

STE10 大功率继电器 MINIATURE HIGH POWER LATCHING RELAY

- 触点钱圈间介质耐压4kV以上 Dielectric strength: more than 4kV (between coil and contacts)
- 50点切换能力 50A switching capability
- 灯负载控制能力高达5000W Lamp load up to 5000W
- 马达负载控制能力达5HP Motor load up to 5HP
- 抗浪涌电流能力达500A/2ms Max. inrush current 500A/2ms
- 具备手动开关调试功能 Manual switch function available
- 可供触点间隙为1.5mm 继电器 Relays with 1.5mm contact gap are available
- 环保产品 (符合RoHS) Environmental friendly product (RoHS compliant)
- 外形尺寸 Outline Dimensions: 39.0mm x 15.0mm x 30.2mm



型号命名标准 Product Code Structure

| | | | | | | | | |
|---|-------|----|----|---|---|---|---|-------|
| | STE10 | -2 | 12 | A | V | 1 | R | (XXX) |
| 基本型号 Type | | | | | | | | |
| STE10 | | | | | | | | |
| 系列代号 Version | | | | | | | | |
| 1.无手动开关 (No manual switch) 无定位凸台 (No auxiliary convexity) | | | | | | | | |
| 2.有手动开关 (With manual switch) 无定位凸台 (No auxiliary convexity) | | | | | | | | |
| 3.无手动开关 (No manual switch) 有定位凸台 (With auxiliary convexity) | | | | | | | | |
| 4.有手动开关 (With manual switch) 有定位凸台 (With auxiliary convexity) | | | | | | | | |
| 线圈额定电压 Coil voltage | | | | | | | | |
| 06, 09, 12, 24, 48 | | | | | | | | |
| 触点结构 Contact form | | | | | | | | |
| A -- FORM 1A, B -- FORM 1B, C-- FORM 1C | | | | | | | | |
| 封装形式 Category of protection | | | | | | | | |
| V -- 非密封型, S -- 密封型 | | | | | | | | |
| 线圈类型 coil sort | | | | | | | | |
| 1:单线圈磁保持 2:双线圈磁保持 | | | | | | | | |
| 极性特点 polarity | | | | | | | | |
| R:反极性 (如接线图) 无:标准极性 (如接线图) | | | | | | | | |
| 特殊标记 Suffix | | | | | | | | |
| Blank-- 标准型 Standard, (XXX) -- 客户特殊需求 For customer special requirement, | | | | | | | | |

触点参数 Contact Data

| | |
|------------------------------|--|
| 接点结构 contact arrangement | 1A,1B,1C |
| 接点材料 contact material | Ag合金 Ag alloy |
| 额定负载 contact rating | 1A,1B: 50A277VAC, 1 x 10 ⁶ 次 (阻性负载 resistance) 5000W 240VAC, 3 x 10 ⁴ 次 (白炽灯 incandescent lamp) 16A 277VAC, 6000次 (电子镇流器 electronic ballast) 5HP 277VAC, 3 x 10 ⁴ 次 (马达负载 motor) 1C: 40A277VAC, 3 x 10 ⁴ 次 (阻性负载 resistance) |
| 最大切换电压 Max.Switching voltage | 440VAC |
| 最大切换电流 Max.Switching Current | 50A |
| 最大切换功率 Max.Switching power | 1A:12500VA, 1C:10000VA |

性能参数 Characteristics

| | | |
|------------------------------------|---|-------------------------------|
| 接触电阻 Contact resistance | 100m max | |
| 吸合时间 Operate time | 15ms max | |
| 释放时间 Release time | 15ms max | |
| 绝缘电阻 Insulation resistance | 1000MΩ min (DC500V) | |
| 介质耐压 Initial dielectric strength | 线圈触点间 Between contact and coil | AC4000V1mA 50/60Hz 1min |
| | 开路触点间 Between open contacts | AC1500V1mA 50/60Hz 1min |
| 振动 Vibration resistance | 10~55~10Hz (双振幅1.5mm)(double amplitude1.5mm) | |
| 冲击 Shock resistance | 稳定性 Functional | 1000m/s ²² (约100G) |
| | 强度 Destructive | 100m/s ² (约10G) |
| 机械寿命 Mechanical endurance, | 10 x 10 ⁶ ops | |
| 电气寿命 Electrical endurance | 见触点负载 see rated load | |
| 温度范围 Ambient operating temperature | -40~+70°C | |
| 湿度范围 Ambient operating humidity | 5-85%RH | |
| 重量 Weight | Approx.32g | |

线圈参数 Coil Data(DC)

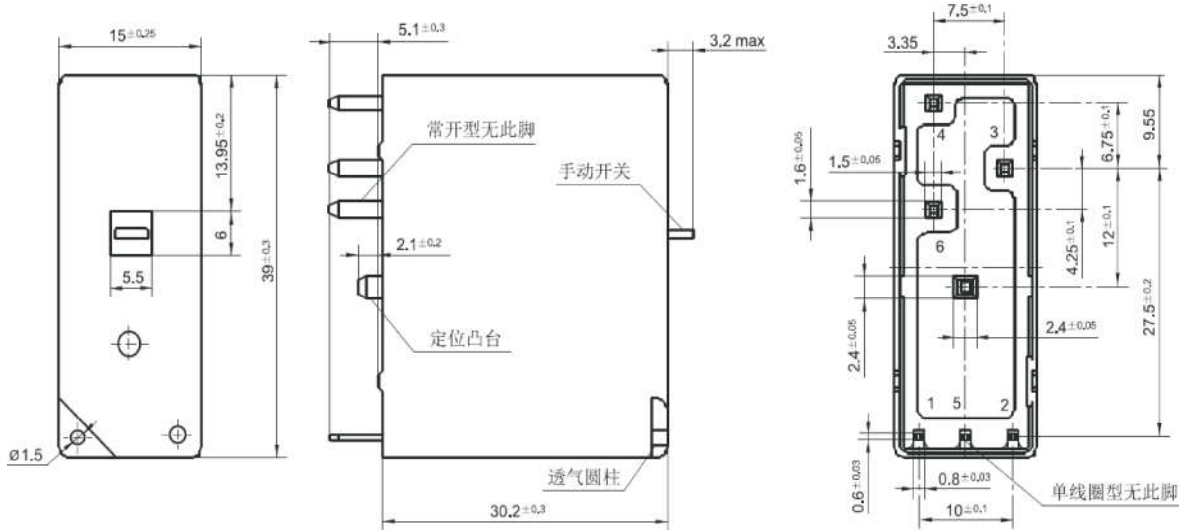
| 单线圈 single coil latching | | | | | 双线圈 double coils latching | | | | |
|------------------------------|---------------------------------------|------------------------------|--------------------------------|-----------------------------------|------------------------------|---------------------------------------|------------------------------|--------------------------------|-----------------------------------|
| 额定电压 Rated voltage (V) | 动作、复位电压 Set / reset voltage (V) | 脉冲宽度 pulse duration ms | 线圈电阻 Coil resistance (Ω) | 线圈功耗 Rated coil power (W) | 额定电压 Rated voltage (V) | 动作、复位电压 Set / reset voltage (V) | 脉冲宽度 pulse duration ms | 线圈电阻 Coil resistance (Ω) | 线圈功耗 Rated coil power (W) |
| 6 | ≤4.8 | 50 | 24 | 1.5W | 6 | ≤4.8 | 50 | 12+12 | 3.0W |
| 9 | ≤7.2 | 50 | 54 | | 9 | ≤7.2 | 50 | 27+27 | |
| 12 | ≤9.6 | 50 | 96 | | 12 | ≤9.6 | 50 | 48+48 | |
| 24 | ≤19.2 | 50 | 384 | | 24 | ≤19.2 | 50 | 192+19 | |
| 48 | ≤38.4 | 50 | 1536 | | 48 | ≤38.4 | 50 | 768+76 | |
| | | | | | | | | 2 | |
| | | | | | | | | 8 | |

注：额定电流和线圈电阻是在线圈温度23℃，公差为±10%
Note. The rated current and coil resistance are measured at a coil temperature of 23° C with a tolerance of ± 10%

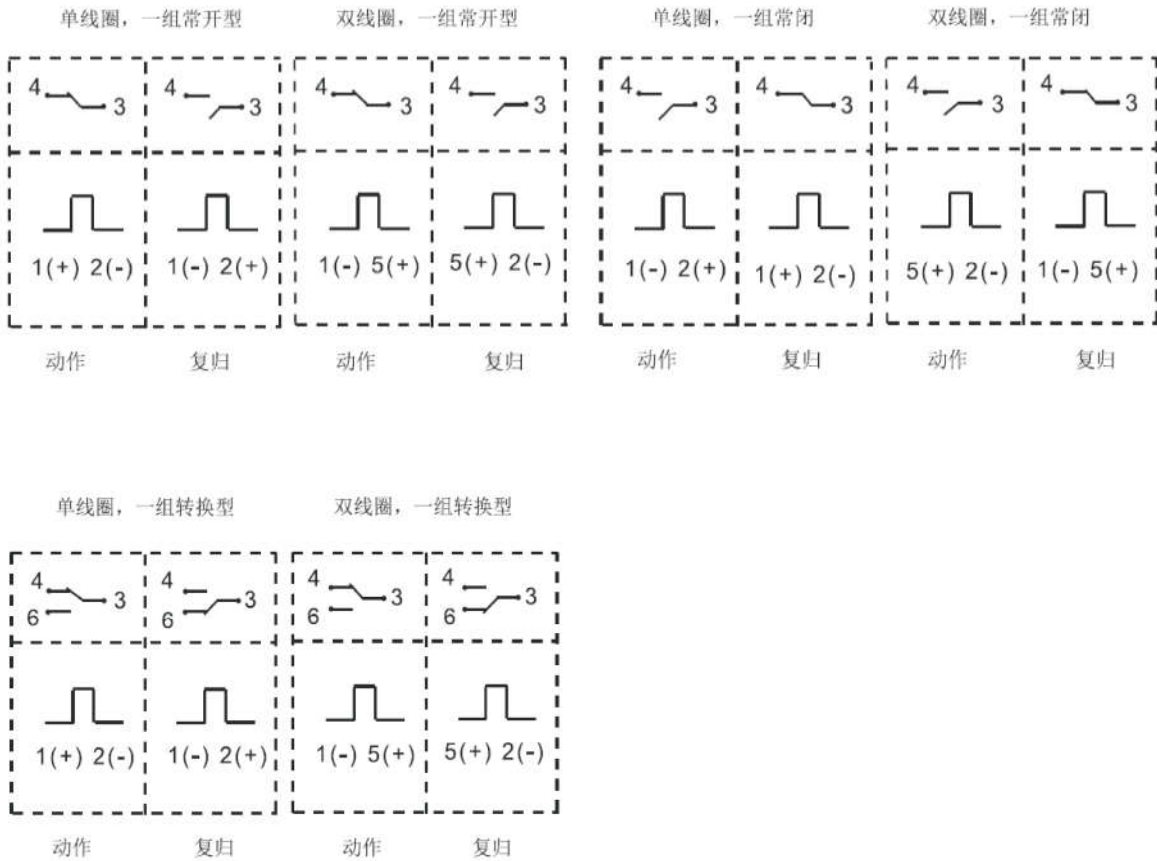
■ 外形图、接线图、安装孔尺寸 Outline dimensions、PCB Layout、Wiring Diagram (mm)

外形图 Outline dimensions

STE10-1, STE10-2, STE10-3, STE10-4,

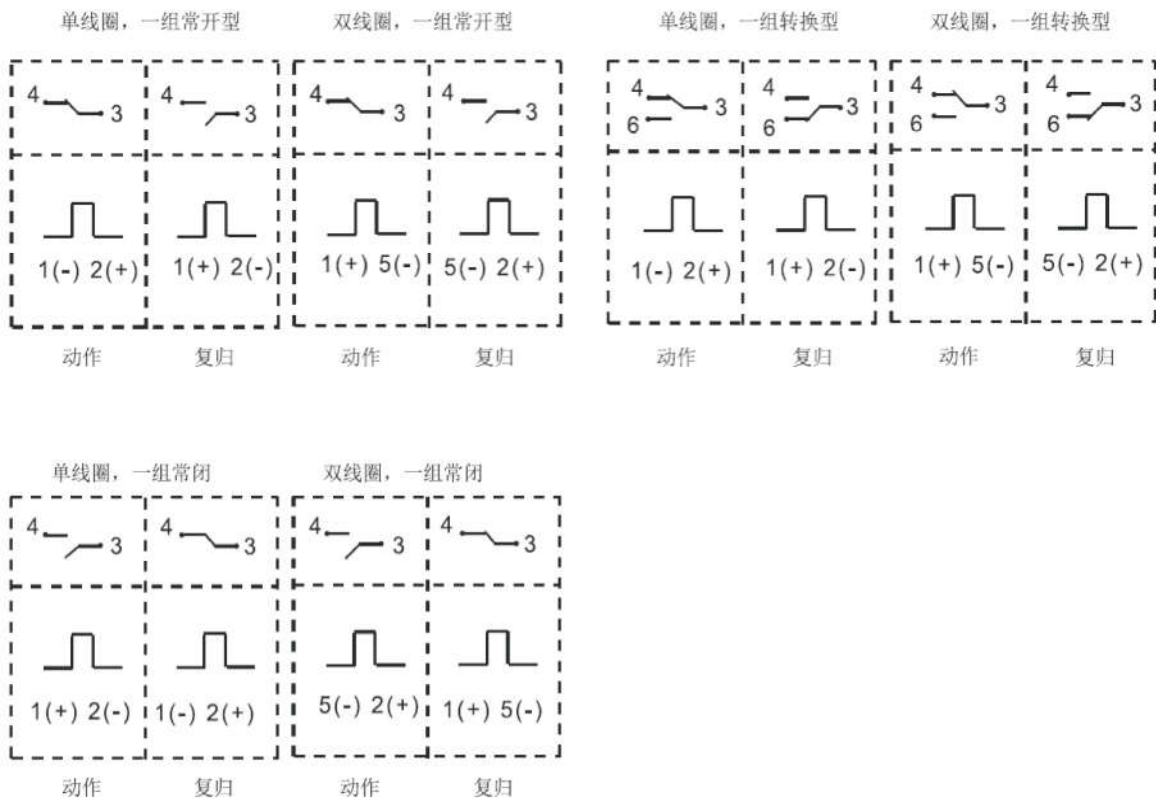


标准极性



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

反极性



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