

30 Amp Power PCB Relay

PTRH-01





OT2 & OT3 SF86876

OT4 & OT5

Load Type	Voltage	1 Form A	1 Form B	1 Form C			
Load Type	Voltage	(SPST-NO)	(SPDT-NC)	NO	NC		
General Purpose	277 VAC*	30 A	20 A	30 A	20 A		
	120 VAC	30 A	20 A	30 A	20 A		
	250 VAC	30 A	20 A	30 A	20 A		
	30 VDC	30 A	20 A	30 A	20 A		
Resistive	120 VAC	30 A	20 A	30 A	20 A		
(100.000 Cycles)	250 VAC	30 A	20 A	30 A	20 A		
Motor	240 VAC	2 HP		2 HP			
(30,000 Cycles)	120 VAC	1 HP		1 HP			
LRA/FLA	240 VAC	80 A/30 A		80 A/30			
	120 VAC	96 A/30 A		96 A/30			

*UL Approved CHARACTERISTIC

Operate Time	Less than 15 ms				
Release Time	Less than 10 ms				
Insulation Resistance	1,000 M Ω min, at 500 VDC, 50% RH				
Dielectric Strength	50 Hz 2,500 V 1 Min Between Coil and Contacts 4,000 V without Pin 6 50 Hz 1,500 V 1 min. Between Contacts				
Power Consumption	0.9 W, 0.6 W				

ORDERING INFORMATION

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Example:	PTRH	-1C	-12	S	Т				
Model: PTRH (PTRH-OT)									
Contact Form: 1A, 1B, 1C		-							
Coil Voltage: 3, 5, 6, 9, 12, 15	, 24, 48, 110		-						
Enclosure: OT2 & OT3: C: Dust Cover; S: Sealed;									
OT4 & OT5: S: Covered, not Washable									
Insulation Material: Nil: Class									
Contact Material: Nil: AgCdO;	T: AgSnO _{2:} G: A	\gCdO+	Au						
Mounting Type: OT2: 1 Form	A PCB & QC;	OT3 ;	1 Form (C PCB 8	QC:				
OT4 : 1 Form	1A Panel all QC	; OT5 : 1	Form C	Panel a	all QC				
RoHS Compliant: -X									
Pinout: A: Alternate Quick Cor	nnect Pinout (OT	2 & OT	3 Only)						
Coil Sensitivity: Nil: 0.9 W**; 0	.6: 0.6 W (**0.9	W is Ind	ustry Sta	ndard)					

30 Amp 250 VAC General Purpose UL Rating 2 HP 250 VAC Rating •

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FEATURES

- Two Versions: •
 - OT2 (1A), OT3 (1C) PC Pins & QC Pins

Popular Power PCB Relay Footprint - T91

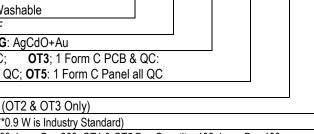
- OT4 (1A), OT5 (1C) QC Pins with Mounting Tabs
- UL Class F Insulation Optional
- Meets UL 508 and UL 873 Spacing

RoHS Compliant CONTACT DATA

Material		AgCdO, AgSnO ₂ , AgCdO+Au		
Initial Contact	Resistance	50 mΩ Max. @ 1 A, 6 VDC		
Maximum Switching Voltage		110 VDC, 300 VAC		
Maximum Sw	itching Current	30 A		
Maximum Switching Power		900 W, 7,500 VA		
Service Life	Mechanical	1 X 10 ⁷ Operations		
	Electrical	5 X 10 ⁴ Operations		
Meets UL 508 and UL 873 Spacing - 3.18 mm Through Air, 6.36 mm Over				

Surface. CHARACTERISTIC Continued

•••								
S	Shock Resistance				200 m/s, 11 ms			
۷	Vibration Resistance					10 - 55 Hz Double Amplitude		
Т	Terminal Strength				10N			
S	Solderability					235 °C for 3 secs		
C	Operating Temperature Range				- 55°C to 100°C Class B			
C	Operating Temperature Range			Range	- 55°C to 125°C Class F			
F	Relative Humidity				85% (at 40°C)			
۷	Weight				13.5 gr Approximately			
Ν	Material Compliant To				EU RoHS V2. EU REACH V3			
Г	F	-OT5	-X					



OT2 & OT3 Box Quantity: 600; Inner Box 300, OT4 & OT5 Box Quantity: 400; Inner Box:100

Sales: (972) 713-6272

(888) 997-3933

3220 Commander Drive, Suite 102 Carrollton, TX 75006

PTRH-OT **COIL DATA**

Coil Voltage		Coil Power (W) Resistance (Ohms ± 10%)		Must Operate	Must Release	
				Voltage Max	Voltage Min	
Rated	Max	0.6 W	0.9 W	(VDC)	(VDC)	
3	3.9	15	10	2.25	0.3	
5	6.5	42	28	3.75	0.5	
6	7.8	60	40	4.50	0.6	
9	11.7	135	90	6.75	0.9	
12	15.6	240	150	9.00	1.2	
15	19.5	375	260	10.25	1.5	
18	23.4	540	380	13.50	1.8	
24	31.2	960	640	18.00	2.4	
28	36.4	1307	871	21.0	2.8	
48	62.4	3840	2560	36.00	4.8	
110	143	20167	13445	82.50	11.0	

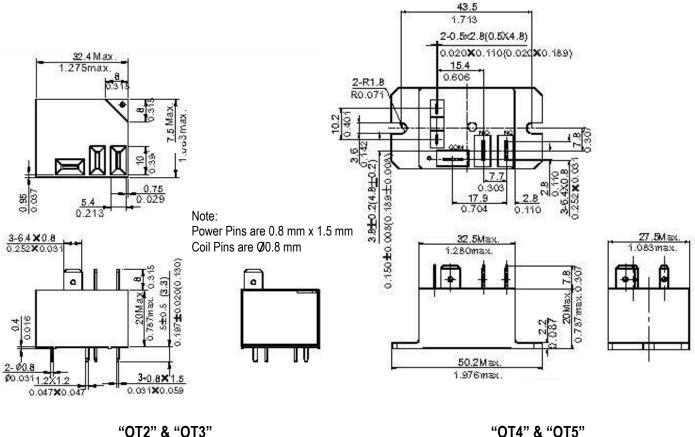
*0.9 W is Industry Standard

NOTES:

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

MOUNTING TYPE (mm/inches)

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



"OT2" & "OT3"

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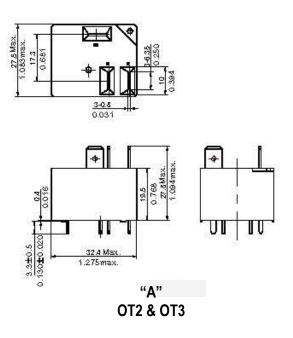
Dimensions are listed for reference purposes only. PTRH-OT Rev H 3/31/2017

Specifications and Availability subject to change without notice.

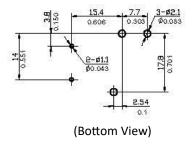
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ALTERNATE MOUNTING TYPE (mm/inches)

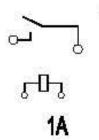
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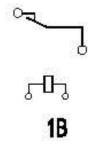


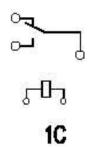
PRINTED CIRCUIT BOARD LAYOUT



CONTACT FORMS







(Bottom View)

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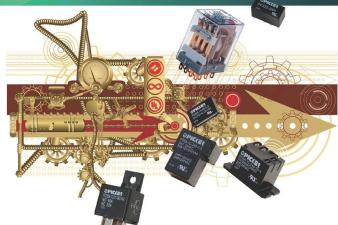
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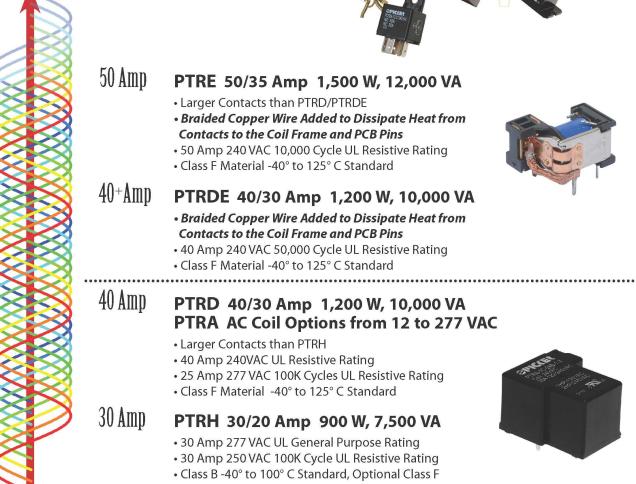
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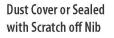
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-T (T2 & T3) with PC Pins and Contact QC



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

-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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