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规格书

SPECIFICATION

容	客户名称/Customer	
谷白	客户料号/Part No.	
信	客户承认签章	
「 同	Customer Approved	
问	Signatures	

文件编号/Spec No.	KOTL-B-799				
品名/Description	圆柱直流马达/Cylindrical DC motor				
型号/Part No.	Z4TH5B1241992				
设计/Designed	审核/Checked	批准/Approved			
部 梦和(差にあり	v Stap 2			
2009.09.16	2009.09.16	2009.09.16			

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书适用于圆筒式永磁直	ndrical perman			41992									
书适用于圆筒式永磁直 ecification applies to cyli	ndrical perman		model 2										
件/Operating Conditions			 适用范围/General Scope 本说明书适用于圆筒式永磁直流电机 Z4TH5B1241992 型 This specification applies to cylindrical permanent-magnetic motors DC model Z4TH5B1241992. 										
	•												
	规格/Specific	ations	条件·省	备注/Conditions	& Remarks								
E电压 ed voltage	3.0V DC												
至负荷 ed load	振子 Counterweigh	nt	见 10. 外形图 As specified in 10. Outline Drawing										
亏方向 ttion	C.W/C.C.W (clockwise or	counter clockwise)											
运位置 or position	全方位 All position												
l电压范围 rating voltage		-											
]环境 rating environment	Humidity:65=	=20%RH	无水气凝结 No condensation of moisture										
四环境 age environment				无水气凝结 No condensation of moisture									
	d voltage 负荷 d load 方向 tion 位置 or position 电压范围 ating voltage 环境 ating environment 环境	电压 d voltage 3.0V DC 负荷 振子 d load Counterweigh 方向 C.W/C.C.W (clockwise or 位置 全方位 or position All position 电压范围 ating voltage -30 ~ 70% Humidity:65= 环境 -40 ~ 80%	电压 d voltage 3.0V DC 负荷 振子 d load Counterweight 方向 C.W/C.C.W (clockwise or counter clockwise) 位置 全方位 All position All position 电压范围 ating voltage $2.2 \sim 3.6$ V DC 环境 $-30 \sim 70^{\circ}$ C,常湿/Ordinary Humidity:65±20%RH 环境 $-40 \sim 80^{\circ}$ C,常湿/Ordinary	电压 d voltage 分荷 d load 方向 fc χ f	电压 d voltage 3.0V DC 负荷 振子 见 10. 外形图 d load Counterweight As specified in 10. Out 方向 C.W/C.C.W (clockwise or counter clockwise) 位置 全方位 All position All position 电压范围 ating voltage $2.2 \sim 3.6 V DC$ 环境 $-30 \sim 70^{\circ}C$,常 湿 /Ordinary 无水气凝结 No condensation of mo								

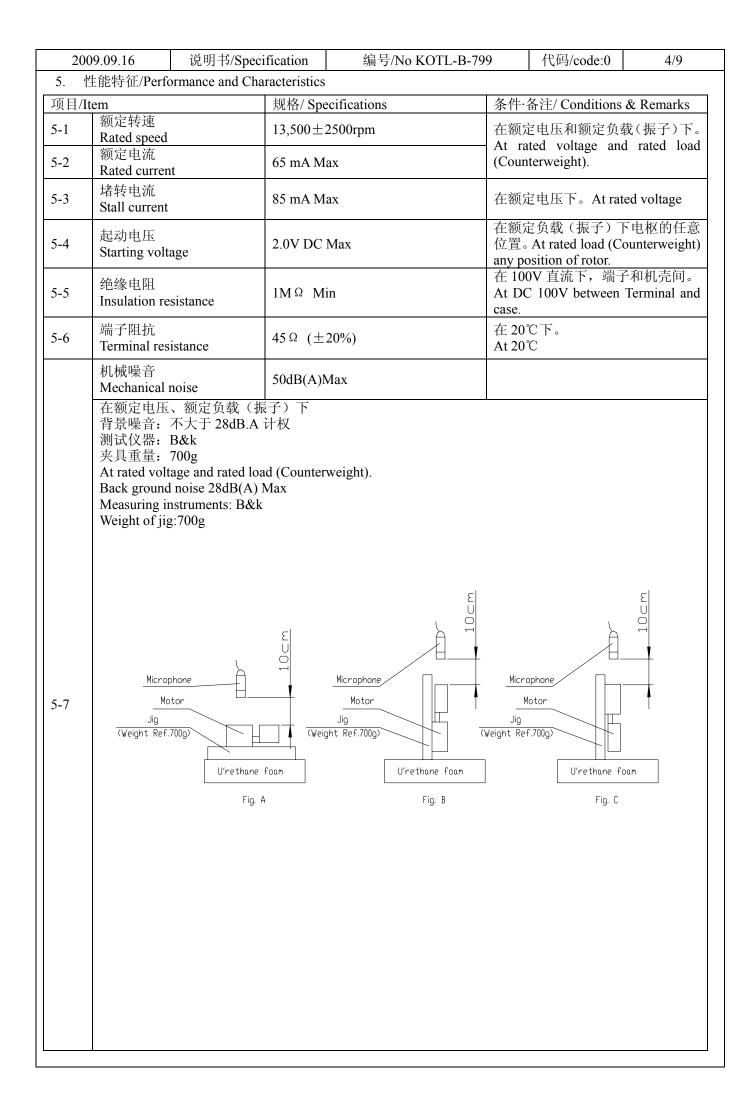
测定条件/Measuring Conditions

项目/Item		规格/Specifications	条件·备注/ Conditions & Remarks		
3-1	温度 Temperature	20±2℃			
3-2	湿度 Humidity	63%~67% RH			
3-3	位置 Motor position	轴向水平 Motor shaft horizontal	将马达固定在试验台上 Lock the motor in a test fixture		

标准测试条件为温度 20℃,湿度 65%。如无疑异,也可在温度 5~35℃、湿度 45~85%的条件下测试。马 达测试时,放置方向为轴向水平。/The measurement at 20℃ & 65%RH is standard. If the judgment is not questionable, recognize measurement at 5℃ to 35℃ & relative humidity 45% to 85%. Direction of motor is shaft horizontal.

机械要求/Mechanical Specifications 4.

项目/Item		规格/ Specifications	条件·备注/ Conditions & Remarks		
4-1	结构 Configuration	见 10. 外形图 As specified in 10. Outline Drawing	Outline drawing No: Z4TH5B1241992		
4-2	外观 Appearance	不含有机械损坏及不适当的浸蚀等。 There shall be no evidence of mechanical damage and shall not have inadequate corrosion and so on	目测(容许范围根据样品外形) Visual examination(allowable extent is based on boundary sample)		
4-3	轴向间隙 Shaft end play	0.05mm~0.2mm			
4-4	振子固定力 Holding strength of vibration weight	30N (3kgf) Min			



项目/Item 规格/ Specifications							判定标准/Judgment			
6-1	寿命 Life time	0.5s 0.5s					试验后,马达应符合项 7-1 的要求。 After the test, motors shall be			
		位置 Position 轴水平	电压 Volt Rated	负荷 Load Weight	温度 Temp	湿度 Humi	寿命 Life 200,000	approved as specified in item 7-1		
		Horizon	额定	振子	20°C	65%	Cycles			
6-2	低温放置 Low temp exposure	温度 时间	/Temp /Time:	erature:	–40±2℃ 96h	2				
6-3	高温放置 High temp. Exposure	温度 时间	/Temp /Time:		80±2℃ 96h			在常温常湿下放置 2h 后,马达应 符合项 7-2 的要求。 After 2 hours exposure in ordinary temperature and humidity, Motors		
6-4	湿度放置 Humidity exposure	温度 /Temperature: 40±2℃ 湿度 /Humidity: 90~95%RH 放置时间 / Exposure time: 96h 无水气凝结/No condensation of moisture						shall be approved a item 7-2.	s specified in	
6-5	振动 Vibration	 频率 /Frequency: 10~55~10Hz 全振幅 /Displacement: 1.5mm (p-p) 加速度 /Acceleration: 22m/s² 周期 /Period: 20min 完成 10~55~10Hz /20 Minutes log sweep10~55~10Hz 方向 /Direction: x, y, z 时间 /Time: 每个方向 2h /Each 2 hours 						测试结果应符合项 7 After the test mo approved as specified	tors shall be	
6-6	自然跌落 Free fall	 试验状态/Test state:将马达固定在约 100 克(包括马达本身)的物体上,落向水泥地面。 Set the motor to the approximately 100g (include the motor) weight of block drop the motor on the concrete floor. 高度 /Height: 1.5m 方向 /Direction: 6个面 / 6 faces 次数 /Number of times: 每个面 2 次 /Twice 2 each 					测试结果应符合项 7 After the test mo approved as specified	otors shall be		
6-7	热冲击 Heat shock test	试验循环 ^{70±2°(} -30±2	5	st cycle :2	1h		_	在常温常湿下放置 2 符合项 7-2 的要求。 After 2 hours expos temperature and hu shall be approved as s 7-2.	ure in ordinary midity, Motor	

2009.09.16 说明丰			3/Specification	编号/No KOTL-B-799		代码/code:0	6/9	
7. 要:	求/Requirements	S						
项目/Item			判定基准 / Requirements					
7-1	表 A Table A		 1) 额定转速/Rate 2) 额定电流/Rate 3) 起动电压/Start 	ed current:	不低于初始值-30%,不 Initial data -30% Min, 不大于初始值±30%/I 2.4V DC Max	Initial data +60%	6 Max	
7-2	表 B Table B		1) 额定转速/Rate 2) 额定电流/Rate 3) 起动电压/Start	d current:	不大于初始值±30% 不大于初始值±30% 2.4V DC Max			

8. 使用时注意事项/Matters to be paid attention to when using motor

8-1 电机在运输过程中应小心轻放,避免严重碰撞敲击引起的电机机身和性能受损。(Please lay the motors carefully in transportation to avoid any serious damage to the motor body or its electric function because of collision.)

8-2 请按照规格书中规定的第 2 条(使用条件)来使用和存储电机, 否则会影响电机性能。(Please use and storage motors according to N0.2 item (Operating Conditions) in specification, or else motor characteristics would be affected.)

8-3 请在6个月内使用。在使用和打开马达外包装时请避免水气凝

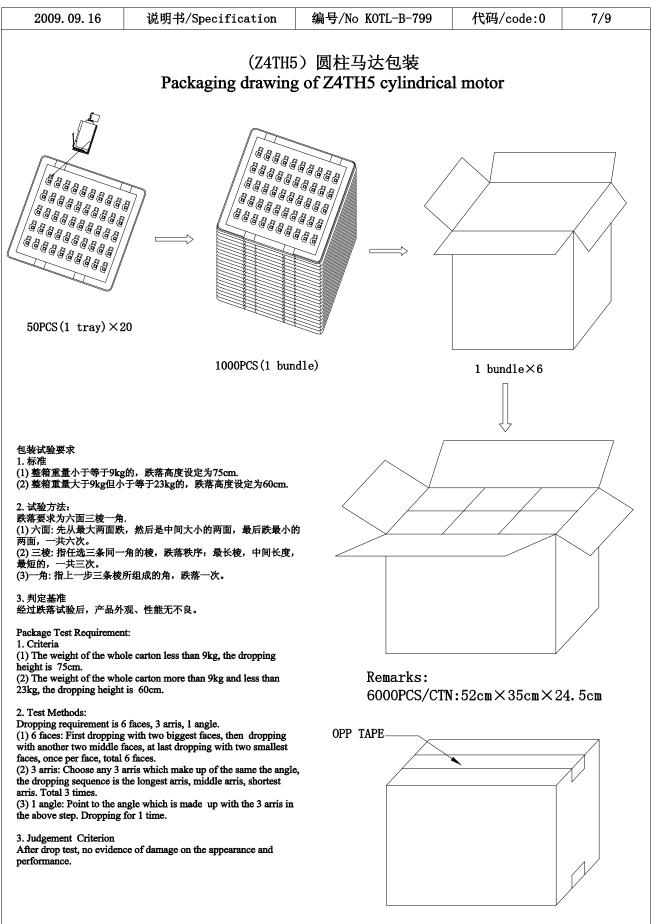
结。(Make arrangement to limit the storage period to 6 months or less. Condensation of atmosphere must be avoided in motor usage or opening the packaging of the motor.)

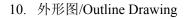
8-4 马达应适当的操作、储存和运转环境中均不可存在腐蚀性气体。例如: H₂S、SO₂、NO₂、CL₂等。另外 存储环境中不可有诸如硅、氰、甲醛水和苯酚等能放射出腐蚀性气体的物质,在电机的机械构造或装置中,如 果存在腐蚀性气体,那么这会引起马达不运转。(For proper operation. storage and operating environment must not contain corrosive gases. For example H₂S. SO₂. NO₂. CL₂ etc. In addition storage environment must not have materials that emit corrosive gases especially from silicon. cyanic. formalin and phenol group. In the mechanism or the set. existence of corrosive gases may cause no rotation in motor.)

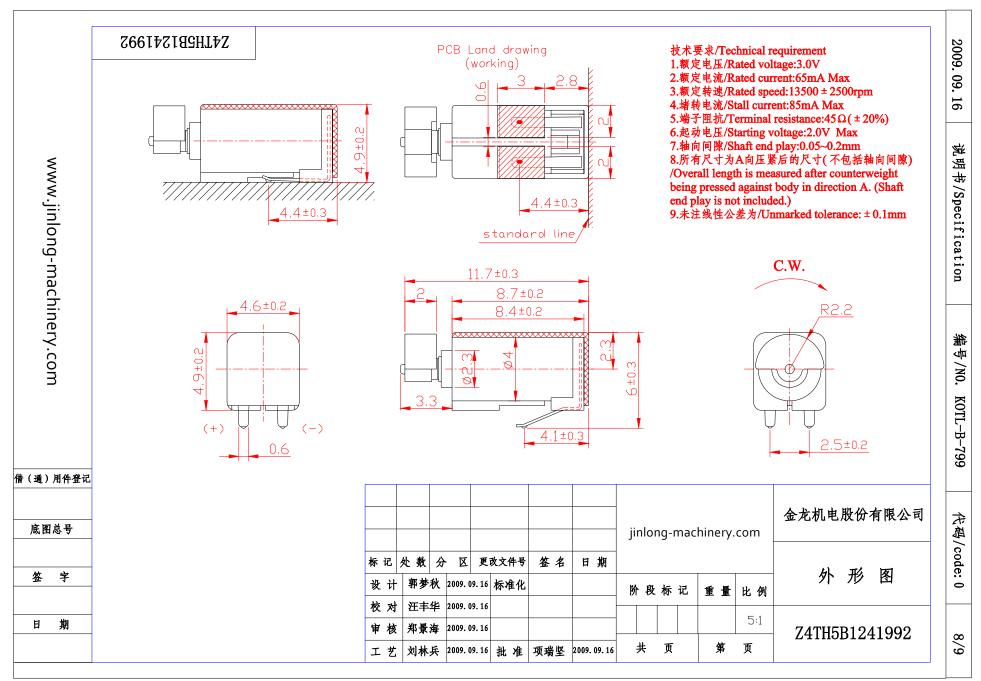
8-5 请通电后不要长时间堵住机轴,并且马达转动时不要触碰振子。(Please don't stall the shaft for a long time after powering, and not to touch the weight when motor is rotating.)

8-6 马达轴向间隙处不应有杂物(如颗粒、纤维物、头发、胶带、胶水等)(There should be no sundries (such as grain, fibre, hair, small tape, glue etc.) in the shaft end play.)

9. 包装/Packaging







200	2009.09.16 说明书/Specification		编号/No KOTL-B-799		9/9	
11. 1	修改记录 / RI	EVISION HISTORY				
序号/ NO.	修改前/Before revision		修改后/After revision	修改人/ Reviser	修改日期/ Date	