

# 200 Amp Latching PCB Relay

**PC25L-200**



## FEATURES

- 200 Amp Switching Capacity
- Latching Relay 150 ms Pulse Duration
- Ultra-Low Temperature Rise
- Low Contact Resistance
- Strong Anti-Shock and Anti-Vibration Capability
- 97.0 x 79.5 x 29.5 mm Package Dimensions
- RoHS Compliant

## CONTACT RATING

Load Type	Voltage	2 Form A
General Purpose	250 VAC	200 A

## CONTACT DATA

Maximum Switching Power	50,000 VA	
Maximum Switching Voltage	440 VAC	
Maximum Switching Current	200 A	
Material	AgSnO <sub>2</sub>	
Contact Resistance	≤ 1.0 mΩ Initial	
Operate Time (maximum)	50 msec	
Release Time (maximum)	50 msec	
Service Life	Mechanical	5 X 10 <sup>6</sup> Operations
	Electrical	5 X 10 <sup>3</sup> Operations

## CHARACTERISTICS

Operate Time	≤ 50 ms
Release Time	≤ 50 ms
Insulation Resistance	1,000 MΩ min at 500 VDC
Dielectric Strength	4,000 V 1 min. Between Coil and Contact
	2,000 V 1 min. Between Contacts
Shock Resistance	100 m/s <sup>2</sup> (10 g) Functional
	1,000 m/s <sup>2</sup> (100 g) Destructive
Vibration Resistance	10 - 55 Hz Double Amplitude 1.5 mm
Operating Temperature	- 40 to 70°C
Storage Temperature	- 40 to 125°C
Relative Humidity	98% at 40°C
Weight	500 grams
Power Consumption	Single Coil 12 W; Double Coil 2 X 24.0 W

## ORDERING INFORMATION

Example:	PC25L-200	-2A	-12	D	-???
Model:	<b>PC25L-200</b>				
Contact Form*:	<b>2A, 2B</b>				
Coil Voltage**:	<b>9, 12, 24, 48</b>				
Enclosure:	<b>Nil: Dust Cover</b>				
Coil:	<b>Nil: Single Coil 12 W; D: Double Coil 2 x 24 W</b>				
RoHS Compliant:	<b>-X</b>				
Configuration Information:	<b>???: Custom per Customer Specifications</b>				

\*2B Signifies the Relay is in the Reset Status

\*\*Other Coil Voltages Available

Box Quantity for Standard Output Pins: 32 ; Inner Box 2

**COIL DATA**

Coil Voltage		Coil Resistance (Ohms ± 10%)		Must Operate Voltage Max (VDC)
Rated	Maximum	Single Coil 12.0 Watts	Dual Coil 2 x 24.0 Watts	
9	10.6	6.8	3.4 + 3.4	6.75
12	14.4	12.0	6.0 + 6.0	9.0
24	28.8	48.0	24.0 + 24.0	18.0
48	56	192.0	96.0 + 96.0	36.0

Recommended Pulse Duration 150 ms  
 Custom Coil Voltages available upon request.

**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 (mm)**

