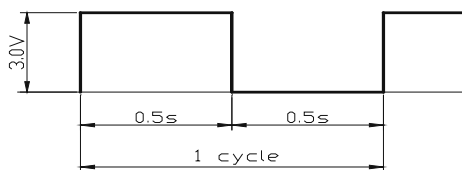
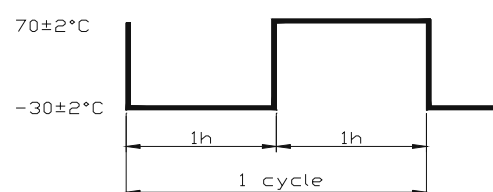


6. 可靠性/Reliability

项目/Item	规格/ Specifications	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.												
	<table border="1"> <tr> <td>位置 Position</td> <td>电压 Volt</td> <td>负荷 Load</td> <td>温度 Temp</td> <td>湿度 Humi</td> <td>寿命 Life</td> </tr> <tr> <td>轴水平 Horizon</td> <td>额定</td> <td>重量 振子</td> <td>20°C</td> <td>65%</td> <td>200,000 Cycles</td> </tr> </table>		位置 Position	电压 Volt	负荷 Load	温度 Temp	湿度 Humi	寿命 Life	轴水平 Horizon	额定	重量 振子	20°C	65%	200,000 Cycles
	位置 Position		电压 Volt	负荷 Load	温度 Temp	湿度 Humi	寿命 Life							
轴水平 Horizon	额定	重量 振子	20°C	65%	200,000 Cycles									
6-2 低温放置 Low temp exposure	温度 /Temperature: $-40\pm 2^{\circ}\text{C}$ 时间 /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 /Temperature: $80\pm 2^{\circ}\text{C}$ 时间 /Time: 96h													
6-4 湿度放置 Humidity exposure	温度 /Temperature: $40\pm 2^{\circ}\text{C}$ 湿度 /Humidity: 90~95%RH 放置时间 /Exposure time: 96h 无水气凝结/No condensation of moisture													
6-5 振动 Vibration	频率 /Frequency: 10~55~10Hz 全振幅 /Displacement: 1.5mm (p-p) 加速度 /Acceleration: 22m/s^2 周期 /Period: 20min 完成 10~55~10Hz /20 Minutes log sweep 10~55~10Hz 方向 /Direction: x, y, z 时间 /Time: 每个方向 2h /Each 2 hours													
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 7-2 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.												

7. 要求/Requirements

项目/Item		判定基准 / Requirements
7-1	表 A Table A	1) 额定转速/Rated speed: 不低于初始值-30%,不高于初始值+60% Initial data -30% Min, Initial data +60% Max 2) 额定电流/Rated current: 不大于初始值±30%/Initial data±30% max 3) 起动电压/Starting voltage: 2.8V DC Max
7-2	表 B Table B	1) 额定转速/Rated speed: 不大于初始值±30%/Initial data±30% max 2) 额定电流/Rated current: 不大于初始值±30%/Initial data±30% max 3) 起动电压/Starting voltage: 2.8V 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.)

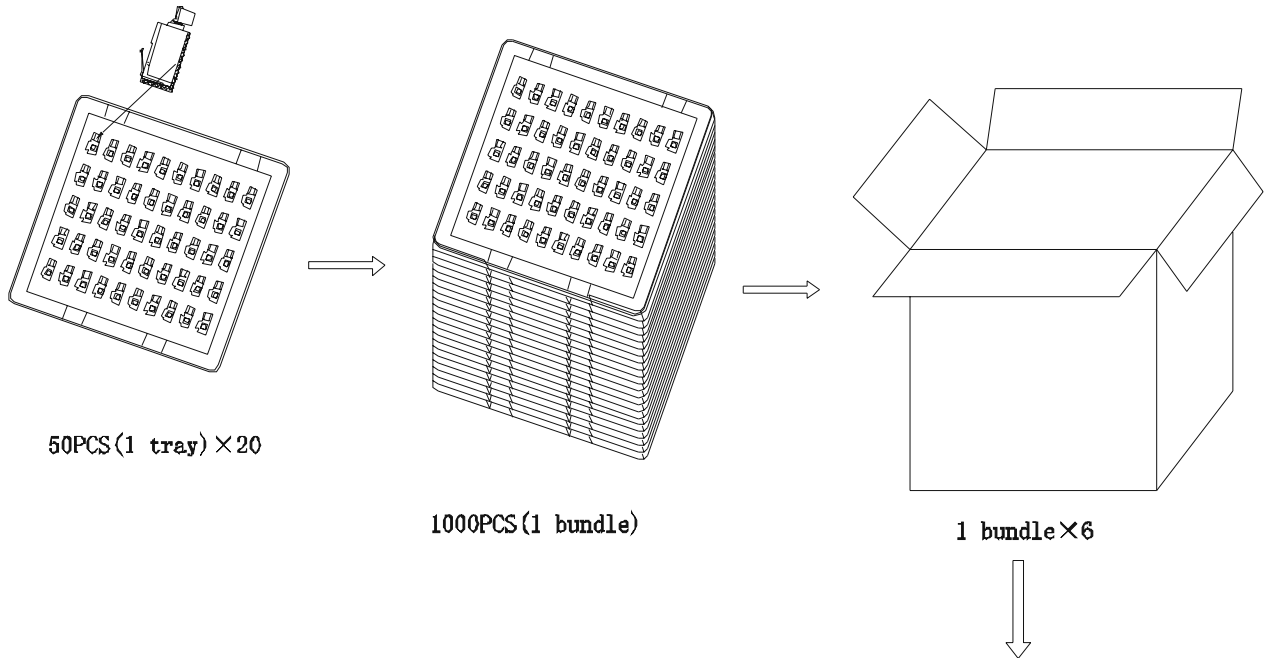
8-3 请在 6 个月内使用。在使用和打开马达外包装时请避免水气凝结。(Make arrangement to limit the storage period to 6 months or less. Condensation of atmosphere must be avoided in motor usage or opening the packaging of the motor.)

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

**圆柱马达包装
Packaging drawing of cylindrical motor**

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.

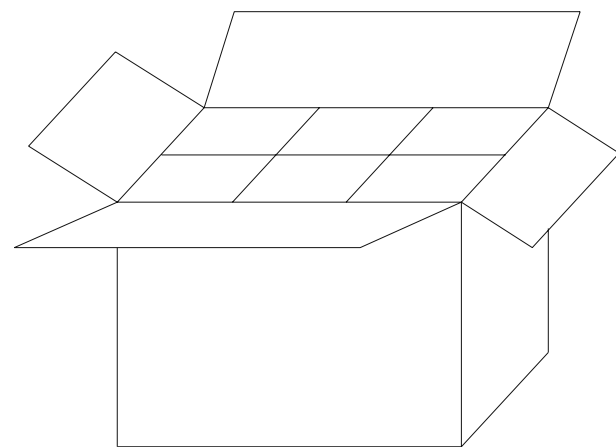
2. Test Methods:

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

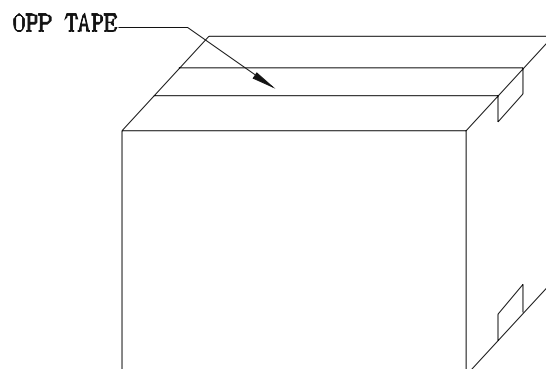
- (1) 6 faces: First dropping with two biggest faces, then dropping with another two middle faces, at last dropping with two smallest faces, once per face, total 6 faces.
- (2) 3 aris: Choose any 3 aris which make up of the same the angle, the dropping sequence is the longest aris, middle aris, shortest 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

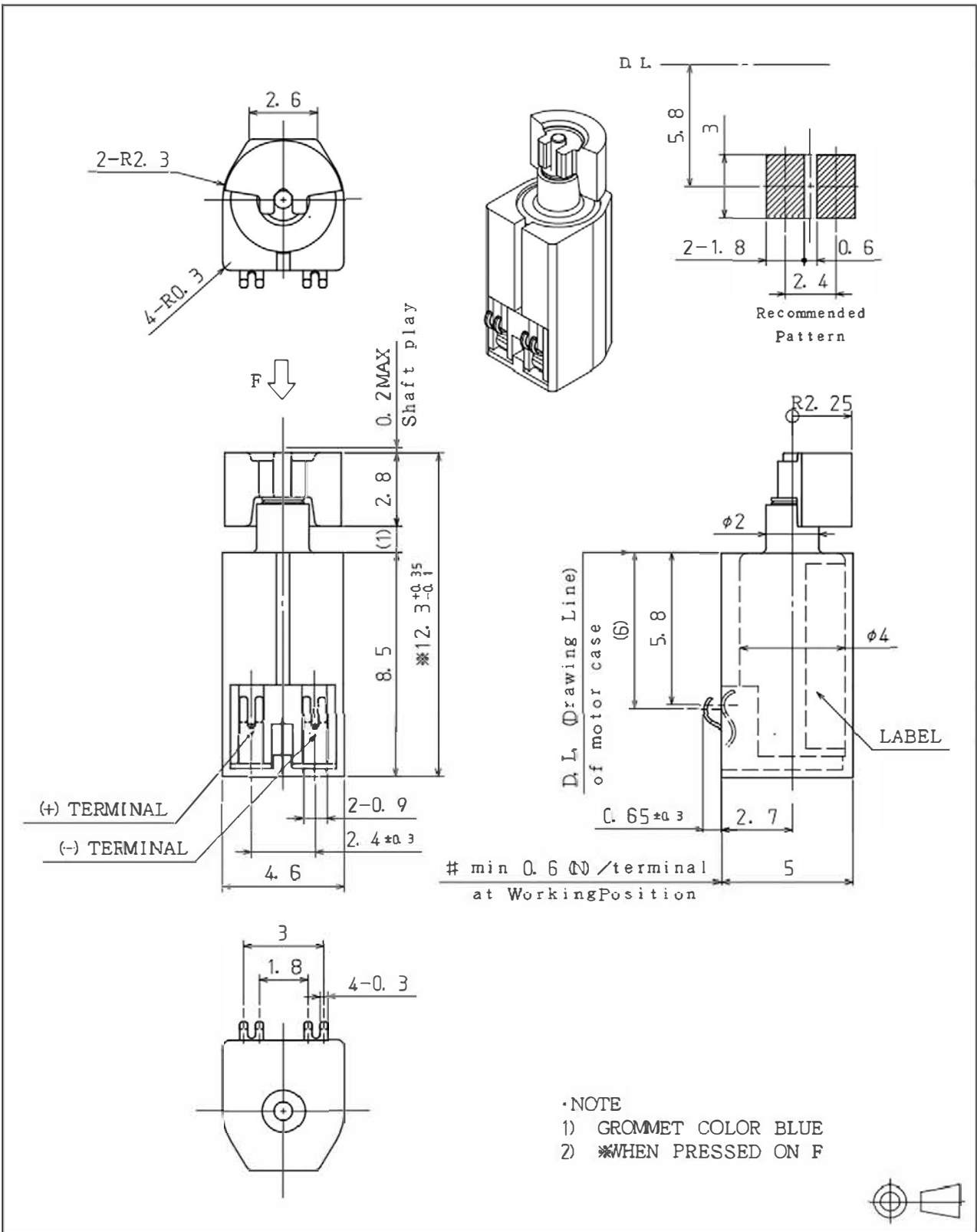
After drop test, no evidence of damage on the appearance and performance.


Remarks:

6000PCS/CTN: 52cm × 35cm × 24.5cm



10. 外形图/Outline Drawing



·NOTE
 1) GROMMET COLOR BLUE
 2) *WHEN PRESSED ON F

					TOL.	± 0.2	MAT.	—	SCALE	5:1
					ANGLES	± —	FINISH	—	UNIT	mm
					APPD.	CHK.	DSGN.	TYPE		
					—	—	—	TITLE	VIBRATION MOTOR	
					DATE			DWG. No.		
SYM.	DATE	REVISION	DRW.	CHK.						

