



PCF series

25A Miniature Power PC Board Relay

Appliances, HVAC, Office Machines.

A1 UL File No. E58304

③ CSA File No. LR48471

🛕 TUV File No. R9551880

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.

Coil Data @ 20°C

PCF / PCFN				
Rated Coil Voltage (VDC)	Nominal Current (mA)	Coil Resistance (ohms) ± 10%	Must Operate Voltage (VDC)	Must Release Voltage (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
48	18.8	2,560	36.00	2.40

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.

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. @ 500VDCM.

Coil Data

Voltage: 3 to 48VDC. **Nominal Power:** 900 mW.

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

Max. Coil Power: 130% of nominal.

Duty Cycle: Continuous.

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: 10 to 55 Hz., 1.5mm double ampili Shock, Mechanical: 1,000m/s² (100G approximately). Operational: 100m/s² (10G approximately). Operating Humidity: 20 to 85% RH. (Non-condensing).

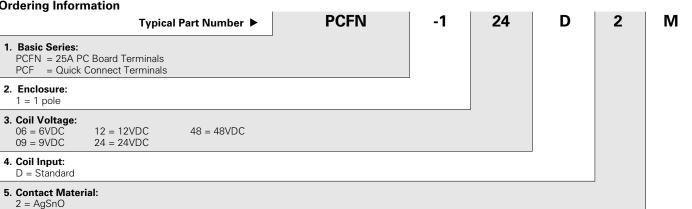
Mechanical Data

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.



6. Contact Arrangement: M = 1 Form A, SPST-NO

