15 Amp Subminiature PCB Power Relay — PC415H

FEATURES

- 15 Amp Continuous Contact Capacity
- 1 Form A, 1 Form B and 1 Form C Contact Forms
- Most Popular Package and Footprint
- Class “B” Insulation Standard
- Class “F” Insulation Available
- Sealed, Immersion Cleanable
- RoHS Compliant

UL / CUL Ratings

c UL us E86876

Load Type	All Forms, All Contacts
Resistive	15 Amps @ 125 VAC & 28 VDC 10 Amps @ 250 VAC 6 Amps @ 277 VAC 20 Amps @ 16 VDC
General Purpose	15 Amps @ 120 VAC & 28 VDC 10 Amps @ 250 VAC 6 Amps @ 277 VAC 20 Amps @ 16 VDC
Motor	1/3 HP @ 125 VAC / 277 VAC

CONTACT DATA

Max. Switching Power		420 W, 2500 VA
Max. Switching Voltage		110 VDC, 380 VAC
Max. Switching Current		20 A
Material		AgCdO, $AgSnO_2$, AgDcO + Gold Plate
Initial Contact Resistance		100 mΩ max. @ 0.1 A, 6 VDC
Service Life	Mechanical	1 X 10^7 Operations
	Electrical	1 X 10^5 Operations

CHARACTERISTICS

Operate Time	Less than 10 ms
Release Time	Less than 5 ms
Insulation Resistance	1,000 MΩ min., at 500 VDC, 50% RH
Dielectric Strength	1500 Vrms, 1 min. between coil and contacts 750 Vrms, 1 min. between open contacts
Shock Resistance	10 g, 11 ms, functional; 100 g, destructive
Power Consumption	.36 W

CHARACTERISTICS CONTINUED

Vibration Resistance	DA 1.5 mm, 10 - 55 Hz
Terminal Strength	5N
Solderability	260 ºC for 5 seconds
Operating Temperature	-55 ºC to 85 ºC
Relative Humidity	93% (at 40°C)
Weight	9.5 grams

ORDERING INFORMATION

Example:	PC415H	-1A	-12	S	F	T	-X
Model:	**PC415H**						
Contact Form:	**1A**, **1B**, **1C**						
Coil Voltage:	**3, 5, 6, 9, 12, 24, 48**						
Enclosure:	**S**: Sealed; **C:** Dust Cover						
Insulation System:	**Nil**: Class B, **F**: Class F						
Contact Material:	**Nil**: AgCdO, **T**: $AgSnO_2$, **G**: AgCdO + Gold Plate						
RoHS Compliant:	**-X**						

Box Quantity: 2,000: Inner Box: 1,000

20550 Commerce Blvd, Rogers, MN 553745 USA
Sales: (763) 535-2339
www.PickerComponents.com
e-mail: sales@pickercomponents.com

Dimensions are listed for reference purposes only.

Specifications and Availability subject to change without notice.

COIL DATA

Coil Voltage (VDC)		Resistance ohms ± 10%	Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)	Coil Power (W)
Rated	Max				
3	3.9	25	2.1	0.3	.36
5	6.5	70	3.5	0.5	
6	7.8	100	4.2	0.6	
9	11.7	225	6.3	0.9	
12	15.6	400	8.40	1.2	
24	31.2	1600	16.8	2.4	
48	62.4	6400	33.60	4.8	

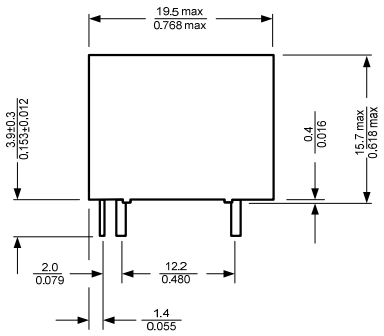
NOTES:

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

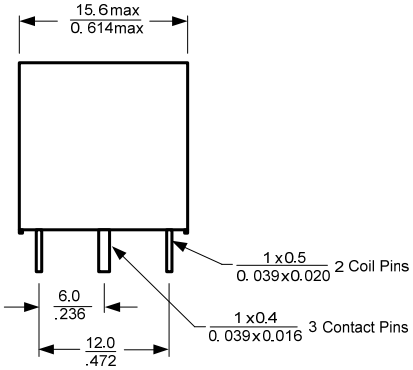
Dimensions are in mm, Inches are listed for reference only.

DIMENSIONS (mm/inches)

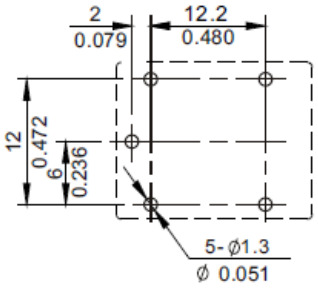
Side View



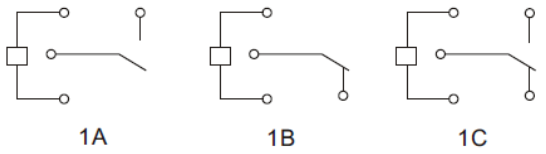
End View



Bottom View PC Board Layout



Wiring Diagram



Notes: Contact Form C shown
On Contact Forms A & B Unused Pins are Omitted
Tolerances ± .010 unless otherwise noted