

**30, 40 or 50 Amp Latching Spade/PC Pins Relay      PCT91CL, PCT91DL, PCT91EL**



**FEATURES**

- Energy Saving **Latching Operation**
- Most Popular Power PCB Relay
- 30, 40 or 50 Amp Switching Capacity
- Single Coil Latching
- UL Class F Insulation Standard
- Epoxy Sealed, Immersion Cleanable
- Lead Free and RoHS Compliant



**Factory and cULus\* Ratings at 25°C**

PCT91EL 50 Amp Version	Voltage	1 Form A (SPST-NO)	1 Form B (SPST-NC)	1 Form C (SPDT)	
				NO	NC
Load Type					
Resistive 6,000 Cycles	277 VAC	50 A	50 A	40 A	40 A
Incandescent Lamp 3,000 Cycles	240 VAC	5,000 W	5,000 W		
Electronic Ballast 6,000 Cycles	280 VAC	16 A	16 A		
Motor Load 3,000 Cycles	277 VAC	5 HP	5 HP		

PCT91DL 40 Amp Version	Voltage	1 Form A (SPST-NO)	1 Form B (SPST-NC)	1 Form C (SPDT)	
				NO	NC
Load Type					
Resistive 6,000 Cycles	277 VAC, 28VDC	40 A	40 A	30 A	30 A
Incandescent Lamp 3,000 Cycles	240 VAC	5,000 W	5,000 W		
Electronic Ballast 6,000 Cycles	280 VAC	5 A	5 A		
Motor Load 3,000 Cycles	277 VAC	2 HP	2 HP		

PCT91CL 30 Amp Version	Voltage	1 Form A (SPST-NO)	1 Form B (SPST-NC)	1 Form C (SPDT)	
				NO	NC
Load Type					
Resistive 6,000 Cycles	277 VAC, 28VDC	30 A	30 A	25 A	25 A
Incandescent Lamp 3,000 Cycles	240 VAC	5,000 W	5,000 W		
Electronic Ballast 6,000 Cycles	280 VAC	5 A	5 A		
Motor Load 3,000 Cycles	277 VAC	2 HP	2 HP		

**CONTACT DATA**

Material	AgSnO2		
Initial Contact Resistance	≤ 20mΩ initial		
Service Life	Mechanical	1 x 10 <sup>6</sup> Operations	
	Electrical		
Maximum Switching Voltage	110VDC 300VAC		
Maximum Switching Power	15,850 VA 1,500 W	11,080 VA 1,200 W	8,310 VA 900 W
Maximum Switching Current	50 A	40 A	30 A

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## CHARACTERISTICS

Operate Time	≤ 15 msec
Release Time	≤ 15 msec
Insulation Resistance	1,000 MΩ min @ 500VDC
Dielectric Strength	50 Hz 2,500V 1 minute, Between Contact and Coil 50 Hz 1,500V 1 minute, Between Contacts
Shock Resistance	200 m/s <sup>2</sup> 11msec
Vibration Resistance	10-55 Hz Double Amplitude 1.5mm
Operating Temperature	-55°C to +125°C
Storage Temperature	-55°C to +155°C
Weight	28 grams

## ORDERING INFORMATION

Example:	PCT91EL	-1C	-12	S	L				-X
Model:	<b>PCT91EL</b> (50 Amp) <b>PCT91DL</b> (40 Amp) <b>PCT91CL</b> (30 Amp)								
Contact Form:	<b>1A</b> (SPST-NO) <b>1B</b> (SPST-NC) <b>C</b> (SPDT BBM)								
Coil Voltage:	<b>5, 12, 24, 48</b>								
Enclosure:	<b>S</b> : Sealed, <b>E</b> : Covered								
Package Height:	<b>Nil</b> : Standard, <b>L</b> : Low Profile								
Coil Sensitivity:	<b>Nil</b> : PCT91EL (50 Amp) 1.5 Watt <b>Nil</b> : PCT91DL (40 Amp) 0.9 Watt <b>Nil</b> : PCT91CL (30 Amp) 0.9 Watt								
Coil:	<b>Nil</b> : Single Coil Latching, Double Coil not available at this time								
RoHS Compliant:	<b>-X</b>								

Box Quantity: 600; Inner Box: 300

## COIL DATA

Coil Voltage (VDC)		Resistance (Ohms ± 10%)	Must Operate Voltage Max (VDC)	Pulse Magnitude (msec)	Coil Power (msec)	Operate Time (msec)	Reset Time (msec)
Rated	Maximum						
5	6	16.7	4	≥ 100	1.5	≤ 15	≤ 15
12	14.4	96	9.6				
24	28.8	384	19.2				
48	57.6	1,536	38.4				
PCT91CL/DL (30/40 Amp)		Resistance (Ohms ± 10%)	Must Operate Voltage Max (VDC)	Pulse Magnitude (msec)	Coil Power (msec)	Operate Time (msec)	Reset Time (msec)
Rated	Maximum						
5	6	28	4	≥ 50	0.9	≤ 15	≤ 15
12	14.4	160	9.6				
24	28.8	960	19.2				
48	57.6	2,560	38.4				

## NOTES:

Coil should not be pulsed with less than the rated coil voltage and the pulse width should be a minimum of three times the specified operate time. If not, it is possible for the relay to settle in a magnetically neutral position.

Must Operate Voltage is listed for test purposes only and is not to be used as design criteria.

**PICKER** 3220 Commander Drive, Suite 102 Carrollton, TX 75006  
Sales: (972) 713-6272 (888) 997-3933 Fax: (972) 735-0964

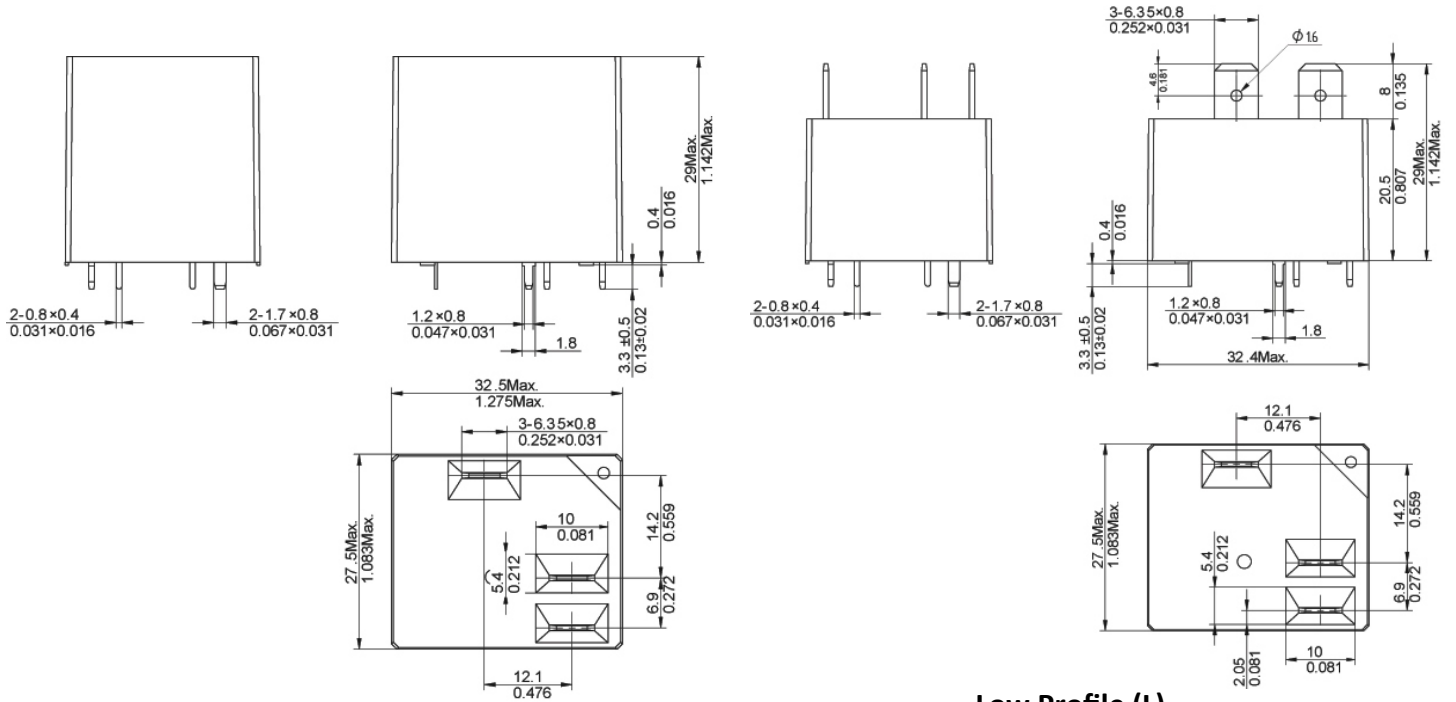
www.PickerComponents.com

e-mail: sales@pickercomponents.com

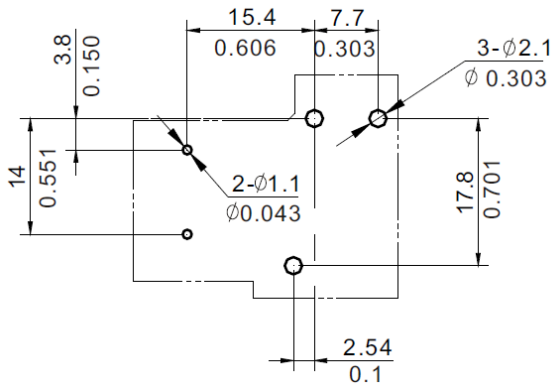
Dimensions are listed for reference purposes only.

Specifications and Availability subject to change without notice.

DIMENSIONS (mm / inches)

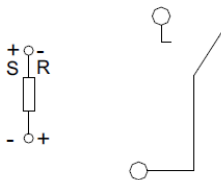


PIN LAYOUT (mm / inches)

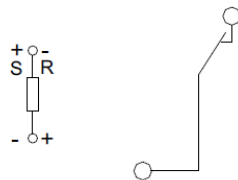


Low Profile (L)

1A



1B



1C

