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规格书

SPECIFICATION

客户信息/ Customer Information	客户名称/Customer	
	客户料号/Part No.	
	客户承认签章	
	Customer Approved	
	Signatures	

文件编号/Spec No.	KOTL-B-110					
品名/Description	圆柱直流马达/Cylindrical DC motor					
型号/Part No.	Z4KH2B0470652					
设计/Designed	审核/Checked	批准/Approved				
2012.02.16	2012.02.16	2012.02.16				

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	型号/Part	No.	Z4KH2B0470652					
 适用范围/General Scope 本说明书适用于圆筒式永磁直流电机 Z4KH2B0470652 型 This specification applies to cylindrical permanent-magnetic motors DC model Z4KH2B0470652. 								
2.	使用条件/Operatir	ng Conditions						
项目/	Item	规格	-/Specifications		条件·备注/Conditions	s & Remarks		
2-1	额定电压 Rated voltage	3.0V	DC					
2-2	额定负荷 Rated load		振子 Counterweight			见 10. 外形图 As specified in 10. Outline Drawing		
2-3	旋转方向 Rotation		/C.C.W kwise or counter cloc	ckwise)				
2-4	4 马达位置 全方位 Motor position All position							
2-5	使用电压范围 Operating voltag	~3.6V DC						
2-6	使用环境 Operating envir	~ 70℃,常湿 hidity:65±20%RH	Ĩ	无水气凝结 No condensation of m	noisture			
			~ 80℃, 常湿 hidity:65±20%RH	• •	无水气凝结 No condensation of moisture			

3. 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.

4. 机械要求/Mechanical Specifications

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: Z4KH2B0470652		
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	49N (5kgf) Min			



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6. 「面日	可靠性/Relia /Item	ibility 规格/ Spe		判定标准/Judgment						
6-1 寿命 Life time								试验后,马达应符合项 7-1 的要求。 After the test, motors shall be approved as specified in item 7-1.		
		位置 Position 轴水平 Horizon	电压 Volt Rated 额定	负荷 Load Weight 振子	温度 Temp 20℃	湿度 Humi 65%	寿命 Life 200,000 Cycles	approved as specified in term 7-1.		
6-2	低温放置 Low temp exposure	温度 时间	/Temp /Time	erature:	–40±2℃ 96h	2	1			
6-3	高温放置 High temp. Exposure	温度 时间	/Temp /Time	erature:	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						as specified in		
6-5	振动 Vibration	全振幅 // 加速度 // 条件 // 正常包装	全振幅 /Displacement: 1.5mm (p-p) 加速度 /Acceleration: 22m/s ² 条件 /Condition: 正常包装情况下,沿 x、y、z 三个方向各振动 20 分钟 /Vibration 20 minutes along x. y. z direction, under					测试结果应符合项 7 After the test mo approved as specified	otors shall be	
6-6	自然跌落 Free fall	达本身) Set the m	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: ±x, ±y, ±z					测试结果应符合项 7 After the test ma approved as specified	otors shall be	
6-7	热冲击 Heat shock test	试验循环 ^{70±2°} -30±2	с	st cycle :2	- 1h		_	在常温常湿下放置之 符合项 7-2 的要求。 After 2 hours expos temperature and hu shall be approved as 7-2.	sure in ordinary umidity, Motors	

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7. 要:	求/Requirements						
项目/]	ltem		判定基准 / Requir	ements			
7-1	表 A Table A		1) 额定转速/Rated 2) 额定电流/Rated 3) 起动电压/Starti	l current:	不低于初始值-30%,7 Initial data -30% Min 不大于初始值±30%/ 2.0V DC Max	, Initial data +609	% Max
7-2	表 B Table B		1) 额定转速/Rated 2) 额定电流/Rated 3) 起动电压/Starti	l current:	不大于初始值±30 不大于初始值±30 2.0V 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





工艺

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11. 作	修改记录 / RI	EVISION HISTORY				
序号/ NO.	修	修改前/Before revision		修改后/After revision	修改人/ Reviser	修改日期/ Date
	端盖组件老	工艺	端盖:	组件新工艺		
1		$: 16.6 \pm 0.3$		几总长: 16.2±0.3	杨兰	2012-02-16
		: 11.8±0.2		身长度: 11.4±0.2		
	3.弹片长度	: 5./±0.2	3.钾月	†长度: 5.3±0.2		