

80 Amp PCB Latching Relay

PC10L-80



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

Additional ratings will be tested at UL in 2016

FEATURES

- **Energy Saving Latching Operation** •
- 80 Amp Switching Capacity •
- 39.0 x 25.0 x 15.0 mm Package Dimensions •
- 5.0 mm Shorter than Completion's version •
- Single or Dual Coil
- Manual Topside Switch
- **RoHS** Compliant

CONTACT DATA

Maximum Switching Power	
Maximum Switching Voltage	

Maximum Switching Power		23,000 VA		
Maximum Switching Voltage		350 VAC		
Maximum Switching Current		80 A		
Material		AgSnO ₂		
Initial Contact	Resistance	≤ 20 mΩ		
Service Life	Mechanical	5 X 10 ⁶		
	Electrical	1 X 10 ⁵		

CHARACTERISTICS

Operate Time	≤ 15 msec		
Release Time	≤ 15 msec		
Pulse Magnitude	≥ 50 msec		
Insulation Resistance	1,000 M Ω min at 500 VDC		
Dialactric Ctrongth	50 Hz 1,500 V Between Contact		
Dielectric Strength	50 Hz 4,000 V Between Contacts and Coil		
Shock Resistance	98 m/s ² 11 msec Functional		
Shock Resistance	980 m/s² 11 msec, Survival		
Power Consumption	Single Coil: 1.5 W; Double Coil: 2 X 3.0 W		

Creep 8 mm Vibration Resistance 10 - 55 Hz Double Amplitude 1.5 mm **Terminal Strength** 10 N 235 °C ± 2°C 3 sec ± 0.5 sec Solderability - 40 to 70°C **Operating Temperature** Storage Temperature - 40 to 125°C **Relative Humidity** 85% at 40°C Weight 30 grams

ORDERING INFORMATION

Example:	PC10L-80	-1A	-3	- Nil	- D	- R	- X
Model: PC10L-80							
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: 10	$00 \cdot 1000$	r Doy 5	00			

Box Quantity: 1000 ; Inner Box 500

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Dimensions are listed for reference purposes only. PC10L-80 2/08/2016

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PC10L-80 COIL DATA

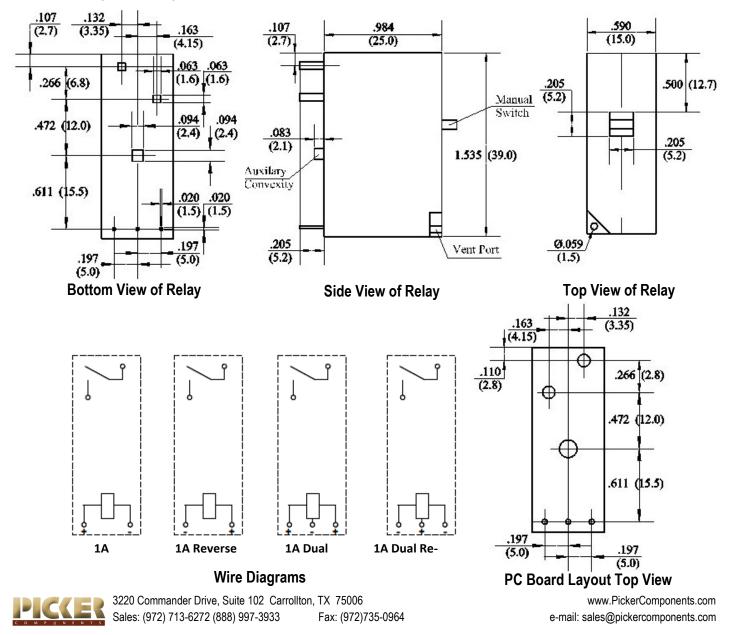
Coil Voltage		Coil	Must Operate		
COIL	ronage	Resistance (Ohms ± 10%)		Voltage Max	
Rated	Maximum	Single Coil 1.5 Watts	Dual Coil 2 x 3.0 Watts	(VDC)	
6	7	24	12 + 12	4.8	
9	10.6	54	27 + 27	7.2	
12	14.4	96	48 + 48	9.6	
24	28.8	384	192 + 192	19.2	
48	56	1,536	768 + 768	38.4	

Pulse Magnitude \geq 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 (inches/mm)



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