



PCD/PCDF series

15 Amp Low Profile Power PC Board Relay

Appliances, HVAC, Office Machines

N UL File No. E82292 **(f)** CSA File No. LR48471 ▲ TUV File No. R9751117

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.

Coil Data @ 20°C

PCD &PCDF			
Must Operate Must Release voltage Voltage (VDC) (VDC)			
3.75 0.50			
4.50 0.60			
6.75 0.90			
9.00 1.20			
18.00 2.40			
36.00 4.80			

Features

• Low profile (10mm), 15 Amp switching capacity

• 1 Form A contact arrangement.

Sensitive 200mW coil (250mW on 48VDC coil)
Immersion cleanable, sealed version available.

Quick connect terminals available (PCDF).

Contact Data @ 20°C

Arrangements: 1 Form A (SPST-NO)

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: 15A @ 125VAC resistive (PCDF only, load must be carried

through QC terminals to achieve this rating),

10A @ 250VAC resistive, 10A @ 24VDC resistive.

5A @ 125VAC inductive (cosø= 0.4, L/R=7msec), 5A @ 24VDC inductive (cosø= 0.4, L/R=7msec).

Max. Switched Voltage: AC: 250V. DC: 24V. Max. Switched Current: 15A.

Max. Switched Power: 1,800VA, 240W.

Initial Dielectric Strength

Between Open Contacts: 750VAC 50/60 Hz. (1 minute). Between Coil and Contacts: 2,500VAC 50/60 Hz. (1 minute). Surge Voltage Between Coil and Contacts: 5,000V (1.2 / 50μ s).

Initial Insulation Resistance

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

Coil Data

Voltage: 5 to 48VDC.

Nominal Power: 200 mW except 48VDC coil (250mW). Coil Temperature Rise: 20°C max., at rated coil voltage

Max. Coil Power: 130% of nominal.

Duty Cycle: Continuous.

Operate Data

Must Operate Voltage: 75% of nominal voltage or less. Must Release Voltage: 10% of nominal voltage or more.

Operate Time: 15 ms max. Release Time: 8 ms max.

Environmental Data

Temperature Range:

Operating: -30°C to +70°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).

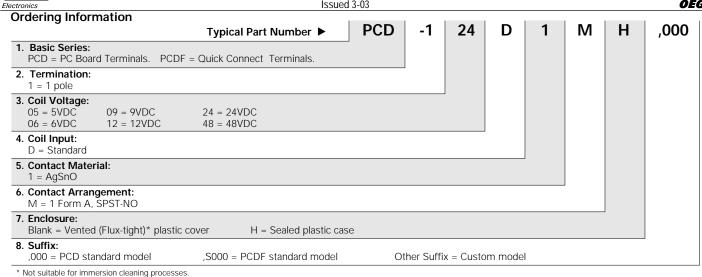
Mechanical Data

Termination: PCD: Printed circuit terminals.

PCDF: Printed circuit terminals and quick connect terminals.

Enclosure (94V-0 Flammability Ratings): Sealed plastic case.

Weight: PCD: 0.31 oz (9g) approximately. PCDF: 0.35 oz (10g) approximately.

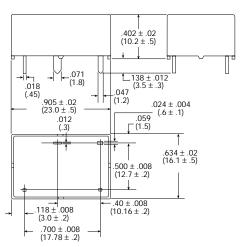


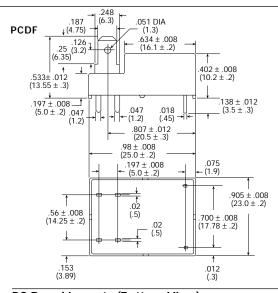
Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

None at present.



PCD

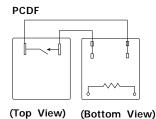




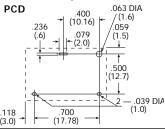
Wiring Diagrams

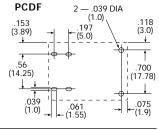
PCD





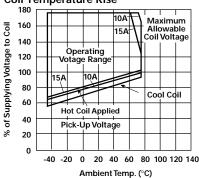
PC Board Layouts (Bottom View)





(Bottom View) **Reference Data**

Coil Temperature Rise



Note: This data is based on the max, allowable temperature for E type insulation coil (115°C).

