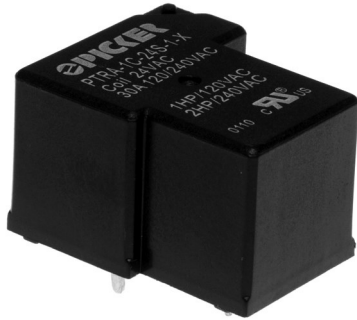


40 Amp Power Relay with AC Coils & Low Case Profile QC Terminals

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

UL USE93379

Load Type	Voltage	1 Form A	1 Form B (SPDT-NC)	1 Form C	
				NO	NC
General Purpose	120 VAC	40 A	30 A	40 A	30 A
	240 VAC	30 A	20 A	30 A	20 A
	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
	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	---
	120 VAC	96 A/30 A	---	96 A/30	---

CONTACT DATA

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

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

ORDERING INFORMATION

Example: PTR A -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**: AgSnO₂In₂O₃

Spacing: **1**: UL 508 and UL 873 (Pin #6 Omitted)

RoHS Compliant: **-X**

Box Quantity: 600; Inner Box 300

COIL DATA

Coil Voltage (VAC)		Resistance (Ohms ± 10%)	Must Operate Voltage Max (VAC)	Must Release Voltage Min (VAC)	Rated Current (mA)	Coil Power (VA)
Rated	Max					
12	15.6	27	9.0	3.6	166.6	2.0
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	
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 than 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.

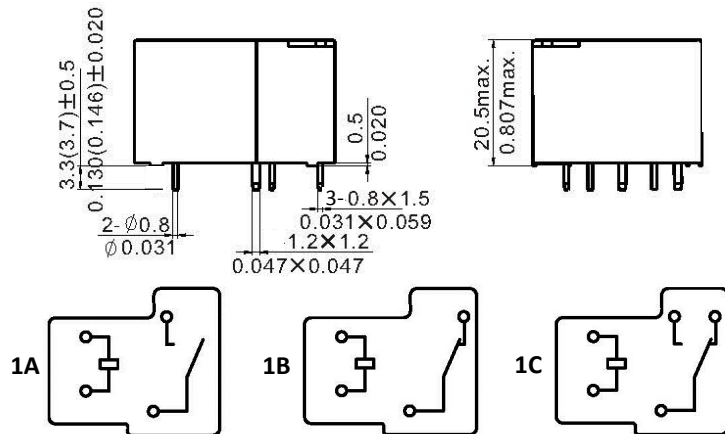
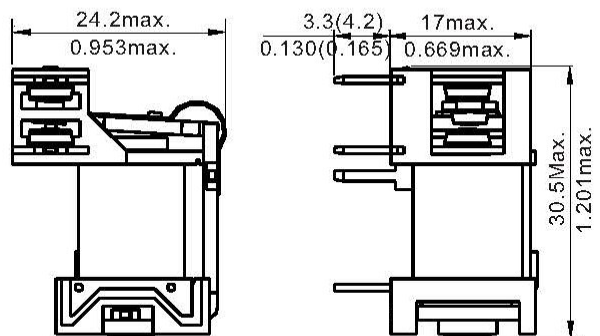
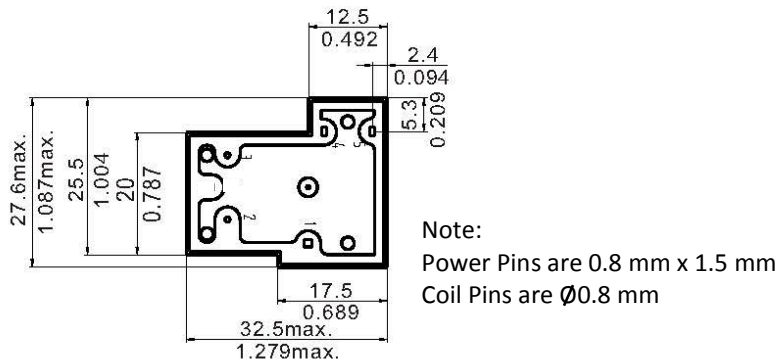
CHARACTERISTIC

Operate Time	15 ms max.
Release Time	10 ms max.
Insulation Resistance	1,000 MΩ min, at 500 V
Power Consumption	2.0 VA
Dielectric Strength	50 Hz 1,500 V Between Open Contacts
	50 Hz 2,500 V Between Contacts and Coil
Shock Resistance	200 m/s ²
Vibration Resistance	10 Hz - 55 Hz Double Amplitude 1.5 mm

Terminal Strength	10N
Solderability	260°C for 5 seconds
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

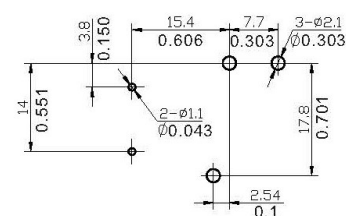
MOUNTING TYPE (mm/inches)

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



Wiring diagram(Bottom view)

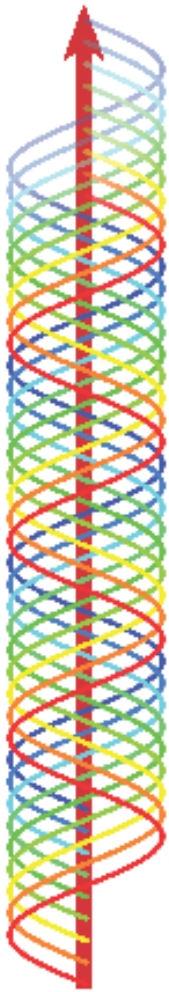
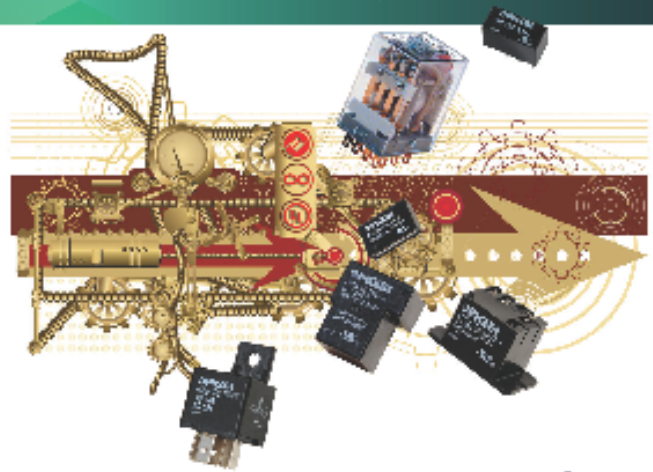
Open type



Mounting (Bottom view)



T90 Style Relays



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

- Larger Contacts than PTRD
- *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



45 Amp **PTRV 45 Amp 277 VAC 12,500 VA**

New

- >1.8 mm Contact Gap
- 2.25 Watt Coil for Vibration Tolerance
- Class F Material -40° to 85° C Standard
- Designed for PV Inverter & Motor Control Applications



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 240 VAC 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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