

Subminiature PCB Power Relay

PC435



FEATURES

- 10 Amp continous contact capacity
- 1 Form A & 1 form C contact forms
- Subminiature design
- Class "B" insulation standard
- Sensitive version available
- 4 Kv dielectric between coil and contacts
- 8mm spacing between contacts and coil
- Sealed, immersion cleanable
- **Now available Lead Free & RoHS Compliant**



File # E93379

UL/CUR RATINGS

| Load Type | Normally Open Contact | Normally Closed Contact |
|---------------|------------------------|-------------------------|
| General Use | 10 Amps @ 125 VAC | 5 Amps @ 125 VAC |
| | 5 Amps @ 250 VAC | 3 Amps @ 250 VAC |
| | 5 Amps @ 30 VDC | 3 Amps @ 30 VDC |
| | 4.2 Amps @ 277 VAC | 2 Amps @ 277 VAC |
| Motor | 1/4 HP @ 250 & 277 VAC | — |
| Tungsten Lamp | TV-5 | — |

CONTACT DATA

| | | |
|----------------------------|------------|--------------------------------|
| Material | | AgCdO (Silver Cadmium Oxide) |
| Initial Contact Resistance | | 100 milliohms max @ 0.1A, 6VDC |
| Service Life | Mechanical | 1 X 10 ⁷ Operations |
| | Electrical | 1 X 10 ⁵ Operations |

CHARACTERISTICS

| | |
|---------------------------|--|
| Operate Time | 8 ms. Max. |
| Release Time | 5 ms. Max. |
| Insulation Resistance | 1000 megohms min, at 500VDC, 50%RH |
| Dielectric Strength | 4000 Vrms, 1 min. between coil and contacts 1000 Vrms, 1 min. between open contacts |
| Shock Resistance | 10 g, 11ms, functional; 100 g, destructive |
| Vibration Resistance | DA 1.6 mm, 10 - 55 Hz |
| Power Consumption | .45 W |
| Ambient Temperature Range | -40 to 70 C operating for class B, -40 to 130 C storage |
| Weight | 7 grams approx. |

ORDERING INFORMATION

Example:

| | | | | | | |
|-------|-----|-----|---|---|----|----|
| PC435 | -1C | -12 | S | F | -H | -X |
|-------|-----|-----|---|---|----|----|

Model

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Contact Form 1A, 1C

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Coil Voltage

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Enclosure S: Sealed; C: Flux Free

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Insulation System
Nil: Class B (155 degrees C), F: Class F (125 degrees C)

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Coil Sensitivity
Nil: Standard .45 W, H: Sensitive .2 W

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RoHS Compliant
Nil: Not RoHS, -X: RoHS Compliant

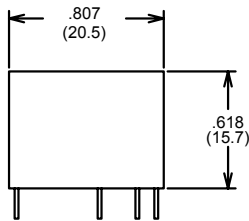
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COIL DATA

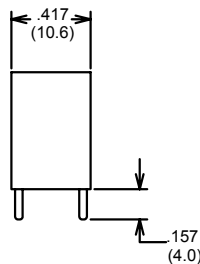
| Coil Voltage | Resistance ohms $\pm 10\%$ | | | | Must Operate Voltage Max. (VDC) | Must Release Voltage Min. (VDC) |
|--------------|----------------------------|--------|----------------|--------|---------------------------------|---------------------------------|
| | Standard Coil | | Sensitive Coil | | | |
| 3 | 20 | 0.45 W | 45 | 0.20 W | 2.25 | 0.15 |
| 5 | 55 | | 125 | | 3.75 | 0.25 |
| 6 | 80 | | 180 | | 4.50 | 0.30 |
| 9 | 180 | | 400 | | 6.75 | 0.45 |
| 12 | 320 | | 720 | | 9.00 | 0.60 |
| 18 | 720 | | 1620 | | 13.50 | 0.90 |
| 24 | 1280 | | 2800 | | 18.00 | 1.20 |

Dimensions in Inches (millimeters)

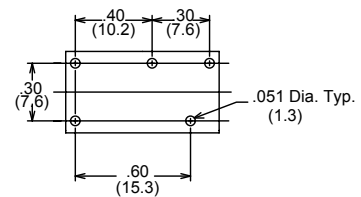
Side View



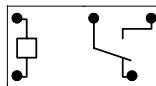
End View



**Bottom View
PC Board Layout**



Wiring Diagram



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



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