

10 Amp Subminiature PCB Power Relay

PC415



UL / CUL Ratings

cNus E86876

All Forms, All Contacts			
10 Amps @ 120 VAC & 28 VDC			
7 Amps @ 240 VAC			
5 Amps @ 277 VAC			
20 Amps @ 14 VDC			
10 Amps @ 120 VAC & 28 VDC			
7 Amps @ 240 VAC			
5 Amps @ 277 VAC			
20 Amps @ 14 VDC			
1/3 HP @ 125 VAC / 277 VAC			

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
- Production Line Fully Automated

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
	1500 Vrms, 1 min. between coil and contacts
Dielectric Strength	750 Vrms, 1 min. between open contacts
Shock Resistance	10 g, 11 ms, functional; 100 g, destructive

ORDERING INFORMATION

Example:	PC415	-1A	-12	Nil	S	F	-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							
RoHS Compliant:	-X							
Contact Material:	Nil: AgCdO, T: AgSnO, G	: AgCd() + Golo	l Plate				•
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Box Quantity: 2,000; Inner Box 1,000

Vibration ResistanceDA 1.5 mm, 10 - 55 HzTerminal Strength5NSolderability260 °C for 5 secondsOperating Temperature-55 to 85 °CRelative Humidity93% (at 40°C)Weight9.5 grams

Dimensions are listed for reference purposes only. PC415 Rev G 11/2022

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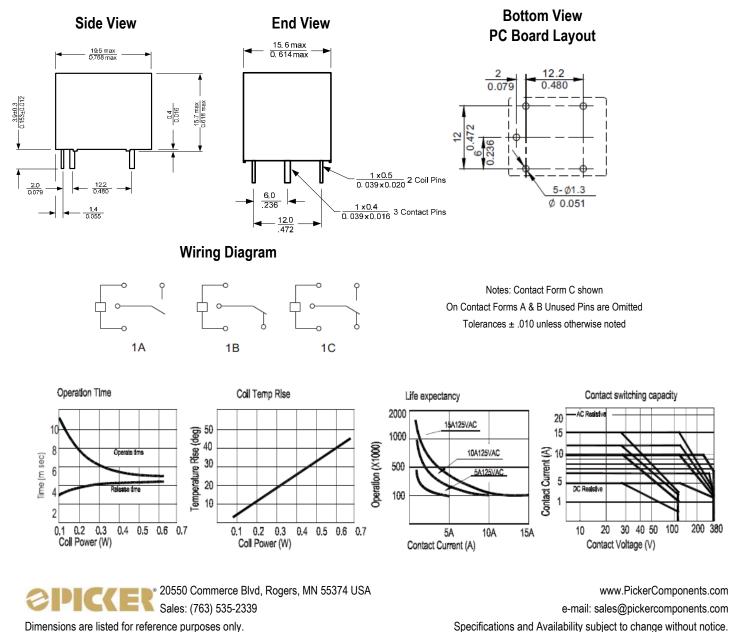
COIL DATA

Coil V	oltage		Coil Power		Must Operate	Must Release
(VI	DC)	Resistance ohms ± 10%			Voltage Max.	Voltage Min.
Rated	Max	360 mW	450 mW 800 mW		(VDC)	(VDC)
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 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 (mm/inches)



Dimensions are listed for reference purposes only. PC415 Rev G 11/2022