

50 Amp Power PCB Relay

PTRE-OT





OT4/OT5

FACTORY RATINGS

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Load Type	Voltage	1 Form A (SPST-NO)	1 Form B (SPST-NC	1 Form C (SPDT)	
Load Type				NO	NC
Resistive 6,000 Cycles	240 VAC 30 VDC	50 A	40 A	50 A	40 A
Lamp 3,000 Cycles	240 VAC	TV-5	_	TV-5	_
Electric Ballast 6,000 Cycles	280 VAC	5 A	_	5 A	_
Motor Load 3,000 Cycles	250 VAC	2 HP	1.5 HP	2 HP	1.5 HP

CHARACTERISTIC

Operate Time	15 ms Max.
Release Time	10 ms Max
Insulation Resistance	1,000 M Ω min, at 500 VDC
Dielectric Strength	50 Hz 2,500 V 1 Min Between Coil and Contacts
Dielectric Strength	50 Hz 1,500 V 1 min. Between Contacts
Shock Resistance	200 m/s ² , 11 ms
Vibration Resistance	10 - 55 Hz Double Amplitude
Terminal Strength	10N
Power Consumption	1.5 W

ORDERING INFORMATION

Example:	PTRE	-1C	-12	Е	
Model: PTRE (PTRE-OT)					
Contact Form: 1A, 1B or 1C		-			
Coil Voltage: 3, 5, 6, 9, 12, 15	, 24, 48, 110				
Enclosure: C: Dust Cover; S: (OT2 & OT3 Only) Sealed;					
E: (OT4 & OT5 Only) Epoxy Sealed, Not Water Washable					

Contact Material: Nil: AgCdO; T: AgSnO2

Insulation Material: F: Class F

Mounting Type: OT2: 1 Form A PCB & QC; OT3; 1 Form C PCB & QC:

OT4: 1 Form A Panel all QC; OT5: 1 Form C Panel all QC

RoHS Compliant: -X

Pinout: A: Alternate Quick Connect Pinout (OT2 & OT3 Only)

3220 Commander Drive, Suite 102 Carrollton, TX 75006 Sales: (972) 713-6272 (888) 997-3933

FEATURES

- Most Popular Power PCB Relay Footprint T91
- 50 Amp 240 VAC General Purpose UL Rating
- 2 HP 250 VAC Rating
- Two Versions:
 - ◆ OT2 (1A), OT3 (1C) PC Pins & QC Pins
 - ◆ OT4 (1A), OT5 (1C) QC Pins with Mounting Tabs
- UL Class F Insulation Standard
- Meets UL 508 and UL 873 Spacing
- **RoHS Compliant**

C 911 US E160644 at 40°C

Load Type	Cycles	Voltage	1 Form C (SPDT)	
	Cycles	Voltage	NO NC	
General Purpose (Resistive)	10,000 50.000	240 VAC/30 VDC 240 VAC/30 VDC	50 A 40 A	35 A 30 A

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

CONTACT DATA

Material		AgCdO, AgSnO₂		
Initial Contact	Resistance	30 mΩ max @ 1 A, 6 VDC		
Maximum Sw	itching Voltage	110 VDC, 300 VAC		
Maximum Switching Current		50 A		
Maximum Sw	itching Power	1,500 W, 12,500 VA		
Service Life	Mechanical	1 X 10 ⁷ Operations		
Selvice Lile	Electrical	5 X 10 ⁴ Operations		

CHARACTERISTIC Continued

Solderability	235 °C for 3 secs
Operating Temperature Range	- 55°C to 85°C
Storage Temperature Range	- 40°C to 155°C
Relative Humidity	85% (at 40°C)
Weight	30 grams
Material Compliant To	EU RoHS V2, EU REACH V3

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COIL DATA

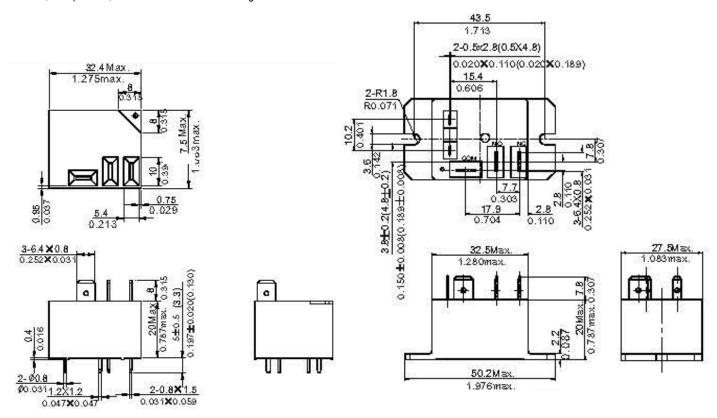
Coil Voltage		Resistance (Ohms ± 10%)	Must Operate Voltage Max	Must Release Voltage Min.	Coil Power
		(011113 ± 1070)	(VDC)	(VDC)	(W)
3	3.9	6.0	2.25	0.3	
5	6.5	16.7	3.75	0.5	
6	7.8	24.0	4.50	0.6	
9	11.7	54.0	6.75	0.9	
12	15.6	96.0	9.00	1.2	1.5
15	19.5	150	10.25	1.5	1.5
18	23.4	216	13.50	1.8	
24	31.2	384	18.00	2.4	
48	62.4	1,536	36.00	4.8	
110	143	8,067	82.50	11.0	

NOTES:

The use of any coil voltage less that the rated voltage will compromise the operation of the relays. Must Operate Voltage is listed for test purposes only and is not to be used as design criteria. Pickup and release voltages are for test purposes only and are not to be used as design criteria. Dimensions are in mm, Inches are listed for reference only.

MOUNTING TYPE (mm/inches)

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

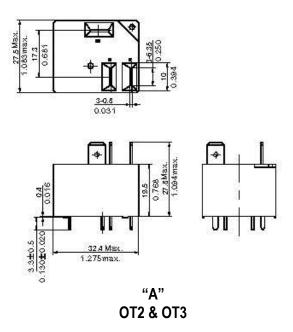


"OT2" & "OT3" "OT4" & "OT5"

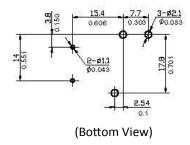
PTRE - OT ______ PTRE-OT

ALTERNATE MOUNTING TYPE (mm/inches)

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



PRINTED CIRCUIT BOARD LAYOUT



CONTACT FORMS

