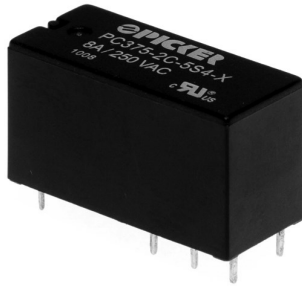


Low Profile PCB Power Relay

PC375



FEATURES

- Up to 16 Amp Continuous Contact Capacity
- Four Versions
- 5 KV Dielectric Strength Between Coil and Contacts
- Meets UL 873 Spacing
- Class F Material Available
- 85°C Operating Temperature
- RoHS Compliant



| Version | 1 | | 2 | | 3 | | 4 | |
|--------------------------------|-----------------------------|---------|-----------------------------|---------|--------------------------------------|----------|---------------------------|---------|
| Form | 1A SPST | 1C SPDT | 1A SPST | 1C SPDT | 1A2 SPST | 1C2 SPDT | 2A DPST | 2C DPDT |
| Number of Pins | 4 | 5 | 4 | 5 | 6 | 8 | 6 | 8 |
| Contact Pin Spacing | 3.5 mm | 3.5 mm | 5.0 mm | 5.0 mm | 5.0 mm | 5.0 mm | 5.0 mm | 5.0 mm |
| Wire Diag (Bottom View) | | | | | | | | |
| | 1A | 1C | 1A | 1C | 1A2 | 1C2 | 2A | 2C |
| General Purpose 100K Cycles | 12 A 250 VAC 12 A 30 VDC | | 12 A 250 VAC 12 A 30 VDC | | NC: 12 A 250 VAC NO: 16 A 250 VAC | | 8 A 277 VAC 8 A 30 VDC | |
| Resistive 6,000 Cycles | 12 A 250 VAC 12 A 30 VDC | | 12 A 250 VAC 12 A 30 VDC | | 16 A 277VAC 16 A 277 VAC | | 8 A 277 VAC 8 A 30 VDC | |
| Coil Power | 410 mW | | 410 mW | | 410 mW | | 410 mW | |
| Max Switching Current | 20 A | | | | | | | |
| Max Switching Power | 480 W 5,600 VA | | | | | | 2 x 150 W 2 x 1,800 VA | |
| Max Switching Voltage | 440 VAC 125 VDC | | | | | | | |

ORDERING INFORMATION

Example: PC375 -1C -12 S 2 -X

Model: **PC375**

Contact Form: **1A, 1C, 2A, or 2C**

Coil Voltage (VDC): **5, 6, 9, 12, 24, 48, 110**

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

Version: **1: 1 Pole, 1A or 1C, 12 A, 3.5 mm; 2: 1 Pole, 1A or 1C, 12 A, 5 mm; 3: 1 Pole, 1A2 or 1C2, 16 A, 5 mm; 4: 2 Pole, 2A or 2C, 8 A, 5 mm**

Coil Sensitivity: **Nil: 410 mW**

RoHS Compliant: **-X**

Contact Material: **Nil: AgSnO₂**

Insulation Material: **Nil: Class B; F: Class F**

Box Quantity: 1000; Inner Box: 500

COIL DATA

| Coil Voltage | | Resistance (Ohms \pm 10%) | Must Operate Voltage Max (VDC) | Must Release Voltage Min. (VDC) | Coil Power (mW) |
|--------------|------|--------------------------------|--------------------------------------|---------------------------------------|--------------------|
| Rated | Max | | | | |
| 5 | 6.5 | 61 | 3.5 | 0.5 | 410 |
| 6 | 7.8 | 88 | 4.2 | 0.6 | |
| 9 | 11.7 | 198 | 6.3 | 0.9 | |
| 12 | 15.6 | 351 | 8.4 | 1.2 | |
| 24 | 31.2 | 1405 | 16.8 | 2.4 | |
| 48 | 62.4 | 5620 | 33.6 | 4.8 | |
| 60 | 78 | 8780 \pm 15% | 42 | 6.0 | |
| 110 | 143 | 29512 \pm 15% | 77 | 11.0 | |

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.

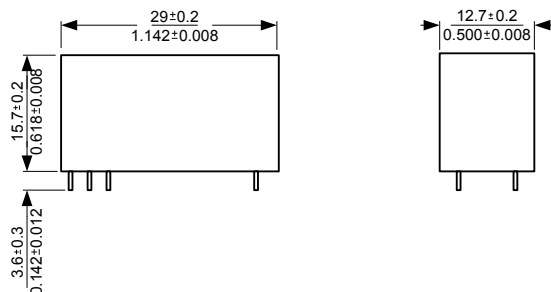
CONTACT DATA

| | | |
|----------------------------|------------|--------------------------------|
| Material | | AgSnO ₂ |
| Initial Contact Resistance | | 50 m Ω max @ 1 A, 6 VDC |
| Service Life | Mechanical | 1 X 10 ⁷ Operations |
| | Electrical | 1 X 10 ⁵ Operations |

CHARACTERISTIC

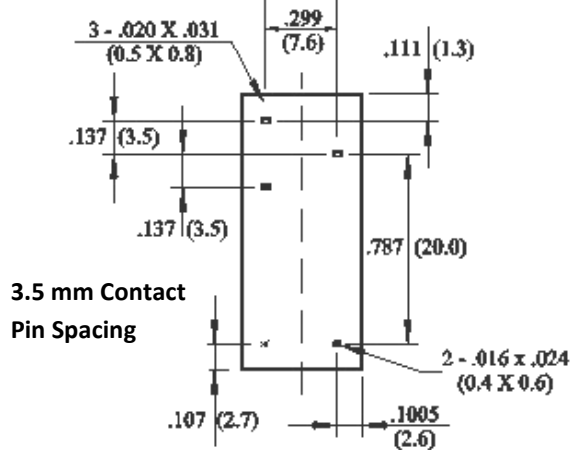
| | |
|-----------------------------|--|
| Operate Time | 15 ms. Max. |
| Release Time | 8 ms Max |
| Insulation Resistance | 1,000 M Ω min, at 500 VDC, 50% RH |
| Dielectric Strength | 5000 V 50 HZ between coil and contacts 1000 V 50 HZ between open contacts |
| Power Consumption | 410 mW |
| Shock Resistance | 10 g, 11 ms, functional; 100 g, destructive |
| Vibration Resistance | 10 Hz- 55 Hz DA 2.0 mm |
| Terminal Strength | 10N |
| Solderability | 235 °C for 3 seconds |
| Operating Temperature Range | Class B - 40°C to 85°C |
| | Class F - 40°C to 105°C |
| Relative Humidity | 85% (at 40°C) |
| Weight | 12 grams MAX |

DIMENSIONS

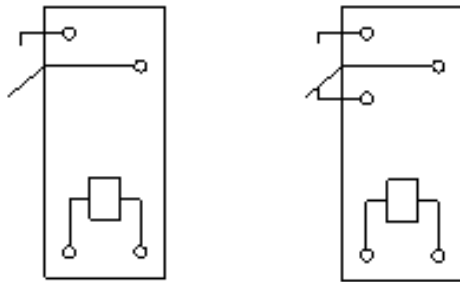


DIMENSIONS

Version 1



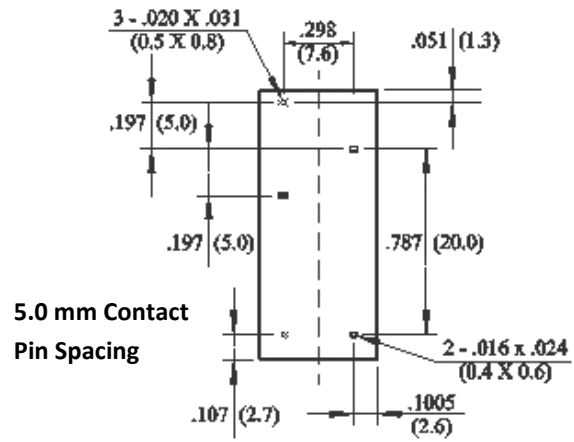
3.5 mm Contact
Pin Spacing



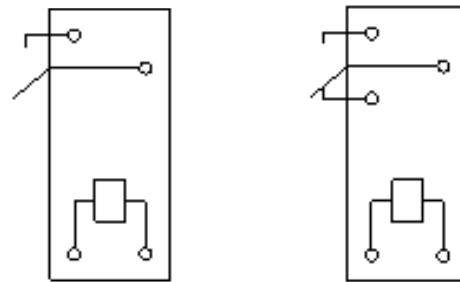
1A
4 Pin

1C
5 Pin

Version 2



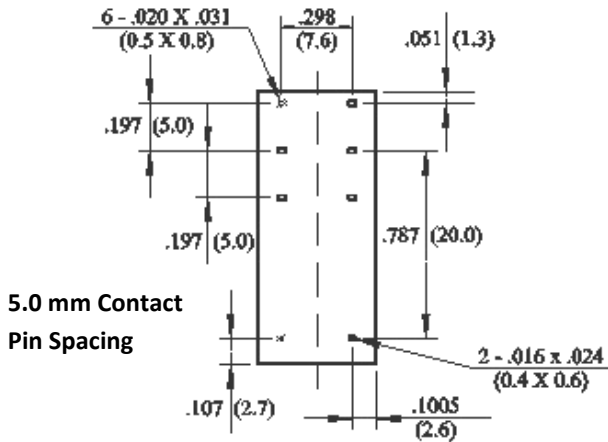
5.0 mm Contact
Pin Spacing



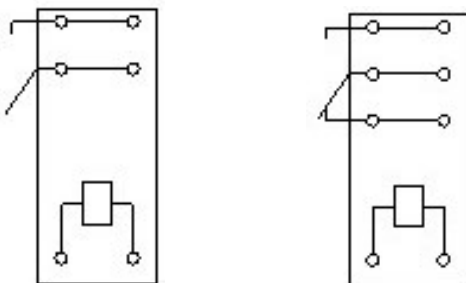
1A
4 Pin

1C
5 Pin

Version 3



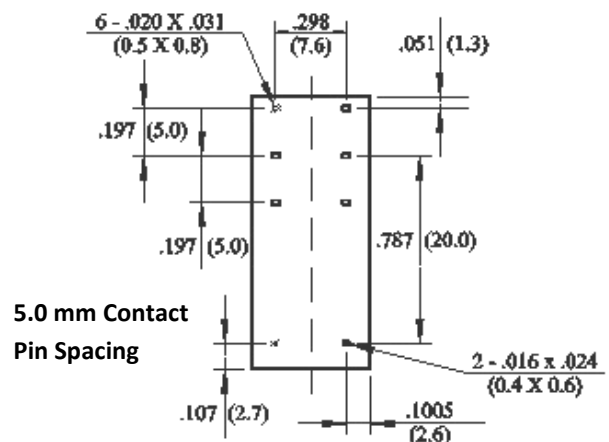
5.0 mm Contact
Pin Spacing



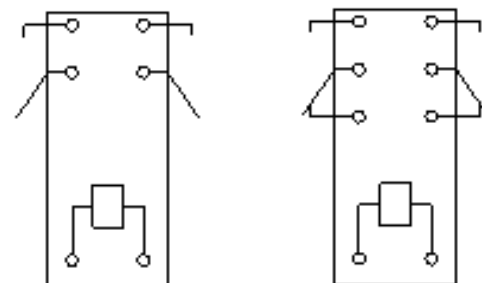
1A2
6 Pin

1C2
8 Pin

Version 4



5.0 mm Contact
Pin Spacing



2A
6 Pin

2C
8 Pin