

# Low Profile Latching PCB Power Relay

**PC375L**



## FEATURES

- Up to 16 Amp Continuous Contact Capacity
- 5 KV Dielectric Strength Between Coil and Contacts
- 1 Form A to 2 Form C Contact Forms Available
- Low Profile Design, .62 in. Tall
- Meets UL 873 Spacing
- 85°C Operating Temperature
- RoHS Compliant

## UL / CUL Ratings



Load Type	All Forms, All Contacts
General Purpose	16 A at 250 VAC*
	16 A at 30 VDC
Resistive	16 A at 250 VAC
Motor	1 HP at 240 VAC
Inductive	360 W at 125 VAC (1 Amp Only)
TV-5	120 VAC (1 Amp Only)

## CONTACT DATA

Max Switching Power	4,000 VA	
Max. Switching Voltage	440 VAC	
Max Switching Current	20 A	
Material	AgSnO <sub>2</sub> (Silver Tin Oxide)	
Initial Contact Resistance	50 mΩ max @ 1 A, 6 VDC	
Service Life	Mechanical	5 X 10 <sup>6</sup> Operations
	Electrical	5 X 10 <sup>4</sup> Operations

## CHARACTERISTIC

Operate Time	< 10 ms
Release Time	< 10 ms
Insulation Resistance	1,000 MΩ min, at 500 VDC
Dielectric Strength	5000 V, 50 Hz. between contact and coil
	1000 V, 50 Hz. between open contacts
Shock Resistance	98 m/s <sup>2</sup> 11ms
Power Consumption	0.4 W Single Coil, 0.6 W Dual Coil

## CHARACTERISTIC CONTINUED

Creepage Distance	8.4 mm
Vibration Resistance	10 - 55 Hz, DA 1.5 mm,
Terminal Strength	10N
Solderability	260 °C for 5 seconds
Ambient Temperature Range	- 40°C to 85°C
Relative Humidity	85% (at 40°C)
Weight	13 g

## ORDERING INFORMATION

Model:	PC375L	-1C	-12	S	-L1	R	-X
Contact Form:	1A or 1C						
Coil Voltage:	3, 5, 6, 9, 12, 24						
Enclosure:	S: Sealed; C: Dust Cover						
Contact Plating:	Nil: Standard, G: Gold						
Version:	L1: Single Coil, L2: Dual Coil						
Polarity:	Nil: Standard, R: Reverse Polarity						
RoHS Compliant:	-X						

Box Quantity: 1,000; Inner Box: 500

COIL DATA

Coil Voltage		Coil Power		Must Operate Voltage Max (VDC)	Must Release Voltage Min. (VDC)
		Resistance ohms ± 10%			
Rated	Max	Single Coil .4W	Dual Coil .6W		
3	4.0	22.5	2 X 15	2.4	0.5
5	6.5	62.5	2 X 42	4.0	0.6
6	7.8	90.0	2 X 60	4.8	0.9
9	11.7	202.5	2 X 135	7.2	1.2
12	15.6	360.0	2 X 240	9.6	2.4
24	31.2	1440	2 X 886	19.2	4.8

NOTES:

The use of any coil voltage less than the rated voltage will compromise the operation of the relays. Must Operate Voltage is listed for test purposes only and is not to be used as design criteria. Pickup and release voltages are for test purposes only and are not to be used as design criteria.

DIMENSIONS (mm/inches)

