

30 AMP Panel Mount or PCB Power Relay With AC Coils

PTRA-T



FEATURES

- Panel or PC mount with QC terminals for the load
- Up to 30 amp switching capacity
- Up to 2 horsepower rating
- From 12 to 220 volt AC coils
- UL Class F insulation standard
- UL 873 spacing standard
- Epoxy sealed, immersion cleanable
- **Now available 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	240 VAC	30 A	20 A	30 A	20 A
	277 VAC	20 A	20 A	20 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
	240 VAC	30 A	20 A	30 A	20 A
Motor (30,000 cycles)	250 VAC	2 HP	—	2 HP	—
	120 VAC	1 1/2 HP	—	1 1/2 HP	—
LRA/FLA (locked rotor amps/full load amps)	240 VAC	80 A/30 A	—	80 A/30 A	—
	120 VAC	98 A/30 A	—	98 A/30 A	—

CONTACT DATA

Material		AgCdO (Silver Cadmium Oxide), AgSnOInO (Silver Tin Indium Oxide)
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	20 ms. max
Release Time	15 ms. max
Insulation Resistance	1,000 megohms min, at 500 VDC, 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 105 degrees C operating, -55 to 155 degrees C storage
Weight	30 grams approx.

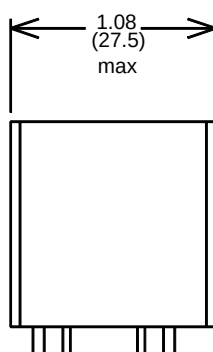
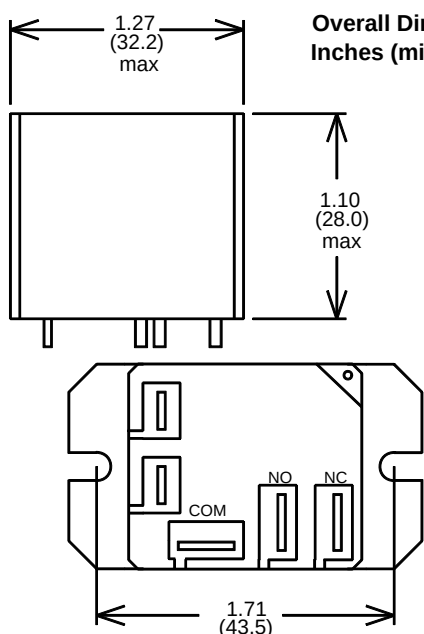
PTRA-T Rev C 4-11-06

ORDERING INFORMATION

Example:	PTRA	-1C	-120	S	T	-T5	-X
Model							
Contact Form							
1A, 1B, or 1C							
Coil Voltage							
Configuration							
O: Open Frame; C: Dust Cover; S: Sealed plastic case							
Contact Material							
Nil: AgCdO; T: AgSnOInO							
Mounting Type							
T2: Form 1A PCB&QC, T3: Form 1C PCB&QC, T4 1A Panel all QC, T5: 1C Panel all QC							
RoHS Compliant							
Nil: Not Rohs, -X: RoHS Compliant							

COIL DATA

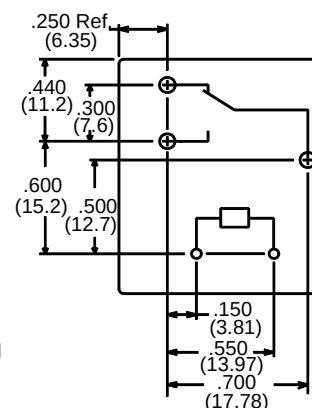
Coil Voltage	Resistance ohms $\pm$ 10%	Must Operate Voltage Max. (VAC)	Must Release Voltage Min. (VAC)	Continuous Voltage Max. (VDC)
12	26	10.20	1.8	13.8
24	106	20.40	3.6	27.6
120	2750	93.50	16.0	138
220/240	11000	187.00	33.0	276



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



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