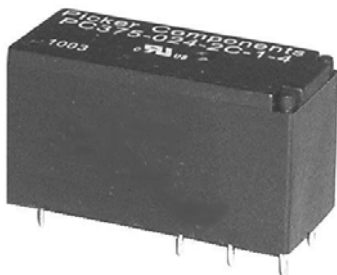


# Low Profile Minature PCB Power Relay

# PC375



## FEATURES

- Up to 16 Amp contact capacity
- Rated up to 277 VAC
- 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
- Up to 85 degrees C operating temperature
- **Now available Lead Free & RoHS Compliant**



File # E93379

## UL/CUR RATINGS

Version	1 and 2	3	4
General Purpose	12 A / 250 VAC 12 A / 30 VDC	16 A / 250 VAC 16 A / 30 VDC	8 A / 277 VAC 8 A / 30 VDC
Cycles Tested	100K AC & DC	100K AC & DC	100K AC & DC
Max Switching Power	3000 VA	4000 VA	2 x 1250 VA
Max Switching Voltage	380 VAC / 60 VDC		

## CONTACT DATA

Material	AgSnO (Silver Tin Oxide)	
Initial Contact Resistance	50 milliohms max @ 1A, 6VDC	
Service Life	Mechanical	1 X 10 <sup>7</sup> Operations
	Electrical	1 X 10 <sup>5</sup> Operations

## CHARACTERISTICS

Operate Time	7 ms. Max.
Release Time	3 ms. Max.
Insulation Resistance	1,000 megohms min, at 500VDC, 50%RH
Dielectric Strength	5000 Vrms, 1 min. between coil and contacts 1000 Vrms, 1 min. between open contacts 2500 Vrms, 1 min. between contact poles
Shock Resistance	10 g, 11ms, functional; 100 g, destructive
Vibration Resistance	DA 2 mm, 10-50 Hz
Power Consumption	0.4 Watts or .25 Watts 1 pole 12 amp relay
Ambient Temperature Range	-40 to 85 C, -40 to 130 C storage
Weight	13.5 grams approx.

## ORDERING INFORMATION

Example: PC375 -1C -12 S 2 H -X

Model	PC375	-1C	-12	S	2	H	-X
Contact Form	1A, 1B, 1C, 2A, 2B, or 2C						
Coil Voltage							
Enclosure	S: Sealed; C: Dust Cover						
Version	1: 1 Pole, 12 A; 3.5 mm    2: 1 Pole, 12 A; 5 mm 3: 1 Pole, 16 A; 5 mm    4: 2 Pole, 8 A; 5 mm						
Coil Sensitivity (Only for 1 Pole 12 Amp Version)	Nil: 400 Mw; H: 250 Mw.						
RoHS Compliant	Nil: Not RoHS, -X: RoHS Compliant						

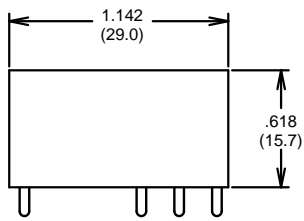
**COIL DATA**

Coil Voltage	Resistance ohms $\pm$ 10%	Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)	Continuous Voltage Max. (VDC)
5	61	3.50	0.5	6.5
6	88	4.20	0.6	7.8
9	198	6.30	0.9	11.7
12	351	8.40	1.2	15.6
24	1405	16.8	2.4	31.2
48	5620	33.6	4.8	62.4

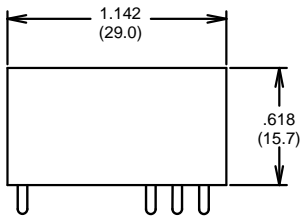
Note: Custom coil voltages within the ranges shown are available on special order.

**Dimensions in Inches (millimeters)**

**Side View**

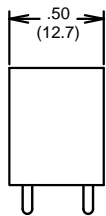
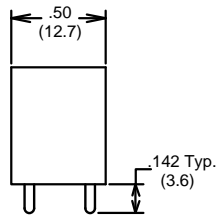


5 mm Version

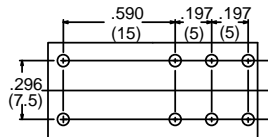


3.5 mm Version

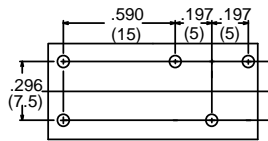
**End View**



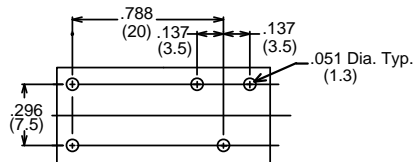
**Bottom View  
PC Board Layout**



5 mm SPDT 16 Amp  
5 mm DPDT 8 Amp

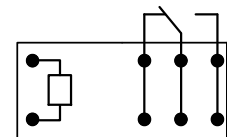


5 mm SPDT 12 AMP

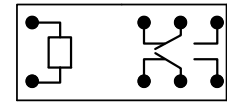


3.5 mm SPDT 12 Amp

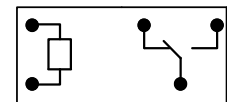
**Wiring Diagrams**



5 mm SPDT 16 Amp



5 mm DPDT 8 Amp



5 mm SPDT 12 Amp  
3.5 mm SPDT 12 Amp

**Notes:**

- Contact Form C shown
- On Contact Forms A & B Unused Pins are Omitted
- Tolerances  $\pm$  .010 unless otherwise noted



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