

80 Amp PCB Latching Relay

PC12L



FEATURES

- Energy Saving Latching Operation
- 80 Amp Switching Capacity
- 4 kV Dielectric Between Contacts and Coil
- Single or Dual Coil
- Manual Topside Switch
- 39.0 x 25.0 x 15.0 mm Package Dimensions, Narrowest in the Industry
- Lead Free and RoHS Compliant

c \$1 US E93379

Load Type	Voltage	1 Form A (SPST-NO)
Resistive	277 VAC	80 A

These ratings are preliminary, additional ratings under test at UL.

CONTACT DATA

Maximum Switching Power		23,000 VA		
Maximum Switching Voltage		350 VAC		
Maximum Switching Current		50 A		
Material		AgSnO ₂		
Initial Contact Resistance		≤ 20 mΩ		
Service Life	Mechanical	5 X 106Operations		
	Electrical	1 X 10 ⁵ (60A), 5 X 10 ⁴ (60A),		

CHARACTERISTICS

≤ 15 msec		
≤ 15 msec		
≥ 50 msec		
1,000 MΩ min at 500 VDC		
50 Hz 1,500 V Between Contact		
50 Hz 4,000 V Between Contacts and Coil		
98 m/s ² 11 msec Functional		
980 m/s ² 11 msec, Survival		
1.5 W, 2 X 3.0 W		

Creep	8 mm		
Vibration Resistance	10 - 55 Hz Double Amplitude 1.5 mm		
Terminal Strentgh	10 N		
Solderability	235 °C ± 2°C 3 sec ± 0.5 sec		
Operating Temperature	- 40 to 70°C		
Storage Temperature	- 40 to 125°C		
Relative Humidity	85% at 40°C		
Weight	25 grams		

ORDERING INFORMATION

Example:	PC12L	-1A	-3	- Nil	- D	- R	- X
Model: PC12L							
Contact Form: 1A		_					
Coil Voltage: 6, 12, 24, 48							
Enclosure: Nil: Dust Cover							
Coil: Nil: Single Coil 1.5 W, D: Double Coil 2 X 3.0 W							
Polarity: Nil: Standard, R: Reverse Polarity							
RoHS Compliant: -X							_

Box Quantity: XXX; Inner Box YYY



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COIL DATA

Coil Voltage		Coil	Must Operate Voltage Max	
Coil Voltage		Resistance (Ohms ± 10%)		
Rated	Maximum	Single Coil 1.5 Watts	Dual Coil 2 x 3.0 Watts	(VDC)
6	7	24	12 + 12	4.8
12	14.4	96	48 + 48	9.6
24	28.8	384	192 + 192	19.2
48	56	1,536	768 + 768	38.4

Pulse Magnitude ≥ 50 ms;

NOTES:

With the Dual Coil Version, the Latch and Reset Coils should not be pulsed at the same time for it is possible to set the relay into a magnetically neutral position. Coils should not be pulsed with less than the rated coil voltage and the pulse width should be a minimum of three times the specified operate time. If not, it is possible for the relay to settle in a magnetically neutral position.

Dimensions are in mm, Inches are listed for reference only.

DIENSIONS (mm/inches)

