

## 30 AMP Panel Mount or PCB Power Relay

## PTRH-T



### FEATURES

- Panel or PC mount with QC terminals for the load
- Up to 30 amp switching capacity
- Up to 2 horsepower rating
- Gold flashed contacts available
- UL Class B insulation standard
- UL Class F insulation available
- UL 873 spacing standard
- Epoxy sealed, immersion cleanable
- Lead Free & RoHS Compliant



File # E93379

### UL/CSA RATINGS

Load Type	Voltage	1 Form A (SPST-NO)	1 Form B (SPST-NC)	1 Form C (SPDT)	
				NO	NC
General Purpose	120 VAC	30 A	20 A	30 A	20 A
	250 VAC	30 A	20 A	30 A	20 A
	30 VDC	30 A	20 A	30 A	20 A
Resistive ( 100,000 cycles)	120 VAC	30 A	20 A	30 A	20 A
	250 VAC	30 A	20 A	30 A	20 A
Motor ( 30,000 cycles )	250 VAC	2 HP	—	2 HP	—
	120 VAC	1 HP	—	1 HP	—
LRA/FLA (locked rotor amps/full load amps)	250 VAC	80 A/30 A	—	80 A/30 A	—
	120 VAC	96 A/30 A	—	96 A/30 A	—

### CONTACT DATA

<b>Material</b>	AgCdO (Silver Cadmium Oxide), AgCdO+Au (Silver Cadmium Oxide with Gold flash)	
<b>Initial Contact Resistance</b>	50 milliohms max @ 0.1A, 6VDC	
<b>Service Life</b>	<b>Mechanical</b>	1 X 10 <sup>7</sup> Operations
	<b>Electrical</b>	1 X 10 <sup>5</sup> Operations

### CHARACTERISTICS

<b>Operate Time</b>	15 ms. Max
<b>Release Time</b>	10 ms. Max
<b>Insulation Resistance</b>	1,000 megohms min, at 500VDC, 50%RH
<b>Dielectric Strength</b>	1500 Vrms, 1 min. between open contacts
	2500 Vrms, 1 min. between coil and contacts
<b>Shock Resistance</b>	10 g, 11ms, functional; 100 g, destructive
<b>Vibration Resistance</b>	DA 1.5mm, 10-55 Hz
<b>Power Consumption</b>	0.9W, approx.
<b>Ambient Temperature Range</b>	-55 degrees C to 85 degrees C operating for class B, -40 to 130 degrees C storage
<b>Weight</b>	30 grams approx.

PTRH-T Rev D 3-25-04

**PTRH-T**  
**ORDERING INFORMATION**

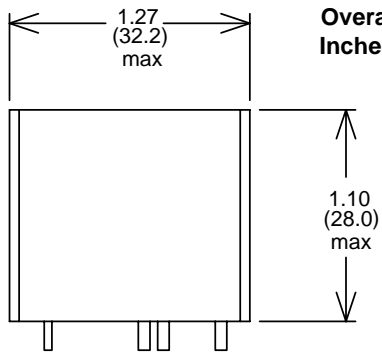
**PTRH-T**

Example:	PTRH	-1C	-12	S	G	F	-T5	-X
Model								
Contact Form								
1A, 1B, or 1C								
Coil Voltage								
Configuration								
Nil: Open Frame; C: Dust Cover S: Sealed plastic case								
Contact Material								
Nil: AgCdO; T: AgSnO; G: AgCdO+Au								
Insulation Material								
Nil: UL Class B; F: UL Class F								
Mounting Type								
T2: Form 1A PCB & QC, T3: Form 1C PCB & QC, T4: 1A Panel all QC, T5: 1C Panel all QC								
Nil: Standard; -X ROHS Compliant								

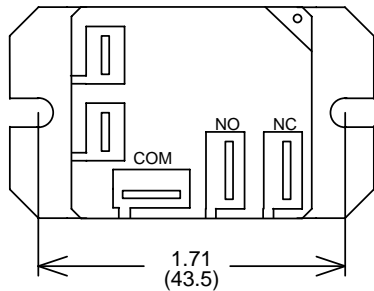
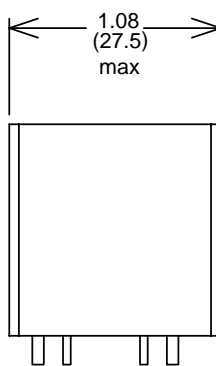
**COIL DATA**

Coil Voltage	Resistance ohms $\pm$ 10%	Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)	Continuous Voltage Max. (VDC)
5	27	3.75	0.5	5.5
6	40	4.50	0.6	6.6
9	97	6.75	0.9	9.9
12	155	9.00	1.2	13.2
24	660	18.00	2.4	26.4
48	2560	36.00	4.8	52.8
110	10330	82.50	11.0	121.0

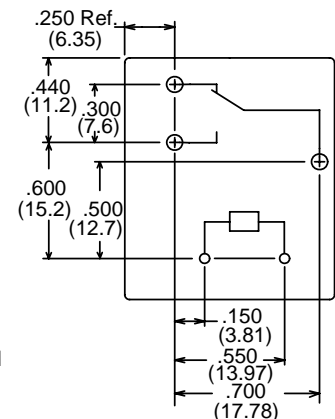
Note: Custom coil voltages within the ranges shown are available on special order.



**Overall Dimensions  
Inches (millimeters)**



**Pin Layout  
Bottom View  
Including Schematic**



**Notes:**

- Breakable nib may be removed after flux removal.
- PC mount has .250 male QC terminals for load.
- Panel mount has .250 male QC terminals for the load and .187 male QC terminals for the coil.
- Tolerances  $\pm$  .010 unless otherwise noted
- Holes for load term.  $.081 \pm .005$  Dia. ( $2.06 \pm .13$ )
- Holes for Coil term.  $.043 \pm .003$  Dia. ( $1.09 \pm .08$ )



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