

## 40 Amp Power Relay with AC Coils & Low Case Profile QC Terminals

PTRA



#### **FEATURES**

- Power PCB Relay with AC Coils
- 40 Amp 240 VAC Resistive UL Rating
- 2 HP 250 VAC Rating
- UL Class F Insulation Standard
- Meets UL 508 and UL 873 Spacing
- RoHS Compliant

# c**Fl** us E93379

Lood Type	Voltage	1 Form A	1 Form B	1 Fo	1 Form C	
Load Type	Voltage T Form A		(SPDT-NC)	NO	NC	
	120 VAC	40 A	30 A	40 A	30 A	
	240 VAC	30 A	20 A	30 A	20 A	
General Purpose	277 VAC	30 A	20 A	30 A	20 A	
	280 VAC	5 A	5 A	5 A	5 A	
	30 VDC	40 A	30 A	40 A	30 A	
Resistive	240 VAC	40 A	30 A	40 A	30 A	
250K Cycles	240 VAC	20 A	——	20 A		
100K Cycles	277 VAC	25 A		25 A		
•	30 VDC	40 A	30 A	40 A	30 A	
Motor	250 VAC	2 HP	1.5 HP	2 HP	1.5 HP	
IVIOLOI	120 VAC	1 HP		1 HP		
Ballast	280 VAC	5 A	5 A	5 A	5 A	
Lamp Load TV-5	120 VAC	5 A		5 A		
LRA/FLA	240 VAC	80 A/30 A		80 A/30		
21001270	120 VAC	96 A/30 A		96 A/30		

#### **CONTACT DATA**

Material		AgCdO, AgSnO <sub>2</sub> ln <sub>2</sub> O <sub>3</sub>		
Initial Contact	Resistance	30 mΩ Max. @ 1 A, 6 VDC		
Maximum Switching Voltage		110 VDC, 300 VAC		
Maximum Sw	itching Current	40 A		
Maximum Switching Power		1,200 W, 10,000 VA		
Service Life	Mechanical	1 x 10 <sup>7</sup> Operations		
	Electrical	1 x 10 <sup>5</sup> Operations		

Meets UL 508 and UL 873 Spacing - 3.18 mm Through Air, 6.36 mm Over Surface.

#### ORDERING INFORMATION

Example:	PTRA	-1C	-12	S			-1	-X
Model: PTRA								
Contact Form: 1A, 1B, 1C								
Coil Voltage: 12, 24, 110, 120, 220, 240, 277								
Enclosure: Nil: Open Frame; S: Sealed Plastic Case								
Insulation Material: Nil: Class F								
Contact Material: Nil: AgCdO; T: AgSnO <sub>2</sub> ln <sub>2</sub> O <sub>3</sub>								
Spacing: 1: UL 508 and UL 873 (Pin #6 Omitted)								
RoHS Compliant: -X				•	•	•	•	<u>-</u> '

Box Quantity: 600; Inner Box 300

**OPICCER** 

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#### **COIL DATA**

Coil Vo		Resistance (Ohms ± 10%)	Must Operate Voltage Max	Must Release Voltage Min	Rated Current	Coil Power
Rated	Max	(OIIIIS ± 10 /0)	(VAC)	(VAC)	(mA)	(VA)
12	15.6	27	9.0	3.6	166.6	
24	31.2	120	18.0	7.2	83.3	
110	143	2360	82.5	33.0	18.1	
120	156	3040	90.0	36.0	16.6	2.0
220	286	13490	165.0	86.0	9.1	
240	312	15740	180.0	72.0	8.3	
277	360.1	20300	207.75	83.1	7.2	

#### NOTES:

The use of any coil voltage less that the rated voltage will compromise the operation of the relays. Must Operate Voltage and Most Release Voltages are for test purposes only and are not to be used as design criteria.

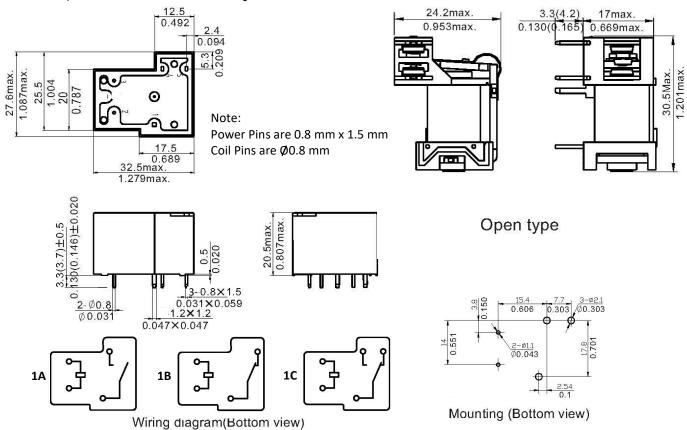
#### **CHARACTERISTIC**

OTH THE TELLISITIE			
Operate Time	15 ms max.		
Release Time	10 ms max.		
Insulation Resistance	1,000 $M\Omega$ min, at 500 V		
Power Consumption	2.0 VA		
Dialogtria Ctronath	50 Hz 1,500 V Between Open Contacts		
Dielectric Strength	50 Hz 2,500 V Between Contacts and Coil		
Shock Resistance	200 m/s <sup>2</sup>		
Vibration Resistance	10 Hz - 55 Hz Double Amplitude 1.5 mm		

Terminal Strength	10N
Solderability	235 °C for 3 secs
Operating Temp. Range	- 55°C to 125°C
Relative Humidity	85% (at 40°C)
Weight	31 grams
Material Compliant To	EU RoHS V2, EU REACH V3

#### MOUNTING TYPE (mm/inches)

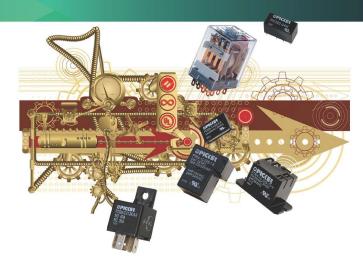
Knock off, on top corner, nib for ventilation after soldering and water wash.



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# **T90 Style Relays**





#### PTRE 50/35 Amp 1,500 W, 12,000 VA

- Larger Contacts than PTRD/PTRDE
- Braided Copper Wire Added to Dissipate Heat from Contacts to the Coil Frame and PCB Pins
- 50 Amp 240 VAC 10,000 Cycle UL Resistive Rating
- Class F Material -40° to 125° C Standard



40+Amp

#### PTRDE 40/30 Amp 1,200 W, 10,000 VA

- Braided Copper Wire Added to Dissipate Heat from Contacts to the Coil Frame and PCB Pins
- 40 Amp 240 VAC 50,000 Cycle UL Resistive Rating
- Class F Material -40° to 125° C Standard

40 Amp

# PTRD 40/30 Amp 1,200 W, 10,000 VA PTRA AC Coil Options from 12 to 277 VAC

- Larger Contacts than PTRH
- 40 Amp 240VAC UL Resistive Rating
- 25 Amp 277 VAC 100K Cycles UL Resistive Rating
- Class F Material -40° to 125° C Standard

30 Amp

### PTRH 30/20 Amp 900 W, 7,500 VA

- 30 Amp 277 VAC UL General Purpose Rating
- 30 Amp 250 VAC 100K Cycle UL Resistive Rating
- Class B -40° to 100° C Standard, Optional Class F



## ···· Packaging Options (i.e. PTRH-T) ··



Dust Cover or Sealed with Scratch off Nib



-T (T2 & T3) with PC Pins and Contact QC



-T (T4 & T5) w/QC Tabs & Mounting Ears



-OT (OT2 & OT3) with PC Pins and Contact QC



-OT (OT4 & OT5) w/QC Tabs & Mounting Ears

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