

# RELAY SR 1C-AD-PU-KIT

Series SR Relay 1 changeover contact 6/12/24/48/110/230 V DC/AC

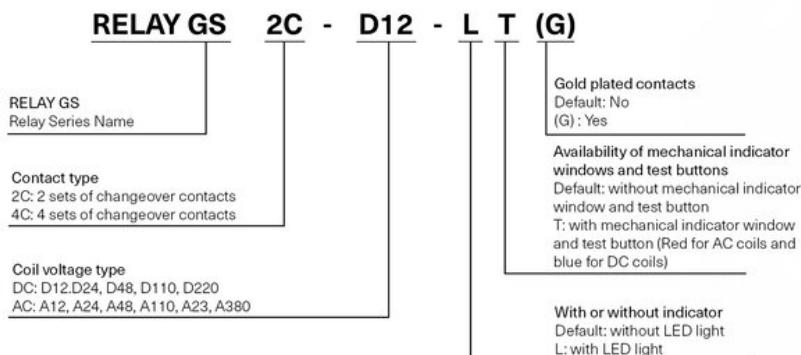


## Preassembled relay with 1 changeover contact and socket with Push-in connection technology

The pre-assembled SR series relay kit is a slimline combination of a plug-in industrial relay with 6/12/24/48/110/230 V DC/AC, a changeover contact, and a socket. The socket has Push-in connection terminals that simplify the wiring process. The kit is 6 mm wide and suitable for various mounting applications. It has integrated overvoltage protection. The Variants are available in different voltages, which operate with a control voltage of 6/12/24/48/110/230 V DC/AC and can handle a contact load of 6 A. The socket contains built-in surge protection. It also complies with CE, UL, and RoHS standards, ensuring the highest safety and environmental compatibility in design and manufacture. The SR series kit has become the preferred choice of system integrators. Other possible applications include Paper machines, thermal power, wind power, machine tools, process control, and construction machinery.

## Available Variants:

| Variant Name            | SKU               |
|-------------------------|-------------------|
| RELAY SR 1C-AD6-PU      | SA-SR1C-U6-PM     |
| RELAY SR 1C-AD12-PU     | SA-SR1C-U12-PM    |
| RELAY SR 1C-AD24-PU     | SA-SR1C-U24-PM    |
| RELAY SR 1C-AD24(G)-PU  | SA-SR1C-U24-G-PM  |
| RELAY SR 1C-AD48-PU     | SA-SR1C-U48-PM    |
| RELAY SR 1C-AD110-PU    | SA-SR1C-U110-PM   |
| RELAY SR 1C-AD230-PU    | SA-SR1C-U230-PM   |
| RELAY SR 1C-AD230(G)-PU | SA-SR1C-U230-G-PM |




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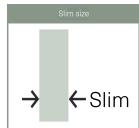
#### ORDER DETAILS

**Function:** 1 changeover contact, AC/DC universal coil, control voltage: 6/12/24/48/110/230 V DC/AC,, contact load: 6 A, Push-in wiring, 6 mm wide, CE, UL and RoHS compliant

**SKU/Order No.:** SA-SR1C-U....-PM



## Features



### Slim Design

Takes lesser space as the socket is slim designed.



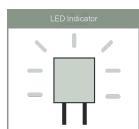
### 6 A switching capability

Contact rating 6 A



### DIN rail mounting

The socket can be mounted on a DIN rail.



### LED Indicator

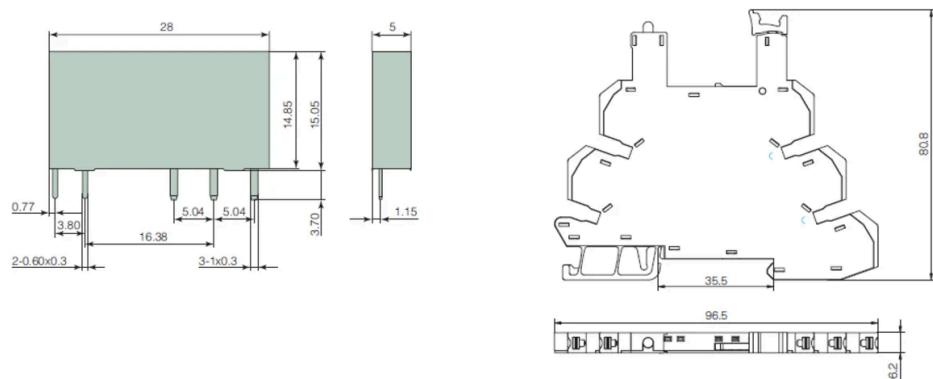
Relay comes with an LED indicator that indicates the ON status of the relay.



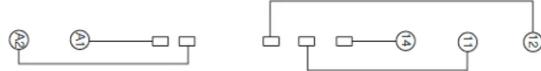
### High insulation capability

High insulation capability of 5 kV surge voltage between input and output

## Mechanical Dimensions



## Drawings



RELAY SR... PU Wiring Diagram

# Technical Data

## Contact Characteristics

|                            |                        |
|----------------------------|------------------------|
| Contact form               | 1 changeover contacts  |
| Maximum switching capacity | 1500 VA / 180 W        |
| Rated resistive load       | 6 A - 250 V AC / 30 DC |

## Contact Data

|   |   |
|---|---|
| Contact material                            | Silver alloy contacts   |
| Contact resistance                          | $\leq 100 \text{ m}\Omega$ (1 A 6 V DC)   |
| Electrical endurance (number of operations) | NO - $3 \times 10^4$ cycles (room temperature 23 °C, 1.5s on 1.5s off, resistive)/<br>NC - $1 \times 10^4$ cycles (room temperature 23 °C, 1.5s on 1.5s off, resistive) |
| Mechanical endurance (number of operations) | $1 \times 10^7$ cycles  |

## Ambient Condition

|                                     |  |
|-------------------------------------|--|
| Operating Humidity (non-condensing) | 20 % ~ 85 % RH   |
| Impact / Shock                      | Stable operation 100 m/s <sup>2</sup> / Damage limit 1000 m/s <sup>2</sup> |
| Vibration                           | 10 Hz ~ 55 Hz, 1 mm dual amplitude   |
| Ambient Temperature (operating)     | -40 °C ~ 85 °C   |

## Certification

|               |              |
|---------------|--------------|
| Certification | CE, UL, RoHS |
|---------------|--------------|

## Mechanical Data

|               |                   |
|---------------|-------------------|
| Weight (typ.) | App. 5 g + 22.5 g |
|---------------|-------------------|

## Dimensions

|             |    |
|-------------|----|
| Width (mm)  | 6  |
| Height (mm) | 96 |

## Characteristics

|   |                     |
|---|---------------------|
| Operate time (at rated voltage)                 | 8 ms max.           |
| Release time (at rated voltage)                 | 4 ms max.           |
| Insulation resistance                           | 1000 MΩ ( 500 V DC) |
| Dielectric strength (between coil and contacts) | 5000 V AC 1 min.    |
| Dielectric strength (between open contacts)     | 1000 V AC 1 min.    |

## Interface

|               |     |
|---------------|-----|
| LED indicator | Yes |
|---------------|-----|

## Coil Data

|                                  |  |
|----------------------------------|--|
| Max. continuous voltage at 23 °C | 120 % Rated Voltage                                      |
| Making voltage 23 °C             | 80 % Rated voltage guaranteed making                     |
| Breaking voltage 23 °C           | 5 % Rated voltage guaranteed breaking                    |
| Rated power                      | App. 0.18 W at 12 V ~24 V/ 0.25 W at 48 V/ 0.4 W at 60 V |

## Socket Contact Characteristics

|   |                                       |
|---|---------------------------------------|
| Rated Current                               | 6 A                                   |
| Rated Voltage                               | 250 V                                 |
| Dielectric withstand voltage (coil-contact) | 4000 V/S                              |
| Dielectric withstand voltage (Intercontact) | 2500 V/S                              |
| External connection wire                    | 20~16 AWG / 0.5 ~ 1.5 mm <sup>2</sup> |