

## 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

 File # E93379  Certificate # LR 109231

### 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. typical
<b>Release Time</b>	10 ms. typical
<b>Insulation Resistance</b>	1,000 megohms min, at 500VDC, 50%RH
<b>Dielectric Strength</b>	1500 Vrms, 1 min. between open contacts
	1500 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

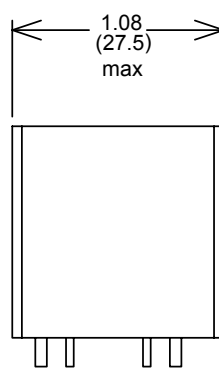
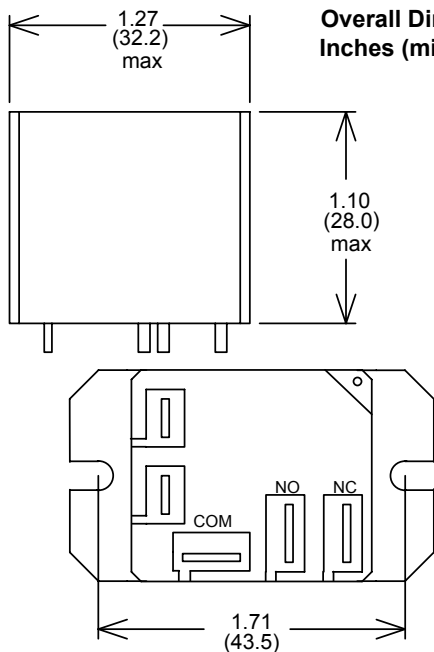
**ORDERING INFORMATION**

Example:	PTRH	-1C	-12	S	G	F	-T5
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						

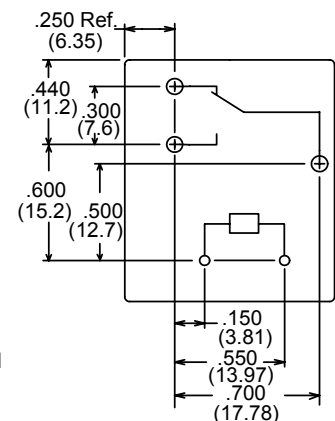
**COIL DATA**

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.



**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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