

40 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 40 amp switching capacity
- Up to 2 horsepower rating
- From 12 to 240 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	1 Form B	1 Form C (SPDT)	
				NO	NC
General Purpose	240 VAC	40 A	30 A	40 A	30 A
	277 VAC	30 A	20 A	30 A	30 A
	30 VDC	40 A	30 A	40 A	30 A
Resistive (100,000 cycles)	120 VAC	40 A	30 A	40 A	30 A
	240 VAC	40 A	30 A	40 A	30 A
Motor (30,000 cycles)	240 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	30 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
	2500 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	2VA, approx.
Ambient Temperature Range	-55 degrees C to 105 degrees C operating, -55 to 155 degrees C storage
Weight	35 grams approx.

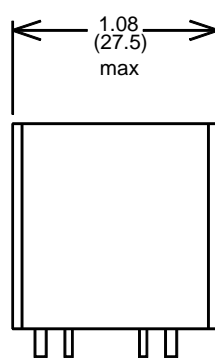
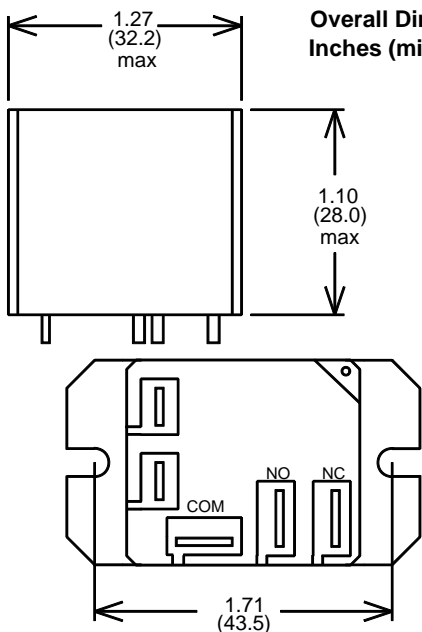
PTRA-T Rev E 5-29-07

ORDERING INFORMATION

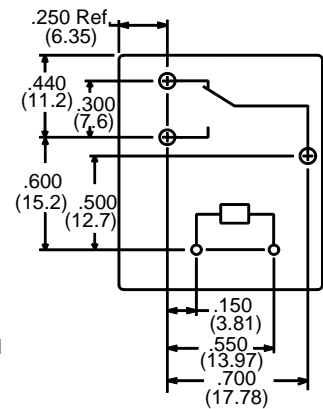
Example:	PTRA	-1C	-120	S	T	-T5	-X
Model							
Contact Form							
1A, 1B, or 1C							
Coil Voltage							
Configuration							
O: Open Frame; C: Dust Cover; S: Sealed plastic case							
Contact Material							
Nil: AgCdO; T: AgSnOInO							
Mounting Type							
T2: Form 1A PCB&QC, T3: Form 1C PCB&QC,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

COIL DATA

Coil Voltage	Resistance ohms + 10%	Must Operate Voltage Max. (VAC)	Must Release Voltage Min. (VAC)	Continuous Voltage Max. (VDC)
12	27	9.00	3.6	15.6
24	120	18.00	7.2	31.2
120	3040	90.00	36.0	156
220	13490	165.00	66.0	286
240	15740	180.00	72.0	312



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 ± .010 unless otherwise noted
 Holes for load term. .081 ± .005 Dia. (2.06 ± .13)
 Holes for Coil term. .043 ± .003 Dia. (1.09 ± .08)

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