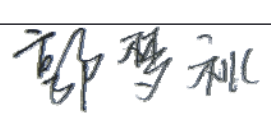
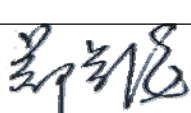
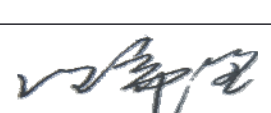


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规格书

SPECIFICATION

客户信息	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-314	
品名/Description	圆柱直流马达/Cylindrical DC motor	
型号/Part No.	Z6DH2B1501852	
设计/Designed	审核/Checked	批准/Approved
		
2010.01.13	2010.01.13	2010.01.13

规格书内容/Contents

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型号/ Part No.	Z6DH2B1501852
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1. 适用范围/ General Scope
 本说明书适用于圆筒式永磁直流电机 Z6DH2B1501852 型
 This specification applies to cylindrical permanent-magnetic motors DC model
 Z6DH2B1501852

2. 使用条件/ Operating Conditions

项目/Item		规格/Specifications	条件·备注/Conditions & 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.W/C.C.W (clockwise or counter clockwise)	
2-4	马达位置 Motor position	全方位 All position	
2-5	使用电压范围 Operating voltage	2.2~3.6V DC	
2-6	使用环境 Operating environment	-30 ~ 70℃, 常湿 /Ordinary Humidity:65±20%RH	无水气凝结 No condensation of moisture
2-7	保存环境 Storage environment	-40 ~ 80℃, 常湿 /Ordinary Humidity:65±20%RH	无水气凝结 No condensation of moisture

3. 测定条件/Measuring condition

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 specification

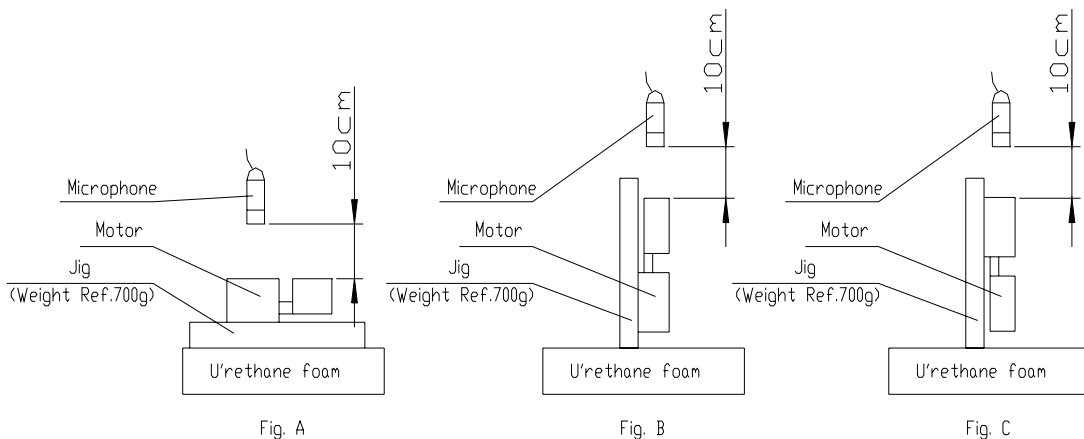
项目/Item		规格/Specifications	条件·备注/Conditions & Remarks
4-1	结构 Configuration	见 10. 外形图 As specified in 10. Outline Drawing	Outline drawing No: Z6DH2B1501852
4-2	外观 Appearance	不含有机械损坏及不适当的浸蚀等。 There shall be no evidence of mechanical damage and shall not have inadequate corrosion and so on	目测 (容许范围根据样品外形) Visual examination(allowable extent is based on boundary sample)
4-3	轴向间隙 Shaft end play	0.1mm~0.3mm	
4-4	振子固定力 Holding strength of vibration weight	49N (5kgf) Min	

5.性能特征/Performance and characteristics

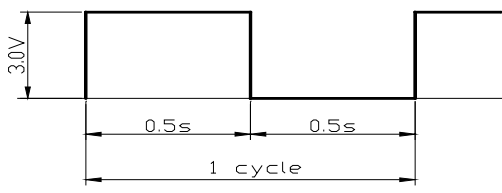
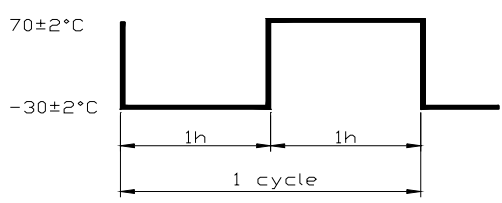
项目/Item	规格/Specifications	条件·备注/Conditions & Remarks
5-1 额定转速 Rated speed	9500±2000rpm	在额定电压和额定负载(振子)下。 At rated voltage and rated load (vibration weight).
5-2 额定电流 Rated current	40 mA Max	
5-3 堵转电流 Stall current	75 mA Max	在额定电压下 At rated voltage
5-4 起动电压 Starting voltage	1.7V DC Max	在额定负载(振子)下电枢的任意位置。 At rated load (Counterweight) any position of rotor.
5-5 绝缘电阻 Insulation resistance	1MΩ Min	在100V直流下, 端子和机壳间 At DC 100V between Terminal and case.
5-6 端子阻抗 Terminal resistance	50Ω (±20%)	在20℃下 At 20℃
5-7 机械噪音 Mechanical noise	50db(A) Max	

在额定电压、额定负载(振子)下
背景噪音: 不大于 28dB.A 计权
测试仪器: B&k
夹具重量: 700g
At rated voltage and rated load (Counterweight).
Back ground noise 28dB(A) Max
Measuring instruments: B&k
Weight of jig:700g

5-7

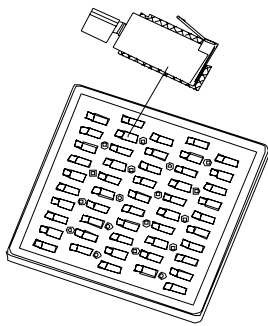


6. 可靠性/Reliability

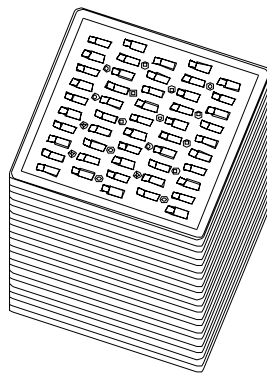
项目/Item		规格/Specification						判定标准/Judgment	
6-1	寿命 Life time							在常温常湿下放置 2h 后，马达应符合项 7-1 的要求。 After 2 hours exposure in ordinary temperature and humidity, Motors shall be approved as specified in item 7-1.	
		位置 Position	电压 Volt	负荷 Load	温度 Temp	湿度 Humi	寿命 Life		
		轴水平 Horizon	Rated 额定	Weight 振子	20°C	65%	200,000 Cycles		
6-2	低温放置 Low temp exposure	温度 时间	/Temperature: $-40\pm 2^{\circ}\text{C}$ /Time: 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 shall be approved as specified in item 7-2.	
6-3	高温放置 High temp. Exposure	温度 时间	/Temperature: $60\pm 2^{\circ}\text{C}$ /Time: 96h						
6-4	湿度放置 Humidity exposure	温度 湿度 放置时间 无水气凝结/No condensation of moisture	/Temperature: $40\pm 2^{\circ}\text{C}$ /Humidity: 90~95%RH /Exposure time: 96h						
6-5	振动 Vibration	频率 全振幅 加速度 周期 方向 时间	/Frequency: 10~55~10Hz /Displacement: 1.5mm (p-p) /Acceleration: 22m/s^2 /Period: 20min 完成 10~55~10Hz /20 Minutes log sweep 10~55~10Hz /Direction: x, y, z /Time: 每个方向 2h /Each 2 hours						
6-6	自然跌落 Free fall	试验状态/Test state: 高度 方向 次数	将马达固定在约 75 克（包括马达本身）的物体上，落向水泥地面。 Set the motor to the approximately 75g (include the motor) weight of block drop the motor on the concrete floor. /Height: 1.5m /Direction: 6 个面 / 6 faces /Number of times: 每个面 2 次 / Twice 2 each					测试结果应符合项 7-2 的要求。 After the test motors shall be approved as specified in item 7-2.	
6-7	热冲击 Heat shock test	试验循环	/Test cycle :20 cycles						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 shall be approved as specified in item 7-2.

2010.01.13	说明书/Specification	编号/No KOTL-B-314	代码/code:0	7/9
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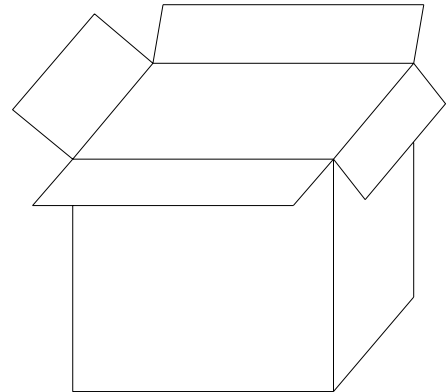
(Z6DH2) 圆柱马达包装
Packaging drawing of Z6DH2 cylindrical motor



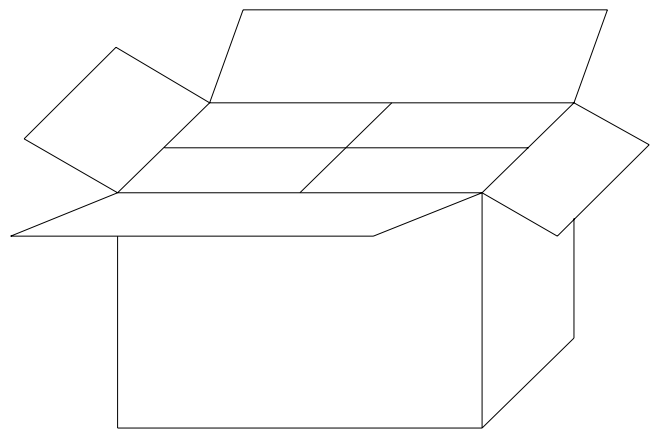
50PCS (1 tray) × 20



1000PCS (1 bundle)



1 bundle × 4



包装试验要求

1. 标准

- (1) 整箱重量小于等于9kg的, 跌落高度设定为75cm.
- (2) 整箱重量大于9kg但小于等于23kg的, 跌落高度设定为60cm.

2. 试验方法:

跌落要求为六面三棱一角.

- (1) 六面: 先从最大两面跌, 然后是中间大小的两面, 最后跌最小的两面, 一共六次.
- (2) 三棱: 指任选三条同一角的棱, 跌落秩序: 最长棱, 中间长度, 最短的, 一共三次.
- (3) 一角: 指上一步三条棱所组成的角, 跌落一次.

3. 判定基准

经过跌落试验后, 产品外观、性能无不良.

Package Test Requirement:

1. Criteria

- (1) The weight of the whole carton less than 9kg, the dropping height is 75cm.
- (2) The weight of the whole carton more than 9kg and less than 23kg, the dropping height is 60cm.

2. Test Methods:

Dropping requirement is 6 faces, 3 aris, 1 angle.

- (1) 6 faces: First dropping with two biggest faces, then dropping with another two middle faces, at last dropping with two smallest faces, once per face, total 6 faces.
- (2) 3 aris: Choose any 3 aris which make up of the same the angle, the dropping sequence is the longest aris, middle aris, shortest aris. Total 3 times.
- (3) 1 angle: Point to the angle which is made up with the 3 aris in the above step. Dropping for 1 time.

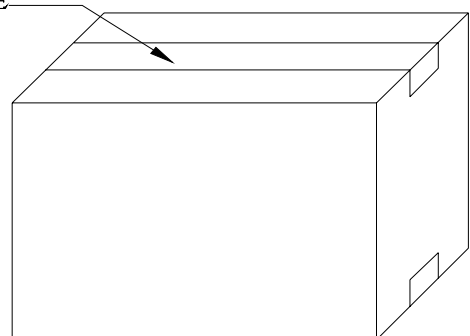
3. Judgement Criterion

After drop test, no evidence of damage on the appearance and performance.

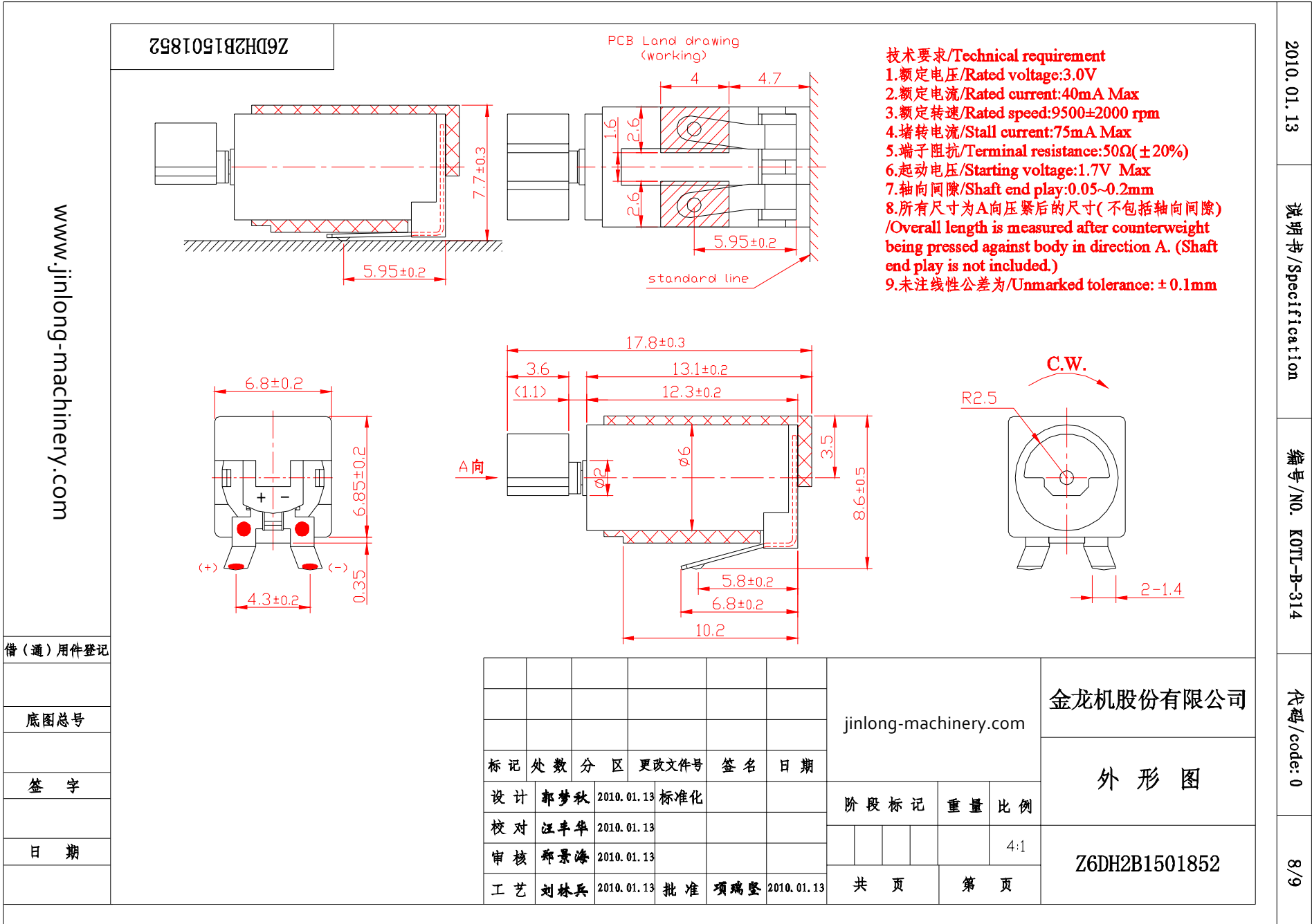
Remarks:

4000PCS/CTN:43cm × 21cm × 25.5cm

OPP TAPE



10. 外形图/Outline Drawing



借(通)用件登记
底图总号
签字
日期

						jinlong-machinery.com			金龙机股份有限公司		
									外形图		
标记	处数	分区	更改文件号	签名	日期	阶段标记	重量	比例	Z6DH2B1501852		
设计	郭梦秋	2010.01.13	标准化					4:1			
校对	汪丰华	2010.01.13									
审核	郑景海	2010.01.13									
工艺	刘林兵	2010.01.13	批准	项瑞坚	2010.01.13	共 页	第 页				

2010.01.13

说明书/Specification

编号/NO. K0TL-B-314

代号/code: 0

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