

# SCH-T90

## 大功率继电器

- 30A触点切换能力 30A rating switching capability
- 塑封型和防焊剂型可供选择 Flux proof or sealed type available
- UL F级绝缘等级 UL insulation system: Class F available
- 耐冲击电压6KVAC 6KV impulse withstand voltage
- 触点间间隔2.0mm，耐压高达AC4000V

when the Contact gap is 2.0mm, 10KV withstand voltage (between contact and contacts).



### 用途举例 Application Examples

RoHS

- 家电设备 household appliances
- 太阳能变频器 Solar Inverter

### 型号命名标准 Product Code Structure

|                             |   |     |    |   |   |
|-----------------------------|---|-----|----|---|---|
| 基本型号 Type                   | SCH - T90   | -12 | 1A | S | T |
| SCH - T90                   |   |     |    |   |   |
| 触点结构 Contact form           | 1C- FORM 1C , 1A - FORM 1A , 1B - FORM 1B                           |     |    |   |   |
| 线圈额定电压 Coil voltage         | 05 , 06 , 09 , 12 , 24 , 36 , 48                                    |     |    |   |   |
| 封装形式 Category of protection | V - 非密封型, S - 密封型   |     |    |   |   |
| 特殊标记 Suffix                 | 无 - 标准型 Standard , T - 触点间耐压 Between contact and contact AC4,000V , |     |    |   |   |

### 线圈参数 Coil Data(DC)

| 额定电压<br>Rated voltage<br>(V) | 额定电流<br>Rated current<br>(mA) | 线圈电阻<br>Coil resistance<br>(Ω) | 吸合电压<br>Operate<br>voltage | 释放电压<br>Release<br>voltage | 最大允许电压<br>Max release<br>voltage | 额定功耗<br>Rated coil power |
|------------------------------|-------------------------------|--------------------------------|----------------------------|----------------------------|----------------------------------|--------------------------|
|                              |                               |                                | 额定电压的 % of rated voltage   |                            |                                  |                          |
| 5                            | 185                           | 27                             | 75% Max                    | 5% Min                     | 130%                             | Approx.<br>900mW         |
| 6                            | 150                           | 40                             |                            |                            |                                  |                          |
| 9                            | 93                            | 97                             |                            |                            |                                  |                          |
| 12                           | 75                            | 160                            |                            |                            |                                  |                          |
| 18                           | 50                            | 360                            |                            |                            |                                  |                          |
| 24                           | 36                            | 660                            |                            |                            |                                  |                          |
| 36                           | 25                            | 1440                           |                            |                            |                                  |                          |
| 48                           | 19                            | 2480                           |                            |                            |                                  |                          |

### 触点参数 Contact Data

|                              | 1A            | 1B        | 1C                    |
|------------------------------|---------------|-----------|-----------------------|
| 接点材料 Contact material        | Ag合金 Ag Alloy |           |                       |
| 额定负载 Contact rating          | AC250V30A     | AC250V30A | AC250 30A(NO)/20A(NC) |
| 最大通电电流 Max.Switching Current | 30A           |           | 30A(NO)/20A(NC)       |
| 最大开关电压 Max.Switching voltage | AC250VDC30V   |           |                       |
| 最大开关功率 Max.Switching power   | 7200VA 560W   |           |                       |

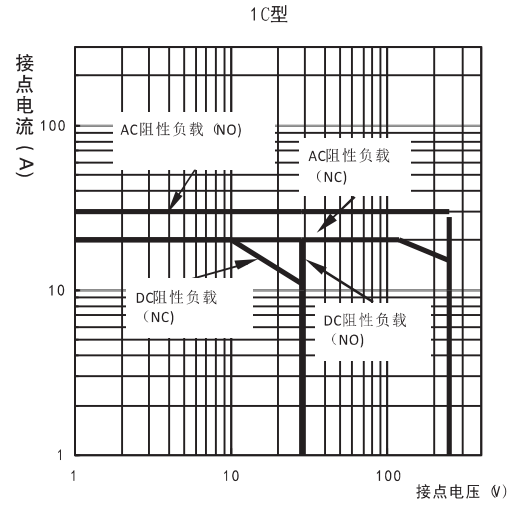
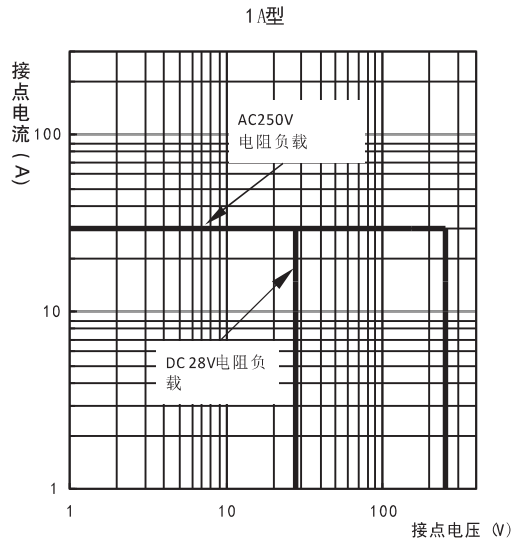
### 性能参数 Characteristics

|                                     |  |   |
|-------------------------------------|--|---|
| 接触电阻 Contact resistance             | 100mΩ MAX                                |   |
| 吸合时间 Operate time                   | 15ms 以下                                  |   |
| 释放时间 Release time                   | 10ms 以下                                  |   |
| 绝缘电阻 Insulation resistance          | 100MΩ以上(DC500V)                          |   |
| 介质耐压<br>Initial dielectric strength | 线圈触点间 Between contact and coil           | AC2500V1mA 50/60Hz 1min ("T": AC4,000V) |
|                                     | 开路触点间 Between open contacts              | AC1,500V1mA50/60Hz 1min                 |
| 脉冲耐电压                               | 线圈与接点间                                   | 6,000V(1.2/50μs)                        |
| 振动 Vibration resistance             | 10~55~10Hz 2小时                           |   |
| 冲击 Shock resistance                 | 稳定性 Functional                           | 1,000m (约100G)                          |
|                                     | 强度 Destructive                           | 100m/s <sup>2</sup> (约10G)              |
| 机械寿命 Mechanical endurance,          | 1x10 <sup>7</sup> ops (at 18,000 ops /h) |   |
| 电气寿命 Electrical endurance           | 1A 30A 240VAC                            | 5x10 <sup>4</sup> ops ( at 360 ops /h ) |
|                                     | 1B 30A 240VAC                            | 5x10 <sup>4</sup> ops ( at 360 ops /h ) |
|                                     | 1C NO:30A 240 VAC                        | 1x10 <sup>4</sup> ops ( at 360 ops /h ) |
|                                     | 1C NC:20A 240 VAC                        | 1x10 <sup>5</sup> ops ( at 360 ops /h ) |
| 温度范围 Ambient operating temperature  | -55~+105°C                               |   |
| 湿度范围 Ambient operating humidity     | 5-85%RH                                  |   |
| 重量 Weight                           | Approx..24~31g                           |   |

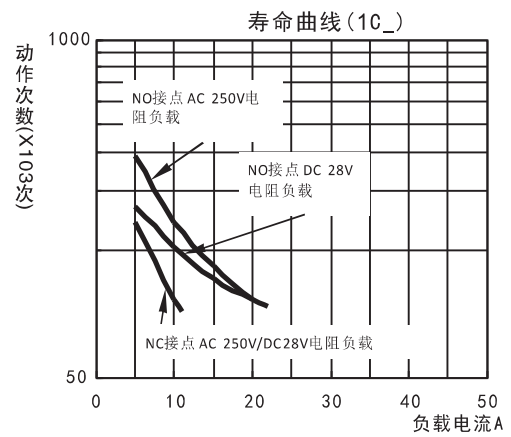
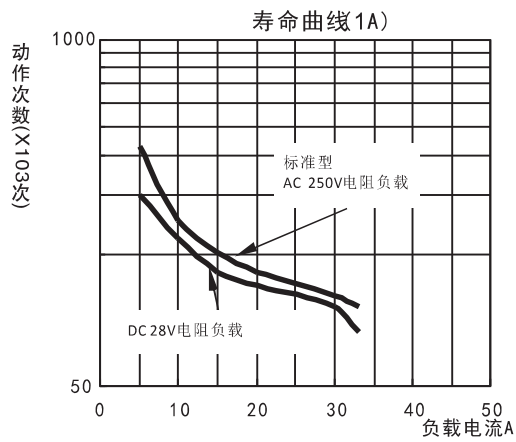
注：上述值均为初始值Note .The data shown above are initial values

## 性能曲线 Engineering Data

### 开关容量最大值

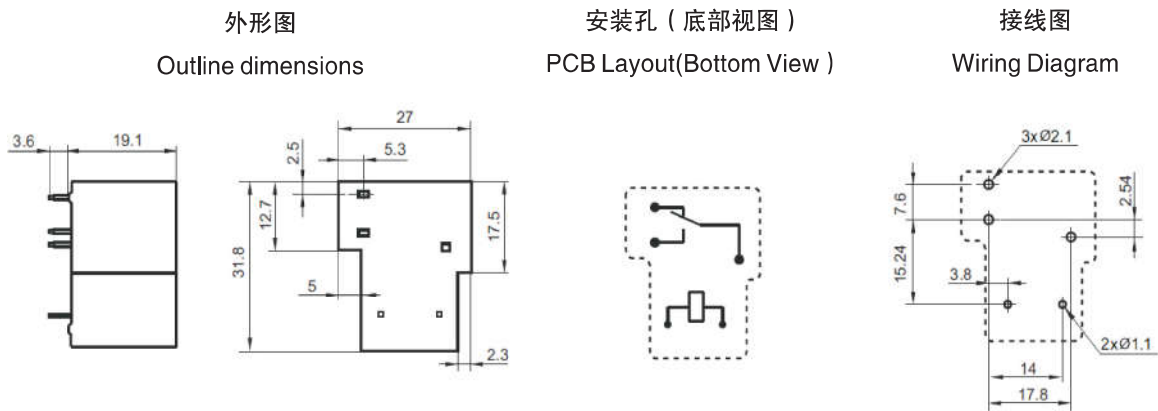


### 寿命

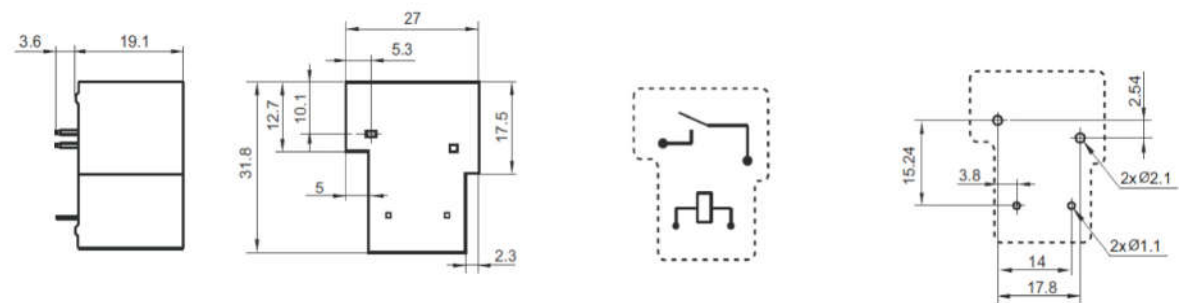


■ 外形图、接线图、安装孔尺寸 Outline dimensions、PCB Layout、Wiring Diagram (mm)

1) 一组转换型 (1C) :



2) 一组常开型 (1A)



未注尺寸公差 dimension tolerance

<1mm: +0.2 mm, 1~5 mm: ±0.3mm, >5mm: ±0.4mm

注: 安装孔尺寸中未注尺寸公差为+0.1 mm Note . dimension tolerance of the mounting hole +0.1 mm

■ 使用注意事项 Precautions

- 一般的注意事项请参考“印刷基板用继电器共通注意事项”。
- Please refer to “PCB Relays Common Precautions” for correct use.

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