



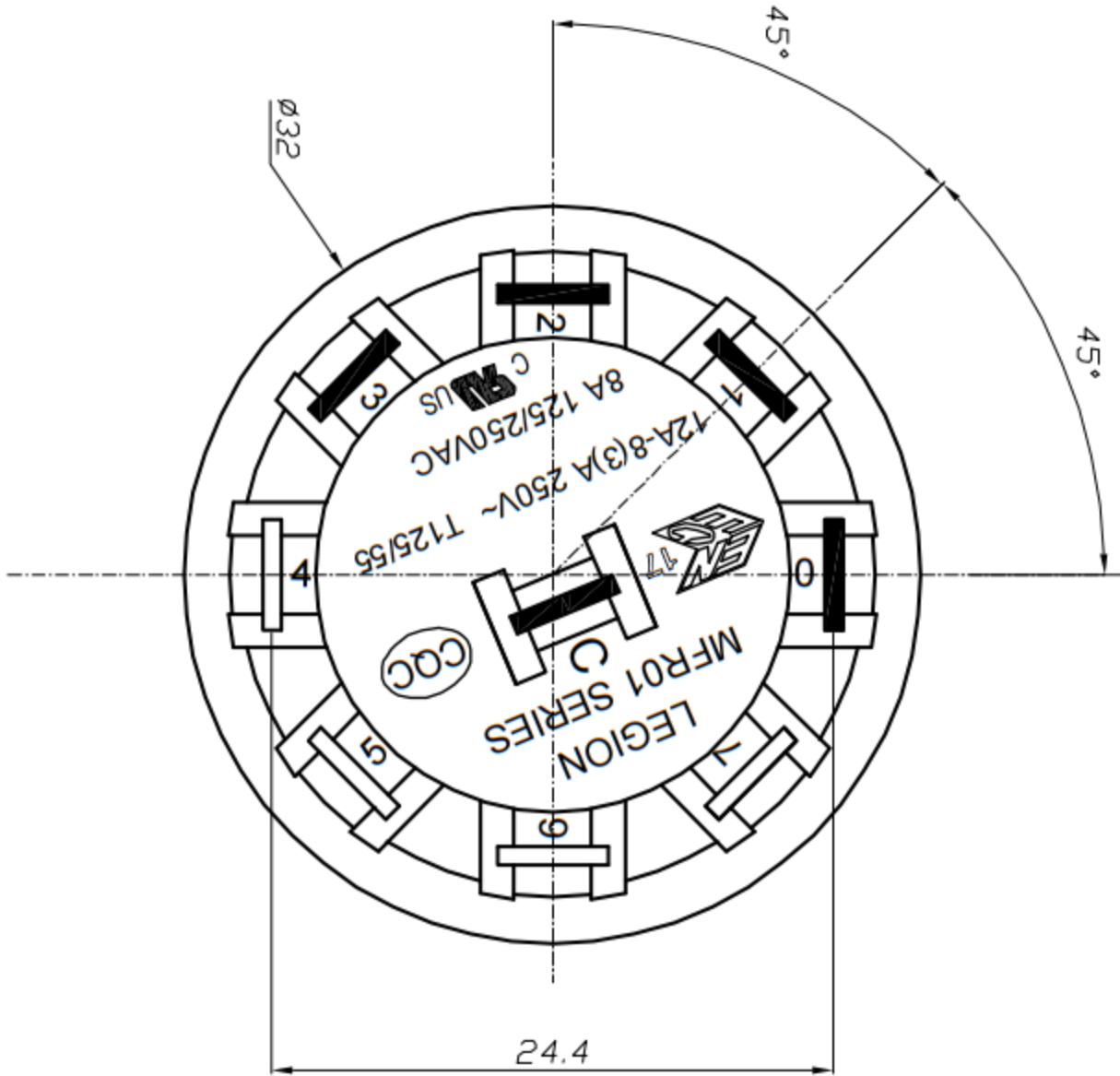
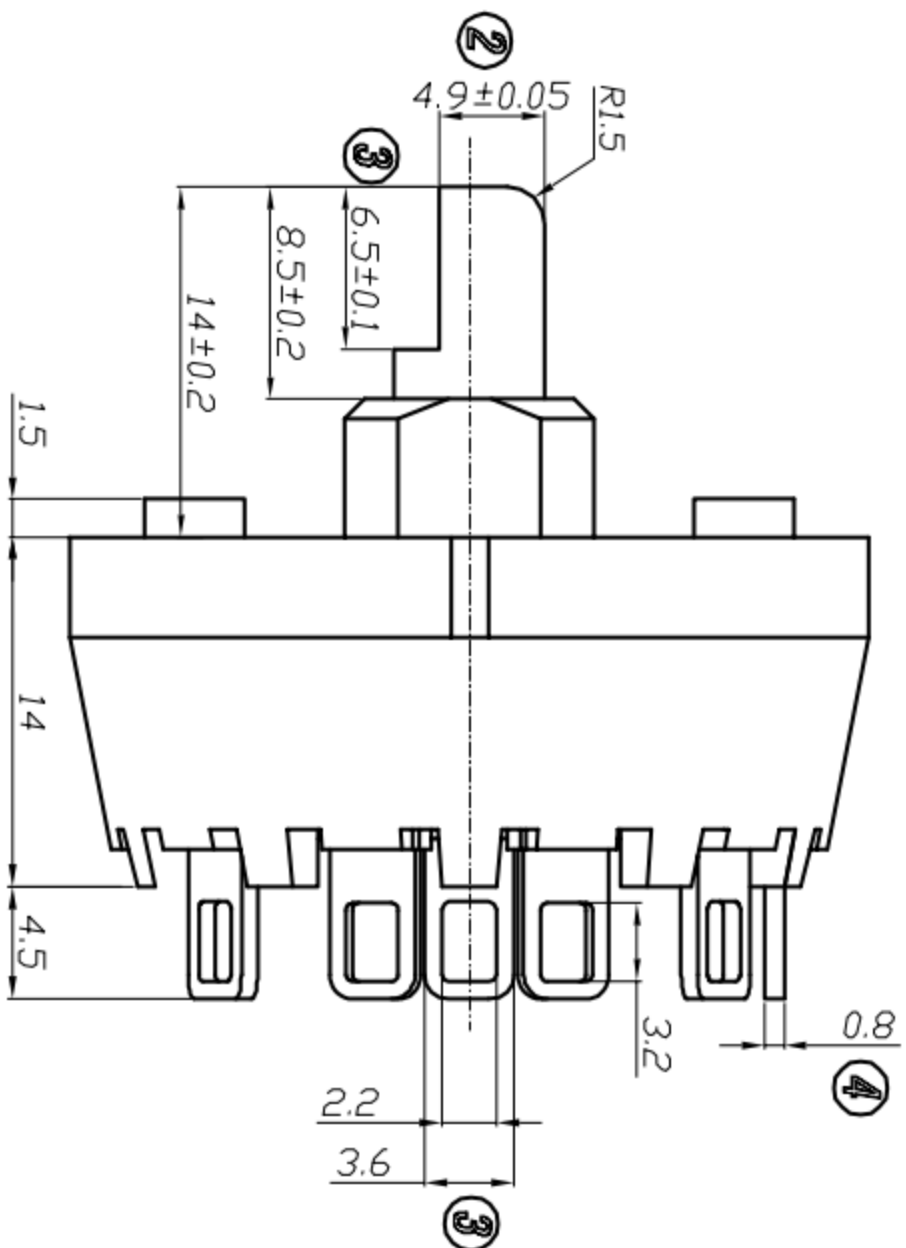
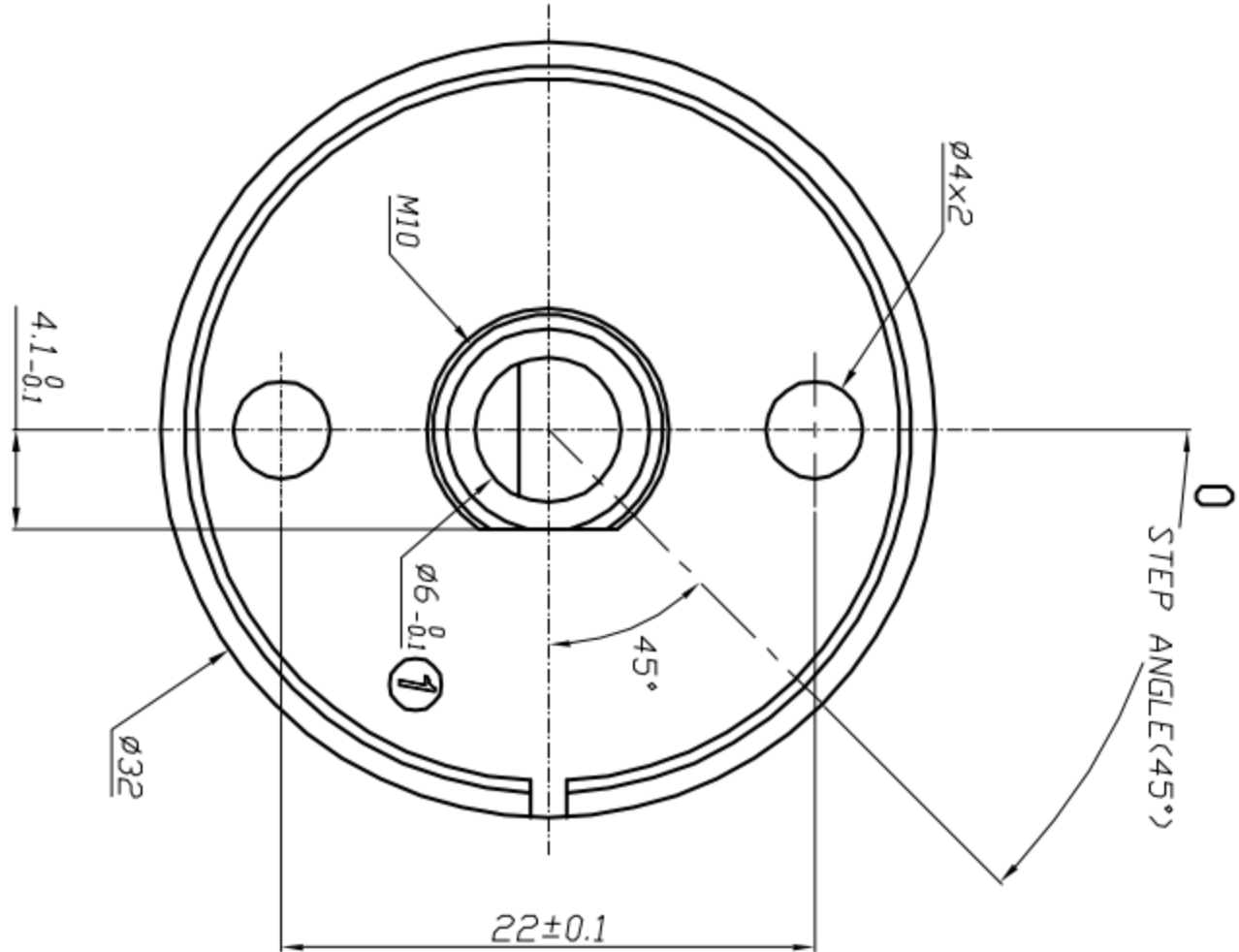
|               |        |                     |
|---------------|--------|---------------------|
| CUSTOMER NAME | 客户名称:  |                     |
| CUSTOMER NO.  | 客户编号:  |                     |
| SERIES        | 系 列:   | 电源旋转开关              |
| MODEL NO.     | 型 号:   | XB-MFR01-A2F03L1S-R |
| DRAWING NO.   | 图 形 号: | Power Rotary Switch |

依据和存档之用，多谢合作！

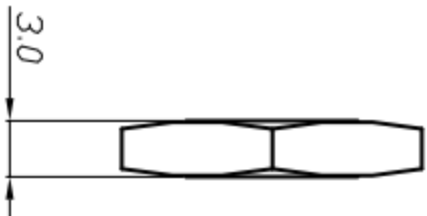
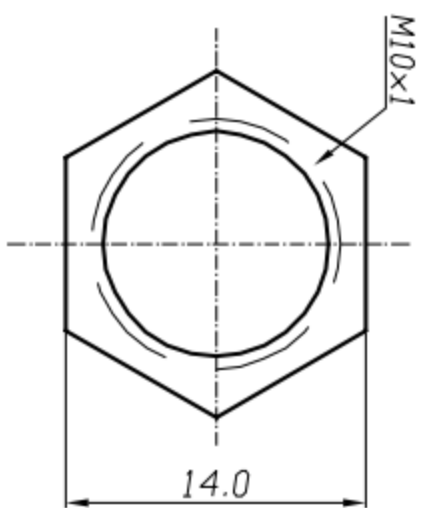
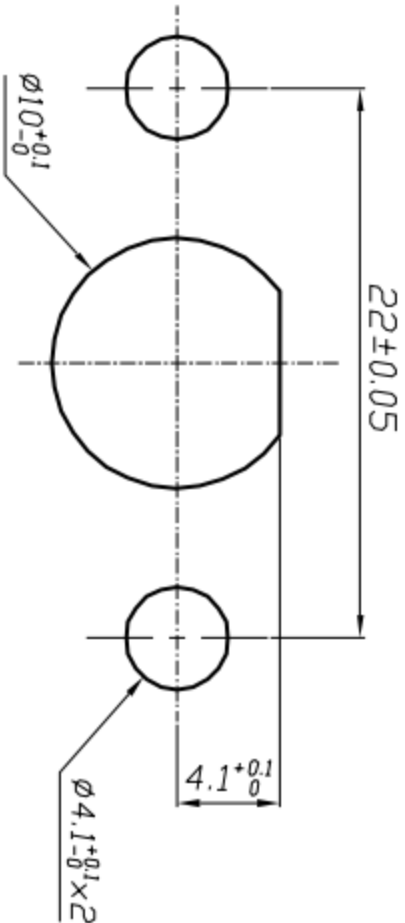
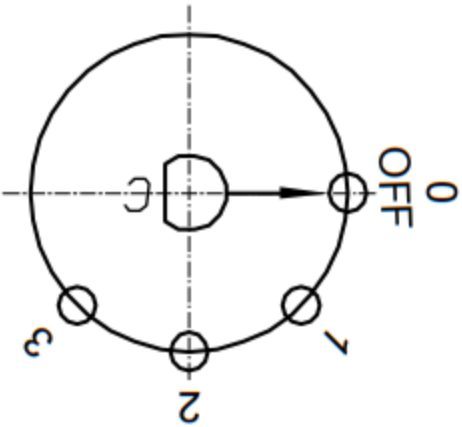
|                                                                          |  |  |                                                                          |  |  |
|--------------------------------------------------------------------------|--|--|--------------------------------------------------------------------------|--|--|
| APPROVE 接受                                                               |  |  | NOT APPROVE 不接受                                                          |  |  |
| <div style="border: 1px solid black; height: 100px; width: 100%;"></div> |  |  | <div style="border: 1px solid black; height: 100px; width: 100%;"></div> |  |  |
|                                                                          |  |  |                                                                          |  |  |
| SIGNATURE 签署                                                             |  |  | STAMP 盖章                                                                 |  |  |
| DATE 日期                                                                  |  |  |                                                                          |  |  |

|                                                       |                                                       |                                                      |                                                      |
|-------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| PREPARED BY.制表人                                       | CHECKED BY.校对                                         | APPROVED BY.审核                                       | APPROVAL BY. 批准                                      |
| <div>研发部</div> <div>戴海明</div> <div>2022. 06. 08</div> | <div>品质部</div> <div>黄自清</div> <div>2022. 06. 08</div> | <div>工程部</div> <div>庞军</div> <div>2022. 06. 08</div> | <div>总经办</div> <div>吴量</div> <div>2022. 06. 08</div> |

Quality core! Afterburner for Made in China!



- 1. 额定值 RATING: 8A 125/250VAC(UL, C-UL)
  - 12A-8(3)A 250V~ μ T125/55 (ENEC-17, CQC, CB)
  - 2. 功能 FUNCTIONAL: 见电路图 SEE CIRCUIT DESCRIPTION
  - 3. 接触电阻 CONTACT RESISTANCE: <50mΩ
  - 4. 绝缘电阻 INSULATION RESISTANCE: >100MΩ (500VDC BETWEEN OPEN CONTACTS)
  - 5. 耐电压 DIELECTRIC STRENGTH: >1500VAC 0.5mA 1 MINUTE
  - 6. 所有部件均使用环保材料
- ALL MATERIALS USE IN CONFORMITY WITH THE ROHS DIRECTIVE



螺母配件

CIRCUIT DIAGRAM

PANEL CUTOUT

|     |         |                 |   |                 |                               |       |            |                               |                          |           |            |
|-----|---------|-----------------|---|-----------------|-------------------------------|-------|------------|-------------------------------|--------------------------|-----------|------------|
| 8   |         |                 |   |                 | TOLERANCE<br>UNLESS SPECIFIED |       |            |                               | 初 版                      |           |            |
| 7   |         |                 |   |                 |                               |       |            |                               |                          |           |            |
| 6   |         |                 |   |                 | WITHIN 1.5mm : ±0.1mm         | A     | 2012-9-25  |                               | DESCRIPTIONS OF REVISION |           | ZENQ. CHEN |
| 5   |         |                 |   |                 | OVER 1.5mm : ±0.2mm           | ISSUE | DATE       |                               |                          |           | APPD.      |
| 4   | CONTACT | SUS             | 1 | Ag CLAD         | TITLE : Encoder Switch        |       | UNIT : mm  | DRWG NO.: XB-MFR01-A2F03L1S-R |                          |           |            |
| 3   | CASE    | PPA/BRASS SRTIP | 1 | BLACK/Ag PLATED | MODEL:                        |       | SCALE: 5:1 | DWN.                          | JUN. YANG                | 2012-9-25 |            |
| 2   | COVER   | STEEL STRIP     | 1 | Ni PLATED       |                               |       |            | CHK'D                         | DONG. PANG               | 2012-9-25 |            |
| 1   | KNOB    | PPA             | 1 | BLACK           |                               |       |            | APPD.                         | ZENQ. CHEN               | 2012-9-25 |            |
| NO. | PARTS   | MATERIALS       |   | Q'TY            | FINISH                        |       |            |                               |                          |           |            |



东莞市溪榜电子有限公司  
DONG GUAN XI BANG ELECTRONI CS CO., LTD.



东莞市溪榜电子有限公司  
DONG GUAN XI BANG ELECTRONICS CO., LTD  
ROTARY POWER SWITCH TEST  
SPECIFICATION  
旋转式开关测试规格  
MODEL NO. XB-MFR01SERIES

**1. Application temperature range (适用温度范围): 0~125℃**

**2. Test condition (测试环境):**

The switch is tested at a temperature range of 5~35℃ and relative humidity range of 45~85%.

\* 环境温度范围 : 5 ~ 35℃

\* 相对湿度范围 : 45 ~ 85%

**3. Rating (额定):**

8A 125/250VAC FOR UL/C-UL

12A-8(3)A 250V~ μT125/55 for EUROPEAN SAFETY (ENEC)

**4. Electric performance (电气性能):**

**4-1. Contact resistance (接触电阻):**

Measured by fall-of-potential method at dc 0.2v/1a should be less than 50mΩ initial.

\* 以微电阻计在 **DC 0.2V/1A** 的测试规格值下, 接触电阻值应该小于 **50mΩ**

**4-2. Insulation resistance (绝缘电阻):**

Measured with dc 500v applied between terminals of open contacts and between terminal of opposite polarity or metal part, should be more than 100MΩ.

\* 绝缘电阻计于 **DC 500V 设定值**下量测于开路的端子或不同回路的端子, 其绝缘电阻值应该大于 **100MΩ**.

**4-3. Dielectric strength (耐电压):**

The switch shall withstand without breakdown a potential of ac 1500v 0.5mA for 1 minute between terminals of open contacts and terminals of opposite polarity or metal part.

\* 不同极的两支端子开路时, 必须通过一分钟 0.5mA 1500VAC 的耐电压.

\* 端子与其他零件, 必须通过一分钟 0.5mA 1500VAC 的耐电压.

**5. Overload and endurance test (过负载与寿命测试):**

UL & CSA STANDARD (北美标准)

RATING: 8A 125/250VAC

| CONDITION<br>测试状况 | VOLTAGE<br>测试电压 | CURRENT<br>测试电流 | P.F.<br>功率因素 | OPERATION<br>SPEED<br>操作速率        | NUMBER OF<br>OPERATION<br>操作次数 | SAFETY<br>APPLICATION<br>适用安规 |
|-------------------|-----------------|-----------------|--------------|-----------------------------------|--------------------------------|-------------------------------|
| OVERLOAD<br>过负载   | 125VAC          | 12A             | 0.75~0.8     | 8 CYCLES PER<br>MINUTE<br>每分钟 8 次 | 50<br>CYCLES<br>50 次           | UL/C-UL<br>(UL1054)           |
|                   | 250VAC          |                 |              |                                   |                                |                               |
| ENDURANCE<br>寿命测试 | 125VAC          | 8A              | 0.75~0.8     | 8 CYCLES PER<br>MINUTE<br>每分钟 8 次 | 6000<br>CYCLES<br>6000 次       | UL/C-UL<br>(UL1054)           |
|                   | 250VAC          |                 |              |                                   |                                |                               |

EUROPE STANDARD (欧洲安规)

RATING: 12A-8(3)A 250V~ $\mu$ T125/55

| INCREASED VOLTAGE TEST AT ACCELERATED SPEED (增加伏特数的加速测试) |                 |                 |              |                                        |                                |                               |
|----------------------------------------------------------|-----------------|-----------------|--------------|----------------------------------------|--------------------------------|-------------------------------|
| CONDITION<br>测试状况                                        | VOLTAGE<br>测试电压 | CURRENT<br>测试电流 | P.F.<br>功率因素 | OPERATION<br>SPEED<br>操作速率             | NUMBER OF<br>OPERATION<br>操作次数 | SAFETY<br>APPLICATION<br>适用安规 |
| MAKING<br>闭路                                             | 287.5VAC        | 18A             | 0.6          | 15 CYCLES<br>PER<br>MINUTE<br>每分钟 15 次 | 100<br>CYCLES<br>100 次         | ENEC<br>(IEC61058)            |
| BREAKING<br>开路                                           |                 | 12A             | 0.95         |                                        |                                |                               |
| TEST AT LOW SPEED (低速测试)                                 |                 |                 |              |                                        |                                |                               |
| MAKING<br>闭路                                             | 250VAC          | 18A             | 0.6          | 15 CYCLES<br>PER<br>MINUTE<br>每分钟 15 次 | 100<br>CYCLES<br>100 次         | ENEC<br>(IEC61058)            |
| BREAKING<br>开路                                           |                 | 12A             | 0.95         |                                        |                                |                               |
| TEST AT ACCELERATED SPEED (加速测试)                         |                 |                 |              |                                        |                                |                               |
| MAKING<br>闭路                                             | 250VAC          | 18A             | 0.6          | 15 CYCLES<br>PER<br>MINUTE<br>每分钟 15 次 | 9800<br>CYCLES<br>9800 次       | ENEC<br>(IEC61058)            |
| BREAKING<br>开路                                           |                 | 12A             | 0.95         |                                        |                                |                               |

#### 6. Temperature test (温升试验):

The temperature test should be taken after endurance test with its rated current and voltage.

The temperature rising shall not be more than 55°C.

\* 温升测试应该于寿命测试结束后随即测试, 以同样的电流与电压量测温升, 温升值必须低于摄氏 55°.

## 7. Mechanical performance (机械性能):

### 7-1. OPERATION FORCE (操作力量):

NON—PULSE(不回弹): 1000gf ±300gf      PULSE(回弹): 2000gf±500gf

### 7-2. Actuator strength (柄的强度):

A static load of 5 kgf being applied in the operation direction for 15 seconds. There shall not be any troubles as deviation and bending.

\* 以 5Kgf 的力量, 施压 15 秒. 不可以有偏向与弯曲的情形.

### 7-3. Falling test (落下实验):

Switch be falling down free from 1 meter high. Terminals maybe have bent and deviation after test. But testing object should not have mechanical and electrical damage.

- 将开关由一公尺的高度自由落下, 端子也许已经弯曲与偏向, 但是开关本体不可以有机构与电气性能的破坏.

### 7-4. SOLDERING(焊锡特性):

IMMERSE THE TERMINAL LEADS INTO MOLTEN SOLDER AT TEMPERATURE OF  $230\pm5^{\circ}\text{C}$  FOR  $3\pm0.5$  SECONDS. MORE THAN 75% OF PART IMMERSED SHOULD BE COVERED WITH SOLDER.

\* 端子浸入  $230\pm5^{\circ}\text{C}$  温度溶化的焊锡中  $3\pm0.5$  秒, 75%以上的部分应该被焊锡包覆.

### 7-5. TERMINAL STRENGTH (端子强度):

A STATIC FORCE OF **2.27 KGF** BEING APPLIED IN ONE DIRECTION ON THE TIP OF THE TERMINAL FOR 1 MINUTE. THE TERMINAL MAY BE DEFORMED, BUT SHALL NOT SUSTAIN ANY TROUBLE AS DEVIATION AND BREAKING OF TERMINAL, AND BREAKING OF INSULATION MATERIAL.

\* 施以固定 2.27Kgf 的力量于同一方向在端子的顶端一分钟, 端子允许变型, 但是不可以有任何位移(偏向)与端子断裂及绝缘材料的破裂.

### 7-6. SOLDERING HEAT RESISTANCE OF BASE (基座抗热性):

TEMPERATURE AND DURATION OF DIPPING 焊锡温度与持续时间

| TYPE OF TERMINAL<br>端子型式            | TEMPERATURE<br>温度         | DIPPING TIME<br>焊锡时间 |
|-------------------------------------|---------------------------|----------------------|
| TERMINAL FOR PCB WIRING<br>* PCB 端子 | $260\pm5^{\circ}\text{C}$ | 5 SECONDS Max.       |
| TERMINAL FOR LEAD WIRING<br>* 焊线端子  | $350\pm5^{\circ}\text{C}$ | 3 SECONDS Max.       |

THERE SHALL NOT BE EXTREME DEFORMING IN APPEARANCE.

ELECTRICAL PERFORMANCE OF THE ABOVE ITEM 3 SHALL BE ASSURED.

\* 基座不可以有极度变形状况发生.

\* 上文第 3 项的电子性能应该被保证.

## 8. Step angle (切换角度)

36°、45°



## 9. NOTICE(开关使用注意事项):

9-1. When welding, any pressure applied to the terminals may cause conditions as looseness, deformation of terminals and electrical degradations.

给端子进行焊接时，如果在端子上施加负荷，因条件不同会有松动、变形、及电特性退化的可能，请在使用时注意。

9-2. When welding, water-soluble flux may causes corrosion to switches.

For second time welding job, please proceed welding after it is recovered to room temperature.

进行二次焊接时，请在第一次焊接部份恢复到常温之后再进行。连续加热可能使外围部变形、端子松动，脱落及电特性降低。

9-3. Continuous heating may cause loose off, deformation of terminals and electrical degradations.

焊接时，水溶剂助焊剂有可能腐蚀开关的可能，请避免使用。

9-4. Do not clean it with water.

不能用水清洗

9-5. After final assembly as a completed product, please make sure that there's no erosion gas/materials released from peripheral parts/materials as it may causes contact failure of switches.

如果使用开关的整机的周边材料产生腐蚀性气体，有可能造成接触不良等现象，所以请事先进行充分确认。

9-6. Storage,

保管方法

a. Keep it storage under normal temperature, humidity and prevent from direct sunshine, erosion gas. Products sure be used within 6 months.

产品以交货时的状态在常温，常湿，不受直射阳光照射，不产生腐蚀性气体的场所保管，自交货起 6 个月以内为限度，请尽可能快的使用。

b. For small quantity which taken from main packages, please keep it in plastic bags and sealed. And have it storage under up-mentioned environment.

开封后用塑料袋与外界气体隔断，请在与上述相同环境下保管，并尽快使用。

c. Do not pile up package more than 2 levels.

请不要过分地堆积。

| 修订日期<br>REVISED<br>DATE | 修订内容<br>DESCRIPTION                | 修订者<br>REVISED<br>BY | 文件编号<br>FILE NO. | 制 定<br>WRITE<br>BY | 审 核<br>CHECKED<br>BY | 核 准<br>APPROVED<br>BY |
|-------------------------|------------------------------------|----------------------|------------------|--------------------|----------------------|-----------------------|
| 2023/6/6                | 修改端子焊线时间                           | 唐彪                   | SPEC-006         | 阮霓展                | 路建宏                  | 高鹏                    |
| 2023/6/6                | 将操作力由 1600 ±500 gf 修改为 1800 ±300gf | 易雅琦                  | 版 次<br>VERSION   |                    |                      |                       |
| 2023/6/6                | 将 4.1 接触电阻 20mΩ修改为 50mΩ            | 唐彪                   | B 版 1 次          |                    |                      |                       |

website: [www.alpsr.cn](http://www.alpsr.cn) [www.alpsr.com](http://www.alpsr.com) [www.xbswitch.com](http://www.xbswitch.com) [www.gdxjdz.com](http://www.gdxjdz.com)

|                   |                  |                  |               |    |    |
|-------------------|------------------|------------------|---------------|----|----|
| 名称:XB-MFR01系列命名规则 | 制订日期:2022. 4. 18 | 修改日期:2022. 4. 18 | 文件编码: XBMFR11 | 版本 | F1 |
|-------------------|------------------|------------------|---------------|----|----|



XB-MFR01

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R

产品系列

Series

| 功能类型                                                                         | 电路                                            | 柄的形状                                                                              | 底座类型                                                                        | 端子类型                                                                                           | 其他配件                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 特殊说明                                                                                                                                                                |
|------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div> <div>Function Type</div> <div>起励料从0,无回弹料</div> </div> <div>F</div>     | <div> <div>Circuit</div> <div>01</div> </div> | <div> <div>柄的形状</div> <div>适用于e32外径</div> </div> <div> <div>适用于e29外径</div> </div> | <div> <div>Housing Type</div> <div>e32外径 45° 带耳朵</div> </div> <div>A</div>  | <div> <div>Terminal type</div> <div>适用于e32 30°</div> </div> <div> <div>适用于e29 30°</div> </div> | <div>六角螺母 T3.0</div> <div>P 六角螺母 T1.8</div> <div>R 六角螺母 T2.0</div> <div>Q 六角螺母 T2.4</div> <div>N 无六角螺母</div> <div>W L140*4-L145</div> <div>Y L168+L80+L110+L45</div> <div>V 螺母+焊线+二极管</div> <div>螺母 L168+L80+L120+L45</div> <div>G 螺母+焊线+二极管</div> <div>焊线 L168+L80+L120+L45</div> <div>A L45</div> <div>B 螺母+焊线+二极管</div> <div>焊线 L183+L95+L120+L45</div> <div>C 螺母+焊线+二极管</div> <div>焊线+套管 L168+L80+L120+L45</div> <div>D 六角螺母 T1.8</div> <div>E 焊线1条+RTM2开关</div> <div>F 焊线3条+RTM2开关</div> | <div>R 常规</div> <div>N 不点红胶</div> <div>H 附带帽子</div> <div>F <math>\varnothing 0.95</math>线径弹簧</div> <div>G 附带旋扭帽</div> <div>A 扭力为1000kg</div> <div>B 不点红胶不点AA胶</div> |
| <div> <div>Function Type</div> <div>起励料从0,左边带回弹料</div> </div> <div>M</div>   | <div> <div>Circuit</div> <div>02</div> </div> | <div> <div>柄的形状</div> <div>适用于e32外径</div> </div> <div> <div>适用于e29外径</div> </div> | <div> <div>Housing Type</div> <div>e32外径 36° /45°</div> </div> <div>A</div> | <div> <div>Terminal type</div> <div>适用于e32 30°</div> </div> <div> <div>适用于e29 30°</div> </div> | <div>六角螺母 T3.0</div> <div>P 六角螺母 T1.8</div> <div>R 六角螺母 T2.0</div> <div>Q 六角螺母 T2.4</div> <div>N 无六角螺母</div> <div>W L140*4-L145</div> <div>Y L168+L80+L110+L45</div> <div>V 螺母+焊线+二极管</div> <div>螺母 L168+L80+L120+L45</div> <div>G 螺母+焊线+二极管</div> <div>焊线 L168+L80+L120+L45</div> <div>A L45</div> <div>B 螺母+焊线+二极管</div> <div>焊线 L183+L95+L120+L45</div> <div>C 螺母+焊线+二极管</div> <div>焊线+套管 L168+L80+L120+L45</div> <div>D 六角螺母 T1.8</div> <div>E 焊线1条+RTM2开关</div> <div>F 焊线3条+RTM2开关</div> | <div>R 常规</div> <div>N 不点红胶</div> <div>H 附带帽子</div> <div>F <math>\varnothing 0.95</math>线径弹簧</div> <div>G 附带旋扭帽</div> <div>A 扭力为1000kg</div> <div>B 不点红胶不点AA胶</div> |
| <div> <div>Function Type</div> <div>起励料从0,右带回弹料</div> </div> <div>A</div>    | <div> <div>Circuit</div> <div>03</div> </div> | <div> <div>柄的形状</div> <div>适用于e32外径</div> </div> <div> <div>适用于e29外径</div> </div> | <div> <div>Housing Type</div> <div>e32外径 36° /45°</div> </div> <div>A</div> | <div> <div>Terminal type</div> <div>适用于e32 30°</div> </div> <div> <div>适用于e29 30°</div> </div> | <div>六角螺母 T3.0</div> <div>P 六角螺母 T1.8</div> <div>R 六角螺母 T2.0</div> <div>Q 六角螺母 T2.4</div> <div>N 无六角螺母</div> <div>W L140*4-L145</div> <div>Y L168+L80+L110+L45</div> <div>V 螺母+焊线+二极管</div> <div>螺母 L168+L80+L120+L45</div> <div>G 螺母+焊线+二极管</div> <div>焊线 L168+L80+L120+L45</div> <div>A L45</div> <div>B 螺母+焊线+二极管</div> <div>焊线 L183+L95+L120+L45</div> <div>C 螺母+焊线+二极管</div> <div>焊线+套管 L168+L80+L120+L45</div> <div>D 六角螺母 T1.8</div> <div>E 焊线1条+RTM2开关</div> <div>F 焊线3条+RTM2开关</div> | <div>R 常规</div> <div>N 不点红胶</div> <div>H 附带帽子</div> <div>F <math>\varnothing 0.95</math>线径弹簧</div> <div>G 附带旋扭帽</div> <div>A 扭力为1000kg</div> <div>B 不点红胶不点AA胶</div> |
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| <div> <div>Function Type</div> <div>起励料从3/7开始,无回弹料</div> </div> <div>G</div> | <div> <div>Circuit</div> <div>00</div> </div> | <div> <div>柄的形状</div> <div>适用于e32外径</div> </div> <div> <div>适用于e29外径</div> </div> | <div> <div>Housing Type</div> <div>e32外径 30° /45°</div> </div> <div>B</div> | <div> <div>Terminal type</div> <div>适用于e32 30°</div> </div> <div> <div>适用于e29 30°</div> </div> | <div>六角螺母 T3.0</div> <div>P 六角螺母 T1.8</div> <div>R 六角螺母 T2.0</div> <div>Q 六角螺母 T2.4</div> <div>N 无六角螺母</div> <div>W L140*4-L145</div> <div>Y L168+L80+L110+L45</div> <div>V 螺母+焊线+二极管</div> <div>螺母 L168+L80+L120+L45</div> <div>G 螺母+焊线+二极管</div> <div>焊线 L168+L80+L120+L45</div> <div>A L45</div> <div>B 螺母+焊线+二极管</div> <div>焊线 L183+L95+L120+L45</div> <div>C 螺母+焊线+二极管</div> <div>焊线+套管 L168+L80+L120+L45</div> <div>D 六角螺母 T1.8</div> <div>E 焊线1条+RTM2开关</div> <div>F 焊线3条+RTM2开关</div> | <div>R 常规</div> <div>N 不点红胶</div> <div>H 附带帽子</div> <div>F <math>\varnothing 0.95</math>线径弹簧</div> <div>G 附带旋扭帽</div> <div>A 扭力为1000kg</div> <div>B 不点红胶不点AA胶</div> |



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