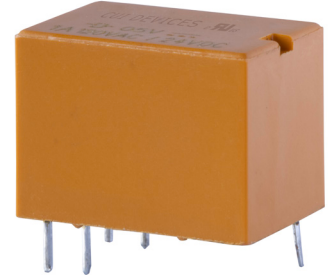


**SERIES:** SR7 | **DESCRIPTION:** SIGNAL RELAY**FEATURES**

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

**MODEL**

| MODEL          | coil<br>voltage<br>typ<br>(Vdc) | coil<br>resistance<br>( $\Omega \pm 10\%$ ) | operating<br>voltage<br>min<br>(Vdc) | release<br>voltage<br>max<br>(Vdc) | coil<br>power<br>typ<br>(mW) |
|----------------|---------------------------------|---------------------------------------------|--------------------------------------|------------------------------------|------------------------------|
| SR7-3V-200-1C  | 3                               | 45                                          | 2.25                                 | 0.3                                | 200                          |
| SR7-5V-200-1C  | 5                               | 125                                         | 3.75                                 | 0.5                                | 200                          |
| SR7-9V-200-1C  | 9                               | 405                                         | 6.75                                 | 0.9                                | 200                          |
| SR7-12V-200-1C | 12                              | 720                                         | 9.0                                  | 1.2                                | 200                          |
| SR7-24V-200-1C | 24                              | 2,880                                       | 18.0                                 | 2.4                                | 200                          |

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

**PART NUMBER KEY**

**SR7 - XX - 200 - 1C**

Base Number

Coil Voltage (Vdc):

3V = 3

5V = 5

9V = 9

12V = 12

24V = 24

## CONTACT SPECIFICATIONS

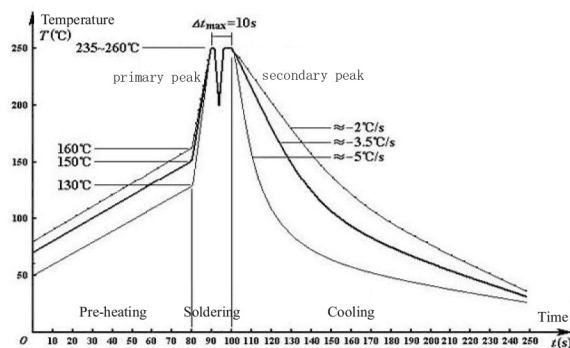
| parameter             | conditions/description   | min | typ                   | max       | units                    |
|-----------------------|--------------------------|-----|-----------------------|-----------|--------------------------|
| contact form          | 1 Form C                 |     |                       |           |                          |
| contact material      | AuAg overlay             |     |                       |           |                          |
| contact rating        | 1 A @ 120 Vac, 24 Vdc    |     |                       |           |                          |
| contact resistance    | at 6 Vdc, 0.1 A          |     |                       | 50        | mΩ                       |
| max switching voltage |                          |     |                       | 220<br>30 | Vac<br>Vdc               |
| max switching current |                          |     |                       | 3         | A                        |
| max switching power   |                          |     |                       | 360<br>72 | VA<br>W                  |
| min switching load    | 5 Vdc, 10 mA             |     |                       |           |                          |
| life                  | electrical<br>mechanical |     | 100,000<br>10,000,000 |           | operations<br>operations |

## GENERAL SPECIFICATIONS

| parameter             | conditions/description                                                                          | min | typ          | max | units                                |
|-----------------------|-------------------------------------------------------------------------------------------------|-----|--------------|-----|--------------------------------------|
| insulation resistance | at 500 Vdc                                                                                      | 100 |              |     | MΩ                                   |
| dielectric strength   | between open contacts for 1 minute<br>between coil and contacts for 1 minute                    |     | 750<br>1,500 |     | Vac<br>Vac                           |
| operate time          |                                                                                                 |     |              | 5   | ms                                   |
| release time          |                                                                                                 |     |              | 5   | ms                                   |
| shock resistance      | endurance<br>misoperation                                                                       |     | 1,000<br>100 |     | m/s <sup>2</sup><br>m/s <sup>2</sup> |
| vibration resistance  | endurance: 10~55 Hz, 1.5 mm double amplitude<br>misoperation: 10~55 Hz, 1.5 mm double amplitude |     |              |     |                                      |
| operating temperature |                                                                                                 | -25 |              | 70  | °C                                   |
| humidity              | at 40°C                                                                                         | 35  |              | 95  | %RH                                  |
| weight                |                                                                                                 |     | 4.0          |     | g                                    |
| safety approvals      | UL/cUL 508                                                                                      |     |              |     |                                      |
| flammability rating   | UL94V-0                                                                                         |     |              |     |                                      |
| RoHS                  | yes                                                                                             |     |              |     |                                      |
| packaging             | tube: 25 pcs per tube<br>carton size: 466 x 306 x 140 mm<br>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

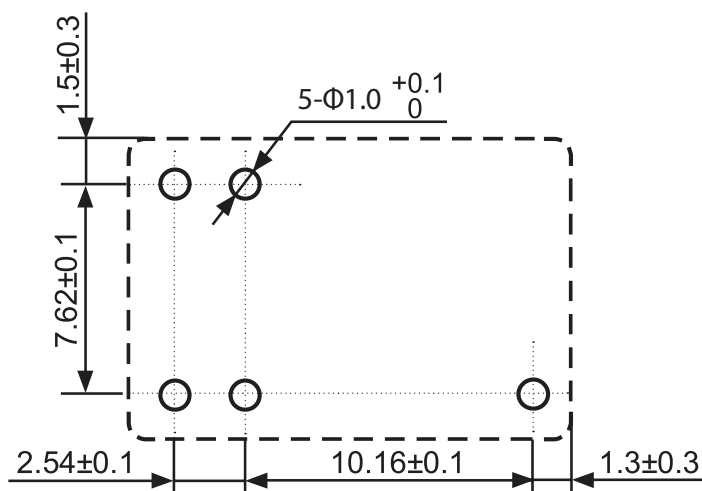
units: mm  
tolerance:  $\pm 0.3$  mm  
unless otherwise noted

Technical drawing of a rectangular plate with the following dimensions and tolerances:

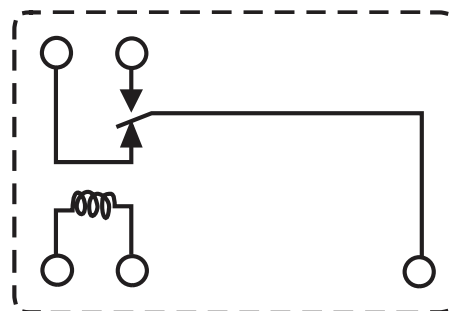
- Overall width:  $15.6 \pm 0.3$
- Overall height:  $10.16 \pm 0.2$
- Distance from left edge to first vertical slot:  $2.54 \pm 0.2$
- Width of first vertical slot:  $2 - 0.5 \pm 0.1$
- Distance between first and second vertical slots:  $2 - 0.5 \pm 0.1$
- Distance from second vertical slot to right edge:  $0.3 \pm 0.1$

Technical drawing of a square component with the following dimensions:

- Top width:  $10.6 \pm 0.3$
- Left height:  $11.8 \pm 0.3$
- Bottom-left corner radius:  $3.1 \pm 0.3$
- Bottom-left corner thickness:  $0.6 \pm 0.1$
- Bottom-right corner thickness:  $4 - 0.4 \pm 0.1$
- Bottom width:  $7.62 \pm 0.2$



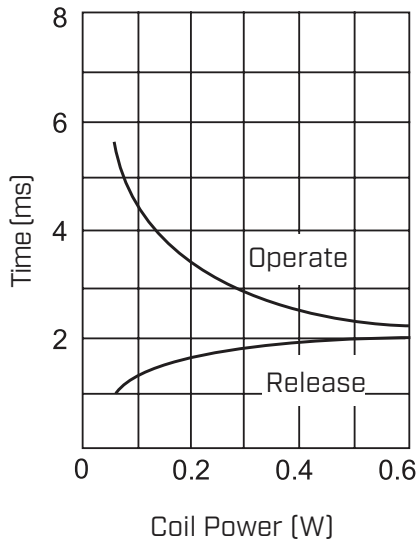
### Recommended PCB Layout Bottom View



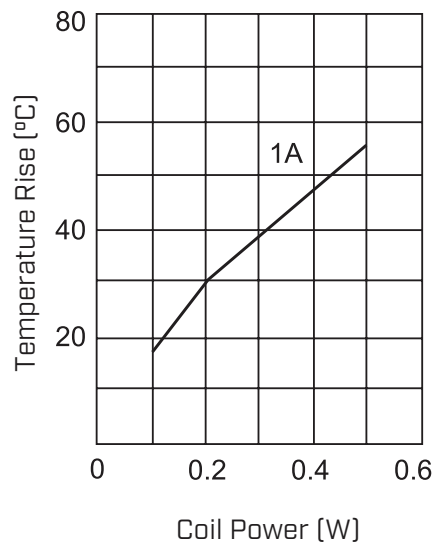
### Wiring Diagram Bottom View

## CHARACTERISTIC CURVES

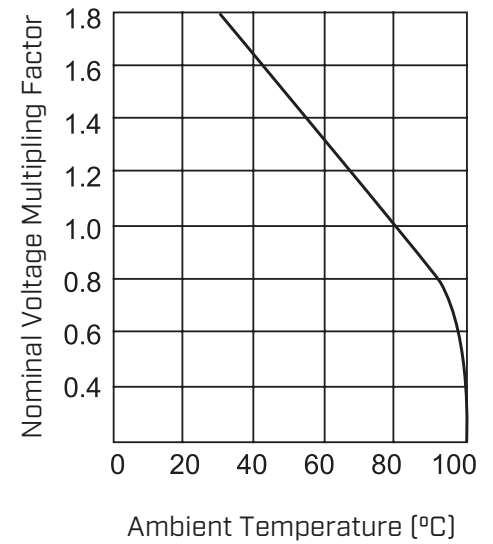
Time Curve



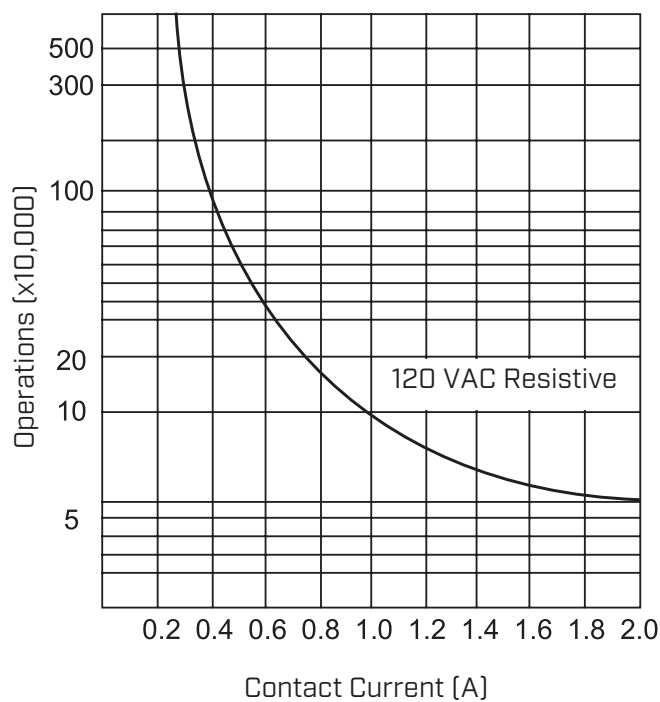
Coil Temperature Rise



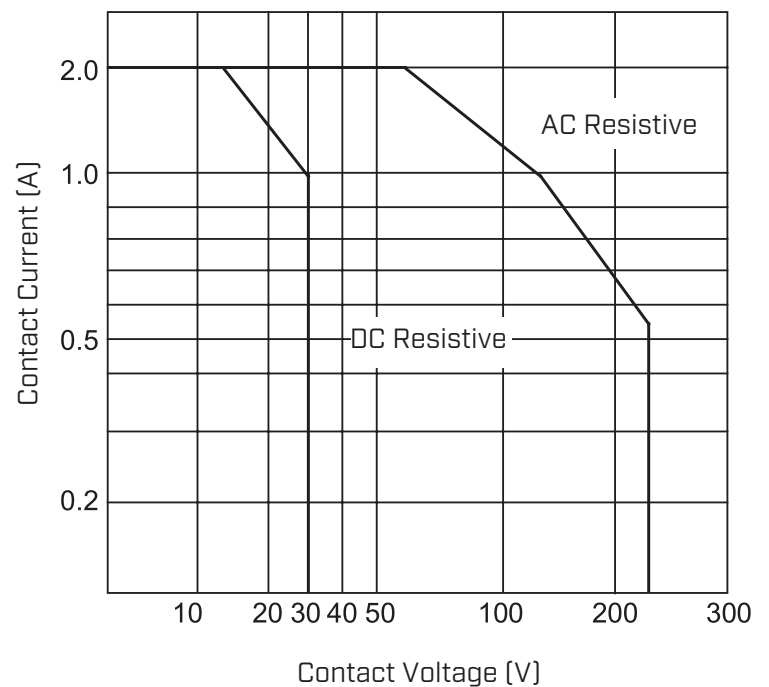
Operate Range



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.

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# CUI DEVICES

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