

PCF series

25A Miniature Power PC Board Relay

Appliances, HVAC, Office Machines.

N UL File No. E58304 CSA File No. LR48471 🛕 TUV File No. R9551880

Users should thoroughly review the technical data before selecting a product part number. It is recommended that user also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

Features

- Meet UL 508, CSA, TUV requirements.
- 1 Form A contact arrangements.
- Quick connect terminal type and PC board type.
- Meet 5,000V dielectric voltage between coil and contacts.
- Meet 10,000V surge voltage between coil and contacts (1.2 / 50μs).

Contact Data @ 20°C Arrangements: 1 Form A.

Material: AgSnO

Max. Switching Rate: 300 ops./min. (no load).

30 ops./min. (rated load).

Expected Mechanical Life: 10 million operations (no load) Expected Electrical Life: 100,000 operations (rated load).

Minimum Load: 100mA @ 5VDC:

Initial Contact Resistance: 100 milliohms @ 1A, 6VDC.

Contact Ratings

Ratings: 25A @ 250VAC resistive. 23A @ 277VAC resistive.

20A @ 250VAC inductive (cosø= 0.4).

Max. Switched Voltage: AC: 250V Max. Switched Current: 25A Max. Switched Power: 6,370VA

Initial Dielectric Strength

Between Open Contacts: 1,000VAC 50/60 Hz. (1 minute). Between Coil and Contacts: 5,000VAC 50/60 Hz. (1 minute). Surge Voltage Between Coil and Contacts: 8,000V (1.2 / 50µs).

Initial Insulation Resistance

Between Mutually Insulated Elements: 1,000M ohms min. @ 500VDC.

Coil Data

Voltage: 6 to 24VDC. Nominal Power: 900 mW.

Coil Temperature Rise: 55°C max., at rated coil voltage

Max. Coil Power: 130% of nominal.

Duty Cycle: Continuous.

Coil Data @ 20°C

PCF / PCFN				
Rated Coil	Nominal	Coil	Must Operate	Must Release
Voltage	Current	Resistance	Voltage	Voltage
(VDC)	(mA)	(ohms) ± 10%	(VDC)	(VDC)
06	150.0	40	4.50	0.30
09	100.0	90	6.75	0.45
12	75.0	160	9.00	0.60
24	37.5	640	18.00	1.20

Operate Data

Must Operate Voltage: 75% of nominal voltage or less. Must Release Voltage: 5% of nominal voltage or more.

Operate Time: 20 ms max. Release Time: 10 ms max.

Environmental Data

Temperature Range:

Operating: -30°C to +55°C

Vibration, Mechanical: 10 to 55 Hz., 1.5mm double amplitude Operational: 10 to 55 Hz., 1.5mm double amplitude.

Shock, Mechanical: 1,000m/s² (100G approximately). Operational: 100m/s² (10G approximately). Operating Humidity: 20 to 85% RH. (Non-condensing)

Mechanical Data

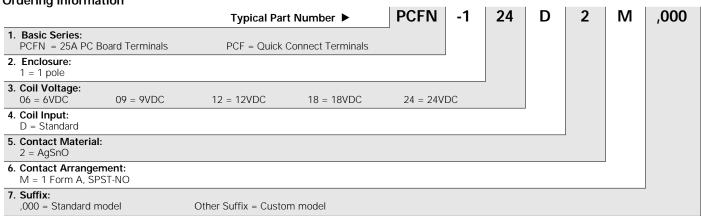
Termination PCF: Printed circuit terminals with quick connect terminals.

PCFN: Printed circuit terminals. Enclosure (94V-0 Flammability Ratings):

PCF / PCFN: Vented (Flux-tight) plastic cover.

Weight: 0.99 oz (28g) approximately.

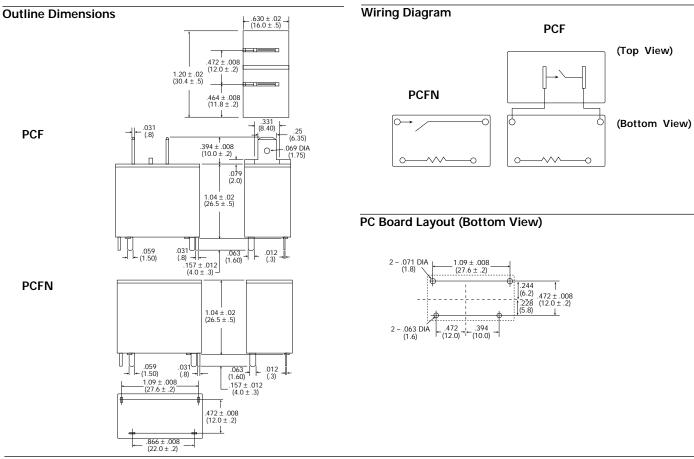
Ordering Information



^{*} Not suitable for immersion cleaning processes.

Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

None at present.



Reference Data

