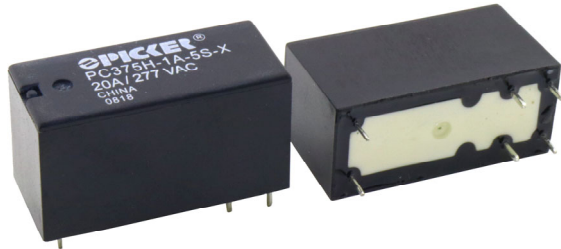


# 20 Amp Low Profile PCB Power Relay

**PC375H**



## FEATURES

- 20 Amp Continuous Contact Capacity
- 5 KV Dielectric Strength Between Coil and Contacts
- 1 Form A and 1 Form C Contact Forms Available
- Low Profile Design, 0.64 in. (16.1mm) Tall
- Meets UL 873 Spacing
- Class F Material Standard
- 85°C Operating Temperature
- RoHS Compliant
- See PC375 for 16 A Version and Additional Pinouts

## UL / CUL Ratings



Contact Form	1 Form A ( SPST ) or 1 Form C ( SPDT )	
	Normally Open	Normally Closed
Rated Load	20 A 250 VAC @ 85°C 16A 250 VAC 105°C 1 HP 120 VAC	12 A 250 VAC @ 85°C TV-5
Max Switching Current	20A / 277 VAC	16A / 277 VAC
Minimum Load	Au Plated	100 mA at 6 VDC
	Non-Au plated	50 mA at 6 VDC

## CONTACT DATA

Max Switching Power	5,000 VA	
Max. Switching Voltage	440 VAC	
Max Switching Current	20 A	
Material	AgSnO <sub>2</sub> (Silver Tin Oxide)	
Initial Contact Resistance	100 mΩ max @ 1 A, 6 VDC	
Service Life	Mechanical	1 X 10 <sup>7</sup> Operations
	Electrical	1 X 10 <sup>5</sup> Operations

## CHARACTERISTICS

Operate Time	<15 ms
Release Time	<8 mS
Insulation Resistance	1,000 MΩ min at 500 VDC
Dielectric Strength	5,000 V, 50 Hz between contact and coil
	1,000 V, 50 Hz between open contacts
Shock Resistance	Functional: 10 m/sec <sup>2</sup>
	Destructive: 100 m/sec <sup>2</sup>

## CHARACTERISTICS ( 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 grams

## ORDERING INFORMATION

Example:	PC375H	-1C	-12	S	G	N	-X
Model:	<b>PC375H</b>						
Contact Form:	<b>1A or 1C</b>						
Coil Voltage:	<b>5, 6, 9, 12, 24, 48</b>						
Enclosure:	<b>S: Sealed; C: Dust Cover</b>						
Contact Plating:	<b>Nil: Standard, G: Gold</b>						
Contact Material:	<b>Nil: AgSnO<sub>2</sub>; N: AgNi; G: AgSnO<sub>2</sub> + Au (Clad)</b>						
Coil Power:	<b>Nil: 450 mW; 0.25: 250 mW</b>						
RoHS Compliant:	<b>-X</b>						

Box Quantity: 1,000; Inner Box: 500

**COIL DATA**

Coil Voltage		Coil Power Resistance ± 10%	Must Operate Voltage MAX	Must Release Voltage MIN	Coil Power	Operate Time	Release Time
Rated	Max						
5	6.5	61	( VDC )	( VDC )	410	<15	<8
6	7.8	88	3.5	0.5			
9	11.7	198	4.2	0.6			
12	15.6	351	6.3	0.9			
24	31.2	1,405	8.4	1.2			
48	62.4	5,620	16.8	2.4			
5	6.5	100	33.6	4.8	250	<15	<8
6	7.8	144	4.2	0.6			
9	11.7	324	6.3	0.9			
12	15.6	576	8.4	1.2			
24	31.2	2304	16.8	2.4			
48	62.4	9216	33.6	4.8			
60	78	12857	42	6.0	280		

**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)**

