

# 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

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

## CHARACTERISTICS

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

PTRH-T Rev D 3-25-04

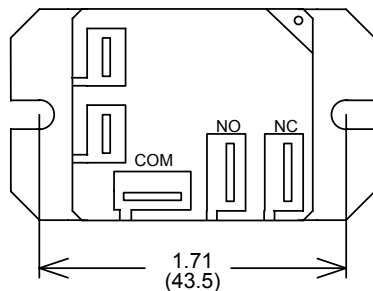
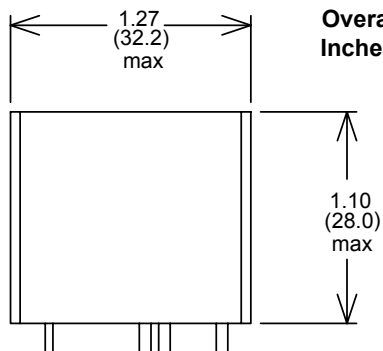
## ORDERING INFORMATION

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

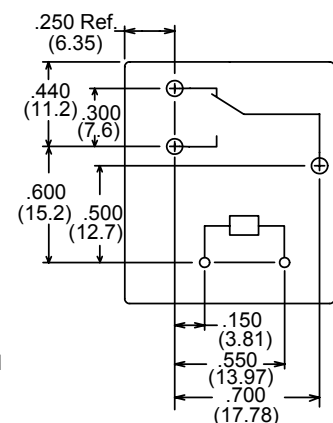
Coil Voltage	Resistance ohms $\pm 10\%$	Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)	Continuous Voltage Max. (VDC)
5	27	3.75	0.5	5.5
6	40	4.50	0.6	6.6
9	97	6.75	0.9	9.9
12	155	9.00	1.2	13.2
24	660	18.00	2.4	26.4
48	2560	36.00	4.8	52.8
110	10330	82.50	11.0	121.0

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



## 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. ( $1.09 \pm .08$ )

Pin Layout  
Bottom View  
Including Schematic

3220 Commander Drive, Suite 102, Carrollton, Texas 75006

Sales: Call Toll Free (888) 997-3933 Fax (818) 342-5296 email: pickerwest@sbcglobal.net URL: pickercomponents.com