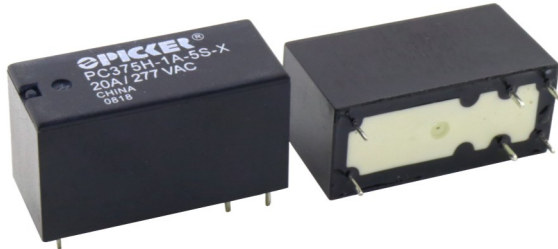


20 Amp Low Profile PCB Power Relay

PC375H



UL US PENDING

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

Contact Rating

Contact Form	1 Form A (SPST) or 1 Form C (SPDT)	
	Normally Open	Normally Closed
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	5,540 VA	
Max. Switching Voltage	440 VAC	
Max Switching Current	20 A	
Material	AgSnO ₂ (Silver Tin Oxide)	
Initial Contact Resistance	50 mΩ max @ 1 A, 6 VDC	
Service Life	Mechanical	1 X 10 ⁷ Operations
	Electrical	1 X 10 ⁵ 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 ²
	Destructive: 100 m/sec ²

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:	PC375H						
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						
Contact Material:	Nil: AgSnO₂; N: AgNi; G: AgSnO₂ + Au (Clad)						
RoHS Compliant:	-X						

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						
3	3.9	0.41W	(VDC)	(VDC)	(mW)	(mSec)	(mSec)
5	6.5	22	2.1	0.3	410	<15	<8
6	7.8	61	3.5	0.5			
9	11.7	88	4.2	0.6			
12	15.6	198	6.3	0.9			
15	19.5	351	8.4	1.2			
24	31.2	1,405	16.6	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.

DIMENSIONS (mm/inches)

