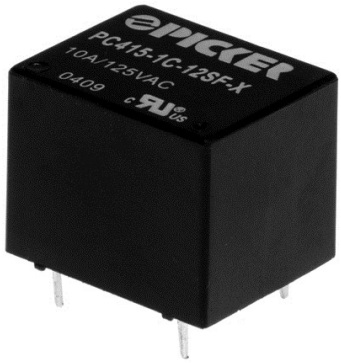
10 Amp Subminiature PCB Power Relay — PC415



FEATURES

- 10 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
- Popular “Sugar Cube” Footprint
- Sealed, Immersion Cleanable
- Lead Free and RoHS Compliant

c UL us E93379

Load Type	All Forms, All Contacts
Resistive	10 Amps @ 120 VAC & 28 VDC 7 Amps @ 240 VAC 5 Amps @ 277 VAC 20 Amps @ 14 VDC
General Purpose	10 Amps @ 120 VAC & 28 VDC 7 Amps @ 240 VAC 5 Amps @ 277 VAC 20 Amps @ 14 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 (Silver Cadmium Oxide)
Initial Contact Resistance		100 milliohms 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 megohms 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

Vibration Resistance	DA 1.5 mm, 10 - 55 Hz
Terminal Strenght	5N
Solderability	235 ºC for 3 seconds
Operating Temperature	-55 to 85 ºC
Relative Humidity	93% (at 40°C)
Weight	9.5 grams

ORDERING INFORMATION

Example:	PC415	-1A	-12	Nil	S	F	T	-X

Model: **PC415**

Contact Form: **1A**, **1B**, **1C**

Coil Voltage: **3, 5, 6, 9, 12, 24, 48**

Coil Sensitivity: **Nil**: 360 mW, **B**: 450 mW, **L:** 800 mW

Enclosure: **S**: Sealed; **C:** Dust Cover

Insulation System: **Nil**: Class B, **F**: Class F

Contact Material: **Nil**: AgCdO, **T**: AgSnO, **G**: AgCdO + Gold Plate

RoHS Compliant: **-X**

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

Lake-View Electronics Corp. 1054 Pioneer Rd. Grafton, WI Ph: 262-377-8250 Fax: 262-375-0109
www.lvelectronics.com Email: sales@lvelectronics.com

Dimensions are listed for reference purposes only.

COIL DATA

Coil Voltage (VDC)		Coil Power Resistance ohms ± 10%			Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)
Rated	Max	360 mW	450 mW	800 mW		
3	3.9	25	20	11	2.1	0.3
5	6.5	70	55.6	31	3.5	0.5
6	7.8	100	80	45	4.2	0.6
9	11.7	225	180	101	6.3	0.9
12	15.6	400	320	180	8.40	1.2
24	31.2	1600	1280	720	16.8	2.4
48	62.4	6400	5120	2880	33.60	4.8

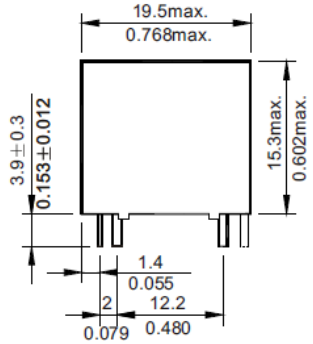
NOTES:

The use of any coil voltage less that 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.

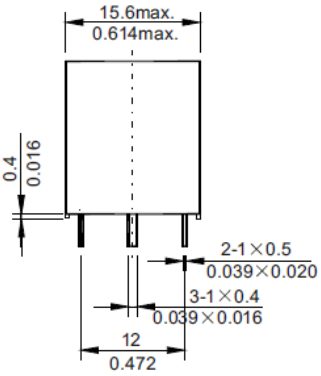
Dimensions are in mm, Inches are listed for reference only.

DIMENSIONS (mm/inches)

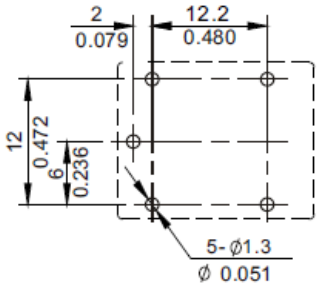
Side View



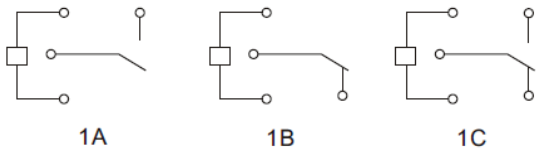
End View



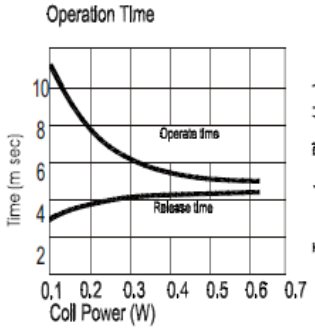
Bottom View
PC Board Layout

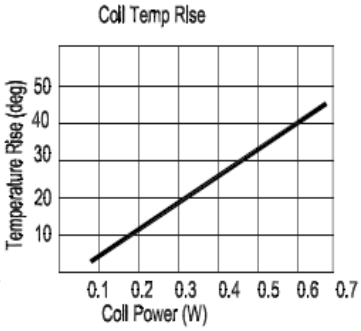


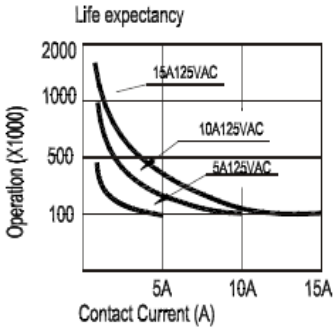
Wiring Diagram

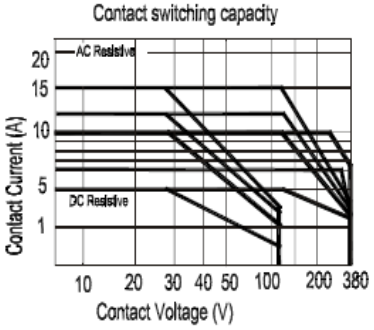


Notes: Contact Form C shown
On Contact Forms A & B Unused Pins are Omitted
Tolerances ± .010 unless otherwise noted









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