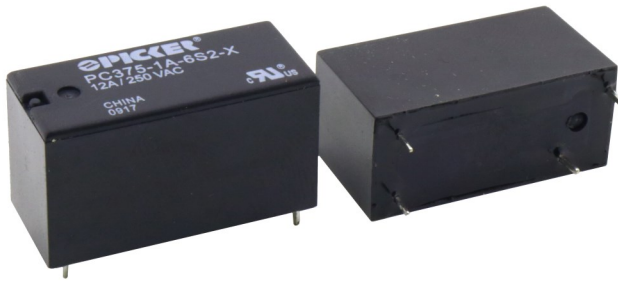


# Low Profile PCB Power Relay

**PC375**



## FEATURES

- Up to 16 Amp Continuous Contact Capacity
- Four Versions
- 5 KV Dielectric Strength Between Coil and Contacts
- Meets UL 873 Spacing
- Class F Material Standard
- 85°C Operating Temperature
- RoHS Compliant



## UL / CUL Ratings

Version	1		2		3		4*	
Form	1A SPST	1C SPDT	1A SPST	1C SPDT	1A2 SPST	1C2 SPDT	2A DPST	2C DPDT
Number of Pins	4	5	4	5	6	8	6	8
Contact Pin Spacing	3.5 mm	3.5 mm	5.0 mm	5.0 mm	5.0 mm	5.0 mm	5.0 mm	5.0 mm
Wire Diag (Bottom View)								
General Purpose	12 A 250 VAC 12 A 30 VDC		12 A 250 VAC 12 A 30 VDC		NC: 12 A 250 VAC NO: 16 A 250 VAC		8 A 277 VAC 8 A 30 VDC	
Resistive	12 A 250 VAC 12 A 30 VDC		12 A 250 VAC 12 A 30 VDC		16 A 277VAC 16 A 277 VAC		8 A 277 VAC 8 A 30 VDC	
Coil Power	410 mW		410 mW		410 mW		410 mW	
Max Switching Current	20 A							
Max Switching Power	480 W 5,600 VA						2 x 150 W 2 x 1,800 VA	
Max Switching Voltage	440 VAC 125 VDC							

## ORDERING INFORMATION

Example:	PC375	-1C	-12	S	2	-X		
Model:	<b>PC375</b>							
Contact Form:	<b>1A, 1C, 2A, or 2C</b>							
Coil Voltage ( VDC ):	<b>5, 6, 9, 12, 24</b>							
Enclosure:	<b>S: Sealed; C: Dust Cover</b>							
Version:	<b>1: 1 Pole, 1A or 1C, 12 A, 3.5 mm; 2: 1 Pole, 1A or 1C, 12 A, 5 mm; 3: 1 Pole, 1A2 or 1C2, 16 A, 5 mm; 4*: 2 Pole, 2A or 2C, 8 A, 5 mm</b>							
Coil Sensitivity:	<b>Nil: 410 mW</b>							
RoHS Compliant:	<b>-X</b>							
Contact Material:	<b>Nil: AgSnO<sub>2</sub></b>							
Insulation Material:	<b>Nil: Class F</b>							

Box Quantity: 1000; Inner Box: 500

\*Note: 12 & 24 VDC Coils Only

## COIL DATA

Coil Voltage		Resistance (Ohms $\pm 10\%$ )	Must Operate Voltage Max (VDC)	Must Release Voltage Min. (VDC)	Coil Power (mW)	Operate Time (mSec)	Release Time (mSec)
Rated	Max						
5	6.5	61	3.5	0.5	410	<15	<8
6	7.8	88	4.2	0.6			
9	11.7	198	6.3	0.9			
12	15.6	351	8.4	1.2			
24	31.2	1,405	16.8	2.4			

## 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.

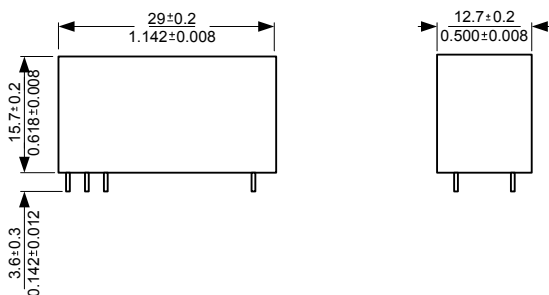
## CONTACT DATA

Material	AgSnO <sub>2</sub>	
Initial Contact Resistance	50 m $\Omega$ max @ 1 A, 6 VDC	
Service Life	Mechanical	1 X 10 <sup>7</sup> Operations
	Electrical	1 X 10 <sup>5</sup> Operations

## CHARACTERISTIC

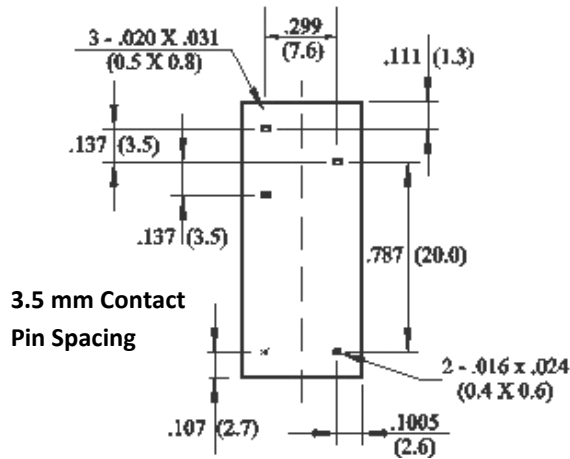
Operate Time	15 ms. Max.
Release Time	8 ms Max
Insulation Resistance	1,000 M $\Omega$ min, at 500 VDC, 50% RH
Dielectric Strength	5,000 V 50 HZ between coil and contacts
	1,000 V 50 HZ between open contacts
Power Consumption	410 mW
Shock Resistance	10 g, 11 ms, functional; 100 g, destructive
Vibration Resistance	10 Hz - 55 Hz DA 2.0 mm
Terminal Strength	10N
Solderability	260°C for 5 seconds
Operating Temperature Range	Class F Material: -40°C to 85°C
Relative Humidity	85% (at 40°C)
Weight	12 grams MAX

## DIMENSIONS

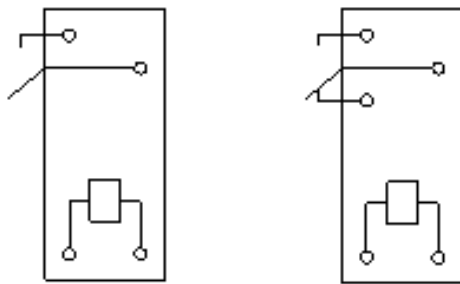


**DIMENSIONS**

**Version 1**



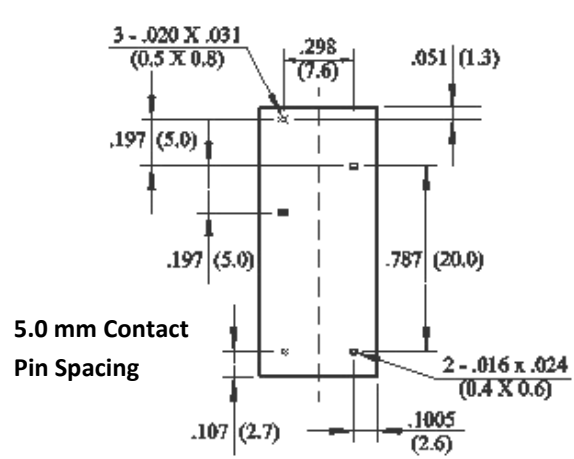
**3.5 mm Contact  
Pin Spacing**



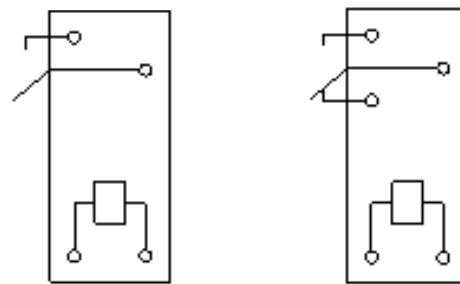
**1A  
4 Pin**

**1C  
5 Pin**

**Version 2**



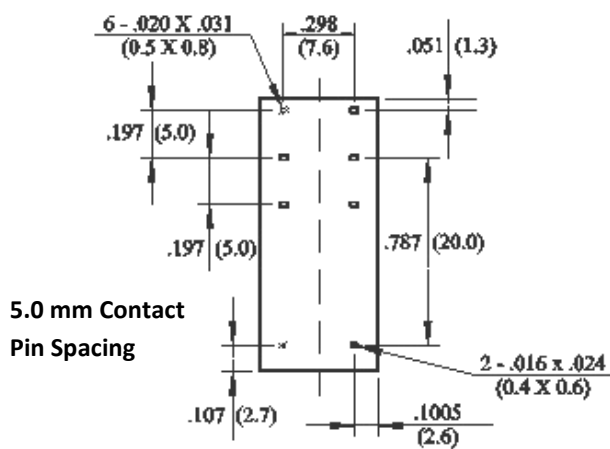
**5.0 mm Contact  
Pin Spacing**



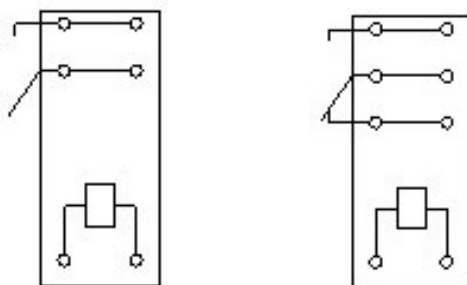
**1A  
4 Pin**

**1C  
5 Pin**

**Version 3**



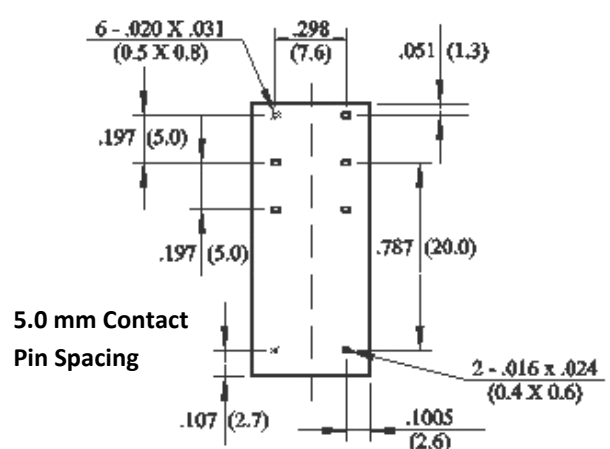
**5.0 mm Contact  
Pin Spacing**



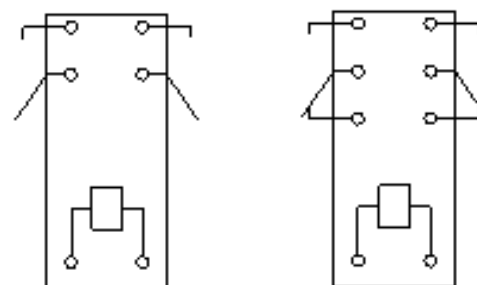
**1A2  
6 Pin**

**1C2  
8 Pin**

**Version 4**



**5.0 mm Contact  
Pin Spacing**



**2A  
6 Pin**

**2C  
8 Pin**