

# 10 Amp Subminiature PCB Power Relay



#### **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

# **UL / CUL Ratings**



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Load Type	All Forms, All Contacts		
	10 Amps @ 120 VAC & 28 VDC		
Resistive	7 Amps @ 240 VAC		
	5 Amps @ 277 VAC		
	20 Amps @ 14 VDC		
	10 Amps @ 120 VAC & 28 VDC		
General Purpose	7 Amps @ 240 VAC		
	5 Amps @ 277 VAC		
	20 Amps @ 14 VDC		
Motor	1/3 HP @ 125 VAC / 277 VAC		
Motor	20 Amps @ 14 VDC		

## **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 <sup>7</sup> Operations		
	Electrical	1 X 10⁵ 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			
D'alasti Olassi II	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			

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

#### ORDERING INFORMATION

OKDEKING IN	ORIVIATION							
Example:	PC415	-1A	-12	Nil	S	F	-X	Т
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: AgCdO + Gold Plate							<u>-</u> '	

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

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Sales: (763) 535-2339

e-mail: sales@pickercomponents.com Specifications and Availability subject to change without notice.

www.PickerComponents.com

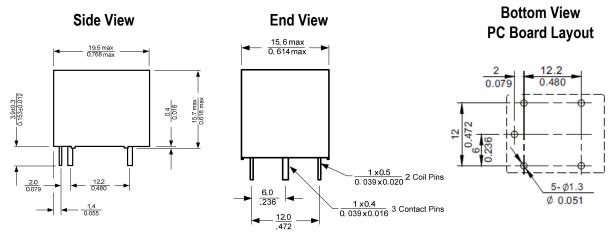
#### **COIL DATA**

Coil V	oltage	Coil Power		Must Operate	Must Release		
(VI	DC)	Res	sistance 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	

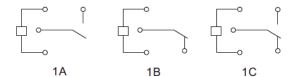
#### NOTES:

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)**



#### Wiring Diagram



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

