



DESCRIPCION DE MOTORES Y MOTORREDUCTORES 110 VOLTIOS DESDE 6 HASTA 140 VATIOS

Este archivo es una guía sobre los motores y motorreductores que importamos; todos ellos de excelente calidad; montados sobre rodamientos y en los tamaños superiores a 25 vatios con auto-refrigeración ventilador incorporado.

Los motores de 4 polos en Colombia, giran a aproximadamente 1800 rpm, tomando el radio de reducción de las tablas de cada potencia usted puede determinar la velocidad de salida del reductor.

Dividiendo 1800 rpm por el "reduction ratio" encontrara la velocidad de salida del reductor y en la tabla podrá observar el valor del torque que ofrece el motorreductor para cada velocidad de salida.

感应电机的一般规格 GENERAL SPECIFICATION OF INDUCTION MOTOR

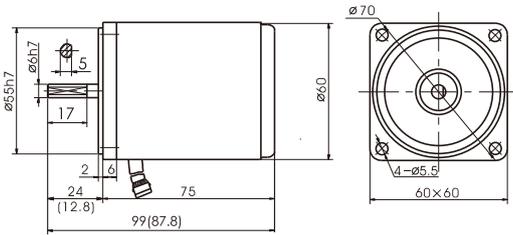
项目Items	内容contents
绝缘电阻 Insulation resistance	在常温、常湿度下，运转电机后，以DC 500V的绝缘电阻来测量电机的金属线圈和电机外壳之间的绝缘电阻时，不超过100兆欧。 In the circumstance of normal temperature and humidity, the resistance can be up to 100MΩ, measured by DC 500V insulation resistance measurer between the motor wiring and motor shell while the motor is working.
绝缘电压 Insulation voltage	在常温、常湿度下，运转电机后，在电机的金属线圈和电机之间，以1500V 50/60Hz输于1分钟时没有任何问题。 In the circumstance of normal temperature and humidity, there will be no problem supplying the power of 1500V 50/60Hz between the metal wiring and motor shell in 1minute while the motor is working.
温度上升 Temperature rise	运转电机后，用电阻法来测量时，线圈绕组温度的上升数值在80℃以下。(带风扇的绕组温度的上升数值在60℃以下) The temperature rise of wiring should be lower than 80 °C measured by resistance method when the motor is working. (the temperature of wiring with fan should be lower than 60°C)
绝缘等级 Insulation class	B级(130 °C) (Class B (130 °C))
使用温度 Using temperature	-10℃~+40℃ (三相: -10℃~+50℃)(无冰冻) -10 °C~+40 °C (Three phase -10 °C~+50 °C)(No freeze)
使用湿度 Using humidity	85%以下(没有结露的场所) ≤85% (Place without dew)

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□，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；
- 表格中的■(灰底部分)表示旋转方向与电机转向一致，其它则与电机转向相反；●输出轴转速不含电机转差率。根据负载大小不同，转速要比上述数值低2~20%。
- 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 indicates the same rotating direction of the motor while the rotating direction of others is opposite. ●The conditions of the testing data is under synchronous speed.
- The output shaft speed excludes the motor speed slip. The actual speed will be 2-20% lower than the above value depending upon the load.



感应电机 INDUCTION MOTOR 6W



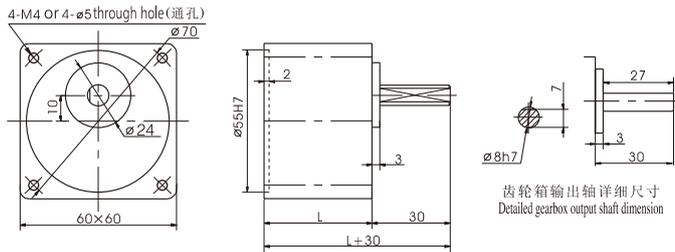
其中()数字系小齿轮轴电机的数值。The value in the () is the value of small gear shaft motor.

电机特性表 LIST OF MOTOR CHARACTERISTICS

电机型号 Model of Motor	出力 Output	电压 Voltage	频率 Frequency	极数 Poles	额定时间 Duty	额定Rated			起动转矩 Starting Torque		电容量/耐压 Capacitor/Ve		
						转速Speed	电流Current	力矩Torque		N.m		kgf.cm	
						r/min	A	N.m	kgf.cm				
光电机 Motor	带齿轴电机 Motor with gear shaft	W	V	Hz	P								
2IK6A-A	2IK6GN-A	6	1ph110	50	4	连续 CONT	1250	0.20	0.05	0.45	0.06	0.55	3.0/250
2IK6A-C	2IK6GN-C	6	1ph220	50	4	连续 CONT	1250	0.10	0.05	0.45	0.07	0.70	0.8/500
2IK6A-D		6	1ph220	50	2	连续 CONT	2600	0.11	0.02	0.21	0.04	0.40	0.8/500

●使用电压不同，电容量也不相同。故应与使用电压相对应，正确使用。●不能正确使用是造成故障的主要原因。订货时，在确认使用电压后，选择正确的型号进行订货。
 ●The capacitor capacitance will be different under different voltage. A correct capacitor capacitance is required to match the applied voltage. ●Wrong capacitor capacitance is the cause of trouble. You must confirm a correct voltage and select a correct model when your purchase order is placed.

齿轮箱外形尺寸 OVERALL DIMENSION OF GEARBOX



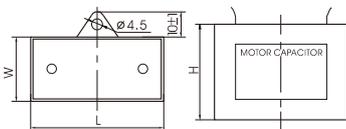
	速比Reduction Ratio	尺寸L(mm)	质量(kg)
齿轮箱 Gearbox	2GN3K-GN18K	32	0.24
	2GN20K-GN50K	42	0.30
	2GN60K-GN200K		0.33
电机Motor			0.82

齿轮箱允许力矩 ALLOWABLE TORQUE ON GEARBOX

齿轮箱型式Model of Gearbox: 2GN□K

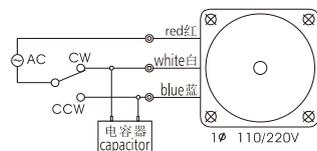
频率Frequency	减速比Reduction Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	
50Hz	输出轴转速 Output Shaft Speed	r/min	500	417	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12	10
	允许力矩 Allowable Torque	N.m	0.13	0.15	0.21	0.26	0.31	0.38	0.42	0.53	0.63	0.76	0.76	0.95	1.14	1.36	1.52	1.72	2.06	2.57	2.94	2.94	2.94	
60Hz	输出轴转速 Output Shaft Speed	r/min	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12
	允许力矩 Allowable Torque	N.m	0.10	0.13	0.17	0.21	0.26	0.30	0.34	0.43	0.51	0.62	0.62	0.76	0.92	1.11	1.24	1.39	1.67	2.09	2.50	2.78	2.94	2.94
		kgf.cm	1.0	1.3	1.7	2.1	2.6	3.1	3.5	4.4	5.2	6.3	6.3	7.8	9.4	11.3	12.6	14.2	17.0	21.3	25.5	28.4	30.0	30.0

电容器 CAPACITOR



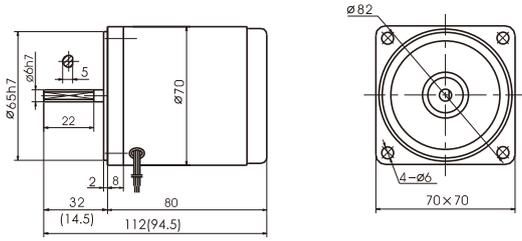
电容量 μF capacity μF	耐压 Voltage	长 L±1	宽 W±1	高 H±1	类型 Type
允许偏差±5% Allowable Deviations±5%		mm	mm	mm	引线式 Down-lead
0.8	500	37	14	28	
1.0	500	37	14	28	
3.0	250	49	21	29	
3.5	250	47	22	34	

接线图 WIRING DIAGRAM



齿轮箱型式Model of Gearbox: 2GN□K

频率Frequency	减速比Reduction Ratio		180	200
50Hz	输出轴转速 Output Shaft Speed	r/min	8	7.5
	允许力矩 Allowable Torque	N.m	2.94	2.94
60Hz	输出轴转速 Output Shaft Speed	r/min	10	9
	允许力矩 Allowable Torque	kgf.cm	30.0	30.0



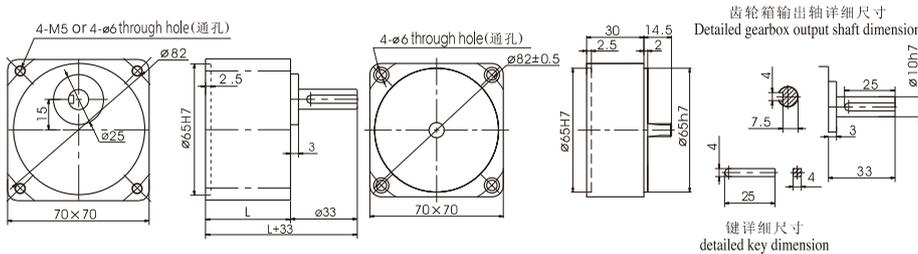
其中()数字系小齿轮轴电机的数值。The value in the () is the value of small gear shaft motor.

电机特性表 LIST OF MOTOR CHARACTERISTICS

电机型号 Model of Motor		出力 Output	电压 Voltage	频率 Frequency	极数 Poles	额定时间 Duty	额定Rated				起动转矩 Starting Torque		电容量/耐压 Capacitor/Ve
光电机 Motor	带齿轴电机 Motor with gear shaft	W	V	Hz	P		转速Speed r/min	电流Current A	力矩Torque N.m	kgf.cm	N.m	kgf.cm	μF/VAC
3IK15A-A	3IK15GN-A	15	1ph110	50	4	连续 CONT	1300	0.30	0.11	1.10	0.09	0.09	5.0/250
3IK15A-C	3IK15GN-C	15	1ph220	50	4	连续 CONT	1300	0.14	0.11	1.10	0.10	0.95	1.2/500
3IK15A-D		15	1ph220	50	2	连续 CONT	2750	0.17	0.06	0.55	0.08	0.75	1.5/500

●使用电压不同，电容量也不相同。故应与使用电压相对应，正确使用。●不能正确使用是造成故障的主要原因。订货时，在确认使用电压后，选择正确的型号进行订货。
 ●The capacitor capacitance will be different under different voltage. A correct capacitor capacitance is required to match the applied voltage. ●Wrong capacitor capacitance is the cause of trouble. You must confirm a correct voltage and select a correct model when your purchase order is placed.

齿轮箱外形尺寸 OVERALL DIMENSION OF GEARBOX

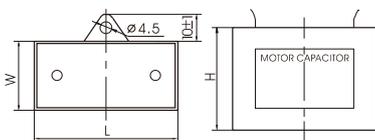


	速比Reduction Ratio	尺寸L(mm)	质量(kg)
齿轮箱 Gearbox	3GN3K-GN15K	32	0.38
	3GN18K-GN50K	42	0.47
	3GN60K-GN200K		0.52
中间齿轮箱 Intermediate Gearbox	3GN10X	30	0.38
电机Motor			1.10

齿轮箱允许力矩 ALLOWABLE TORQUE ON GEARBOX

		齿轮箱型式 Model of Gearbox: 3GN□K																						
频率Frequency	减速比Reduction Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	
50Hz	输出轴转速 Output Shaft Speed	r/min	500	417	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12	10
	允许力矩 Allowable Torque	N.m	0.31	0.38	0.53	0.64	0.79	0.95	1.06	1.32	1.59	1.90	1.90	2.37	2.85	3.42	3.81	4.28	4.90	4.90	4.90	4.90	4.90	4.90
60Hz	输出轴转速 Output Shaft Speed	r/min	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12
	允许力矩 Allowable Torque	N.m	0.29	0.35	0.50	0.60	0.75	0.89	0.99	1.25	1.49	1.79	1.79	2.24	2.68	3.22	3.58	4.02	4.83	4.90	4.90	4.90	4.90	4.90
		kgf.cm	3.0	3.6	5.1	6.1	7.6	9.1	10.1	12.7	15.2	18.2	18.2	22.8	27.3	32.8	36.5	41.0	49.2	50.0	50.0	50.0	50.0	50.0

电容器 CAPACITOR

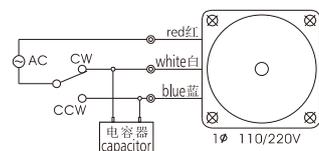


电容量 μF capacity μF 允许偏差±5% Allowable Deviation±5%	耐压 Voltage V	长 L±1 mm	宽 W±1 mm	高 H±1 mm	类型 Type
1.2	500	37	14	28	引线式 Down-lead
1.5	500	37	14	28	
5.0	250	47	23	36	

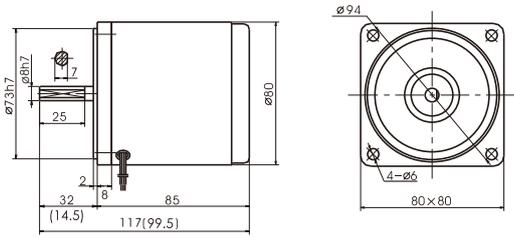
齿轮箱型式 Model of Gearbox: 3GN□K

频率Frequency	减速比Reduction Ratio		180	200
50Hz	输出轴转速 Output Shaft Speed	r/min	8	7.5
	允许力矩 Allowable Torque	N.m	4.90	4.90
60Hz	输出轴转速 Output Shaft Speed	r/min	10	9
	允许力矩 Allowable Torque	kgf.cm	50.0	50.0

接线图 WIRING DIAGRAM



感应电机 INDUCTION MOTOR 25W



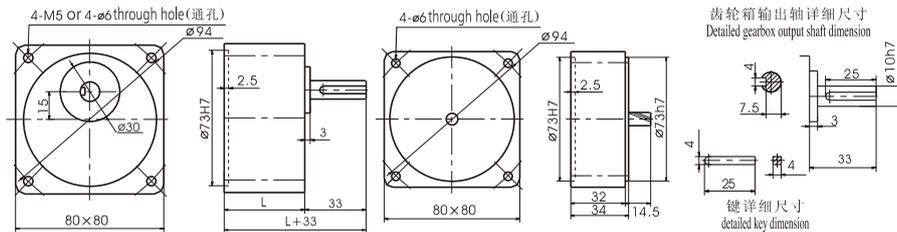
●其中()数字系小齿轮轴电机的数值。 ●The value in the () is the value of small gear shaft motor.

电机特性表 LIST OF MOTOR CHARACTERISTICS

电机型号 Model of Motor		出力 Output	电压 Voltage	频率 Frequency	极数 Poles	额定时间 Duty	额定Rated				起动转矩 Starting Torque		电容量/耐压 Capacitor/Ve
光电机 Motor	带齿轴电机 Motor with gear shaft	W	V	Hz	P		转速Speed r/min	电流Current A	力矩Torque N.m kgf.cm		N.m	kgf.cm	μF/VAC
4IK25A-A	4IK25GN-A	25	1ph110	50	4	连续 CONT	1350	0.45	0.18	1.80	0.18	1.80	7.0/250
4IK25A-C	4IK25GN-C	25	1ph220	50	4	连续 CONT	1350	0.24	0.18	1.80	0.18	1.80	1.8/500
4IK25A-S	4IK25GN-S	25	3ph220	50	4	连续 CONT	1300	0.25	0.19	1.88	0.19	1.88	/
4IK25A-S ₃	4IK25GN-S ₃	25	3ph380	50	4	连续 CONT	1300	0.14	0.19	1.88	0.19	1.88	/
4IK25A-D		25	1ph220	50	2	连续 CONT	2700	0.28	0.09	0.90	0.09	0.90	2.5/500

●使用电压不同，电容量也不相同。故应与使用电压相对应，正确使用。●不能正确使用是造成故障的主要原因。订货时，在确认使用电压后，选择正确的型号进行订货。
●The capacitor capacitance will be different under different voltage. A correct capacitor capacitance is required to match the applied voltage. ●Wrong capacitor capacitance is the cause of trouble. You must confirm a correct voltage and select a correct model when your purchase order is placed.

齿轮箱外形尺寸 OVERALL DIMENSION OF GEARBOX



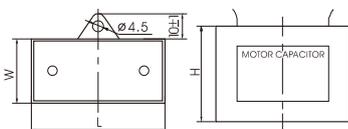
	速比Reduction Ratio	尺寸L(mm)	质量(kg)
齿轮箱 Gearbox	4GN3K-GN20K	32	0.43
	4GN25K-GN50K	43.5	0.57
	4GN60K-GN200K		0.61
中间齿轮箱 Intermediate Gearbox	4GN10X	32	0.43
电机Motor			1.56

齿轮箱允许力矩 ALLOWABLE TORQUE ON GEARBOX

齿轮箱型式 Model of Gearbox: 4GN□K

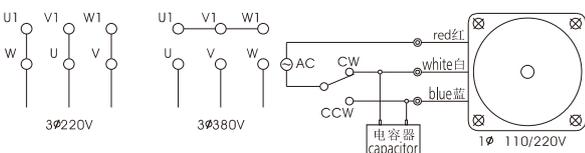
频率Frequency	减速比Reduction Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	
50Hz	输出轴转速 Output Shaft Speed	r/min	500	417	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12	10
	允许力矩 Allowable Torque	N.m	0.42	0.52	0.72	0.86	1.07	1.29	1.43	1.79	2.15	2.58	2.87	3.22	3.87	4.65	5.16	6.45	7.00	7.84	7.84	7.84	7.84	7.84
60Hz	输出轴转速 Output Shaft Speed	r/min	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12
	允许力矩 Allowable Torque	N.m	0.35	0.42	0.59	0.70	0.88	1.05	1.17	1.46	1.76	2.11	2.34	2.64	3.17	3.80	4.22	5.28	5.73	7.16	7.84	7.84	7.84	7.84
		kgf.cm	3.59	4.30	5.98	7.20	8.97	10.8	12.0	14.9	17.9	21.5	23.9	26.9	32.3	38.8	43.1	53.9	58.8	73.1	80.0	80.0	80.0	80.0

电容器 CAPACITOR



电容量 μF capacity μF	耐压 Voltage	长 L±1	宽 W±1	高 H±1	类型 Type
1.8	500	38	15	28	引线式 Down-lead
2.5	500	38	18	29	
7.0	250	47	23	36	
允许偏差±5%					

接线图 WIRING DIAGRAM

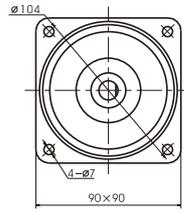
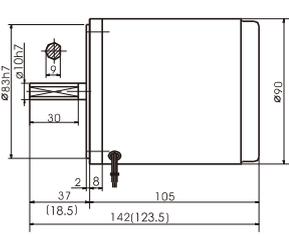


齿轮箱型式 Model of Gearbox: 4GN□K

频率Frequency	减速比Reduction Ratio		180	200	250
50Hz	输出轴转速 Output Shaft Speed	r/min	8	7.5	6
	允许力矩 Allowable Torque	N.m	7.84	7.84	7.84
		kgf.cm	80.0	80.0	80.0
60Hz	输出轴转速 Output Shaft Speed	r/min	10	9	7.2
	允许力矩 Allowable Torque	N.m	7.80	7.80	7.80
		kgf.cm	80.0	80.0	80.0



INDUCTION MOTOR 40W



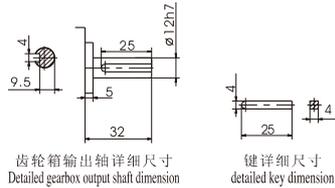
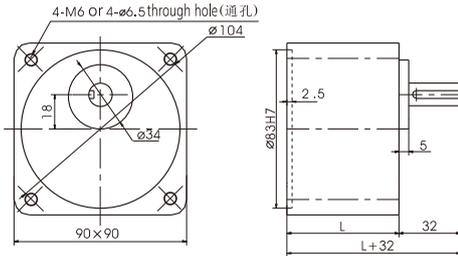
●其中()数字系小齿轮轴电机的数值。●The value in the () is the value of small gear shaft motor.

电机特性表 LIST OF MOTOR CHARACTERISTICS

电机型号 Model of Motor		出力 Output	电压 Voltage	频率 Frequency	极数 Poles	额定时间 Duty	额定Rated				启动转矩 Starting Torque		电容量/耐压 Capacitor/Ve
光电机 Motor	带齿轴电机 Motor with gear shaft	W	V	Hz	P		转速Speed r/min	电流Current A	力矩Torque N.m kgf.cm		N.m	kgf.cm	
5IK40A-A	5IK40GN-A	40	1ph110	50	4	连续 CONT	1350	0.64	0.29	2.85	0.25	2.50	10.0/250
5IK40A-C	5IK40GN-C	40	1ph220	50	4	连续 CONT	1350	0.32	0.29	2.85	0.28	2.50	2.5/500
5IK40A-S	5IK40GN-S	40	3ph220	50	4	连续 CONT	1300	0.38	0.29	2.90	1.15	11.5	/
5IK40A-S _s	5IK40GN-S _s	40	3ph380	50	4	连续 CONT	1300	0.22	0.29	2.90	1.15	11.5	/
5IK40A-D		40	1ph220	50	2	连续 CONT	2800	0.35	0.15	1.45	0.13	1.25	3.0/500

●使用电压不同，电容量也不相同。故应与使用电压相对应，正确使用。●不能正确使用是造成故障的主要原因。订货时，在确认使用电压后，选择正确的型号进行订货。
●The capacitor capacitance will be different under different voltage. A correct capacitor capacitance is required to match the applied voltage. ●Wrong capacitor capacitance is the cause of trouble. You must confirm a correct voltage and select a correct model when your purchase order is placed.

齿轮箱外形尺寸 OVERALL DIMENSION OF GEARBOX



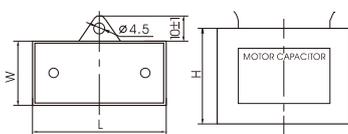
	速比Reduction Ratio	尺寸L(mm)	质量(kg)
齿轮箱 Gearbox	5GN3K-GN15K	42	0.73
	5GN18K-GN36K	60	1.03
	5GN40K-GN200K		1.13
电机Motor			2.34

齿轮箱允许力矩 ALLOWABLE TORQUE ON GEARBOX

齿轮箱型式 Model of Gearbox: 5GN□K

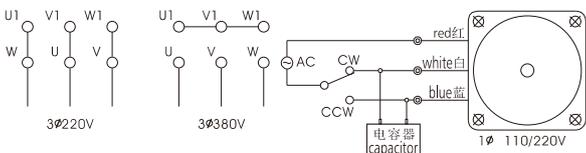
频率Frequency	减速比Reduction Ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150
50Hz	输出轴转速 Output Shaft Speed	r/min	500	417	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12	10
	允许力矩 Allowable Torque	N.m	0.68	0.82	1.14	1.37	1.72	2.06	2.29	2.86	3.43	4.13	4.59	5.16	6.20	7.44	8.26	9.80	9.80	9.80	9.80	9.80	9.80	9.80
		kgf.cm	6.94	8.37	11.6	14.0	17.6	21.0	23.4	29.2	35.0	42.1	46.8	52.6	63.3	75.9	84.3	100	100	100	100	100	100	100
	60Hz	输出轴转速 Output Shaft Speed	r/min	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15
允许力矩 Allowable Torque		N.m	0.58	0.70	0.97	1.16	1.45	1.74	1.93	2.41	2.90	3.48	3.87	4.36	5.23	6.28	6.97	8.72	9.46	9.80	9.80	9.80	9.80	9.80
		kgf.cm	5.92	7.14	9.90	11.8	10.8	17.7	19.7	24.6	29.6	35.5	39.5	44.5	53.4	64.1	71.1	89.0	96.5	100	100	100	100	100

电容器 CAPACITOR



电容量 μF capacity μF	耐压 Voltage	长 L±1 mm	宽 W±1 mm	高 H±1 mm	类型 Type
允许偏差±5% Allowable Deviation±5%					
2.5	500	38	18	29	引线式 Down-lead
3.0	500	47	18	32	
10.0	250	58	23	39	

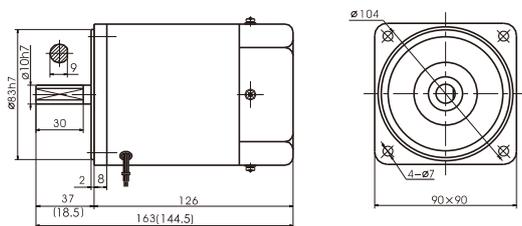
接线图 WIRING DIAGRAM



齿轮箱型式 Model of Gearbox: 5GN□K

频率Frequency	减速比Reduction Ratio		180	200	300	500
50Hz	输出轴转速 Output Shaft Speed	r/min	8	7.5	5	3
	允许力矩 Allowable Torque	N.m	9.80	9.80	9.80	9.80
		kgf.cm	100	100	100	100
	60Hz	输出轴转速 Output Shaft Speed	r/min	10	9	6
允许力矩 Allowable Torque		N.m	9.80	9.80	9.80	9.80
		kgf.cm	100	100	100	100

感应电机 INDUCTION MOTOR 60W



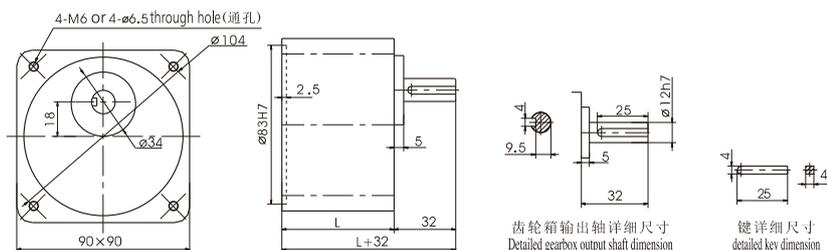
●其中()数字系小齿轮轴电机的数值。 ●The value in the () is the value of small gear shaft motor.

电机特性表 LIST OF MOTOR CHARACTERISTICS

电机型号 Model of Motor		出力 Output	电压 Voltage	频率 Frequency	极数 Poles	额定时间 Duty	额定Rated				起动转矩 Starting Torque		电容量/耐压 Capacitor/Ve
光电机 Motor	带齿轴电机 Motor with gear shaft	W	V	Hz	P		转速Speed	电流Current	力矩Torque		N.m	kgf.cm	μF/VAC
							r/min	A	N.m	kgf.cm			
5IK60A-AF	5IK60GN-AF	60	1ph110	50	4	连续 CONT	1350	0.98	0.44	4.40	0.38	3.75	15.0/250
5IK60A-CF	5IK60GN-CF	60	1ph220	50	4	连续 CONT	1350	0.52	0.44	4.40	0.40	4.00	4.0/500
5IK60A-SF	5IK60GN-SF	60	3ph220	50	4	连续 CONT	1350	0.49	0.46	4.55	1.70	17.0	/
5IK60A-S5F	5IK60GN-S5F	60	3ph380	50	4	连续 CONT	1350	0.28	0.46	4.55	1.70	17.0	/
5IK60A-DF		60	1ph220	50	2	连续 CONT	2750	0.56	0.21	2.10	0.25	2.50	4.0/500

●使用电压不同，电容量也不同。故应与使用电压相对应，正确使用。●不能正确使用是造成故障的主要原因。订货时，在确认使用电压后，选择正确的型号进行订货。
 ●The capacitor capacitance will be different under different voltage. A correct capacitor capacitance is required to match the applied voltage. ●Wrong capacitor capacitance is the cause of trouble. You must confirm a correct voltage and select a correct model when your purchase order is placed.

齿轮箱外形尺寸 OVERALL DIMENSION OF GEARBOX



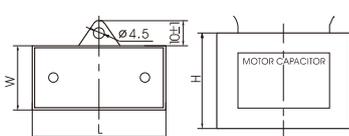
	速比Reduction Ratio	尺寸L(mm)	质量(kg)
齿轮箱 Gearbox	5GN3K-GN15K	42	0.73
	5GN18K-GN36K	60	1.03
	5GN40K-GN200K		1.13
电机Motor			2.69

齿轮箱允许力矩 ALLOWABLE TORQUE ON GEARBOX

齿轮箱型式 Model of Gearbox: 5GN□K

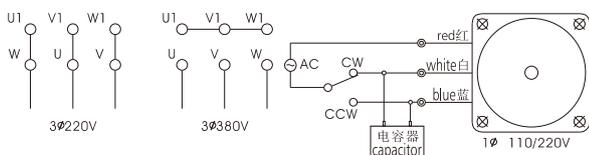
频率Frequency	减速比Reduction Ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150
50Hz	输出轴转速 Output Shaft Speed	r/min	500	417	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12	10
	允许力矩 Allowable Torque	N.m	1.03	1.24	1.72	2.6	2.58	3.10	3.10	3.88	4.65	5.38	5.60	7.01	8.41	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80
		kgf.cm	10.5	12.7	17.6	21.0	26.3	31.6	31.6	39.6	47.4	54.9	57.1	71.6	85.8	100	100	100	100	100	100	100	100	100
60Hz	输出轴转速 Output Shaft Speed	r/min	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12
	允许力矩 Allowable Torque	N.m	0.9	1.08	1.50	1.80	2.23	2.70	2.70	3.38	4.05	4.88	4.88	6.10	7.33	8.97	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80
		kgf.cm	9.18	11.0	15.3	18.4	23.0	27.6	27.6	34.5	41.3	49.5	49.5	62.2	74.7	90.0	100	100	100	100	100	100	100	100

电容器 CAPACITOR



电容量 μF capacity μF 允许偏差±5% Allowable Deviation±5%	耐压 Voltage	长 L±1	宽 W±1	高 H±1	类型 Type
4.0	500	49	21	29	引线式 Down-lead
15.0	250	58	25	45	

接线图 WIRING DIAGRAM

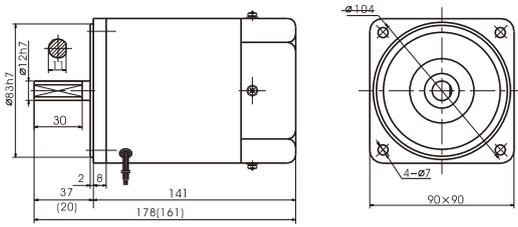


齿轮箱型式 Model of Gearbox: 5GN□K

频率Frequency	减速比Reduction Ratio		180	200	300	500
50Hz	输出轴转速 Output Shaft Speed	r/min	8	7.5	5	3
	允许力矩 Allowable Torque	N.m	9.80	9.80	9.80	9.80
		kgf.cm	100	100	100	100
60Hz	输出轴转速 Output Shaft Speed	r/min	10	9	6	3.6
	允许力矩 Allowable Torque	N.m	9.80	9.80	9.80	9.80
		kgf.cm	100	100	100	100



感应电机 INDUCTION MOTOR 120W



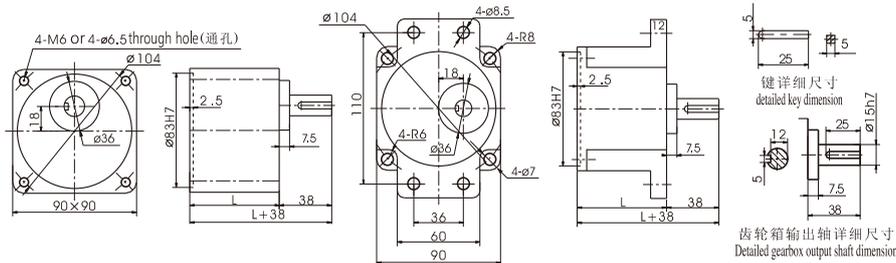
●其中()数字系小齿轮轴电机的数值。 ●The value in the () is the value of small gear shaft motor.

电机特性表 LIST OF MOTOR CHARACTERISTICS

电机型号 Model of Motor		出力 Output	电压 Voltage	频率 Frequency	极数 Poles	额定时间 Duty	额定Rated				启动转矩 Starting Torque		电容容量/耐压 Capacitor/Ve
光电机 Motor	带齿轴电机 Motor with gear shaft	W	V	Hz	P		转速Speed r/min	电流Current A	力矩Torque N.m kgf.cm		N.m	kgf.cm	μF/VAC
5IK120A-AF	5IK120GU-AF	120	1ph110	50	4	连续 CONT	1250	1.80	0.90	9.00	0.65	6.50	20.0/250
5IK120A-CF	5IK120GU-CF	120	1ph220	50	4	连续 CONT	1300	0.82	0.87	8.65	0.75	7.50	7.0/500
5IK120A-SF	5IK120GU-SF	120	3ph220	50	4	连续 CONT	1300	0.83	0.87	8.65	3.20	32.00	/
5IK120A-S5F	5IK120GU-S5F	120	3ph380	50	4	连续 CONT	1300	0.40	0.87	8.65	3.20	32.00	/
5IK120A-DF		120	1ph220	50	2	连续 CONT	2800	1.20	0.40	4.00	0.51	5.05	8.0/500

●使用电压不同, 电容容量也不相同。故应使用电压相对应, 正确使用。●不能正确使用是造成故障的主要原因。订货时, 在确认使用电压后, 选择正确的型号进行订货。
●The capacitor capacitance will be different under different voltage. A correct capacitor capacitance is required to match the applied voltage. ●Wrong capacitor capacitance is the cause of trouble. You must confirm a correct voltage and select a correct model when your purchase order is placed.

齿轮箱外形尺寸 OVERALL DIMENSION OF GEARBOX



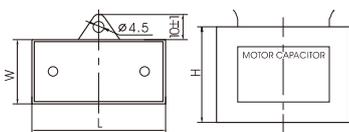
	速比Reduction Ratio	尺寸L(mm)	质量(kg)
齿轮箱 Gearbox	5GU3K-GU9K	65	1.21
	5GU10K-GU18K		1.30
	5GU20K-GU75K		1.40
	5GU90K-GU200K		1.45
	5GU300K-GU500K		
电机Motor			3.43

齿轮箱允许力矩 ALLOWABLE TORQUE ON GEARBOX

齿轮箱型式 Model of Gearbox: 5GU□K

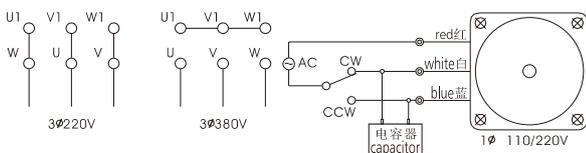
频率Frequency	减速比Reduction Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	
50Hz	输出轴转速 Output Shaft Speed	r/min	500	417	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12	10
	允许力矩 Allowable Torque	N.m	2.14	2.57	3.57	4.29	5.38	6.43	6.43	8.05	9.66	11.6	11.6	14.6	17.5	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
kgf.cm		21.8	26.2	36.4	43.8	54.7	65.6	65.6	82.1	98.6	118	118	149	196	200	200	200	200	200	200	200	200	200	
60Hz	输出轴转速 Output Shaft Speed	r/min	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12
	允许力矩 Allowable Torque	N.m	1.80	2.16	3.00	3.60	4.49	5.39	5.39	6.75	8.10	9.72	9.72	12.2	14.6	17.6	19.5	19.6	19.6	19.6	19.6	19.6	19.6	19.6
kgf.cm		18.4	22.0	30.6	36.7	45.8	55.0	55.0	68.9	82.7	99.2	99.2	124	149	180	199	200	200	200	200	200	200	200	

电容器 CAPACITOR



电容容量 μF capacity μF	耐压 Voltage	长 L±1	宽 W±1	高 H±1	类型 Type
允许偏差±5% Allowable Deviation±5%	V	mm	mm	mm	引线式 Down-lead
7.0	500	47	23	36	
8.0	500	47	26	39	
20.0	250	58	23	39	

接线图 WIRING DIAGRAM

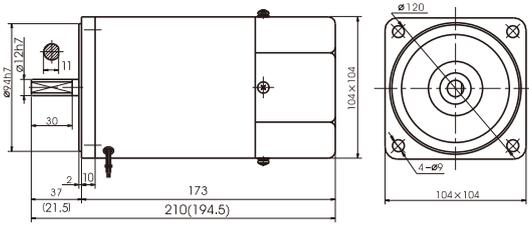


齿轮箱型式 Model of Gearbox: 5GU□K

频率Frequency	减速比Reduction Ratio	180	200	300	500	
50Hz	输出轴转速 Output Shaft Speed	r/min	8	7.5	5	3
	允许力矩 Allowable Torque	N.m	19.6	19.6	19.6	19.6
kgf.cm		200	200	200	200	
60Hz	输出轴转速 Output Shaft Speed	r/min	10	9	6	3.6
	允许力矩 Allowable Torque	N.m	19.6	19.6	19.6	19.6
kgf.cm		200	200	200	200	



INDUCTION MOTOR 140W



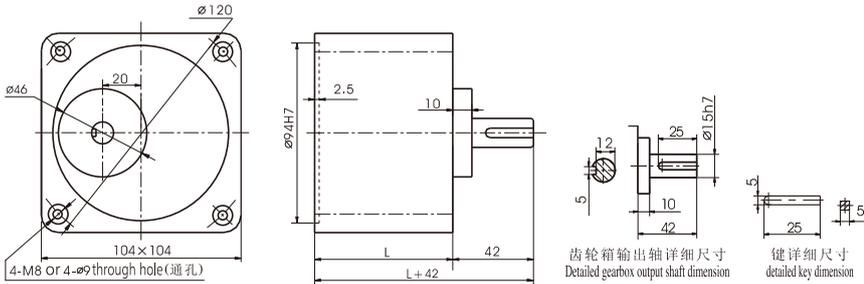
●其中()数字系小齿轮轴电机的数值。 ●The value in the () is the value of small gear shaft motor.

电机特性表 LIST OF MOTOR CHARACTERISTICS

电机型号 Model of Motor		出力 Output W	电压 Voltage V	频率 Frequency Hz	极数 Poles P	额定时间 Duty	额定Rated				起动转矩 Starting Torque		电容量/耐压 Capacitor/Ve μF/VAC
光电机 Motor	带齿轴电机 Motor with gear shaft						转速Speed r/min	电流Current A	力矩Torque N.m kgf.cm		N.m	kgf.cm	
6IK140A-AF	6IK140GU-AF	140	1ph110	50	4	连续 CONT	1350	2.00	0.99	9.95	0.90	9.00	30.0/250
6IK140A-CF	6IK140GU-CF	140	1ph220	50	4	连续 CONT	1350	0.91	0.99	9.95	0.90	9.00	10.0/500
6IK140A-SF	6IK140GU-SF	140	3ph220	50	4	连续 CONT	1350	0.95	0.99	9.95	3.50	35.00	/
6IK140A-SsF	6IK140GU-SsF	140	3ph380	50	4	连续 CONT	1350	0.55	0.99	9.95	3.50	35.00	/
6IK140A-DF		140	1ph220	50	2	连续 CONT	2800	0.88	0.45	4.50	0.44	4.40	10.0/500

●使用电压不同，电容量也不相同。故应与使用电压相对应，正确使用。 ●不能正确使用是造成故障的主要原因。订货时，在确认使用电压后，选择正确的型号进行订货。
 ●The capacitor capacitance will be different under different voltage. A correct capacitor capacitance is required to match the applied voltage. ●Wrong capacitor capacitance is the cause of trouble. You must confirm a correct voltage and select a correct model when your purchase order is placed.

齿轮箱外形尺寸 OVERALL DIMENSION OF GEARBOX



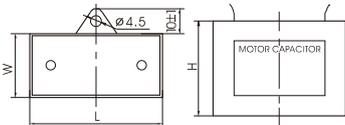
	速比Reduction Ratio	尺寸L(mm)	质量(kg)
齿轮箱 Gearbox	6GU3K-GU9K	72	1.87
	6GU10K-GU18K		2.10
	6GU20K-GU200K		2.75
电机Motor			4.94

齿轮箱允许力矩 ALLOWABLE TORQUE ON GEARBOX

齿轮箱型式 Model of Gearbox: 6GU□K

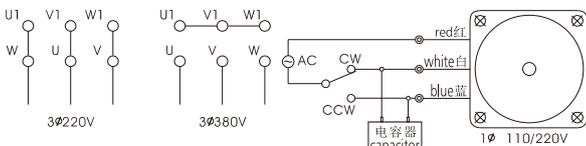
频率Frequency	减速比Reduction Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	
50Hz	输出轴转速 Output Shaft Speed	r/min	500	417	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12	10
	允许力矩 Allowable Torque	N.m	2.36	2.83	3.93	4.71	5.89	7.07	7.07	8.85	10.6	12.7	12.7	16.0	19.2	23.0	25.6	32.0	38.4	39.2	39.2	39.2	39.2	
		kgf.cm	24.1	28.8	40.1	48.1	60.1	72.1	72.1	90.3	108	130	130	163	196	235	261	327	392	400	400	400	400	400
60Hz	输出轴转速 Output Shaft Speed	r/min	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12
	允许力矩 Allowable Torque	N.m	2.03	2.44	3.39	4.06	5.08	6.09	6.09	7.60	9.15	11.0	11.0	13.8	16.6	19.9	22.1	27.6	33.1	39.2	39.2	39.2	39.2	
		kgf.cm	20.7	24.9	34.6	41.2	51.8	62.1	62.1	77.6	93.4	112	112	141	169	203	226	282	338	400	400	400	400	400

电容器 CAPACITOR



电容量 μF capacity μF 允许偏差±5% Allowable Deviation±5%	耐压 Voltage V	长 L±1 mm	宽 W±1 mm	高 H±1 mm	类型 Type
10.0	500	47	26	38	引线式 Down-lead
30.0	250	68	32	56	

接线图 WIRING DIAGRAM

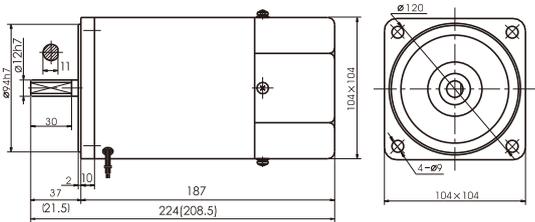


齿轮箱型式 Model of Gearbox: 6GU□K

频率Frequency	减速比Reduction Ratio	180	200	
50Hz	输出轴转速 Output Shaft Speed	r/min	8	7.5
	允许力矩 Allowable Torque	N.m	39.2	39.2
		kgf.cm	400	400
60Hz	输出轴转速 Output Shaft Speed	r/min	10	9
	允许力矩 Allowable Torque	N.m	39.2	39.2
		kgf.cm	400	400



感应电机 INDUCTION MOTOR 180W



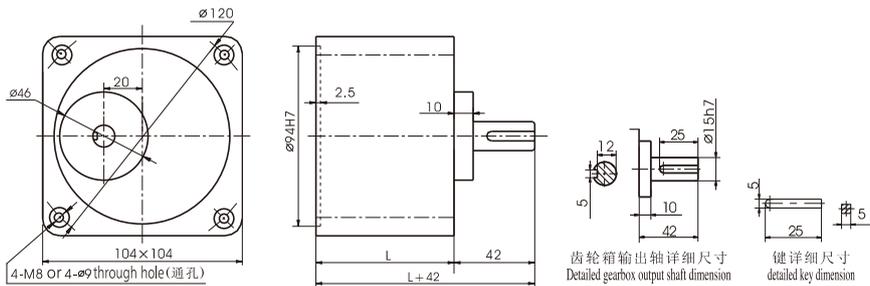
●其中()数字系小齿轮轴电机的数值。 ●The value in the () is the value of small gear shaft motor.

电机特性表 LIST OF MOTOR CHARACTERISTICS

电机型号 Model of Motor		出力 Output	电压 Voltage	频率 Frequency	极数 Poles	额定时间 Duty	额定Rated				起动转矩 Starting Torque		电容量/耐压 Capacitor/Ve
光电机 Motor	带齿轴电机 Motor with gear shaft	W	V	Hz	P		转速Speed	电流Current	力矩Torque		N.m	kgf.cm	μF/VAC
							r/min	A	N.m	kgf.cm			
6IK180A-AF	6IK180GU-AF	180	1ph110	50	4	连续 CONT	1350	2.30	1.25	12.5	1.20	12.00	35.0/250
6IK180A-CF	6IK180GU-CF	180	1ph220	50	4	连续 CONT	1350	1.17	1.25	12.5	1.20	12.00	12.0/500
6IK180A-SF	6IK180GU-SF	180	3ph220	50	4	连续 CONT	1350	0.95	1.25	12.5	4.60	46.00	/
6IK180A-S ₃ F	6IK180GU-S ₃ F	180	3ph380	50	4	连续 CONT	1350	0.55	1.25	12.5	4.60	46.00	/
6IK180A-DF		180	1ph220	50	2	连续 CONT	2800	0.88	0.45	4.50	0.44	4.40	12.0/500

●使用电压不同，电容量也不相同。故应与使用电压相对应，正确使用。●不能正确使用是造成故障的主要原因。订货时，在确认使用电压后，选择正确的型号进行订货。
 ●The capacitor capacitance will be different under different voltage. A correct capacitor capacitance is required to match the applied voltage. ●Wrong capacitor capacitance is the cause of trouble. You must confirm a correct voltage and select a correct model when your purchase order is placed.

齿轮箱外形尺寸 OVERALL DIMENSION OF GEARBOX



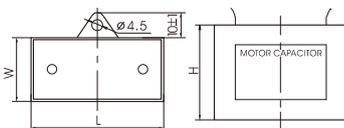
	速比Reduction Ratio	尺寸L(mm)	质量(kg)
齿轮箱 Gearbox	6GU3K-GU9K	72	1.87
	6GU10K-GU18K		2.10
	6GU20K-GU200K		2.75
电机Motor			4.94

齿轮箱允许力矩 ALLOWABLE TORQUE ON GEARBOX

齿轮箱型式 Model of Gearbox: 6GU□K

频率Frequency	减速比Reduction Ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150
50Hz	输出轴转速 Output Shaft Speed	r/min	500	417	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12	10
	允许力矩 Allowable Torque	N.m	2.67	3.25	4.50	5.40	6.89	9.07	9.07	11.36	13.67	16.36	18.18	22.79	27.29	32.73	36.35	39.2	39.2	39.2	39.2	39.2	39.2	39.2
		kgf.cm	27.2	33.2	46	55.2	70.4	90.6	92.6	116	139.5	167	185.5	232.6	278.5	334	371	400	400	400	400	400	400	400
60Hz	输出轴转速 Output Shaft Speed	r/min	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12
	允许力矩 Allowable Torque	N.m	2.30	2.80	3.88	4.65	5.94	7.81	7.81	9.75	11.8	14.17	15.75	19.66	23.6	28.32	31.38	39.2	39.2	39.2	39.2	39.2	39.2	39.2
		kgf.cm	23.4	28.7	39.69	47.28	60.68	79.76	79.76	99.69	120.6	143.88	159.82	201	240	289	321	400	400	400	400	400	400	400

电容器 CAPACITOR

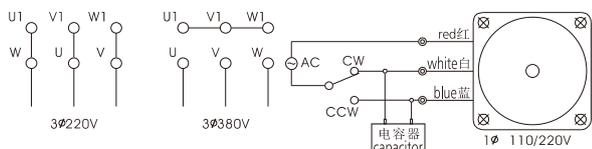


电容量 μF capacity μF	耐压 Voltage	长 L±1	宽 W±1	高 H±1	类型 Type
允许偏差±5% Allowable Deviation±5%	V	mm	mm	mm	引线式 Down-lead
12.0	450	58	23	39	
35.0	500	68	32	56	

齿轮箱型式 Model of Gearbox: 6GU□K

频率Frequency	减速比Reduction Ratio		180	200
50Hz	输出轴转速 Output Shaft Speed	r/min	8	7.5
	允许力矩 Allowable Torque	N.m	39.2	39.2
60Hz	输出轴转速 Output Shaft Speed	r/min	10	9
	允许力矩 Allowable Torque	kgf.cm	400	400

接线图 WIRING DIAGRAM





Trouble shooting for Reducer

不良原因 Defect cause	原因分析 Cause analysis	解决方案 Troubleshooting	
噪音 Noise	齿轮敲击声 Gear knocking	齿轮表面受伤 Gear surface damaged	更换受伤齿轮组 Replace damaged gear group
	连续性杂音 Continuous noise	培林损坏 Bearing damaged	更换损坏培林 Replace damaged bearing(s)
	周期性杂音 Aging noise	异物附着齿轮 Foreign matter attached to gear surface	检查齿轮齿面 Check on the gear surface
	嘶嘶声 Hissing	油量不足 Insufficient oil	添加润滑油 Add lubricating oil
	断续性杂音 Subsequent noise	润滑油不洁 Unclean lubricating oil	更新新润滑油 Replace with new lubricating oil
不正常运转 Vibration	固定底座振动 Fixed base vibration	安装平面歪斜 Deflection of installation plane	重新调整固定底座 Re-adjust fixed base
	出力轴振动 Output shaft vibration	培林损坏 Bearing damaged	更换损坏培林 Replace damaged bearing(s)
	内部齿轮零件振动 Internal gear part vibration	齿轮受伤 Gear damaged	更换受伤培林 Replace damaged gear
	本身振动 Body vibration	齿轮组安装不良 The installation of gear group is out of condition	重新调整齿轮组 Re-adjust gear group
漏油 Oil leakage	油封漏油 Oil seal leakage	油封硬化 Oil seal hardening	更换损坏油封 Replace damaged oil seal
	本身漏油 Body leakage	本身有砂孔 There is sand hole in the body	更换砂孔本身 Replace the body with sand hole
	结合面漏油 Joint surface leakage	O-型环损坏 O-ring damaged	更换损坏O-型环 Replace damaged O-ring
过热 Overheating	油封 Oil seal	油封太紧 Over-tightened oil seal	更换太紧油封 Replace the over-tightened oil seal
	本身过热 Overheated body	过负载 Over-loaded	重新计算负载马力 Re-calculate the load horsepower
	缺润滑油 Lack of lubricating oil	油量不足 Insufficient oil	加入润滑油 Add lubricating oil
	备注：马达国标温升75℃		

直流煞车器故障排除 Trouble shooting for DC Brake

不良原因 Defect cause	原因分析 Cause analysis	解决方案 Troubleshooting
煞车器不动作 或煞车不良 Brakes don't work or work poorly	未供电电源 The power is not supplied	供应电源 Supply the power
	来令片磨损 The lining is worn out	换新来令片 Replace with new lining
	电源电压不足或电压错 Insufficient power voltage	提供正确电压 Supply proper voltage
	电源供应器损坏 Power supplier damaged	电源供应器换新 Replace with new power supplier
	异物入侵 Intrusion of foreign matter	清洁零件 Clean parts
	结线脱落 Connection fallen off	重新接线 Connect again
	来令片卡死 lining got stuck	清洁零件 Clean parts
	煞车线圈烧毁 Braking coil burnt	煞车线圈换新 Replace with new braking coil
	间隙过大 Too large clearance	调整间隙 Adjust the clearance
	来令片沾染油 The lining is tainted with oil	清洁来令片 Clean the lining
	负载过大 Over-loaded	重新设计 Re-design the load
	煞车表面歪斜 Deflection of brake surface	更换零件 Replace parts
	下降衡量过大 Too large descending weighting	机构重新设计 Re-design the structure
	选用机型错误 Error selection of machine type	选用正确机型 Choose the right machine type
环境温度过高 Too high ambient temperature	改善环境温度 Better ambient temperature	