

PCD/PCDF series

15 Amp Low Profile Power PC Board Relay

Appliances, HVAC, Office Machines

Coil Data @ 20°C

PCD &PCDF										
Rated Coil Voltage (VDC)	Nominal Current (mA)	Coil Resistance (ohms) ± 10%	Must Operate Voltage (VDC)	Must Release Voltage (VDC)						
3	67.0	45	2.25	0.30						
5	40.0	125	3.75	0.50						
6	33.3	180	4.50	0.60						
9	22.5	400	6.75	0.90						
12	17.0	720	9.00	1.20						
24	8.6	2,880	18.00	2.40						
48	5.2	9,200	36.00	4.80						

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.

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 / 50μs).

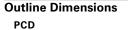
Initial Insulation Resistance Between Mutually Insulated Elements: 1,000M ohms min. @ 500VDCM.

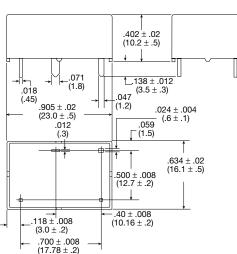
Coil Data

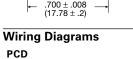
Voltage: 3 to 48VDC. Nominal Power: 200 mW except 48VDC coil (250mW). Coil Temperature Rise: 20°C max., at rated coil voltage. Max. Coil Power: 130% of nominal. Duty Cycle: Continuous.

DEG		PCD/PCDF Series Relays							
Ordering Infor			▶ PCD	-1	24		1	N/I	
	Т	ypical Part Number		- 1	24	D	1	M	н
1. Basic Series: PCD = PC Boa	rd Terminals. PCD	F = Quick Connect Ter	minals.						
2. Termination: 1 = 1 pole									
3. Coil Voltage: 03 = 3VDC 05 = 5VDC	06 = 6VDC 09 = 9VDC	12 = 12VDC 24 = 24VDC	48 = 48VDC						
4. Coil Input: D = Standard									
5. Contact Mate 1 = AgSnO	rial:						_		
6. Contact Arran M = 1 Form A,								-	
7. Enclosure: Blank = Vented	d (Flux-tight)* plasti	c cover H = Sea	aled plastic case						

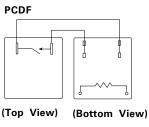
* Not suitable for immersion cleaning processes.

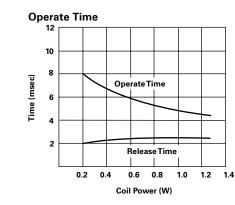


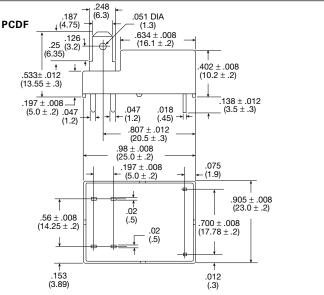


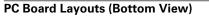


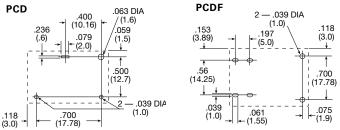


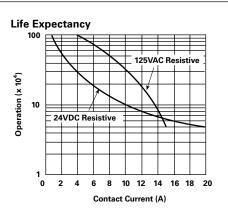












(Bottom View)



