



## FEATURES

- ISO 280 Footprint
- 1A & 1C Contact Forms
- -40°C to 125°C Operating Temperature
- Internal Diode or Resistor Option



## CONTACT RATINGS

|                |  |    |   |    |  |
|----------------|--|----|---|----|--|
| Contact Form   | 1A SPST N.O.<br>1C SPDT  |    |   |    |  |
| Contact Rating | <table border="0"> <tr> <td>1A</td> <td>35A @ 14 VDC, resistive<br/>15A @ 28VDC, resistive</td> </tr> <tr> <td>1C</td> <td>NO 35A @ 14VDC, resistive<br/>NC 25A @ 14VDC, resistive<br/>NO 15A @ 28VDC, resistive<br/>NC 10A @ 28VDC, resistive</td> </tr> </table> | 1A | 35A @ 14 VDC, resistive<br>15A @ 28VDC, resistive | 1C | NO 35A @ 14VDC, resistive<br>NC 25A @ 14VDC, resistive<br>NO 15A @ 28VDC, resistive<br>NC 10A @ 28VDC, resistive |
| 1A             | 35A @ 14 VDC, resistive<br>15A @ 28VDC, resistive  |    |   |    |  |
| 1C             | NO 35A @ 14VDC, resistive<br>NC 25A @ 14VDC, resistive<br>NO 15A @ 28VDC, resistive<br>NC 10A @ 28VDC, resistive   |    |   |    |  |

## CHARACTERISTICS

|                       |   |
|-----------------------|---|
| Insulation Resistance | 100 MΩ min. at 500 VDC  |
| Dielectric Strength   | 500 Vrms, 50 Hz, between contacts<br>500 Vrms, 50 Hz, between coil & contacts |
| Power Consumption     | 1.3 W   |
| Terminal Strength     | 10N   |
| Solderability         | 260°C 5 s ± 0.5 s   |
| Operating Temperature | -40°C to 125°C  |
| Storage Temperature   | -40°C to 155°C  |
| Shock Resistance      | 200 m/s <sup>2</sup> 11 ms  |
| Vibration Resistance  | 10-40Hz; 1.27mm double amplitude  |
| Weight                | 21.0g   |

## CONTACT DATA

|                            |   |            |                                |            |                                |
|----------------------------|---|------------|--------------------------------|------------|--------------------------------|
| Maximum Switching Power    | 490 W   |            |                                |            |                                |
| Maximum Switching Voltage  | 75 VDC  |            |                                |            |                                |
| Maximum Continuous Current | 35 A  |            |                                |            |                                |
| Material                   | AgSnO <sub>2</sub>  |            |                                |            |                                |
| Initial Contact Resistance | 50 mΩ max.  |            |                                |            |                                |
| Service Life               | <table border="0"> <tr> <td>Mechanical</td> <td>1 x 10<sup>7</sup> operations</td> </tr> <tr> <td>Electrical</td> <td>1 x 10<sup>5</sup> operations</td> </tr> </table> | Mechanical | 1 x 10 <sup>7</sup> operations | Electrical | 1 x 10 <sup>5</sup> operations |
| Mechanical                 | 1 x 10 <sup>7</sup> operations  |            |                                |            |                                |
| Electrical                 | 1 x 10 <sup>5</sup> operations  |            |                                |            |                                |

Values can change due to the switching frequency, desired reliability levels, environmental conditions, and in-rush current levels. It is recommended to test to actual load conditions for the application. It is the users responsibility to determine the performance suitability for their specific application. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.

## ORDERING INFORMATION

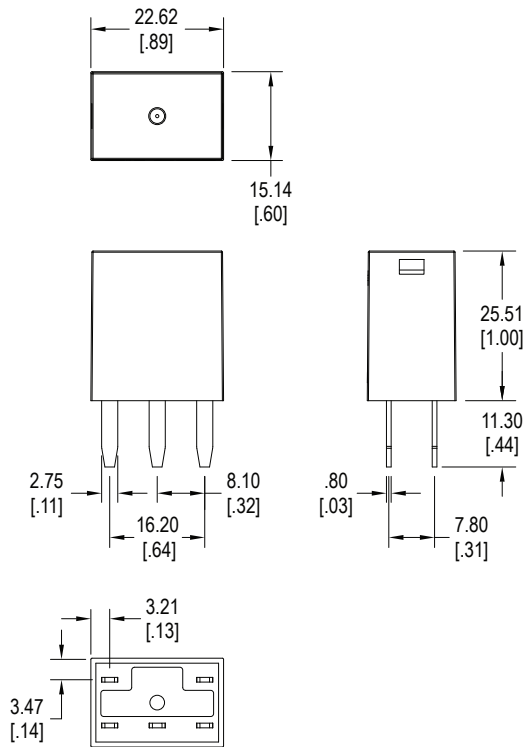
|                    |  |     |     |   |    |    |
|--------------------|--|-----|-----|---|----|----|
| Example            | PC785  | -1C | -12 | S | -R | -X |
| Model:             | PC785  |     |     |   |    |    |
| Contact Form:      | 1A<br>1C   |     |     |   |    |    |
| Mounting Version:  | Nil = Plug-In  |     |     |   |    |    |
| Coil Voltage:      | 12 = 12VDC<br>24 = 24VDC   |     |     |   |    |    |
| Enclosure:         | C = Dust Cover<br>S = Sealed<br>S1 = Flux Tight <sup>(1)</sup>   |     |     |   |    |    |
| Parallel Component | Nil = None<br>D = Diode (1N4005)<br>D1 = Reverse Diode (1N4005)<br>R = Resistor (680 Ohms for 12VDC, 2700 for 24VDC) |     |     |   |    |    |
| RoHS Compliant     | -X   |     |     |   |    |    |

(1) Flux Tight relays are constructed such that Flux will not enter the relay in an automated soldering process, they are NOT suitable for water wash cleaning.

**COIL DATA**

| Coil Voltage |         | Resistance<br>(Ohms ± 10%) | Pick Up Voltage Max.<br>VDC | Release Voltage Min.<br>VDC | Coil Power<br>W | Operate Time<br>ms | Release Time<br>ms |
|--------------|---------|----------------------------|-----------------------------|-----------------------------|-----------------|--------------------|--------------------|
| Rated        | Maximum |                            |                             |                             |                 |                    |                    |
| 12           | 15.6    | 109                        | 7.20                        | 1.20                        | 1.3             | 10                 | 10                 |
| 24           | 31.2    | 436                        | 14.40                       | 2.40                        | 1.3             |                    |                    |

**DIMENSIONS** mm (inches)



**SCHEMATICS** Bottom Views

