

|                        |          |
|------------------------|----------|
| 品名/Product Description | RSC-112L |
| 零件编号/Part Number       |          |
| 客户名/Customer           |          |

|                   |  |
|-------------------|--|
| 盖章处/STAMPING AREA |  |
|                   |  |

| 发行批准 / Issued by |     |     |
|------------------|-----|-----|
| PD               | SM  | R&D |
| 王凤               | 余明亮 | 冯旭强 |

## 变更履历/HISTORY

[illegible]

| 继电器规格书<br>Relay SPECIFICATION |                       | 型号<br>TYPE                           | RSC-112L                  | 产品编号<br>Part Number        |  |
|-------------------------------|-----------------------|--------------------------------------|---------------------------|----------------------------|--|
| 1. <u>零件清单/PARTS LIST</u>     |                       |                                      |                           |                            |  |
| No.                           | 零件名<br>Part           | 材质<br>MATERIAL                       | 型号/处理方式<br>TYPE/TREATMENT | UL FILE No.<br>FLAME CLASS |  |
| 1                             | 骨架<br>Bobbin          | PBT                                  |                           |                            |  |
| 2                             | 外壳<br>Case            | DSM                                  |                           |                            |  |
| 3                             | 铁芯<br>Core            | 铁<br>Steel                           | 镀镍<br>Nickel Plated       |                            |  |
| 4                             | 轭铁<br>Yoke            | 铁<br>Steel                           | 镀镍<br>Nickel Plated       |                            |  |
| 5                             | 衔铁<br>Armature        | 铁<br>Steel                           | 镀镍<br>Nickel Plated       |                            |  |
| 6                             | M端子<br>M Terminal     | 铜合金<br>Cu Alloy                      |                           |                            |  |
| 7                             | C端子<br>C Terminal     | 铜合金<br>Cu Alloy                      |                           |                            |  |
| 8                             | B端子<br>B Terminal     | 铜合金<br>Cu Alloy                      |                           |                            |  |
| 9                             | B接点<br>B Contact      | 银合金<br>Ag Alloy                      |                           |                            |  |
| 10                            | 可动接点<br>C Contact     | 银合金<br>Ag Alloy                      |                           |                            |  |
| 11                            | M接点<br>M Contact      | 银合金<br>Ag Alloy                      |                           |                            |  |
| 12                            | 线圈端子<br>Coil Terminal | 铜合金<br>Cu Alloy                      | 镀锡<br>Solder Coated       |                            |  |
| 13                            | 线材<br>Wire            | 聚氨脂漆包圆铜线<br>Polyurethane copper wire | 3UEW 155(F Class)         |                            |  |
| 14                            | 胶水<br>Sealing Resin   | 环氧树脂<br>Epoxy                        |                           |                            |  |
|                               |                       |                                      |                           |                            |  |
|                               |                       |                                      |                           |                            |  |

PS No.:

PS-029-004

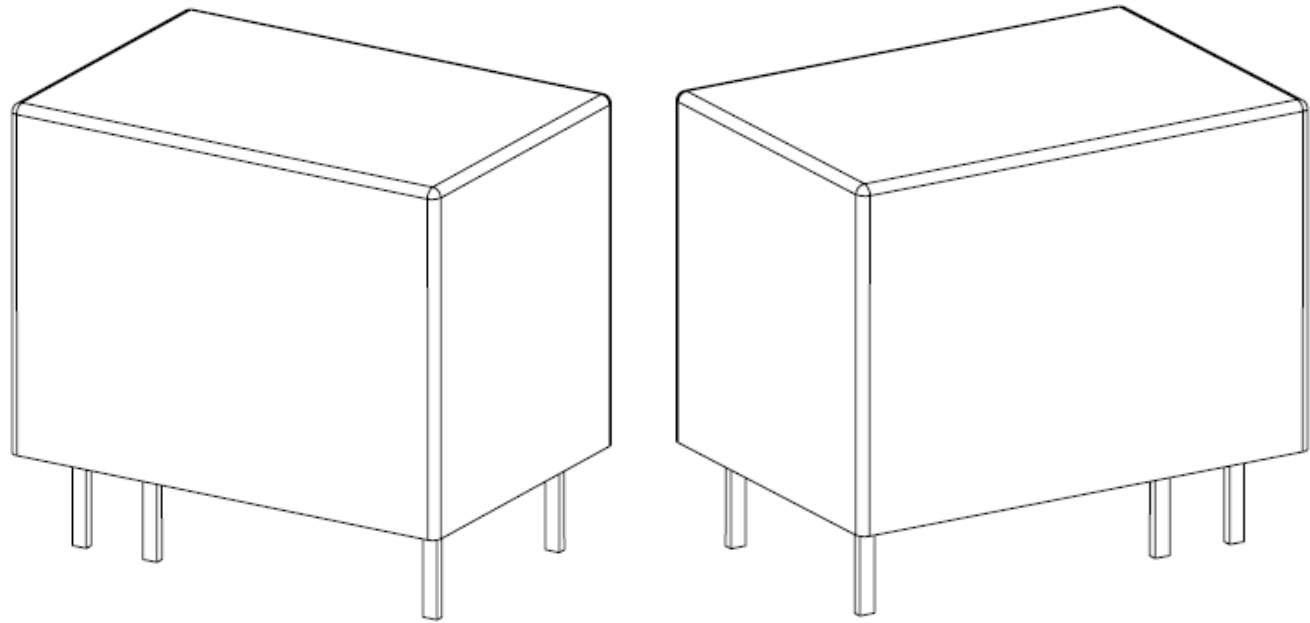
Ver

01

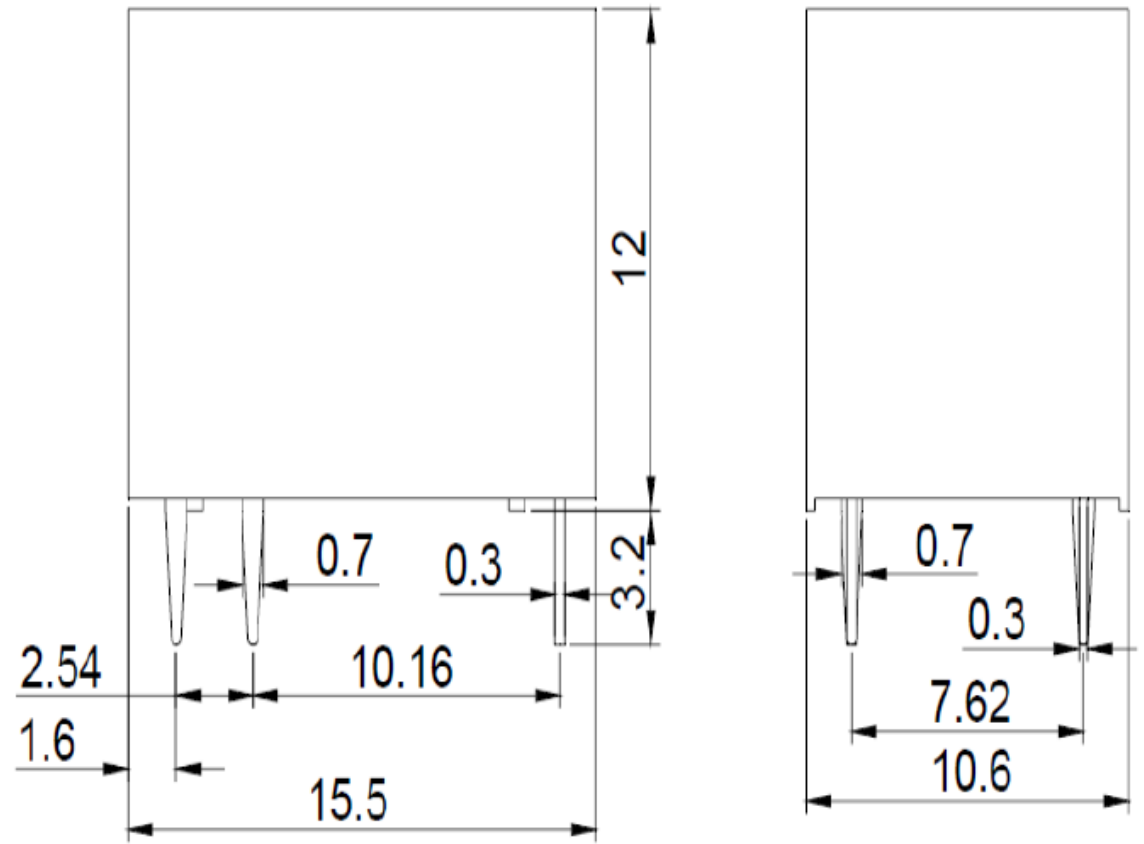
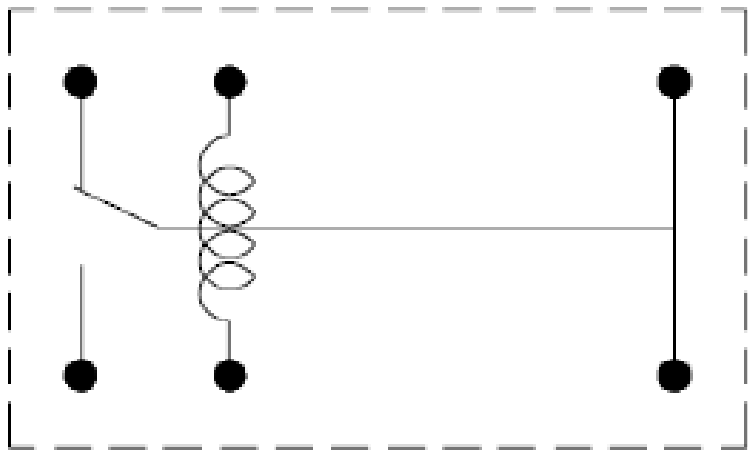
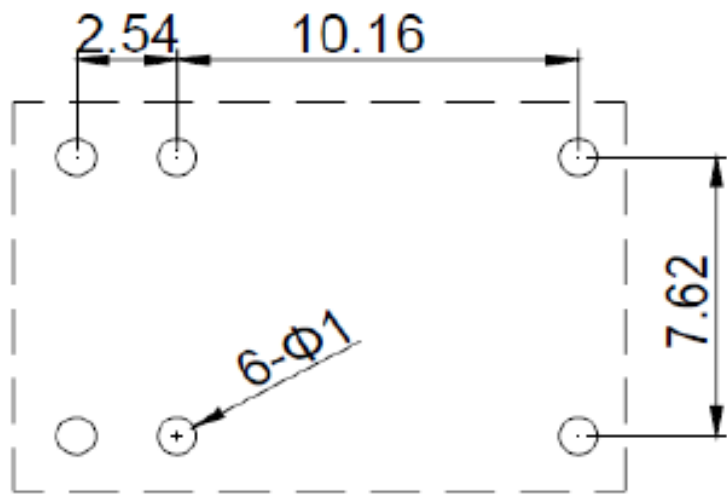
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|-------------------------------------|-------------------|-----------------------------------------------------------|----------|---------------------|--|------------------------------------|
| 继电器规格书<br>Relay SPECIFICATION       |                   | 型号<br>TYPE                                                | RSC-112L | 产品编号<br>Part Number |  | PS No.:<br>PS-029-004<br>Ver<br>01 |
| 2. 性能/SPECIFICATIONS                |                   |                                                           |          |                     |  |                                    |
| 2.1 驱动部分/COIL SPECIFICATIONS        |                   |                                                           |          |                     |  |                                    |
| 2.1.1 额定电压<br>Rated Coil Voltage    | 12                | VDC (在20℃时)<br>VDC at 20℃                                 |          |                     |  |                                    |
| 2.1.2 额定功率<br>Nominal Power         | 0.2               | W (在20℃时)<br>W at 20℃                                     |          |                     |  |                                    |
| 2.1.3 线圈电阻<br>Coil Resistance       | 720               | Ω±10% (在20℃时)<br>Ω±10% (at 20℃)                           |          |                     |  |                                    |
| 2.1.4 额定电流<br>Nominal Current       | 16.7              | mA±10% (在20℃时)<br>mA±10% (at 20℃)                         |          |                     |  |                                    |
| 2.1.5 吸合电压<br>Operate Voltage       | 9                 | VDC以下 (在20℃时)<br>VDC Max. at 20℃                          |          |                     |  |                                    |
| 2.1.6 释放电压<br>Release Voltage       | 1.2               | VDC以上 (在20℃时)<br>VDC Min. at 20℃                          |          |                     |  |                                    |
| 2.1.7 最大连续施加电压<br>Max Power         | 15.6              | VDC Max. 130%额定电压<br>VDC Max. 130%of Nominal              |          |                     |  |                                    |
| 2.2 开关部/CONTACT SPECIFICATION       |                   |                                                           |          |                     |  |                                    |
| 2.2.1 开关类型<br>Contact Configuration | 单刀转换型<br>1 Form C |                                                           |          |                     |  |                                    |
| 2.2.2 接点规格<br>Contact Rating        | 1                 | A 125VAC (阻性负载)<br>A @125VAC (Resistive)                  |          |                     |  |                                    |
|                                     | 2                 | A 30VDC (阻性负载)<br>A @30VDC (Resistive)                    |          |                     |  |                                    |
| 2.2.3 接触电阻<br>Contact Resistance    | 100               | mΩ 以下, (初期值, DC 6V/1A条件下)<br>mΩ Max. @ Initiate, DC 6V/1A |          |                     |  |                                    |
| 2.2.4 吸合时间<br>Operate Time          | 6                 | ms 以下 (额定电压下)<br>ms Max. @ Rated Voltage                  |          |                     |  |                                    |
| 2.2.5 释放时间<br>Release Time          | 3                 | ms 以下 (施加额定电压后断开时)<br>ms Max. @ Rated Voltage             |          |                     |  |                                    |
| 2.2.6 最大动作频率<br>Max. Switching Rate | 300               | 次/分 (无负载)<br>ops./min. (no load).                         |          |                     |  |                                    |
|                                     | 6                 | 次/分 (额定负载)<br>ops./min. (Rated load)                      |          |                     |  |                                    |

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|----------------------------------------|-----------------------------------|---------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------|------------------------------------|
| 2.3 特性/GENERAL SPECIFICATION           |                                   |                                                               |                                                   |                                               |                                    |
| 2.3.1 绝缘电阻<br>Insulation Resistance    | 100                               | MΩ以上 (500VDC)                                                 | 100                                               | MΩ Min@500VDC                                 |                                    |
| 2.3.2 介质耐压<br>Dielectric Strength      | 500                               | VAC/分钟(接点间)                                                   | 500                                               | VAC/分钟(同极接点间)                                 |                                    |
|                                        | 500                               | VAC@50/60Hz 1 min.(Between Contacts)                          | 500                                               | VAC@50/60Hz 1 min.(Between Coil and Contacts) |                                    |
| 2.3.3 电气寿命<br>Electrical Life          | 1×10 <sup>5</sup>                 | 次以上 (额定负载)                                                    | 1×10 <sup>5</sup>                                 | Cycle Min. @Rate Load                         |                                    |
| 2.3.4 机械寿命<br>Mechanical Life          | 1×10 <sup>7</sup>                 | 次以上 (无负载)                                                     | 1×10 <sup>7</sup>                                 | Cycle Min. @no load                           |                                    |
| 2.3.5 使用环境温度<br>Temperature            | -30~70                            | ℃ (无凝结时)                                                      | -30~70                                            | ℃ @no condensation                            |                                    |
| 2.3.6 使用环境湿度<br>Humidity               | 40~85%                            | RH (无凝结时)                                                     | 40~85%                                            | RH @no condensation                           |                                    |
| 2.3.7 抗振动<br>Vibration                 | 耐久                                | 10~55 Hz, 双振幅 1.5mm                                           | Mechanical                                        | 10 to 55 Hz, 1.5mm double amplitude           |                                    |
|                                        | 误动作                               | 10~55 Hz, 双振幅1.5mm                                            | Operational                                       | 10 to 55 Hz, 1.5mm double amplitude           |                                    |
| 2.3.8 抗冲击<br>Shock                     | 耐久                                | 980 m/s <sup>2</sup> Min (约100G)                              | Mechanical                                        | 980 m/s <sup>2</sup> Min (100G approximately) |                                    |
|                                        | 误动作                               | 98 m/s <sup>2</sup> Min (约10G)                                | Operational                                       | 98 m/s <sup>2</sup> Min (10G approximately)   |                                    |
| 2.3.9 重量<br>Weight                     | 3                                 | 克                                                             | 3                                                 | g                                             |                                    |
| 2.3.10 焊锡条件<br>Solder ability          | 5s                                | @ 260℃ (波峰焊)                                                  | 5s                                                | @ 260℃ (wave soldering)                       |                                    |
| 2.4 端子性能/TERMINAL CHARACTERISTICS      |                                   |                                                               |                                                   |                                               |                                    |
| 2.4.1 端子强度<br>Terminals strength       | 10牛/10±1秒, 任意方向静态压力, 无异常, 但端子弯曲可以 | 10N 10±1s, There shall be no abnormalities.                   | (The curving of the terminal shall be acceptable) |                                               |                                    |
| 2.4.2 可焊性<br>Terminal solderbility     | 260±5℃ 10s, 端子头部3mm部分90%以上的面积有锡覆盖 | 260±5℃ 10s, In Case of lead lead free solder,                 | 90% of the dipped portion shall be solderd.       |                                               |                                    |
| 2.4.3 耐热性<br>Soldering Heat Resistance | 10s @ 260℃, 端子头部3mm浸入锡中, 无异常发生    | 10s @ 260℃, There shall be no abnormalities. (wave soldering) |                                                   |                                               |                                    |

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| 继电器规格书<br>Relay SPECIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 型号<br>TYPE | RSC-112L | 产品编号<br>Part Number |  | PS No.:<br>PS-029-004<br>Ver<br>01 |
| <div> <div>2.5 安全规格/SAFETY REQUIREMENTS</div> <div> <div> <div>2.5.1 UL规格认定 (UL &amp; C-UL)</div> <div>UL (UL &amp; C-UL)</div> </div> <div> <div>档案号:</div> <div>E341569</div> </div> <div> <div>File No.:</div> <div>  </div> </div> </div> <div> <div>2.5.2 CQC标志认证</div> <div>CQC</div> </div> <div> <div>证书编号:</div> <div>Certificate No.:</div> </div> <div> <div>   </div> </div> <div> <div>2.5.3 TUV规格认定</div> <div>TUV</div> </div> <div> <div>证书号</div> <div>Certificate No.</div> </div> <div> <div>   </div> </div> <div> <div>2.5.4 VDE规格认定</div> <div>VDE</div> </div> <div> <div>证书号</div> <div>Certificate No.</div> </div> <div> <div>  </div> </div> </div> <div> <div>3. 捺印图/Mark Layout</div> <div> <div>  <div> <div>中12VDC</div> <div>RSC-112L</div> <div>  <div> <div>1A 125VAC</div> <div>2A 30VDC</div> </div> <div>C</div> <div>□□□□□</div> </div> </div> </div> <div> <div>注:</div> <div>仅供参考.</div> <div>For reference only.</div> </div> </div> <div> <div>注/Remark</div> <div>以中文版为准, 英文版仅供参考.</div> <div>Chinese version is the standard one, English version is only for information.</div> <div>结束/&lt;END&gt;</div> </div> </div> |            |          |                     |  |                                    |



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|                     |      |            |      |          |    |
|---------------------|------|------------|------|----------|----|
| 型 号                 | RSC  | 子图号        | 承认   | 检图       | 制图 |
|                     |      |            |      |          |    |
| 公差/TOLERANCES (.mm) |      | 作图日期       |      |          |    |
|                     |      | 2014.12.23 |      |          |    |
| <1                  | ±0.2 | 数量         | 版本   | 名称（用途）   |    |
| 1~5                 | ±0.3 | 1          | V1.0 | RSC      |    |
| >5                  | ±0.4 | 比例         | 页数   | 图号       |    |
|                     |      | 4:1        | 1/1  | U-029-06 |    |

U-029-06