

RELAY CP FC-2C-D24-KIT

Series CP Relay with force-guided 1NO & 1NC contacts 24 V DC



Preassembled relay with 1NO & 1NC force-guided contacts 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 force-guided contacts with 24 V DC with one normally open and one normally closed 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 relay operates with a 24 V DC control voltage and is capable of handling a 6 A contact load. Additionally, it complies with CE and RoHS standards, ensuring the highest safety and environmental adherence in its design and manufacturing.

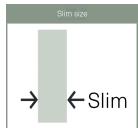
ORDER DETAILS

Function: 1 normally open and 1 normally closed, Multi-contact arrangement: 2 Form C, control voltage: 24 V DC, contact load: 6 A, Push-in wiring, 16.5 mm wide, CE and RoHS compliant

SKU/Order No.: SA-CP-FG-2C-D24-PM



Features



Slim Design

Takes lesser space as the socket is slim designed.



6 A switching capability

Contact rating 6 A



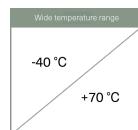
DIN rail mounting

The socket can be mounted on a DIN rail.



High insulation capability

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



Wide Operating Temperature

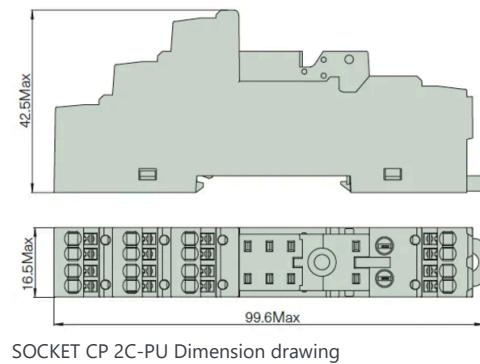
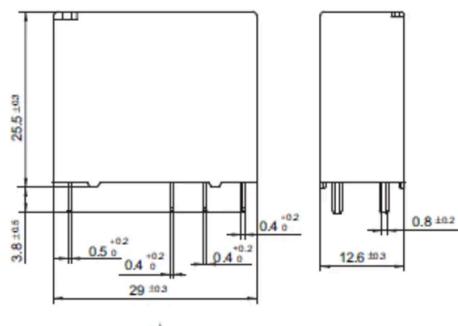
Relay's housing featuring wide operating temperature range designed for harsh environments.



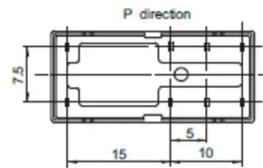
With finger protection device

To cover the screws and to avoid dangerous situations

Mechanical Dimensions

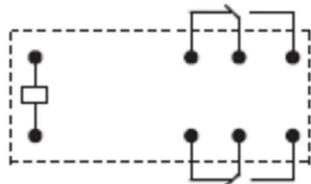


SOCKET CP 2C-PU Dimension drawing

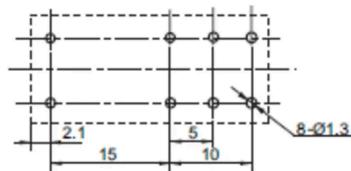


Drawings

Wiring Diagram



PCB Layout (Bottom view)



Technical Data

Contact Characteristics

Contact form	1 normally open and 1 normally closed
Maximum switching capacity	1500 VA / 180 W
Rated resistive load	6 A - 30 V DC

Contact Data

Contact material	Silver alloy (AGSnO2)
Contact resistance	$\leq 100 \text{ m}\Omega$ (1A 6 V DC)
Electrical endurance (number of operations)	1×10^5 cycles (1NO: 6A 250VAC/30VDC, Resistive load at 70 °C. 1s on 9s off) $\sim 5 \times 10^4$ cycles (1NC: 6A 250VAC/30VDC, Resistive load, at 70°C. 1s on 9s off)
Mechanical endurance (number of operations)	1×10^7 cycles

Ambient Condition

Operating Humidity (non-condensing)	5 % ~ 85 % RH
Impact / Shock	Stable operation- NO: 98 m/s ² , NC: 49 m/s ² / Damage limit 980 m/s ²
Vibration	NO: 10 Hz ~ 55 Hz, 1.6mm dual amplitude, 55 Hz ~ 200 Hz 98 m/s ² ; NC: 10 Hz ~ 55 Hz, 0.4mm dual amplitude
Ambient Temperature (operating)	-40 °C ~ 70 °C

Certification

Certification	CE, 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)	15 ms max.
Release time (at rated voltage)	10 ms max.
Insulation resistance	1000 MΩ (500 V DC)
Dielectric strength (between coil and contacts)	4000 V AC 1min.
Dielectric strength (between contact sets)	3000 V AC 1min.
Dielectric strength (between open contacts)	1500 V AC 1min.

Interface

LED indicator	No
Mechanical indicator	No
Test button	No

Coil Data

Max. continuous voltage at 23 °C	150 % Rated Voltage
Making voltage 23 °C	75 % Rated voltage guaranteed making
Breaking voltage 23 °C	10 % 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	6 A
Rated Voltage	24 V
Dielectric withstand voltage (coil-contact)	4000 V/S
Dielectric withstand voltage (Intercontact)	3000 V/S
External connection wire	20~14 AWG / 0.5 ~ 2.5 mm ²