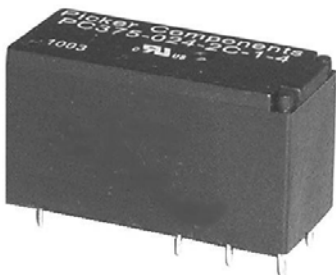


## Low Profile Minature PCB Power Relay

## PC375



### FEATURES

- Up to 16 Amp contact capacity
- Up to a full one horsepower at 250 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
- Class F (155 degrees C) insulation available



File # E93379

### UL/CUR RATINGS

Version	1 and 2	3	4
General Purpose	12 A / 277 VAC	16 A / 277 VAC	8 A / 277 VAC
Motor Load	1/2 HP / 250 VAC 1/3 HP / 125 VAC	1 HP / 250 VAC 1/3 HP / 125 VAC	1/2 HP / 250 VAC 1/4 HP / 125 VAC
Max Switching Power	4000 VA	3000 VA	2000 VA
Max Switching Voltage	440 VAC / 125 VDC		

### CONTACT DATA

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

### CHARACTERISTICS

<b>Operate Time</b>	7 ms. Max.
<b>Release Time</b>	3 ms. Max.
<b>Insulation Resistance</b>	1,000 megohms min, at 500VDC, 50%RH
<b>Dielectric Strength</b>	5000 Vrms, 1 min. between coil and contacts 1000 Vrms, 1 min. between open contacts 2500 Vrms, 1 min. between contact poles
<b>Shock Resistance</b>	10 g, 11ms, functional; 100 g, destructive
<b>Vibration Resistance</b>	DA 2 mm, 10-50 Hz
<b>Power Consumption</b>	0.4 Watts
<b>Ambient Temperature Range</b>	-40 to 70 C, -40 to 130 C storage
<b>Weight</b>	13.5 grams approx.

### ORDERING INFORMATION

Example:	PC375	-1C	-12	S	3	T	F
Model							
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						
Contact Material	Nil: AgCdO, T: AgSnO, N: AgNi 10						
Insulation System	Nil: Class B, F: Class F						

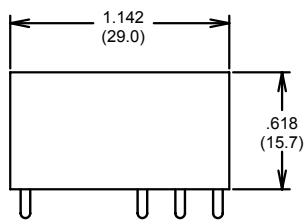
**COIL DATA**

Coil Voltage	Resistance ohms $\pm$ 10%	Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)	Continuous Voltage Max. (VDC)
5	62	3.50	0.5	5.5
6	90	4.20	0.6	6.6
12	360	8.40	1.2	13.2
24	1440	16.8	2.4	26.4
48	5760	33.6	4.8	52.8
60	7500	42.0	6.0	66.0
110	25200	77.0	11.0	121.0

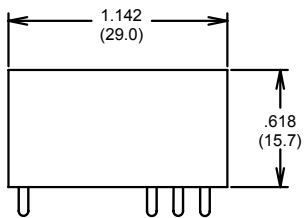
Note: Custom coil voltages within the ranges shown are available on special order.

**Dimensions in Inches (millimeters)**

**Side View**

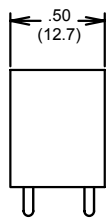
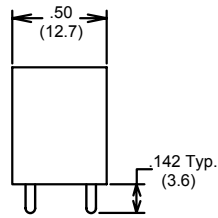


5 mm Version

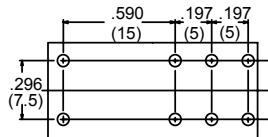


3.5 mm Version

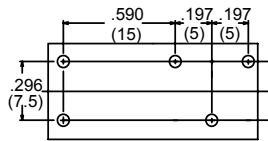
**End View**



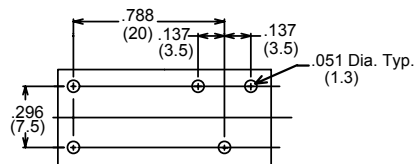
**Bottom View  
PC Board Layout**



5 mm SPDT 16 Amp  
5 mm DPDT 8 Amp

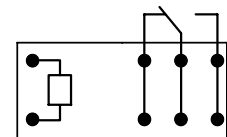


5 mm SPDT 12 AMP

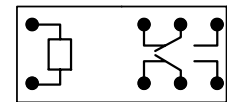


3.5 mm SPDT 12 Amp

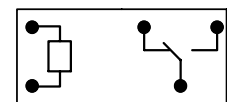
**Wiring Diagrams**



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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