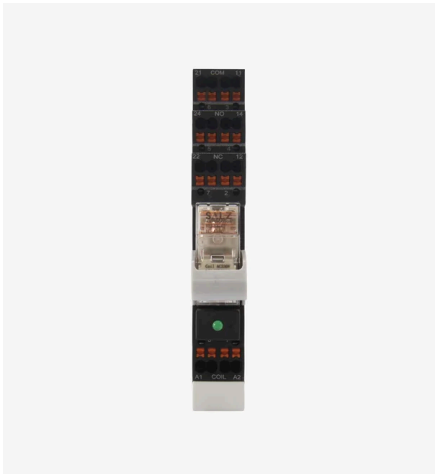
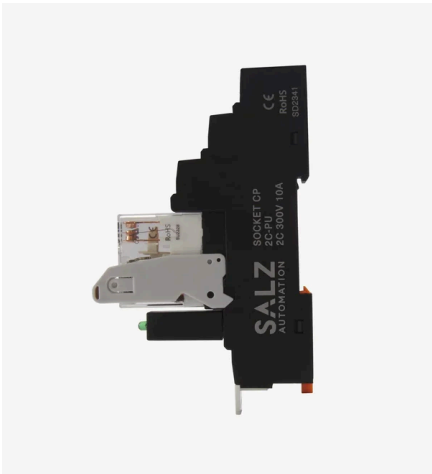


# RELAY CP 1C-DC-KIT

Series CP Relay 1 changeover contact 12/24/48/110 V DC

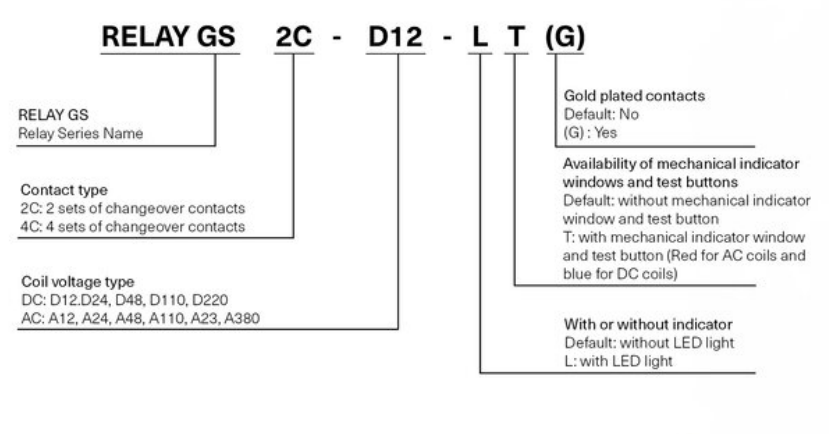


**Preassembled relay with 1 changeover contact and socket with Push-in connection technology**

The preassembled relay kit from the CP series is a compact combination of a plug-in industrial relay with 12/24/48/110 V DC with a 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, which operate with a control voltage of 12/24/48/110 V DC 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-D12-KIT	SA-CP1C-D12-PM
RELAY CP 1C-D24-KIT	SA-CP1C-D24-PM
RELAY CP 1C-D24(G)-KIT	SA-CP1C-D24-G-PM
RELAY CP 1C-D48-KIT	SA-CP1C-D48-PM
RELAY CP 1C-D110-KIT	SA-CP1C-D110-PM

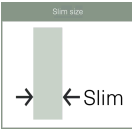


ORDER DETAILS

**Function:** 1 changeover contact, control voltage: 12/24/48/110 V DC variants , contact load: 16 A , Push-in wiring, 16.5 mm wide, CE, UL, and RoHS compliant  
**SKU/Order No.:** SA-CP1C-D.....-PM



# Features



## Slim Design

Takes lesser space as the socket is slim designed.



## 16 A switching capability

Contact rating 16 A



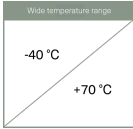
## DIN rail mounting

The socket can be mounted on a DIN rail.



## High insulation capability

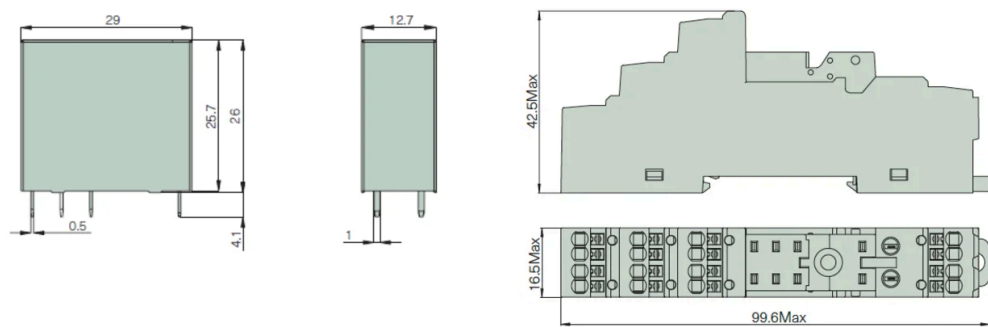
High insulation capability of 5 kV surge voltage between input and output



## Wide Operating Temperature

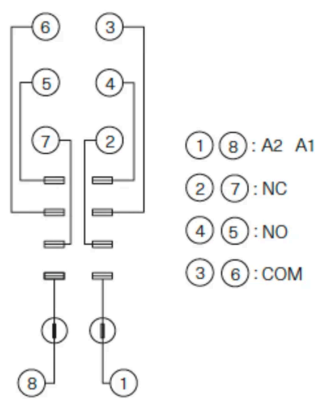
Relay's housing featuring wide operating temperature range designed for harsh environments.

# Mechanical Dimensions



SOCKET CP 2C-PU Dimension drawing

# 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 - 30 V DC

## Contact Data

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

## Ambient Condition

Operating Humidity (non-condensing)	30 % ~ 85 % RH
Impact / Shock	Stable operation 98 m/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
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## Mechanical Data

Weight (typ.)	App. 20 g + 41.5 g
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## 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 M $\Omega$ ( 500 V DC)
Dielectric strength (between coil and contacts)	5000VAC 1 min.
Dielectric strength (between contact sets)	3000VAC 1 min.
Dielectric strength (between open contacts)	1000VAC 1 min.

## 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	75 % Rated voltage guaranteed making
Breaking voltage 23 °C	10 % Rated voltage guaranteed breaking
Rated power	App. 0.53 W
Socket coil resistance at 23 °C	1100 $\Omega$ $\pm$ 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>