

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 25₀C

PCT91EL 50 Amp Version	Voltage	1 Form A	1 Form B	1 Form C (SPDT)	
Load Type	voitage	(SPST-NO)	(SPST-NC)	NO	NC
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	Valtage	1 Form A	1 Form B	1 Form C (SPDT)	
Load Type	Voltage	(SPST-NO)	(SPST-NC)	NO	NC
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	Voltago	1 Form A	1 Form B	1 Form C (SPDT)	
Load Type	Voltage	(SPST-NO)	(SPST-NC)	NO	NC
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				
Comica Life	Mechanical	1 x 10 ⁶	Operations			
Service Life	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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Dimensions are listed for reference purposes only.

Specifications and Availability subject to change without notice.

PCT91xL Rev E 11/7/2018

PCT91CL, PCT91DL, PCT91EL CHARACTERISTICS

PCT91CL, PCT91DL PCT91EL

Operate Time	≤ 15 msec			
Release Time	≤ 15 msec			
Insulation Resistance	1,000 MΩ min @ 500VDC			
Dialogtria Ctropath	50 Hz 2,500V 1 minute, Between Contact and Coil			
Dielectric Strength	50 Hz 1,500V 1 minute, Between Contacts			
Shock Resistance	200 m/s ² 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

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

RoHS Compliant: -X

COIL DATA

Box Quantity: 600; Inner Box: 300

COIL DATA							
		Resistance	Must Operate	Pulse	Coil	Operate	Reset
Coil Volta	ge (VDC)	(Ohms ± 10%)	Voltage Max	Magnitude	Power	Time	Time
Rated	Maximum		(VDC)	(msec)	(msec)	(msec)	(msec)
5	6	16.7	4			≤ 15	
12	14.4	96	9.6	≥ 100	1.5		≤ 15
24	28.8	384	19.2	≥ 100			≥ 13
48	57.6	1,536	38.4				
PCT91CL/DL	(30/40 Amp)	Resistance (Ohms ± 10%)	Must Operate	Pulse	Coil	Operate	Reset
Coil Volta	ige (VDC)		Voltage Max	Magnitude	Power	Time	Time
Rated	Maximum	(Onns ± 10 /0)	(VDC)	(msec)	(msec)	(msec)	(msec)
5	6	28	4				
12	14.4	160	9.6	> 50	0.0	- 15	- 15
24	28.8	960	19.2	≥ 50	0.9	≤ 15	≤ 15
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.



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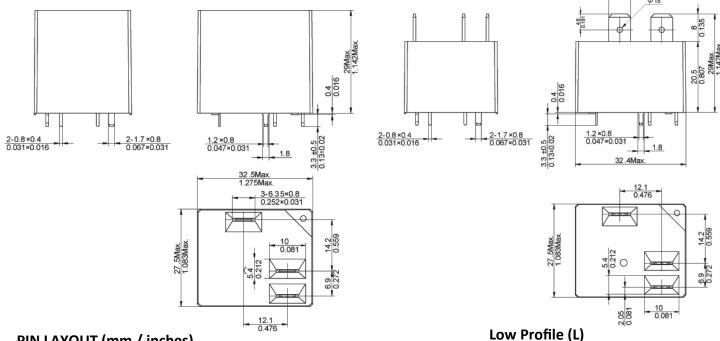
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3-6.35×0.8 0.252×0.031

DIMENSIONS (mm / inches)



PIN LAYOUT (mm / inches)

