

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 ⁷ Operations
	Electrical	1 X 10 ⁵ 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

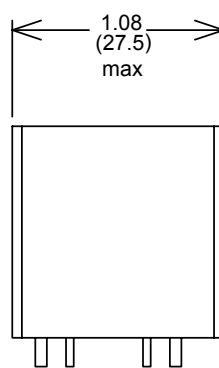
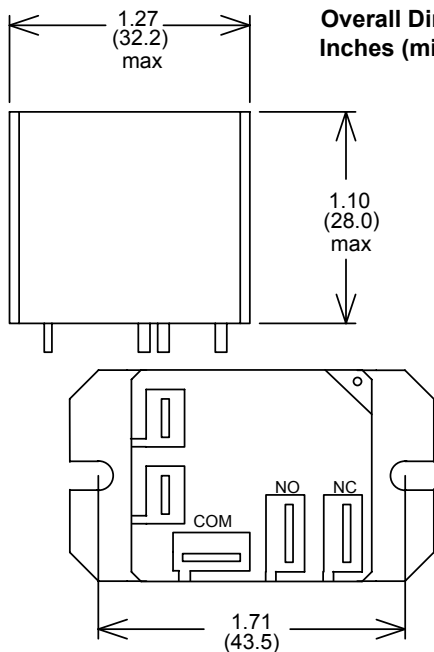
ORDERING INFORMATION

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						

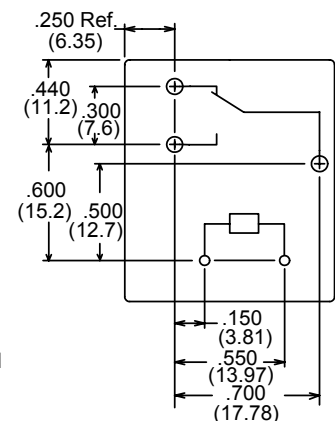
COIL DATA

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.



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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