

30, 40 or 50 Amp Latching PCB Relay

PCT90CL, PCT90DL, PCT90EL



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 cUL_{US}* Ratings at 25°C

PCT90EL 50 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 *(cULus)	277 VAC	50 A	40 A	50 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	

PCT90DL 40 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, 28VDC	40 A	30 A	40 A	30 A
Incandescent Lamp 5,000 Cycles	240 VAC	5,000 W	5,000 W		
Electronic Ballast 6,000 Cycles	280 VAC	5 A	5 A	5A	
Motor Load 2,000 Cycles	277 VAC	2 HP		2 HP	

PCT90CL 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	25 A	30 A	25 A
Incandescent Lamp 5,000 Cycles	240 VAC	5,000 W	5,000 W		
Electronic Ballast 6,000 Cycles	280 VAC	5 A	5 A		
Motor Load 2,000 Cycles	277 VAC	2 HP	2 HP		

CONTACT DATA

Material	AgSnO2				
Initial Contact Resistance	≤ 20mΩ initial				
Service Life	Mechanical	1 x 10 ⁶	Operations		
Service Life	Electrical				
Maximum Switching Voltage	110VDC 300VAC				
Maximum Switching Power	15,000 VA 1,500 W	12,000 VA 1,200 W	9,000 VA 900 W		
Maximum Switching Current	50 A	40 A	30 A		



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Dimensions are listed for reference purposes only. PCT90xL Rev C 12/15/2016

Specifications and Availability subject to change without notice.

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	200m/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

Example: PCT90EL	-1C	-12	S		-X
Model: PCT90EL (50 Amp)					
PCT90DL (40 Amp)					
PCT90CL (30 Amp)					
Contact Form: 1A (SPST-NO)					
1B (SPST-NC)					
1C (SPDT BBM)					
Coil Voltage: 5, 12, 24, 48					
Enclosure: S: Sealed, E: Covered					
O-11 O-11-11-11-11- NUL DOTOOTI (FO A-11-1) 4 F M	- 11				

Coil Sensitivity: Nil: PCT90EL (50 Amp) 1.5 Watt

Nil: PCT90DL (40 Amp) 0.9 Watt Nil: PCT90CL (30 Amp) 0.9 Watt

Coil: Nil: Single Coil Latching, Double Coil not available at this time

RoHS Compliant: -X

Box Quantity: 600; Inner Box: 300

COIL DATA

PCT90E ((50 Amp)	Danistanaa	Must Operate	Pulse	Coil	Operate	Reset
Coil Voltage		Resistance (Ohms ± 10%)	Voltage Max	Magnitude	Power	Time	Time
Rated	Maximum	(OIIIIS ± 1070)	(VDC)	(msec)	(msec)	(msec)	(msec)
5	6	16.7	4				
12	14.4	96	9.6	≥ 50	1.5	≤ 15	≤ 15
24	28.8	384	19.2	≥ 50	1.3	≥ 15	≥ 13
48	57.6	1,536	38.4				

PCT90C/D (OC/D (30/40 Amp) Resistance		Must Operate	Pulse	Coil	Operate	Reset
Coil Voltage		(Ohms ± 10%)	Voltage Max	Magnitude	Power	Time	Time
Rated	Maximum	(Ollins ± 1070)	(VDC)	(msec)	(msec)	(msec)	(msec)
5	6	28	4				
12	14.4	160	9.6	> 50	0.9	≤ 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.



PCT90xL Rev C 12/15/2016

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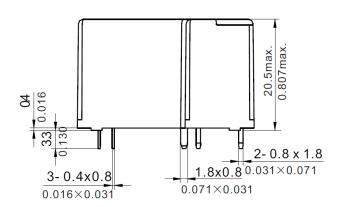
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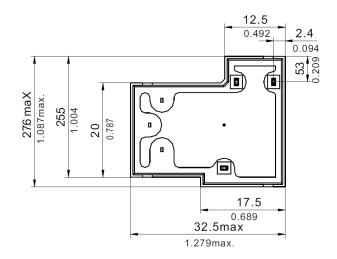
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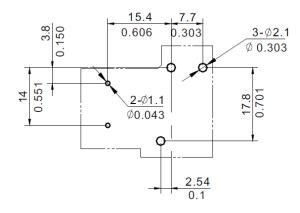
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DIMENSIONS (mm / inches)





PIN LAYOUT (mm / inches)



SCHEMATIC

