

50 Amp Minature Latching Relay

PC910



FEATURES

- 50 Amp Switching Capacity
- Up to 5000W Incandescent Load
- Single or Dual Coil Latching
- Dielectric strength more than 4,000 Volts
- Manual Switch available
- 8 millimeter creepage distance
- Available Flux Proof or Sealed
- High power in a compact package
- **Now available Lead Free & RoHS Compliant**



File # E93379

UL/CUR RATINGS

Load Type	Voltage	1 Form A (SPST NO)	1 Form C (SPDT)
Resistive	277 VAC	50 A	40 A
Tungsten	240 VAC	5000 W	---
Max. Switching Voltage		440 VAC	440 VAC
Max. Switching Current		50 A	40 A
Max. Switching Power		12500 VA	10000 VA

CONTACT DATA

Material	AgSnO (Silver Tin Oxide)
	AgCdO (Silver Cadmium Oxide)
Initial Contact Resistance	50 milliohms max @ 1A, 24VDC
Service Life	Mechanical 1 X 10 ⁶ Operations
	Electrical 1 X 10 ⁵ Form 1A : 50 A resistive 3 X 10 ⁴ Form 1C : 40 A resistive

CHARACTERISTICS

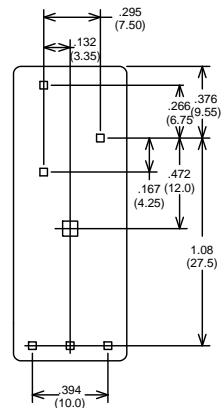
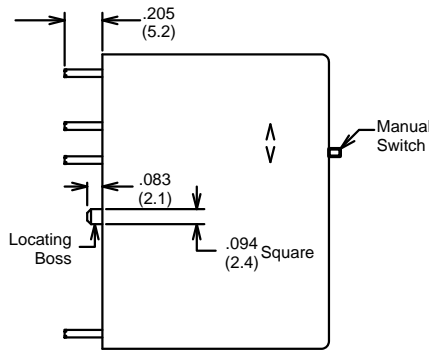
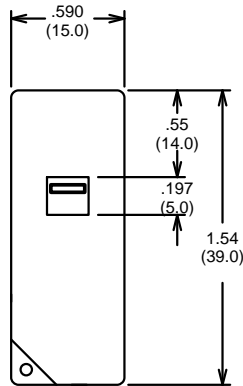
Operate Time	15 ms. Max.
Release Time	15 ms. Max.
Insulation Resistance	1,000 megohms min, at 500VDC, 50%RH
Dielectric Strength	4000 Vrms, 1 min. between coil and contacts 1500 Vrms, 1 min. between open contacts
Shock Resistance	10 g, 11ms, functional; 100 g, destructive
Vibration Resistance	DA 1.5mm, 10-55 Hz
Power Consumption	Single Coil 1.5W, Double Coil 3.0W
Ambient Temperature Range	-40 to 70 C Operating, -40 to 100 C storage
Weight	32 grams Approx.
Maximum Operating Frequency	1A: 20 cycles/min, 1C: 10 cycles/min
Pulse Width for Latching	50 ms minimum (100 to 200 Recommended)

COIL DATA

Coil Voltage	Resistance ohms \pm 10%				Set/Reset Voltage (Min) (VDC)	Maximum Voltage (VDC)
	Single Coil Latching		Dual Coil Latching			
6	24	1.5 W	2 X 12	3.0 W	4.8	7.8
12	96		2 X 48		9.6	15.6
24	384		2 X 192		19.2	31.2
48	1536		2 X 768		38.4	62.4

ORDERING INFORMATION

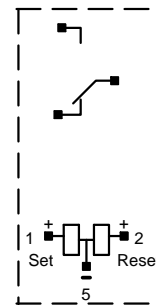
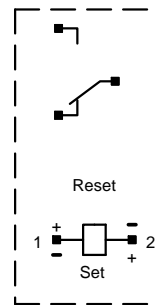
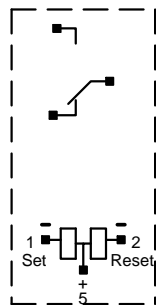
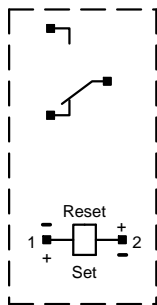
Example: PC910	/3	-24	-1A	-S	T	-L2	-R
Version:							
1: No Locating Boss, No Manual Switch							
2: No Locating Boss, With Manual Switch							
3: With Locating Boss, No Manual Switch							
4: With Locating Boss, With Manual Switch							
Coil Voltage: 6, 12, 24 or 48 VDC							
Contact Form: 1A or 1C							
Construction: S: Sealed /1 & /3 only, Nil: Flux proof							
Contact Material: T: AgSnO, Nil: AgCdO (not UL)							
Style: L1: Single Coil Latching, L2: Dual Coil Latching							
Polarity:							
R: Reverse Polarity (see wiring diagram)							
Nil: Standard Polarity (see wiring diagram)							



Load Terminals are 1.6 X 1.5mm
 Coil Terminals are 0.8 X 0.6mm
 On Single Coil Latching the Center Terminal is Omitted

Standard Polarity

Reverse Polarity



Notes:
 Contact Form C shown
 On Contact Form A Unused Pin is Omitted
 Tolerances ± .010 unless otherwise noted



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