


FEATURES

- Energy Saving Latching Operation
- Single or Dual Coil
- Manual Switch on Top or Sealed without Switch
- 39 x 25 x 15mm Package Dimensions


UL / CUL Ratings

Contact Form	1 Form A SPST N.O.	
Rated Load	Voltage	Amps
	Resistive, 50K cycles, 40°C	277VAC

CHARACTERISTICS

Insulation Resistance	1,000M Ω min. at 500 VDC
Dielectric Strength	4000V rms, between coil & contacts
	1500V rms, between contact
Power Consumption	1.5W Single Coil, 2 x 3.0W Dual Coil
Terminal Strength	10N
Solderability	260°C 5s \pm 0.5s
Operating Temperature	-40°C to 70°C
Storage Temperature	-40°C to 125°C
Shock Resistance	98m/s ² for 11 ms functional
Vibration Resistance	1.5m double amplitude 10 Hz ~ 55 Hz
Weight	25g

CONTACT DATA

Maximum Switching Power	13,850VA	
Maximum Switching Voltage	440VAC	
Maximum Switching Current	50A	
Minimum Operating Contact Current	10mA @ 6VDC & 25°C	
	100mA @ 5VDC	
Material	AgSnO ₂	
Initial Contact Resistance	\leq 20 m Ω max.	
Service Life	Mechanical	5 x 10 ⁶ operations
	Electrical	1 x 10 ⁵ operations

Values can change due to the switching frequency, desired reliability levels, environmental conditions, and in-rush current levels. It is recommended to test to actual load conditions for the application. It is the users responsibility to determine the performance suitability for their specific application. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.

ORDERING INFORMATION

Example	PC10L	-50	-1A	-12	C	-R	-X
Model:	PC10L						
Contact Rating	50 = 50A						
Contact Form	1A						
Contact Voltage	6 = 6VDC						
	9 = 9VDC						
	12 = 12VDC						
	24 = 24VDC						
	48 = 48VDC						
Enclosure	Nil = Dust Cover						
	C = Sealed, no manual switch, non-washable						
Coil	Nil = Single Coil 1.5W						
	D = Dual Coil 2 x 3.0W						
Polarity	Nil - Standard						
	R = Reverse Polarity						
RoHS Compliant	-X						

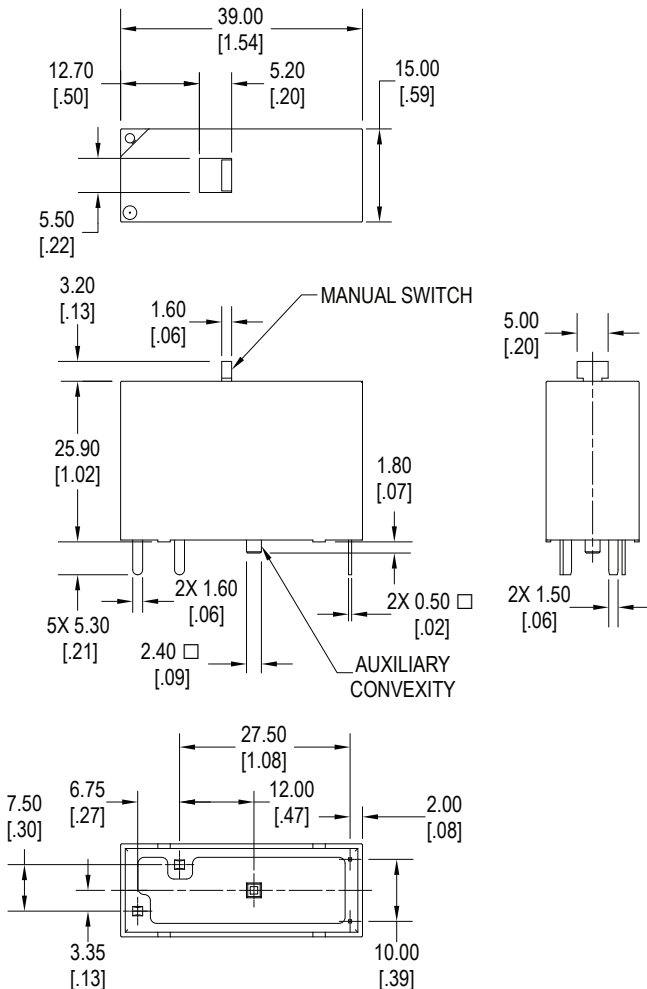
COIL DATA - Single Coil

Coil Voltage		Resistance (Ohms ± 10%)	Pick Up Voltage Max. VDC	Pulse Magnitude ms	Coil Power W	Operate Time ms	Release Time ms
Rated	Max						
6	7.8	24	4.5	≥50	1.5	15	15
9	11.7	54	6.75				
12	15.6	96	9.00				
24	31.2	384	18.00				
48	62.4	1536	36.00				

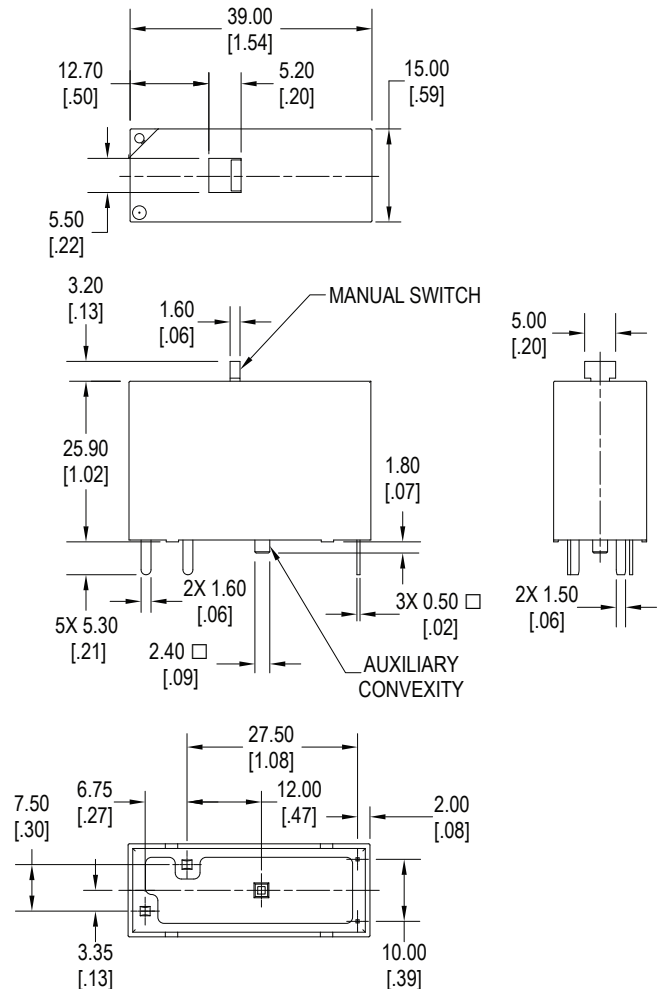
COIL DATA - Dual Coil

Coil Voltage		Resistance (Ohms ± 10%)	Pick Up Voltage Max. VDC	Pulse Magnitude ms	Coil Power W	Operate Time ms	Release Time ms
Rated	Max						
6	7.8	12	4.5	≥50	3.0	15	15
9	11.7	27	6.75				
12	15.6	48	9.00				
24	31.2	192	18.00				
48	62.4	768	36.00				

DIMENSIONS Inches (mm)



1A Single Coil



1A Dual Coil



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Dimensions are shown for reference purposes only.
PC10L Rev C 11/2022

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Specifications and availability subject to change without notice.

SCHEMATICS & PC LAYOUT *Bottom Views*



1A Single Coil



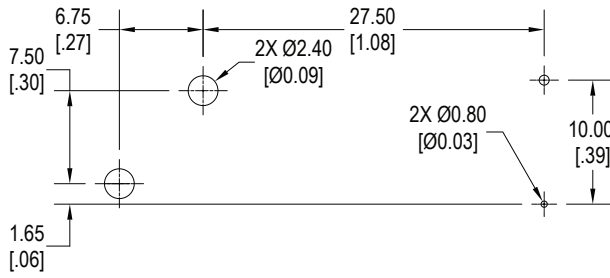
1A Single Coil Reverse Polarity



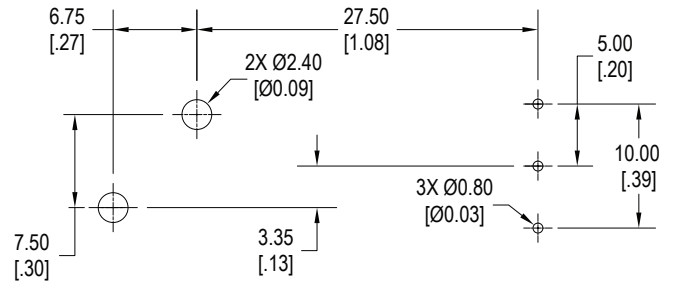
1A Dual Coil



1A Dual Coil Reverse Polarity



1A Single Coil



1A Dual Coil