

50/40 Amp Automotive Plug-In / PCB Mini ISO Relay

PC792C



FEATURES

- Most Popular Automotive Relay Footprint
- 1A, 1C and 1U Contact Forms Available
- Contact Switching Capacity up to 150 Amps
- 50 Amps Continuous Carrying Current
- Up to 125°C Operating Temperature
- Internal Diodes or Resistors Available
- Plain Case, Plastic Bracket, Metal Bracket or PC Pins
- Compatible with Socket SC792
- Lead Free and RoHS Compliant
- Fully Automated Assembly

CONTACT RATINGS 14 VDC at 25°C

| Contact Form | 1 Form A or 1 Form C | |
|------------------------------------|--|---------------------------|
| | Normally Open | Normally Closed |
| Max Switching Current | Make 150 A ⁽¹⁾ | Make 120 A ⁽¹⁾ |
| | Break 50 A | Break 40 A |
| Max Continuous Current | 50 A @ 25°C | 40 A @ 25°C |
| | 37.5 A @ 85°C | 30 A @ 85°C |
| Max Continuous Current 1 Form U | 2 X 30 Amps (at 20°C) 2 X 25 Amps (at 85°C) | |
| Max Switching Voltage | 75 VDC | |
| Max. Switching Power | 1,120 W | |
| Minimum Load | 0.1A @ 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 75 A ⁽¹⁾ | Make 60 A ⁽¹⁾ |
| | Break 25 A | Break 20 A |
| Max Continuous Current | 25 A @ 25°C | 20 A @ 25°C |
| | 18.75 A @ 85°C | 15 A @ 25°C |
| Max Continuous Current 1 Form U | 2 X 15 Amps (at 20°C) 2 X 12.5 Amps (at 85°C) | |
| Max Switching Voltage | 75 VDC | |
| Max. Switching Power | 1,120 W | |
| Minimum Load | 0.1A @ 12VDC | |

CHARACTERISTICS

| | |
|-----------------------|---|
| Operate Time | 7 msec Typical |
| Release Time | 2 msec Typical |
| Insulation Resistance | 100 MΩ Min @ 500VDC |
| Dielectric Strength | 50 Hz 500V _{RMS} 1 min. Between Contact and Coil |
| | 50 Hz 500V _{RMS} 1 min. Between Contacts |
| Shock Resistance | 147 m/s ² 11 msec |
| Vibration Resistance | 10-40 Hz Double Amplitude 1.5mm |
| Terminal Strength | 8 N, 4N (PC Type) |
| Solderability | 260°C for 5 seconds |
| Power Consumption | 1.8 W Standard, 2.3 W & 2.6 W Optional |

CONTACT DATA

| | | |
|----------------------------|---------------------------|--------------------------------|
| Material | AgSnO ₂ | |
| Initial Contact Resistance | 100 MΩ Max @ 0.1 A, 6 VDC | |
| 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 |
| Relative Humidity | 85% at 40°C |
| Weight | 46 grams, 48 grams w/Metal Bracket |
| Flammability | UL-94-VO Meets FMVSS 302 |

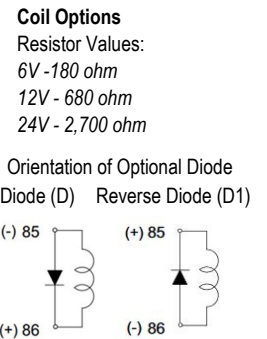
⁽¹⁾With current load applied for a maximum of 3 seconds at a maximum duty cycle of 10%

See SC792 for available sockets

ORDERING INFORMATION

| | | | | | | | | | |
|---------------------|--|-----|-----|-----|---|-----|----|---|----|
| Example: | PC792C | -1C | -C1 | -12 | C | 2.3 | -D | N | -X |
| Model: | PC792C | | | | | | | | |
| Contact Form: | 1A (SPST-NO), 1C (SPDT) or 1U (2 X 1A, 87 & 87b Isolated) | | | | | | | | |
| Case Style: | C: Plug-In; C1: Plastic Bracket; C2: Metal Bracket; P: PC Pins | | | | | | | | |
| Coil Voltage: | 6, 12, 24 | | | | | | | | |
| Enclosure: | C: Dust Cover | | | | | | | | |
| Coil Power: | Nil: 1.8 W; 2.3: 2.3 W⁽²⁾ | | | | | | | | |
| Parallel Component: | Nil: None; D: Diode; D1: Reverse Diode; R: Resistor | | | | | | | | |
| Terminal Plating: | N: Tin Plated Terminals Standard on all Plug In Models; Nil: PC Pin Version | | | | | | | | |
| RoHS Compliant: | -X | | | | | | | | |

⁽²⁾ Special coil, Minimum Order Quantities Apply



*Contact Picker if you require a dual diode

Box Quantity: 400; Inner Box: 100

