg.m)	$T = W \times R \times K$
输入马力 (公制)	$kW1 = N \times T / 974$
输入马力 (英制)	$HP1 = N \times T / 716$
输入马力 (公制)	$kW2 = kW1 \times F/E$
输入马力 (英制)	$HP2 = HP1 \times F/E$

■ 符号说明 Code Details

符号 Code	说明 Details	符号 Code	说明 Details
V	速度 Speed (m/min)	E	效率 Efficiency (%)
I	减速比 Ratio	1 inch	= 2.54 cm
T	输出比例 (kg.m) Output torque	1 foot	= 12 inch
K	连结系数 Connecting factor	1 kW	= 1000 W
F	荷重系数 Service factor	1 kW	= 1.34 hp
W	荷重 (kg) Load	1 kg.m	= 7.233 ft-lb
N	出力轴转速 (rpm)	1 kg.m	= 86.8 in-lb
D	滚轮直径 (mm) Roller diameter	1 kg	= 2.2 lb
R	滚轮直径半径 (mm) Roller radius	1 lb	= 0.4536 kg
kW1(HP1)	输入功率 Input power	1 cm	= 10 mm
kW2(HP2)	输出功率 Output power	1 cm	= 0.3937 inch

标准实际速比 NORMAL RATIO & ACTUAL RATIO

■ 标准型 Normal Duty Type

速比 Ratio	低段实际减速比 Actual Ratio						
	100W	200W	400W	750W	1500W	2200W	3700W
3	3.0800	3.0800	2.9600	2.9300	3.1400	2.990	2.990
5	4.8800	4.8800	5.0500	5.0300	5.2000	5.080	5.080
10	9.9900	9.9900	10.290	9.9700	10.180	10.09	10.09
15	14.950	14.740	15.010	15.020	15.350	15.35	14.69
20	19.900	20.370	20.680	19.860	20.730	20.17	19.83
25	24.440	25.250	25.450	24.700	25.800	25.30	25.09
30	30.800	32.090	30.120	30.180	30.100	29.6	31.50
40	40.330	40.190	39.330	40.240	39.620	38.15	39.24
50	50.600	51.060	50.210	50.300	51.360	49.19	49.26
60	61.830	62.190	59.430	60.290	59.730	59.88	60.67
70	72.290	72.180	69.590	69.740	69.330	70.70	
80	78.560	79.840	81.220	80.340	79.180	78.33	
90	92.670	91.040	92.500	90.170	88.530	87.35	
100	102.97	98.060	99.380	98.150	99.760	98.18	
110	112.87	109.43	111.95	110.00			
120	120.93	119.00	119.10	117.78	122.56		
130	132.79	132.21	129.63	132.81			
140	143.86	142.92	138.89	139.67	137.87		
150	149.39	146.63	149.51	151.93			
160	161.84	161.15	161.97	158.93	***165.02		
170	165.57	173.37	168.52	170.76			
180	182.75	176.03	183.63	179.82	***183.82		
200	201.02	193.37	201.99	198.89	***206.90		

※***为达到此速比时，必须搭配6P马达使用

※***It need use 6 pole motor to reach certain ratio

速比 Ratio	高段实际减速比 Actual Ratio						
	100W	200W	400W	750W	1500W	2200W	3700W
300	300.010	317.750	311.610				
400	413.340	429.110	409.450				
450	453.720						
500	508.680	534.060	513.590				
600	602.020	624.730	600.880				
700	704.760		679.850				
800	786.110	832.970	774.450				
900	920.420	927.570	938.270				
1000	1003.57	1041.21	1042.61				
1100	1105.31						
1200	1187.86	1248.00	1212.52				
1300	1284.40						
1400	1390.93	1443.62	1407.40				
1500	1516.05						
1600	1623.38	1663.04	1607.35				
1700	1703.73						
1800	1848.84	1866.52	1797.16				

各国电压表 COUNTRIES VOLTAGE

国名 Country	频率 Frequency	单相 1-Phase	三相 3-Phase	国名 Country	频率 Frequency	单相 1-Phase	三相 3-Phase
中国 China	50	220	220/380	日本 Japan	50/60	100/200	200
澳洲 Australia	50	240	240/415	科威特 Kuwait	50	100/200	200
奥地利 Austria	50	220	220/380	黎巴嫩 Lebanon	50	110/220	220/380
孟加拉 Bangladesh	50	230	230/400	马来西亚 Malaysia	50	115/240	240/415 400/440
比利时 Belgium	50	127/220	220/380	荷兰 Netherlands	50	110/220	220/230
巴西 Brazil	50 60	110/220 127	220/380	新西兰 New Zealand	50	230	230/400
缅甸 Burma	50	230	230/440	巴勒斯坦 Pakistan	50	230	220/380 230/400
高棉 Cambodia	50	120	220/380	沙乌地阿拉伯 Saudi-arabia	50 60	127/220	110/220 127
智利 Chile	50	220	220/380	叙利亚 Syris	50	115/200	220/380
阿根廷 Argentina	50	220	220/380	新加坡 Singapore	50	115/230	230/240
捷克 Czechoslovakia	50	120/220	220/380	南非 South-africa	50	220/230	110/220 127
丹麦 Denmark	50	220	220/380	西班牙 Spain	50	127/220	220/380
埃及 Egypt	50	220	220/380	瑞士 Switzerland	50	220	220/380
芬兰 Finland	50	220	220/380	泰国 Thailand	50	110/220	220/380
法国 France	50	115/127/220	220/380	土耳其 Turkey	50	127/220/230	220/380
德国 Germany	50	110/220	220/380	英国 U.K.	50	240	240/415
希腊 Greece	50	220	220/380	越南 Viet-num	50	127/220	220/380
香港 Hongkong	50	110/200/230	220/380	加拿大 Canada	60	110/120	220/240/480
匈牙利 Hungary	50	220	220/380	哥伦比亚 Colombia	60	110/220	220/380
冰岛 Iceland	50	220	220/380	古巴 Cuba	60	115/120	240
印度 India	50	230	220/380 230/400	厄瓜多尔 Ecuador	60	120/127	208/220
印尼 Indonesia	50	127/220	220/380	韩国 Korea	60	100/200	200
伊拉克 Iraq	50	220	220/380	秘鲁 Peru	60	110/220	200
以色列 Israel	50	230	230/400	菲律宾 Philippines	60	110/220	220/440
意大利 Italy	50	127/220	220/380	美国 U.S.A.	60	120/240	240/480

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