

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



| or, oor namigo | | | |
|-----------------|----------------------------|--|--|
| Load Type | All Forms, All Contacts | | |
| | 10 Amps @ 120 VAC & 28 VDC | | |
| Resistive | 7 Amps @ 240 VAC | | |
| Nesistive | 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 | | |
| 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 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 | | | |
| 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

20550 Commerce Blvd, Rogers, MN 55374 USA

Sales: (763) 535-2339

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

www.PickerComponents.com

COIL DATA

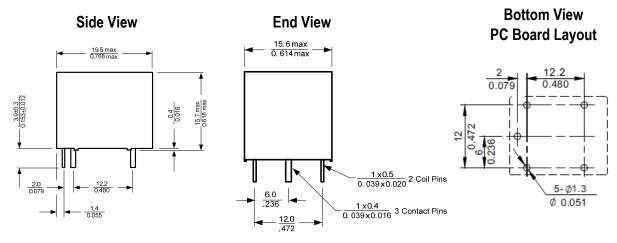
PC415

| Coil V | oltage | Coil Power | | Must Operate | Must Release | | | |
|--------|--------|------------|---------------------|--------------|-----------------------|-------|--------------|--------------|
| (VI | OC) | Res | sistance ohms ± 10% | | 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 | | |

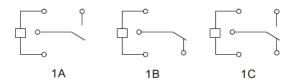
NOTES:

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)



Wiring Diagram



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

