
**特点 Features:**

- 触点容量: 7A触点切换能力  
Contact switching capability: 7A.
- 宽度7mm, 适合高密度电路板  
7mm width suitable for high-density PCB mounting.
- 线圈与触点耐压: 4KV  
Dielectric Strength :4KV( between coil and contact).

**触点参数 CONTACT DATA**

|          |                             |                         |
|----------|-----------------------------|-------------------------|
| 型号       | Model                       | YX203                   |
| 触点形式     | Contact Arrangement         | 1A                      |
| 接触电阻     | Contact Resistance          | 100mΩ Max.              |
| 触点材料     | Contact Material            | 银合金 Silver Alloy        |
| 额定负载(阻性) | Contact Rating ( Res.Load ) | 5A 277VAC/30VDC         |
| 最大切换电流   | Max. Switching Current      | 7A                      |
| 最大切换电压   | Max. Switching Voltage      | 277VAC/30VDC            |
| 最大切换功率   | Max. Switching Power        | 1385VA/150W             |
| 机械寿命     | Mechanical endurance        | 1x10 <sup>7</sup> 次 OPS |
| 电气寿命     | Electrical endurance        | 1x10 <sup>5</sup> 次 OPS |

**性能参数 CHARACTERISTICS**

|             |                                |  |
|-------------|--------------------------------|--|
| 吸合时间(额定电压下) | Operate Time ( at nomi.volt. ) | 10ms Max.  |
| 释放时间(不带二极管) | Release Time ( without diode ) | 5ms Max.   |
| 绝缘电阻        | Insulation Resistance          | 1000MΩ Min.( 500VDC )                                    |
| 介质耐压        | Dielectric Strength            | 触点与触点间 Between Open Contacts : 750VAC, 50/60Hz 1 min.    |
|             |                                | 触点与线圈间 Between Coil & Contacts: 4,000VAC, 50/60Hz 1 min. |
| 抗振性         | Vibration resistance           | 误动作 Functional: 10~55Hz 双振幅 1.5mm ( DA )                 |
|             |                                | 耐久 Destructive: 10~55Hz 双振幅 1.5mm ( DA )                 |
| 抗冲击         | Shock resistance               | 误动作 Functional: 10G Min.                                 |
|             |                                | 耐久 Destructive: 100G Min.                                |
| 环境温度        | Ambient Temperature            | -40°C~+85°C (不冷凝 No condensation)                        |
| 重量          | Unit Weight                    | 约 Approx. 3.2g   |

**线圈参数 COIL DATA (at 23°C)**

| 额定电压<br>Rated voltage<br>(VDC) | 额定电流<br>Rated current<br>±10%(mA) | 线圈电阻<br>Coil resistance<br>±10%(Ω) | 最大连续外加电压<br>Max allowable voltage<br>VDC (Max.) | 吸合电压<br>Operate voltage<br>VDC (Max.) | 释放电压<br>Release voltage<br>VDC (Min.) | 额定功率<br>Rated coil power<br>(W) |
|--------------------------------|-----------------------------------|------------------------------------|---|---------------------------------------|---------------------------------------|---------------------------------|
| 5                              | 40.0                              | 125                                | 额定电压的<br>130%                                   | 额定电压的<br>75%                          | 额定电压的<br>5%                           | 约 approx.<br>0.2                |
| 6                              | 33.3                              | 180                                |   |                                       |                                       |                                 |
| 9                              | 22.2                              | 405                                |   |                                       |                                       |                                 |
| 12                             | 16.7                              | 720                                |   |                                       |                                       |                                 |
| 18                             | 11.1                              | 1,620                              |   |                                       |                                       |                                 |
| 24                             | 8.3                               | 2,880                              |   |                                       |                                       |                                 |
| 5                              | 72.0                              | 69                                 | 额定电压的<br>130%                                   | 额定电压的<br>75%                          | 额定电压的<br>5%                           | 约 approx.<br>0.36               |
| 6                              | 60.0                              | 100                                |   |                                       |                                       |                                 |
| 9                              | 40.0                              | 225                                |   |                                       |                                       |                                 |
| 12                             | 30.0                              | 400                                |   |                                       |                                       |                                 |
| 18                             | 20.0                              | 900                                |   |                                       |                                       |                                 |
| 24                             | 15.0                              | 1,600                              |   |                                       |                                       |                                 |
| 48                             | 7.5                               | 6,400                              |   |                                       |                                       |                                 |

## 订货标记示例 ORDERING INFORMATION

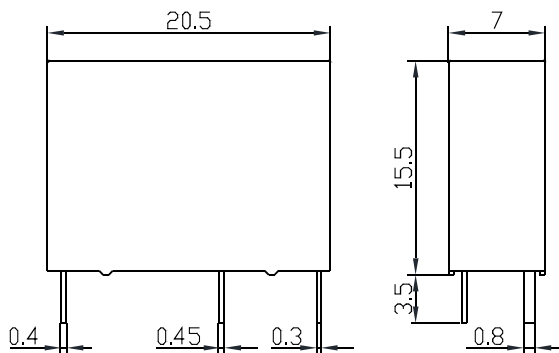
|       |    |    |    |   |   |   |  |
|-------|----|----|----|---|---|---|--|
| YX203 | -S | -1 | 12 | D | M | F |  |
|       |    |    |    |   |   |   | 绝缘系统 Insulation system: 无-标准型 Nil-Standard, F-Class F                      |
|       |    |    |    |   |   |   | 触点形式 Contact form: M-常开, M-Form A  |
|       |    |    |    |   |   |   | 线圈功耗 Coil power: D-0.2 W (0.36W 可选 optional)                               |
|       |    |    |    |   |   |   | 线圈规格 Coil voltage: 03,05,06,09,12,15,18,24,48 (VDC)                        |
|       |    |    |    |   |   |   | 触点组数 Number of poles: 1-1组 1-1 Group                                       |
|       |    |    |    |   |   |   | 封装形式 Protective construction: S-塑封式, SH-防水式 S-Flux proofed, SH-Sealed type |
|       |    |    |    |   |   |   | 基本型号 Type designation: YX203   |

## 外形尺寸、接线图、安装孔位图 (单位: mm)

### OUTLINE DIMENSIONS, WIRING DIAGRAM AND PCB LAYOUT (Unit: mm)

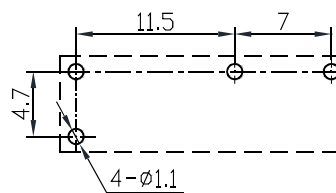
外形尺寸

Outline Dimensions



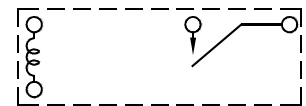
安装孔位图 (底视图)

PCB Layout (Bottom View)



接线图 (底视图)

Wiring Diagram (Bottom View)

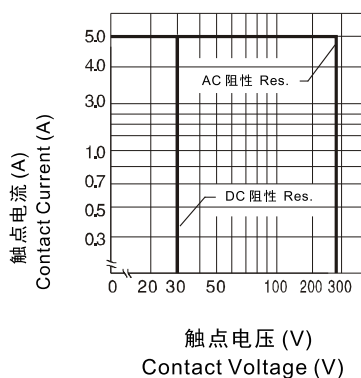


注 Remark:

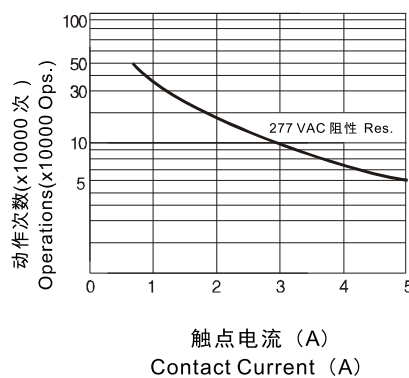
- 1.未标注尺寸公差 Unmarked dimensional tolerance  
 $\leq 1\text{mm}$ :  $\pm 0.2\text{mm}$ ; (1~5)mm:  $\pm 0.3\text{mm}$ ;  $\geq 5\text{mm}$ :  $\pm 0.4\text{mm}$ .
- 2.安装孔尺寸公差:  $\pm 0.1\text{mm}$ .  
 The tolerance of PCB layout is always:  $\pm 0.1\text{mm}$ .
- 3.引出脚尺寸为预焊前尺寸.  
 Extended terminal dimension is dimension before soldering.

## 性能曲线图 CHARACTERISTIC CURVES

最大切换功率  
Max. Switching Power



寿命曲线  
Endurance Curve



线圈温升  
Coil Temperature Rise

