

40 Amp Power PCB Relay



T2 & T3

T4 & T5

UL / CUI	js	c 1 us E93379					
Load Type	Voltage	Cycles	1 Form A (SPST-NO)	1 Form B	1 Form C (SPDT)		
		- ,		(SPDT-NC)	NO	NC	
General	240 VAC	6,000	30 A	20 A	30 A	20 A	
Purpose	277 VAC	6,000	30 A	20 A	30 A	20 A	
i uipose	280 VAC	6,000	5 A	5 A	5 A	5 A	
	240 VAC		40 A	30 A	40 A	30 A	
Resistive	240 VAC	250,000	20 A		20 A		
ILESISTIVE	277 VAC	100,000	25 A		25 A		
	30 VDC		40 A	30 A	40 A	30 A	
Motor	250 VAC	30,000	2 HP	1.5 HP	2 HP	1.5 HP	
wolu	120 VAC	30,000	1 HP		1 HP		
Ballast	280 VAC	6,000	5 A	5 A	5 A	5A	

Additional UL / CUL Ratings for AgSnO Contacts

Load Type	Voltage	Cycles	Temp.	1 Form A (SPST-NO)	1 Form C (SPDT-NO)
Resistive	277/250 VAC	30,000	40°C	30 A	30 A

FEATURES

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- Popular Power PCB Relay Footprint T90
- 40 Amp 250 VAC General Purpose UL Rating
- 2 HP 250 VAC Rating
- Two Versions:
 - T2 (1A), T3 (1C) PC Pins & QC Pins
 - T4 (1A), T5 (1C) QC Pins with Mounting Tabs
- UL Class F Insulation Standard
- IP67 Epoxy Sealed Version Available
- Meets UL 508 and UL 873 Spacing
- RoHS Compliant

CONTACT DATA

Material		AgCdO, AgSnO ₂ In ₂ O ₃ , AgCdO+Au		
Initial Contact I	Resistance	50 mΩ Max. @ 1 A, 6 VDC		
Maximum Swit	ching Voltage	110 VDC, 300 VAC		
Maximum Swit	ching Current	40 A		
Maximum Swit	ching Power	1200 W, 10,000 VA		
Service Life	Mechanical	1 X 10 ⁷ Operations		
Service Life	Electrical	5 X 10 ⁴ Operations		

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

CHARACTERISTICS

Shock Resistance	200 m/s, 11 ms			
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			
Terminal Strength	10N			
Solderability	260 °C for 5 seconds			
Storage Temp. Range	-55°C to 125°C			
Operating Temp. Range	-55°C to 100°C			
Relative Humidity	85% (at 40°C)			
Weight	13.5 grams			
Material Compliant To	EU RoHS V2, EU REACH V3			
Insulation Resistance	1,000 M Ω min, at 500 VDC, 50% RH			

		Insulatio	II RESIS	lance		1,000 1012.	z min, at s		30 % KH
ORDERING INFO	PTRD -1C -12 S		Т	-T3	-X	E	А	0.6	
Model:	PTRD (PTRD-T)								
Contact Form:	1A, 1B, 1C								
Coil Voltage:	3, 5, 6, 9, 12, 15, 18, 24, 28, 48, 110								
Enclosure:	T2 & T3: C: Dust Cover; S: Sealed;								
	T4 & T5: S: Covered, Not Washable*								
Insulation Material:	Nil: Class F	Nil: Class F							
Contact Material:	Nil: AgCdO; T: AgSnO ₂ In ₂ O ₃								
Mounting Type:	T2: 1 Form A PCB & QC; T3; 1 Form C PCB & QC;	1							
	T4: 1 Form A Panel all QC; T5: 1 Form C Panel all Q	С							
RoHS Compliant:	-X								
IP67 Epoxy Sealed:	E: Epoxy Sealed to IP67								
Pinout:	A: Alternate Quick Connect Pinout						-		
Coil Sensitivity:	Nil: 0.9 W*; 0.6: 0.6 W (*0.9 W is Industry Standard)						=	
Gold Plated Contacts	s: Nil: None; G: AgCdO+Au								-

T2 & T3 Box Quantity: 600; Inner Box 300, T4 & T5 Box Quantity: 400: Inner Box:100

14680 James Road, Rogers, MN 55374 USA

Sales: (763) 535-2339

Dimensions are listed for reference purposes only.

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COIL DATA

Coil Voltage		Coil P	ower (W)	Must Operate	Must Release	
(VI	DC)	Resistance (Ohms ± 10%)		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	1,307	871	21.0	2.8	
48	62.4	3,840	2,560	36.00	4.8	
110	143	20,167	13,445	82.50	11.0	

*0.9 W is Industry Standard

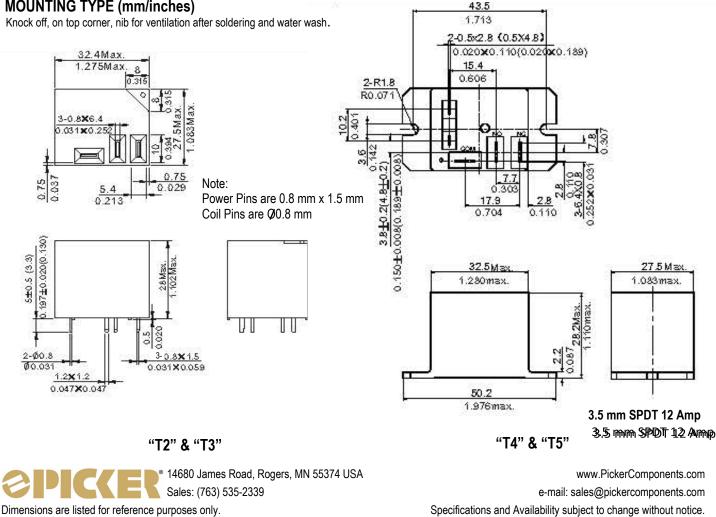
COIL DATA Continued

Operate Time	Less than 15 ms
Release Time	Less than 10 ms
Power Consumption	0.9 W, 0.6 W

NOTES:

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

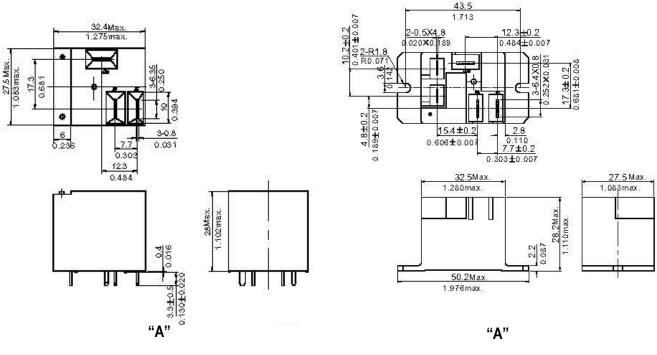
MOUNTING TYPE (mm/inches)



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ALTERNATE MOUNTING TYPE (mm/inches)

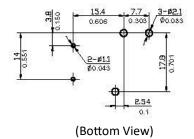
Knock off, on top corner, nib for ventilation after soldering and water wash.



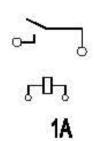
T2 & T3

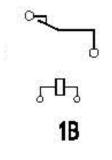


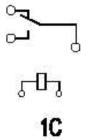
PRINTED CIRCUIT BOARD LAYOUT



CONTACT FORMS







(Bottom View)

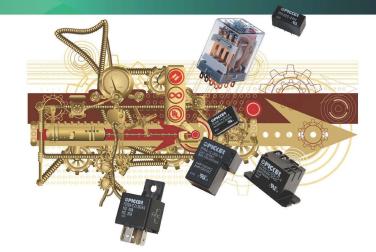
PICKER¹⁴⁶⁸⁰ James Road, Rogers, MN 55374 USA Sales: (763) 535-2339

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www.PickerComponents.com e-mail: sales@pickercomponents.com Specifications and Availability subject to change without notice.







• 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 OC



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



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



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

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