

## Power Relay Series 功率继电器系列 -- BRT3

### FEATURES特点

- Up to 16A contact switching capability  
高达16A触点切换能力
- Plastic and flux proof are available  
塑封型和防焊剂型可供选择
- 5kV dielectric strength (between coil and contacts)  
线圈与触点间介质耐压5kV
- Overall dimensions (29.0X12.7X15.7) mm  
外形尺寸 (29.0X12.7X15.7) mm



### CONTACT PARAMETERS触点参数

|                                   |                  |
|-----------------------------------|------------------|
| Relay Type 产品型号                   | BRT3             |
| Contact Form 触点形式                 | A/B/C-1组常开/常闭/转换 |
| Rating Load (Resistive) 额定负载 (阻性) | 16A 250VAC       |
| Max. Switching Current 最大切换电流     | 16A              |
| Max. Switching Voltage 最大切换电压     | 250VAC           |
| Max. Switching Power 最大切换功率       | 4,000VA          |

### CHARACTERISTICS性能参数

|                                  |  |                                   |
|----------------------------------|--|-----------------------------------|
| Contact Materials 触点材料           | Ag Alloy 银合金   |                                   |
| Contact Resistance 接触电阻          | 100mΩ Max  |                                   |
| Operate Time 吸合时间                | 15ms .Max  |                                   |
| Release Time 释放时间                | 8 ms .Max  |                                   |
| Insulation Resistance 绝缘电阻       | 100MΩ Min.(DC500V)                                   |                                   |
| Initial Dielectric Strength 介质耐压 | between open contacts:<br>断开触点间                      | AC1,000V,50/60Hz 1Min             |
|                                  | between contacts and coil:<br>触点与线圈间:                | AC5,000V,50/60Hz 1Min             |
| Vibration Resistance 抗振动         | Damage limits:<br>耐久:                                | 10~55Hz Double Amplitude 双振幅1.5mm |
|                                  | Malfunction:<br>误动作:                                 | 10~55Hz Double Amplitude 双振幅1.5mm |
| Shock Resistance 抗冲击             | Damage limits:<br>耐久:                                | 100G Min                          |
|                                  | Malfunction:<br>误动作:                                 | 10G Min                           |
| Life 寿命                          | Mechanical Life (10800 per hour)<br>机械寿命 (每小时10800次) | 1×10 <sup>7</sup>                 |
|                                  | Electrical Life (1800 per hour)<br>电气寿命 (每小时1800次)   | 1×10 <sup>5</sup>                 |
| Ambient Temperature 环境温度         | -40℃ ~ +85℃ (No condensation) (不冷凝)                  |                                   |
| Unit Weight 单位重量                 | 约Approx.13.5g  |                                   |

## COIL RATINGS (at23°C) 线圈参数 (在23°C)

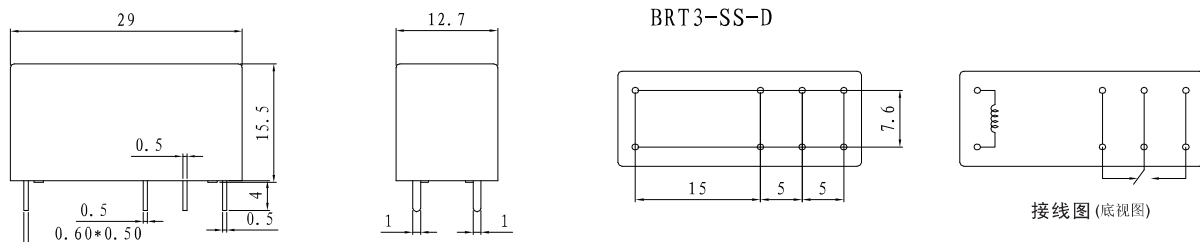
| Coil Nominal Voltage<br>额定电压 (VDC) | Nominal Current<br>额定电流 ±10%(mA) | Coil Resistance<br>线圈电阻 ±10% (Ω) | Max. Continuous Voltage<br>最大连续外加电压        | Pick-Up Voltage<br>吸合电压 (Max)            | Drop-Out Voltage<br>释放电压 (Min)           | Rated power<br>额定功率 |
|------------------------------------|----------------------------------|----------------------------------|--|--|--|---------------------|
| 5                                  | 80.00                            | 62.50                            | Coil Nominal Voltage<br>130%<br>额定电压的 130% | Coil Nominal Voltage<br>75%<br>额定电压的 75% | Coil Nominal Voltage<br>10%<br>额定电压的 10% | About 0.4W<br>约0.4W |
| 6                                  | 66.67                            | 90.00                            |  |  |  |                     |
| 9                                  | 44.44                            | 202.5                            |  |  |  |                     |
| 12                                 | 33.33                            | 360.0                            |  |  |  |                     |
| 18                                 | 22.00                            | 810.0                            |  |  |  |                     |
| 24                                 | 16.67                            | 1440                             |  |  |  |                     |
| 48                                 | 8.33                             | 5760                             |  |  |  |                     |

## ORDERING INFORMATION 订货标记

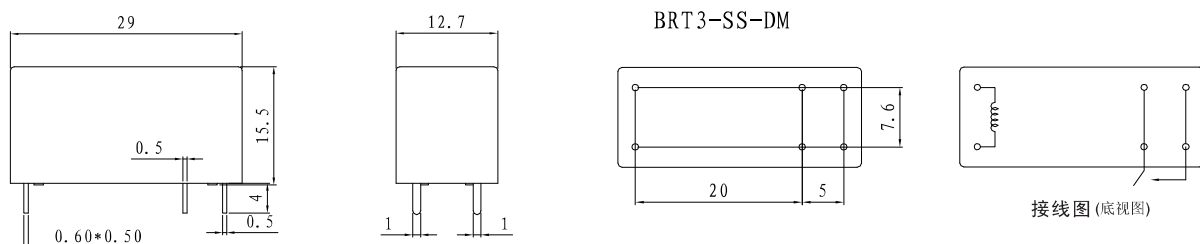
| BRT 3 - SS - 1 12 D M (XXX)   |   |
|---|---|
| 1   | 2 3 4 5 6 7 8   |
| 1. Model Number 基本型号 BRT<br>2. Type Code 系列代码 3 - BRT3<br>3. Encapsulation form: SS Plastic Sealed<br>封装形式: SS- 塑封型<br>4. Number or pole : 1 - 1 pole<br>触点组数: 1—1组触点 | 5. Coil Voltage 线圈规格 (VDC):<br>DC5V, DC6V, DC9V, DC12V, DC18V, DC24V, DC48V<br>6. Coil Power: D - 0.40W 线圈功耗: D-0.40W<br>7. Contact form: M- Form A, B- Form B, Nil - Form C<br>触点形式: M- 常开型 B- 常闭型 无 - 转换型<br>8. Customer Special Code :XXX- Customer Special Requirements<br>No - Standard Type<br>客户特性号: XXX-客户特殊要求, 无-标准型 |

## OUTLINE DIMENSIONS (UNIT:mm) 外形尺寸 (单位: mm)

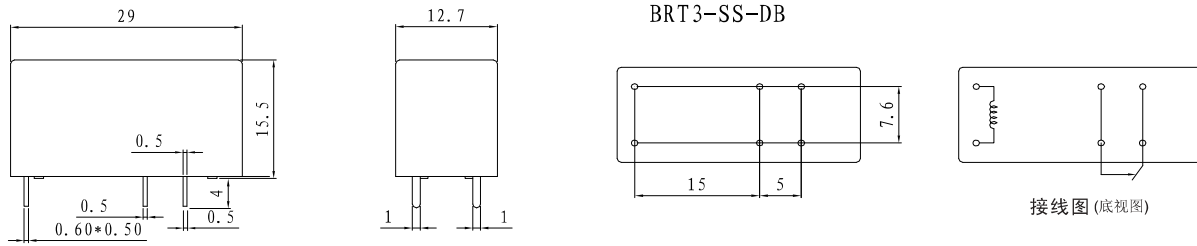
### 1组转换



### 1组常开



## 1 组常闭



Dimension Tolerance: < 1mm: ± 0.2mm  
 1--5mm: ± 0.3mm  
 > 5mm: ± 0.5mm

### SAFETY STANDARD 安规认证

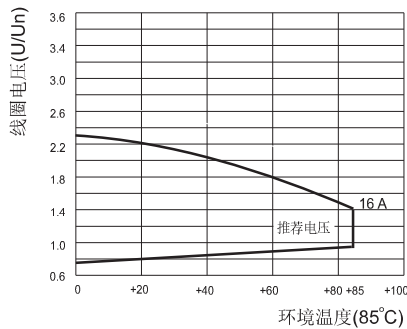
| Model Number | BRT3                   |                          |
|--------------|------------------------|--------------------------|
| TUV          | NO. 16A/250VAC COS=0.4 | 9A/250VAC NC. 16A/250VAC |
| UL           | NO. 16A/250VAC         | NC. 16A/250VAC           |
| CQC<br>105°C | NO. 16A/250VAC         | NC. 16A/250VAC           |

### TYPICAL USE 典型用途

- Home Appliances, Intelligent Control, Smart Home, Smart Plug, Air Conditioning, Microwave, Industrial Control, Etc..
- 家用电器, 智能控制, 智能家居, 智能插座, 空调, 微波炉, 工业控制等

### PERFORMANCE CHART 性能曲线图

线圈工作温度曲线 (DC) \*



备注:  
 \* 继电器使用过程中, 如果激励电压超过额定电压将会导致继电器电耐久性降低。在推荐电压范围内, 对电耐久性的影响会小一些。超过图中曲线规定的上限值, 继电器线圈的绝缘有可能会被损坏。

电耐久性曲线 (阻性)

