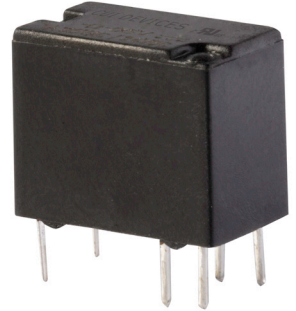


SERIES: SR3 | **DESCRIPTION:** SIGNAL RELAY**FEATURES**

- 3~24 Vdc coil voltage
- 150-175 mW coil power
- contact form 1C

**MODEL**

| MODEL | coil voltage typ (Vdc) | coil resistance ($\Omega \pm 10\%$) | operating voltage min (Vdc) | release voltage max (Vdc) | coil power typ (mW) |
|----------------|---------------------------------|---|--------------------------------------|------------------------------------|------------------------------|
| SR3-3V-150-1C | 3 | 60 | 2.25 | 0.3 | 150 |
| SR3-5V-150-1C | 5 | 167 | 3.75 | 0.5 | 150 |
| SR3-9V-150-1C | 9 | 540 | 6.75 | 0.9 | 150 |
| SR3-12V-150-1C | 12 | 960 | 9.0 | 1.2 | 150 |
| SR3-24V-175-1C | 24 | 3,291 | 18.0 | 2.4 | 175 |

Notes: 1. All specifications are measured at 23°C unless otherwise specified.

PART NUMBER KEY

SR3 - XX - 150 - 1C

Base Number

Coil Voltage (Vdc):

3V = 3

5V = 5

9V = 9

12V = 12

24V = 24

CONTACT SPECIFICATIONS

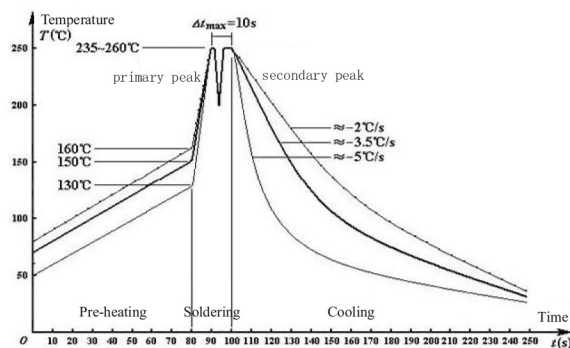
| parameter | conditions/description | min | typ | max | units |
|-----------------------|--------------------------|-----|----------------------|-----------|--------------------------|
| contact form | 1 Form C | | | | |
| contact material | AuAg overlay | | | | |
| contact rating | 1 A @ 125 Vac, 24 Vdc | | | | |
| contact resistance | at 6 Vdc, 0.1 A | | | 50 | mΩ |
| max switching voltage | | | | 125 60 | Vac Vdc |
| max switching current | | | | 2 | A |
| max switching power | | | | 250 48 | VA W |
| min switching load | 5 Vdc, 10 mA | | | | |
| life | electrical mechanical | | 100,000 5,000,000 | | operations operations |

GENERAL SPECIFICATIONS

| parameter | conditions/description | min | typ | max | units |
|-----------------------|---|-------|--------------|-----|--------------------------------------|
| insulation resistance | at 500 Vdc | 1,000 | | | MΩ |
| dielectric strength | between open contacts for 1 minute between coil and contacts for 1 minute | | 500 1,000 | | Vac Vac |
| operate time | | | | 5 | ms |
| release time | | | | 5 | ms |
| shock resistance | endurance misoperation | | 1,000 100 | | m/s ² m/s ² |
| vibration resistance | endurance: 10~55 Hz, 1.5 mm double amplitude misoperation: 10~55 Hz, 1.5 mm double amplitude | | | | |
| operating temperature | | -40 | | 70 | °C |
| humidity | at 40°C | 35 | | 95 | %RH |
| weight | | | 2.2 | | g |
| safety approvals | UL/cUL 508 | | | | |
| flammability rating | UL94V-0 | | | | |
| RoHS | yes | | | | |
| packaging | tube: 25 pcs per tube carton size: 390 x 301 x 148 mm carton QTY: 2,000 pcs per carton | | | | |

SOLDERABILITY

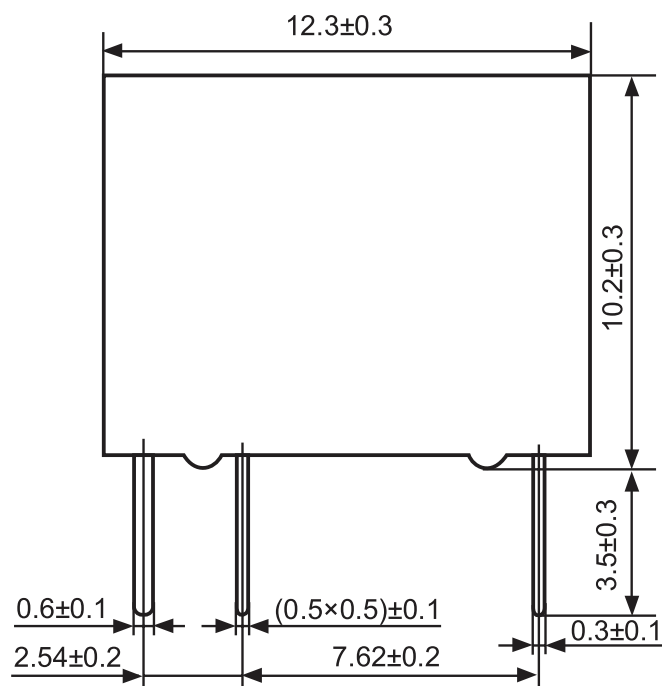
| parameter | conditions/description | min | typ | max | units |
|----------------|------------------------|-----|-----|-----|-------|
| hand soldering | for 3.5±0.5 seconds | 340 | 350 | 360 | °C |
| wave soldering | for 10±1 seconds | 255 | 260 | 265 | °C |



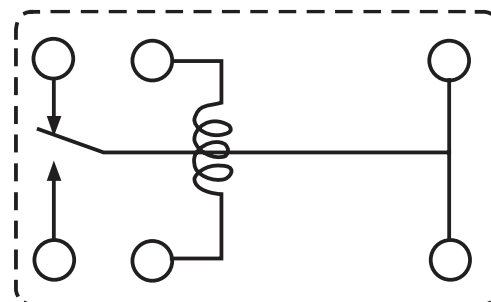
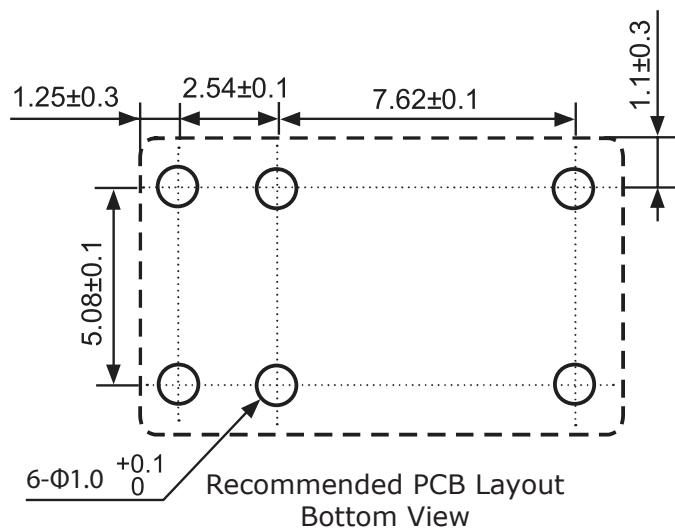
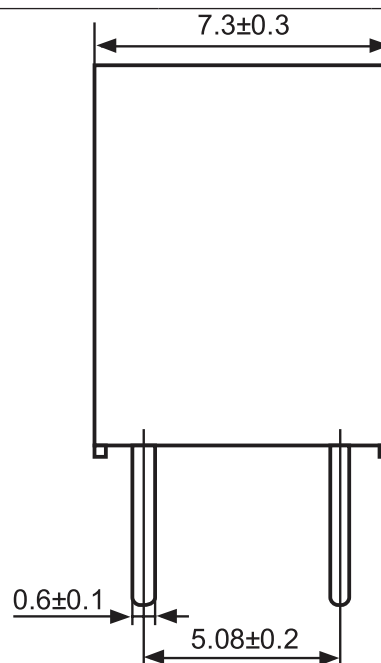
Double-wave Soldering Curve

MECHANICAL DRAWING

units: mm
tolerance: ± 0.3 mm
unless otherwise noted



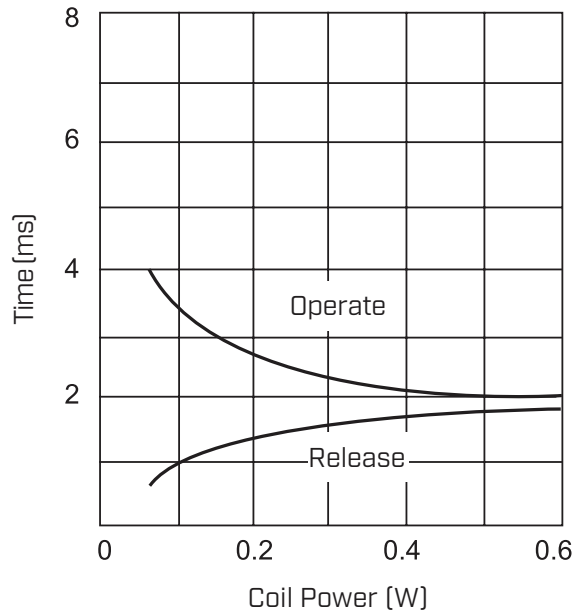
| ITEM | DESCRIPTION | MATERIAL | PLATING/COLOR |
|------|-------------|----------------------|---------------|
| A | housing | PBT (UL94V-0) | black |
| B | terminals | copper covered steel | tin |



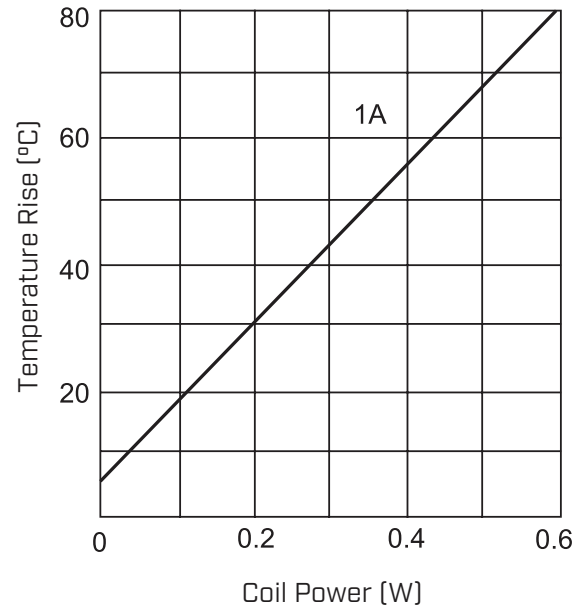
Wiring Diagram
Bottom View

CHARACTERISTIC CURVES

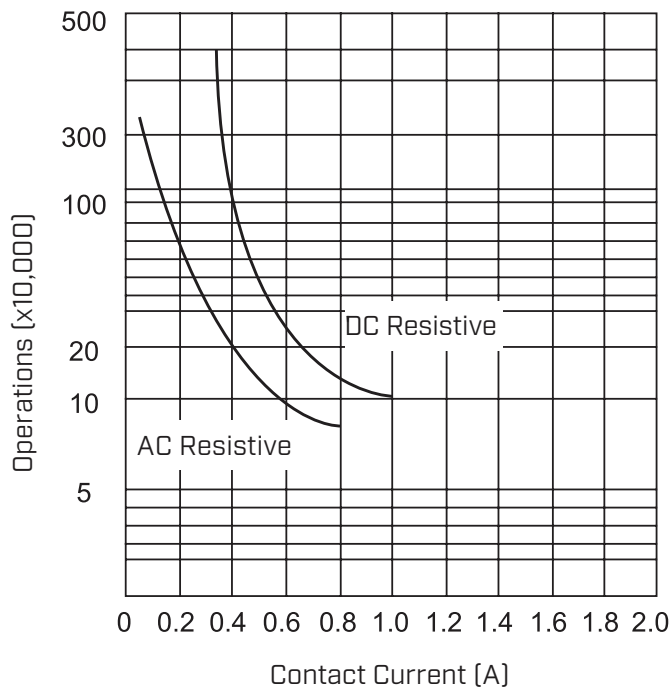
Time Curve



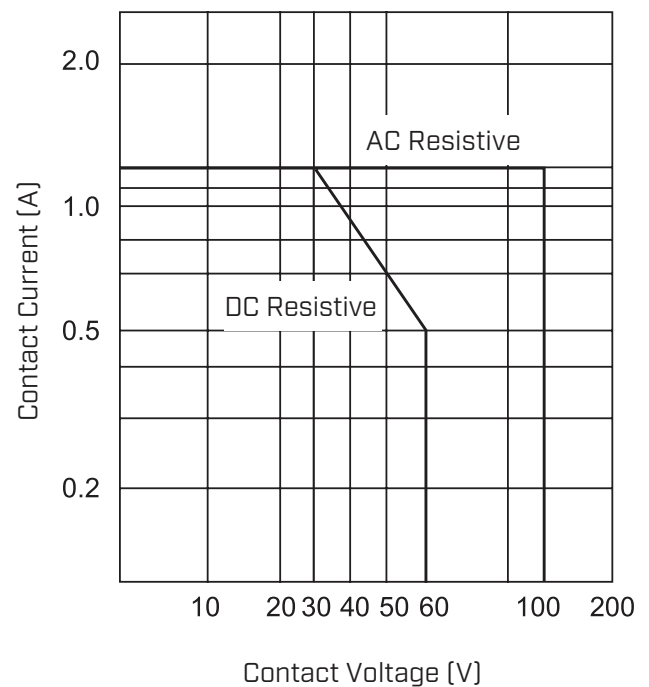
Coil Temperature Rise



Life Curve



Maximum Switching Power



REVISION HISTORY

| rev. | description | date |
|------|-----------------|------------|
| 1.0 | initial release | 06/07/2022 |

The revision history provided is for informational purposes only and is believed to be accurate.

CUI DEVICES

CUI Devices offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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