



FEATURES

- Most Popular Automotive Relay
- 1A, 1C Contact Forms Available
- Contact Switching Capacity up to 140 Amps
- 80 Amps @ 14VDC Continuous Carrying Current
- Plain Case with Plastic or Metal Bracket or PCB Options
- Compatible with Socket SC795
- Lead Free and RoHS Compliant

CONTACT RATINGS 14 VDC at 25°C

| Contact Form | 1 Form A or 1 Form C | |
|------------------------|----------------------|-----------------|
| | Normally Open | Normally Closed |
| Max Switching Current | Make 160 A | Make 100 A |
| | Break 60 A | Break 60 A |
| Max Switching Power | 1,120 W | |
| Max Switching Voltage | 75 VDC | |
| Max Continuous Current | 80 A | 60 A |
| Minimum Load | 0.5A @ 12VDC | |

CONTACT RATINGS 28 VDC at 25°C

| Contact Form | 1 Form A or 1 Form C | |
|------------------------|----------------------|-----------------|
| | Normally Open | Normally Closed |
| Max Switching Current | Make 80A | Make 50 A |
| | Break 30 A | Break 30 A |
| Max Switching Power | 1,120 W | |
| Max Switching Voltage | 75 VDC | |
| Max Continuous Current | 40 A | 30 A |
| Minimum Load | 0.5A @ 12VDC | |

CHARACTERISTICS

| | |
|-----------------------|---|
| Operate Time | 10 msec Typical |
| Release Time | 7 msec Typical |
| Insulation Resistance | 100 MΩ min @ 500VDC |
| Dielectric Strength | 50 Hz 750V _{RMS} 1 min. Between Contact and Coil |
| | 50 Hz 500V _{RMS} 1 min. Between Contacts |
| Shock Resistance | 294 m/s ² 11 msec |
| Vibration Resistance | 10 - 55 Hz Double Amplitude, 3mm |
| Terminal Strength | 100 N |
| Solderability | 260°C for 5 seconds |
| Power Consumption | 1.6 W, 1.8 W |
| Relative Humidity | 85% at 40°C |

* Sealed with 6,12 or 24 VDC, 1.6 and 1.8 Watt Coil Versions.

ORDERING INFORMATION

| | | | | | | | |
|---------------------|---|-----|----|-----|---|----|----|
| Example: | PC695 | -1C | -C | -12 | S | -D | -X |
| Model: | PC695 | | | | | | |
| Contact Form: | 1A, 1C | | | | | | |
| Case Style: | C: Plug-In; C1: Plastic Bracket; C2: Metal Bracket | | | | | | |
| | P: PCB; P1: PCB w/Plastic Bracket; P2: PCB w/Metal Bracket | | | | | | |
| Coil Voltage: | 6, 12, 24 | | | | | | |
| Enclosure: | C: Dust Cover, S: Sealed | | | | | | |
| Coil Power: | Nil: 1.8W, 1.6: 1.6W | | | | | | |
| Parallel Component: | Nil: None; D: Diode; R: Resistor | | | | | | |
| Terminal Plating | N: Nickel Plated Terminals Standard on all Plug in Models; Nil: PC Pin Version | | | | | | |
| RoHS Compliant: | -X | | | | | | |

Box Quantity: 400; Inner Box: 100

CONTACT DATA

| | | |
|----------------------------|--------------------|--------------------------------|
| Material | AgSnO ₂ | |
| Initial Contact Resistance | ≤ 20mΩ initial | |
| Service Life | Electrical | 1 x 10 ⁵ Operations |
| | Mechanical | 1 x 10 ⁷ Operations |

CHARACTERISTICS CONTINUED

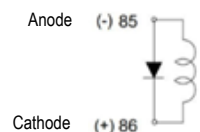
| | |
|-----------------------|-----------------|
| Operating Temperature | -40°C to +125°C |
| Storage Temperature | -40°C to +155°C |
| Weight | 47 grams |

See SC795 for available sockets

Coil Options

Resistor Values:
 6V - 180 ohm
 12V - 680 ohm
 24V - 2,700 ohm
 Diode: 1N4005

Orientation of Optional Diode



*Contact Picker if You Require the Opposite Polarity or a Dual Diode

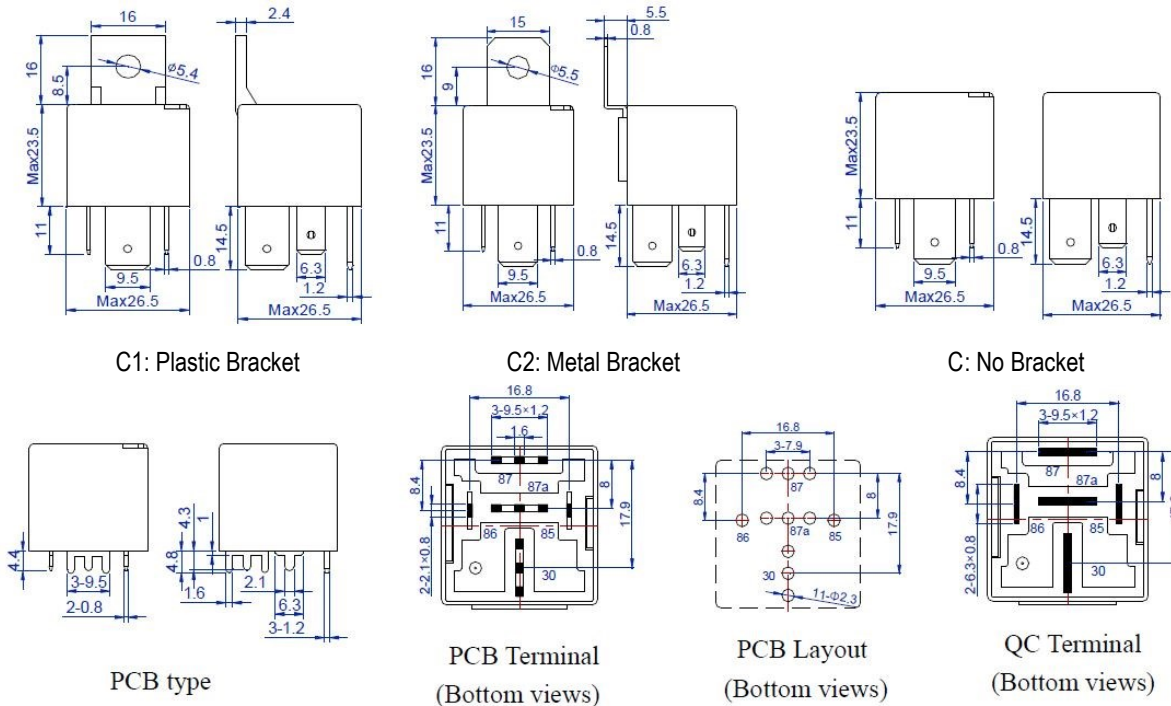
COIL DATA

| Coil Voltage (VDC) | | Coil Power Resistance (Ohms \pm 10%) | | Must Operate Voltage Max (VDC) | Must Release Voltage Min. (VDC) |
|--------------------|------|--|------|--------------------------------|---------------------------------|
| Rated | Max | 1.8W | 1.6W | | |
| 6 | 7.8 | 20 | 22.5 | 3.9 | 0.6 |
| 12 | 15.6 | 80 | 90 | 7.8 | 1.2 |
| 24 | 31.2 | 320 | 360 | 15.6 | 2.4 |
| 48 | 62.4 | 1280 | 1440 | 31.2 | 4.8 |

NOTES:

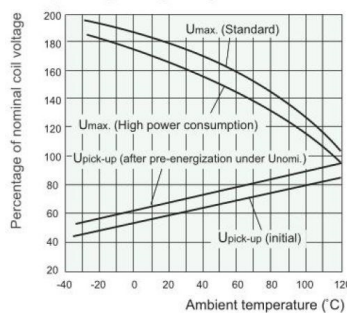
The use of any coil voltage less than the rated voltage will compromise the operation of the relays. Must Operate Voltage and Release Voltages are for test purposes only and are not to be used as design criteria.

DIMENSIONS (mm / inches)

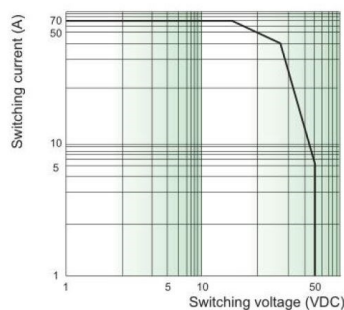


REFERENCE DATA

1. Coil operating voltage range



2. Load limit curve



WIRING DIAGRAM

