



深圳市韩下电子有限公司

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承 认 书

SPECIFICATION FOR APPROVAL

客 户 Customer:

产品名称 Project:

微动开关

规格型号 Part No:

HX DM1-3P 1A

贵公司承认印 Approval signatures

料 号/Part No.	签 章/Signatures

日期 Date:

拟制/Drawn	黄彬	
审核/Check	张伟	
批准/Approved	罗小春	



规格书 SPECIFICATION

1. 一般特性 General Characteristics

- 1.1 额定值(Rating Value) : AC 125V 1A
- 1.2 工作温度(Work Temperature Range): $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$
- 1.3 存贮温度(Store Temperature Range): $-20^{\circ}\text{C} \sim 80^{\circ}\text{C}$
- 1.4 正常测试条件(未有特殊说明量测在以下条件进行):

General test condition (Tests and measurements shall be made under the following standard conditions unless otherwise specified):

正常温度: $5^{\circ}\text{C} \sim 35^{\circ}\text{C}$ 相对湿度: 45%~85% RH 气压: 8,600~10,600 帕
 Temperature: $5^{\circ}\text{C} \sim 35^{\circ}\text{C}$ Relative humidity: 45%~85% Air pressure: 8,600~10,600 pa

2. 产品外观及尺寸要求 Appearance & Dimension Requirement

- 2.1 产品外形结构紧凑,无配合不良.
The structure of product is compact, and assembly of parts has no badness.
- 2.2 产品塑胶部件无严重缩水、披锋、欠注、斑点、破损或变形现象.
The plastic parts of product have no serious defects such as very serious shrink, scarcity, fleck, disrepair, transmutation, etc.
- 2.3 产品引脚和外壳无严重氧化、脏污、变形、毛刺或电镀不良.
Lead feet and shell have no serious defects such as oxidation, smudge, disrepair, burr, defects on plating.
- 2.4 开关操作顺畅,节奏感强,无明显卡塞现象.
Operating switch is unhindered, rhythmmed, and there is not palpable clag.
- 2.5 产品结构及尺寸参见产品规格图纸.
Construction and dimensions: Refer to individual product drawing.

3. 电气特性 Electronic Characteristics

No.	项目 Item	测试方法 Test Method	测试设备 Equipment	特性要求 Requirements
3.1	接触电阻 Contact Resistance	在低电流($\leq 100\text{mA}$)条件下测试. Measured at low current (100mA or less).	低电阻测试仪 Low Resistance Meter	$500\text{m}\Omega$ MAX
3.2	绝缘阻抗 Insulation Resistance	测试相邻引脚之间,引脚与外壳之间的绝缘阻抗. Measurement shall be made between adjacent terminals, between terminal and shell.	绝缘测试机 Insulation Resistance Tester	$100\text{M}\Omega$ MIN
3.3	耐压测试 Dielectric Withstand Voltage	输入一定电压(50-60Hz,电压值AC 500V)1分钟,漏电流为2mA,测试邻近端子间. Apply certain voltage (50-60Hz, AC 500V) for 1 minute between adjacent contacts of the connector with 2mA leakage sensitivity.	耐压测试机 Puncture Tester	没有绝缘破坏. 电弧等异常. No arcing, break down and damaging insulation.

4. 机械特性 Mechanical Characteristics

No.	项 目 Item	测 试 方 法 Test Method	测 试 设 备 Equipment	特 性 要 求 Requirements
4.1	操 作 力 Operation Force	<p>逐渐施力操作开关按键，测量开关到达全部工作行程时所需的最大操作力度。</p> <p>Operate the keystroke of the switch and then increase press strength gradually, Measured maximum operation force while the travel of the switch is full.</p>	测力计 Force Gauge	30±15gf

5. 可靠性测试 Reliability trial

No.	项 目 Item	测 试 方 法 Test Method	测 试 设 备 Equipment	特 性 要 求 Requirements
5.1	可焊性试验 Solder ability Test	<p>端子顶部被浸入焊锡炉中，温度为 235±5℃，时间 5±1 秒。</p> <p>The top of the terminals shall be dipped in the solder bath at 235±5℃ for 5±1 seconds.</p>	控温锡炉 Solder Stove	<p>引脚至少 95%上锡。</p> <p>Ninety-five percent of terminals shall be dipped.</p>
5.2	寿命试验 Operation Life	<p>开关在寿命试验设备上以约 90 次 / 分的速度连续被操作，具体次数见规格图示。</p> <p>Switch shall be operated continuously at about 90 cycles /min without load.</p>	寿命试验机 Life Tester	<p>寿命:100000 次</p> <p>实验后:</p> <p>绝缘电阻: 10M Ω Min</p> <p>操作力: 变化在 ±50%内开关外观及结构无损坏。</p> <p>Life test:100000 cycles</p> <p>After test, Insulation resistance:10M Ω Min</p> <p>Operating force: Change should be within ±50% of specified value.</p> <p>No abnormalities shall be recognized in appearance and construction.</p>
5.3	耐焊接热 Resistance to Soldering heat	<p>端子焊接部分浸入焊炉，焊炉温度 235± 5℃，焊接时间 5±1 秒。(焊接时不可于端子施加外力)。</p> <p>Terminals shall be dipped in the solder bath at 235±5℃ for 5±1 seconds without additional force for terminals.</p>	控温锡炉 Solder Stove	<p>本体无变形，能满足于机械、电气性能。</p> <p>Appearance should be not damaged, electrical and mechanical characteristics shall be satisfied.</p>

5. 可靠性测试 Reliability trial

No.	项 目 Item	测 试 方 法 Test Method	测 试 设 备 Equipment	特 性 要 求 Requirements
5.4	耐高温测试 Resistance to Heat Test	<p>放置在温度 $80\pm 2^{\circ}\text{C}$ 环境中 96 小时后，再置于正常条件下 1 小时后测定。</p> <p>The switch shall be stored at a temperature of $80\pm 2^{\circ}\text{C}$ for 96 hours, Measurements shall be made after it be subjected to the standard conditions for 1 hour.</p>	高低温试验机 High & Low Temperature Tester	<p>外观，机械及电气性能均符合要求。</p> <p>Appearance, electrical and mechanical characteristics shall be satisfied.</p>
5.5	耐低温测试 Resistance to Cold Test	<p>放置在温度 $-20\pm 2^{\circ}\text{C}$ 环境中 96 小时后，再置于正常条件下 1 小时后测定。</p> <p>The switch shall be stored at a temperature of $-20\pm 2^{\circ}\text{C}$ for 96 hours, Measurements shall be made after it be subjected to the standard conditions for 1 hour.</p>	高低温试验机 High & Low Temperature Tester	<p>外观，机械及电气性能均符合要求。</p> <p>Appearance, electrical and mechanical characteristics shall be satisfied.</p>
5.6	耐湿性测试 Resistance to Humidity Test	<p>放置于温度 $40\pm 2^{\circ}\text{C}$，相对湿度为 90~96% 环境中 96 小时后，再置于正常条件下 1 小时后测定(注意要擦去水滴)。</p> <p>The switch shall be stored at a temperature of $40\pm 2^{\circ}\text{C}$, relative humidity 90~96% for 96 hours, Measurements shall be made after it be subjected to the standard conditions for 1 hour (Wipe out water drip).</p>	恒温恒湿箱 Temperature & Humidity Tester Chamber	<p>外观，机械及电气性能均符合要求。</p> <p>Appearance, electrical and mechanical characteristics shall be satisfied.</p>
5.7	盐雾实验 Salt Mist Test	<p>试件在下述实验后测量：</p> <ol style="list-style-type: none"> 1. 温度：$35\pm 5^{\circ}\text{C}$ 2. 盐溶液浓度：$5\pm 1\%$（质量百分比）， 3. 试验时间：24 小时， 4. 试验后，将盐沉积物用水冲掉。 <p>The switch shall be checked after following test:</p> <ol style="list-style-type: none"> 1. Temperature: $35\pm 5^{\circ}\text{C}$ 2. Salt solution: $5\pm 1\%$(Solids by mass) 3. Duration: 24 hours, 4. After immersing, salt deposit shall be removed by running water. 	盐雾试验机 Salt Spray Tester	<p>在金属件上没有严重腐蚀斑点。</p> <p>No remarkable corrosion shall be recognized in metal parts.</p>

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