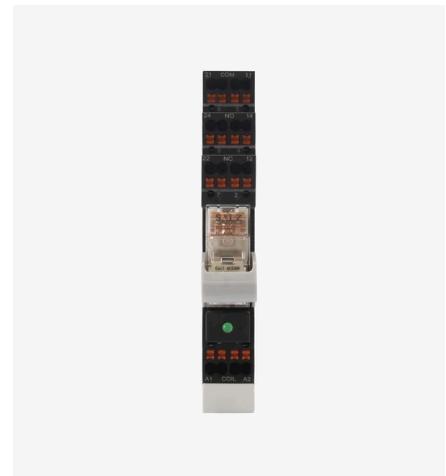


# RELAY CP 1C-AC-KIT

Series CP Relay 1 changeover contact 24/48/110/230 V AC



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

The preassembled relay kit from the CP series is a compact combination of a plug-in industrial relay with 24/48/110/230 V AC with changeover contact and a socket. The socket has Push-in connection terminals that simplify the wiring process. The kit is 16.5 mm wide and suitable for various mounting applications. The featured changeover contact makes it versatile for controlling multiple electrical circuits. The variants are available in different voltages, operating with a control voltage of 24/48/110/230 V AC, and can handle a contact load of 16 A. Additionally, it complies with CE, UL, and RoHS standards, ensuring the highest safety and environmental adherence in its design and manufacturing.

### Available Variants:

| Variant Name            | SKU               |
|-------------------------|-------------------|
| RELAY CP 1C-A24-KIT     | SA-CP1C-A24-PM    |
| RELAY CP 1C-A48-KIT     | SA-CP1C-A48-PM    |
| RELAY CP 1C-A110-KIT    | SA-CP1C-A110-PM   |
| RELAY CP 1C-A230-KIT    | SA-CP1C-A230-PM   |
| RELAY CP 1C-A230(G)-KIT | SA-CP1C-A230-G-PM |

**RELAY GS 2C - D12 - L T (G)**

RELAY GS  
Relay Series Name

Contact type  
2C: 2 sets of changeover contacts  
4C: 4 sets of changeover contacts

Coil voltage type  
DC: D12, D24, D48, D110, D220  
AC: A12, A24, A48, A110, A23, A380

Gold plated contacts  
Default: No  
(G): Yes

Availability of mechanical indicator  
windows and test buttons  
Default: without mechanical indicator  
window and test button  
T: with mechanical indicator window  
and test button (Red for AC coils and  
blue for DC coils)

With or without indicator  
Default: without LED light  
L: with LED light

---

**ORDER DETAILS**

**Function:** 1 changeover contact, control voltage: 24/48/110/230 V AC variants, contact load: 16 A, Push-in wiring, 16.5 mm wide, CE, UL, and RoHS compliant

**SKU/Order No.:** SA-CP1C-A....-PM



## Features



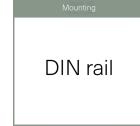
### Slim Design

Takes lesser space as the socket is slim designed.



### 16 A switching capability

Contact rating 16 A



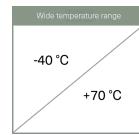
### DIN rail mounting

The socket can be mounted on a DIN rail.



### High insulation capability

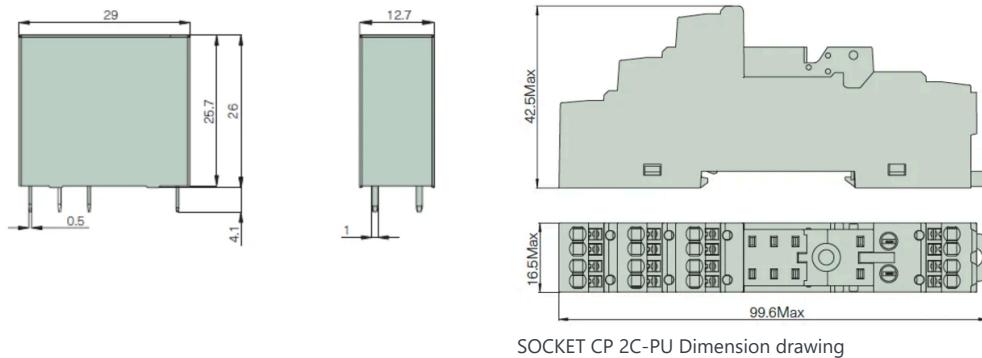
High insulation capability of 5 kV surge voltage between input and output



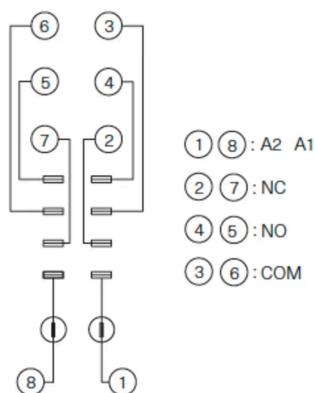
### Wide Operating Temperature

Relay's housing featuring wide operating temperature range designed for harsh environments.

## Mechanical Dimensions



## Drawings



SOCKET CP 2C-PU Wiring Diagram

# Technical Data

## Contact Characteristics

|                            |                      |
|----------------------------|----------------------|
| Contact form               | 1 changeover contact |
| Maximum switching capacity | 4000 VA / 480 W      |
| Rated resistive load       | 16 A - 250 V AC      |

## Contact Data

|   |  |
|---|--|
| Contact material                            | Silver alloy / gold plated contacts  |
| Contact resistance                          | $\leq 100 \text{ m}\Omega$ (1 A 6 V DC)  |
| Electrical endurance (number of operations) | $3 \times 10^4$ cycles (room temperature 23 °C, 1.5 s on 1.5 s off, resistive) / NO<br>$- 1 \times 10^5$ cycles (room temperature 23 °C, 1.5 s on 1.5 s off, resistive) / NC<br>$- 5 \times 10^4$ cycles (room temperature 23 °C, 1.5 s on 1.5 s off, resistive) |
| Mechanical endurance (number of operations) | $1 \times 10^7$ cycles   |

## Ambient Condition

|                                     |   |
|-------------------------------------|---|
| Operating Humidity (non-condensing) | 30 % ~ 85 % RH  |
| Impact / Shock                      | Stable operation 98m/s <sup>2</sup> / Damage limit 980 m/s <sup>2</sup> |
| Vibration                           | 10 Hz ~ 55 Hz, 1 mm dual amplitude                                      |
| Ambient Temperature (operating)     | -40 °C ~70 °C   |

## Certification

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

## Mechanical Data

|               |                    |
|---------------|--------------------|
| Weight (typ.) | App. 20 g + 41.5 g |
|---------------|--------------------|

## Dimensions

|             |      |
|-------------|------|
| Width (mm)  | 16.5 |
| Height (mm) | 42.5 |

## Characteristics

|   |                     |
|---|---------------------|
| Operate time (at rated voltage)                 | 20 ms max.          |
| Release time (at rated voltage)                 | 20 ms max.          |
| Insulation resistance                           | 1000 MΩ ( 500 V DC) |
| Dielectric strength (between coil and contacts) | 5000 V AC 1min.     |
| Dielectric strength (between contact sets)      | 3000 V AC 1min.     |
| Dielectric strength (between open contacts)     | 1000 V AC 1min.     |

## Interface

|                      |     |
|----------------------|-----|
| LED indicator        | Yes |
| Mechanical indicator | No  |
| Test button          | No  |

## Coil Data

|                                  |  |
|----------------------------------|--|
| Max. continuous voltage at 23 °C | 110 % Rated Voltage                    |
| Making voltage 23 °C             | 80 % Rated voltage guaranteed making   |
| Breaking voltage 23 °C           | 30 % Rated voltage guaranteed breaking |
| Rated power                      | App. 1.0 VA                            |
| Socket coil resistance at 23 °C  | 23000 Ω ±10 % at 23 °C                 |

## Socket Contact Characteristics

|   |                                       |
|---|---------------------------------------|
| Rated Current                               | 16 A                                  |
| Rated Voltage                               | 300 V                                 |
| Dielectric withstand voltage (coil-contact) | 4000 V/S                              |
| Dielectric withstand voltage (Intercontact) | 2500 V/S                              |
| External connection wire                    | 20~14 AWG / 0.5 ~ 2.5 mm <sup>2</sup> |