

深圳市金皇冠微电机有限公司
Shenzhen Gold Crown Micromotor Co., Ltd.

电机样品承认书
SPECIFICATION FOR APPROVAL

CUSTOMER : _____
PRODUCT MODEL : _____
MOTOMODEL : GC-997SH-05228-121
DATE : 2017-6-24

MANUFACTURER' S CONFIRMATION:			
APPROVED	CHECKED	PREPARED	
H. YANG	K. ZHANG	Samuel 2017-6-24	
PROJECT NO.	1702034	REV.	A

CONFIRMED &ACCEPTED BY CUSTOMER COMPANY CHOP & SIGNATURE (客户确认回签):

(本承认书包含 : 规格书、外形图、性能曲线图、样品测试报告)
(Approval comprise:Specification Sheet, Outline Drawing, Performance Chart, Sample Test Report)

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MOTOR SPECIFICATION

GC-997SH-05228-121

1. Standard Operating Conditions 标准使用条件

1-1	Rated voltage 额定电压	12.0V DC CONSTANT between motor terminals 电机端子间加 12.0V DC
1-2	Operating Voltage range 使用电压范围	6.0V-18.0V DC CONSTANT between motor terminals 6.0V-18.0V DC (电机端子间)
1-3	Rated Load 额定负载	139*60*2
1-4	Direction of Rotation 旋转方向	CCW
1-5	Side Pressure 侧压	Less than 100gf Min at a position 5mm above motor installation surface 出力轴端离安装表面 5mm 侧压小于 100gf Min
1-6	Operating temperature Range: 使用温度范围	0° C~+50° C
1-7	Storage Temperature Range 储存温度范围	-40° C~+85° C
1-8	Motor Position 电机姿势	All direction of protruded shaft 出力轴所有方向
1-9	Grounding Polarity 接地极性	No polarity 无极性
1-10	Type of Load 负荷种类	Gear or belt 齿轮或传送带

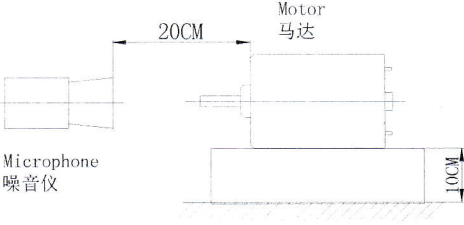
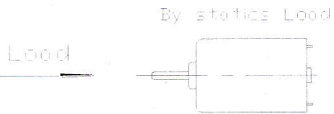
2. Measuring conditions 测试条件

2-1	Motor position 电机姿势	Motor to be held with shaft horizontally 出力轴水平放置
2-2	Power supply 电源	Regulated power supply which assuage unquestionable measurement 可调节直流稳压电源,确保测量时无疑问
2-3	Environmental Temperature and Hunmidity 湿度和温度	The test is made in principle of a ten perature between 10° C to 30° C And at relative humidity between 30% and 95% if the test result is questionable it shaft be judged from the test made at JIS Standard Testing condition (20° C±2° C, 65%±%RH) 原则上温度为 10° C~30° C, 湿度为 30%~95%, 如果测试结果有疑问, 则按 JIS 标准 (20° C±2° C, 65%±5%RH)

3. Electrclal Characteristics 电气性能

3-1	No Load Current 空载电流	Rated Voltage No Load 额定电压、空载时	0.7A max
3-2	No Load speed 空载转速	Rated Voltage No Load 额定电压、空载时	3050±10%rpm
3-3	Stall Current 堵转电流	Reted Voltage 额定电压下	24.45A max
3-4	Starting Voltage 起动电压	No Load 空载时	3V max
3-5	HI-POT TEST 高压测试	600V DC/1S/5mA between motor shaft and supply(±) 电机端子和轴间加 600V DC/1S/5mA	600V DC/1S/5mA

4. External & Functional Characteristics 结构及机械性能

4-1	External appearance 外观	Outer dimensions to be within be tolerances specified in the attached Drawing remarkable deformation or superficial defects to be observed by visual check Fastened parts to be fixed firmly 外型尺寸符合附图外观无明显变形或表面损伤，紧固件应安装牢固	
4-2	Shaft end play 轴向间隙	End play for thrust direction of protruded shaft 向轴伸方向拉动出力轴	0.35mm MAX
4-3	Shaft T.I.R 轴径向跳动	At 3.0mm away from the mounting surface 距机壳端面 3.0mm 处	0.01mm max
4-4	Perpendicularity of output shaft 出力轴垂直度		90° ±9′
4-5	Mechanical Noise 机械噪音	No load (approx 3050rpm) Measured with following condition Background noise: 40dB max. 空载转速（约 3050rpm）背景噪音小于 40dB. 测试方法如下： 	65dB max
4-6	Maximum Axial Load 最大轴向力	Direction of static Load and support of Load as shown below 轴间静推力和支撑位置的方向见下图 	20Kg max
4-7	Vibration 振动	To be set with mutual agreement 经用户确认同意	Same or less than limitation sample

5.Environmental Tests. 环境试验。

5-1	Storage Test Under high Temperaure 高温放置试验	All of the specifications in Item 3 and 4 are to be satisfied after motors exposed to $+70^{\circ}\text{C} \pm 20^{\circ}\text{C}$ for 72 hours, and then to temperature /humidity of Item 2-3 for 24hours. 电机放于 $+70^{\circ}\text{C} \pm 20^{\circ}\text{C}$ 环境中 72 小时，再在常温、常湿下放置 24 小时，电机性能 3 和 4 的指标不变。	
5-2	Storage Test under low Temperature 低温放置试验	All of the specifications in Item 3 and 4 are to be satisfied after motors exposed to $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ for 72 hours, and then to temperature/humidity of Item 2-3 for 24 hours. 电机放于 $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ 环境中 72 小时，再在常温、常湿下放置 24 小时，电机性能 3 和 4 的指标不变。	
5-3	Storage Test Under high Temperature/humidity 高温、高湿储存试验	All of the specifications in Item 3 and 4 are to be satisfied after motors exposed to $+60^{\circ}\text{C} \pm 2^{\circ}\text{C} / 90\%-95\% \text{ RH}$ for 96 hours, and then to temperature / humidity of Item 2-3 for 24 hours. 电机放于 $+60^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 相对湿度为 90%-95% 的环境中 96 小时，再在常温、常湿下放置 24 小时，电机性能 3 和 4 的指标不变。	

6.Life Test 寿命试验

At $25^{\circ}\text{C} \pm 5^{\circ}\text{C} / 65\% \pm 20\% \text{ RH}$. Rated coltage, Rated load.

The test shall be made by using the specified life test apparatus, on 20 min, off 20 min, Life: 500 H min.

在 $25^{\circ}\text{C} \pm 5^{\circ}\text{C} / 65\% \pm 20\% \text{ RH}$ ，额定电压，额定负载条件下按所定的寿命试验装置开 20 分钟，停 20 分钟，寿命：至少 500 小时。

Judgement of failure (measurement condition shall be as specified in cloused 2).

故障的判定：（测试条件包括 2 的项目）

	Item 项目	Judgement of failure 内容
1		Motor is unquestionable recognized as unusable. 电机出现异常被确认无疑时
2	Rated Load Current 额定负载电流	When the current gets varied over $\pm 35\%$ against the initial figure. 当电流超出初始值的 $\pm 35\%$
3	Rated Load Speed 额定负载转速	When the speed gets varied over $\pm 15\%$ against the initial figure. 当转速超出初始值的 $\pm 15\%$