

Low Profile Miniature PCB Power Relay

PC378



FEATURES

- 10 Amp at 250 AC/30 VDC Contact Capacity
- 1A & 1C Contact Forms Available
- 5 KV Dielectric Strength Between Coil and Contacts
- 8 mm Creepage Distance Between Coil and Contacts
- Low Profile Design, .49 in. Tall
- Meets UL 873 Spacing
- Sealed, Immersion Cleanable
- RoHS Compliant



Load Type	Contact Form	
	1A (SPST-NO)	1C (SPDT)
General	10 A @ 250 VAC	10 A @ 250 VAC
	10 A @ 30 VDC	10 A @ 30 VDC
Max Switching Current	10 A	
Max. Switching Power	300 W 2,500 VA	
Max. Switching Voltage	125 VDC 440 VAC	

CONTACT DATA

Material		AgSnO ₂ , AgNi, AgSnO ₂ +Au (Clad)
Initial Contact Resistance		100 mΩ Max
Service Life	Electrical	1 x 10 ⁵ Operations
	Mechanical	1 x 10 ⁷ Operations

CHARACTERISTICS

Operate Time	10 ms Max.
Release Time	5 ms Max.
Insulation Resistance	1,000 MΩ Min at 500 VDC
Dielectric Strength	1,000 V 50Hz 1 min Between Contacts
	5,000 V 50Hz 1 min Between Contact and Coil
	2,500 V 50Hz 1 min Between Contact Sets
Terminal Strength	10 N
Power Consumption	220 mW - 290 mW

CHARACTERISTICS CONTINUED

Shock Resistance	Functional	NO: 100 m/s ²
		NC: 50 m/s ²
Vibration Resistance		10 Hz - 55 Hz Double Amplitude NO: 1.65 mm
		No Coil Voltage NC: 0.8 mm
Solderability	260°C ± 2°C 3 s ± 0.5 s	
Operating Temperature	- 40° C to 85° C	
Relative Humidity	35% - 85% at 40° C	
Weight	8 grams	

ORDERING INFORMATION

Example:	PC378	-2C	-12	S	C	-X
Model:	PC378					
Contact Form:	1A or 1C					
Coil Voltage:	5, 6, 12, 24, 48, 60					
Enclosure:	S: Sealed; C: Dust Cover					
Contact Material:	Nil: AgSnO₂; N: AgNi; G: AgSnO₂ + Au					
RoHS Compliant:	-X					

Box Quantity: 2,000; Inner Box 1,000

COIL DATA

Coil Voltage (VAC)		Resistance (Ohms ± 10%)	Must Operate Voltage Max (VAC)	Must Release Voltage Min (VAC)	Coil Power mW
Rated	Max				
5	6.5	113	3.5	0.5	220
6	7.8	164	4.2	0.6	220
9	11.7	360	6.3	0.9	230
12	15.6	620	8.4	1.2	230
18	23.4	1,295	12.7	1.8	250
24	31.2	2,350	16.8	2.4	250
48	62.4	8,000	33.6	4.8	290
60	78.0	12,500	42.0	6.0	290

DIMENSIONS inches (mm)

