

PCF series

25A Miniature Power PC Board Relay

Appliances, HVAC, Office Machines.

♥ 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.

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							

Features

Contact Data @ 20°C

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).

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. **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).

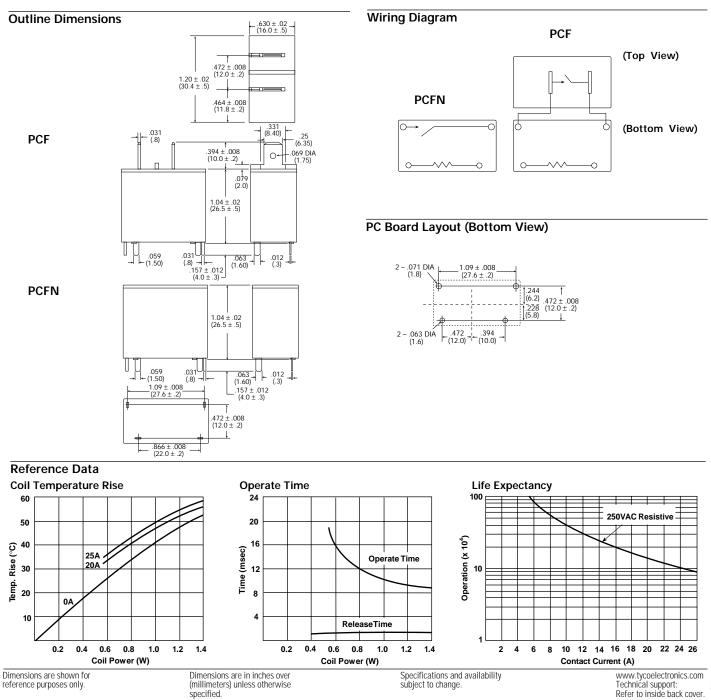
Mechanical Data

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.

Dimensions are in inches over (millimeters) unless otherwise specified Specifications and availability subject to change.

T YCO	Catalog 1308242 Issued 3-03							OE
Ordering Information								
	Typical Part Number 🕨	PCFN	-1	24	D	2	M	,000
1. Basic Series: PCFN = 25A PC Board Terminals	PCF = Quick Connect Terminals							
2. Enclosure: 1 = 1 pole			-					
3. Coil Voltage: 06 = 6VDC 09 = 9VDC	12 = 12VDC 18 = 18VDC	24 = 24V	24 = 24VDC					
4. Coil Input: D = Standard					_			
5. Contact Material: 2 = AgSnO						-		
6. Contact Arrangement: M = 1 Form A, SPST-NO							-	
7. Suffix: ,000 = Standard model	Other Suffix = Custom model							_

Our authorized distributors are more likely to maintain the following items in stock for immediate delivery. None at present.



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