# 40 Amp Micro ISO Automotive Plug In / PCB Relay - Ignition Protected PC784


## FEATURES

- Ignition Protected* | SAE J1171 | UL 1500 | ISO 8846
- Micro Size ISO Plug-In Design
- 1A and 1C Contact Forms Available
- Contact Switching Capacity up to 90 Amps
- 40 Amp 1 Form A, 35 Amp 1 form C
  Continuous Carrying Current
- 125˚C Operating Temperature
- Internal Diodes or Resistors Available
- Compatible with Socket SC782
- RoHS Compliant

## CONTACT RATINGS 14 VDC at 25°C

| Contact Form | 1 Form A | 1 Form C | |
|---|---|---|---|
| | | Normally Open | Normally Closed |
| Max. Inrush Current | Make 90 A(1) | Make 90 A(1) | Make 25 A(1) |
| | Break 25 A | Break 25 A | Break 20 A |
| Contact Rating (Resistive) | 40 A | 35 A | 20 A |
| Max. Switching Voltage | 28 VDC | | |
| Max. Switching Power | 560 W | | |
| Max. Switching Current | 40 A | | |
| Minimum Load | 0.1A @ 12 VDC | | |

(1)With current load applied for a maximum of .5 seconds at a maximum duty cycle of 10%.

## CHARACTERISTICS

| | |
|---|---|
| Insulation Resistance | 100 MΩ Min at 500VDC |
| Dielectric Strength | 500 V, 50 Hz Between Contacts<br>500 V, 50 Hz Between Contact and Coil |
| Shock Resistance | Functional: 100 m/s², 11ms<br>Survival: 1,000 m/s², 11ms |
| Vibration Resistance | 10 Hz - 55 Hz Double Amplitude 1.5 mm |
| Terminal Strength | Push & Pull 100N |
| Power Consumption | 1.5 W, 1.8 W |

* Sealed with 12 or 24 VDC, 1.5 and 1.8 Watt Coil Versions.

## Cross References

| |
|---|
| **Song Chuan:** 871 Series |
| Example: 871-1C-C-R1-U01-12VDC Crosses to PC784-1C-12S-R-X |

## CONTACT RATINGS 28 VDC at 25°C

| Contact Form | 1 Form A | 1 Form C | |
|---|---|---|---|
| | | Normally Open | Normally Closed |
| Max. Inrush Current | Make 45 A(1) | Make 45 A(1) | Make 12 A(1) |
| | Break 12.5 A | Break 12.5 A | Break 8 A |
| Contact Rating (Resistive) | 20 A | 15 A | 8 A |
| Max. Switching Voltage | 28 VDC | | |
| Max. Switching Power | 560 W | | |
| Max. Switching Current | 20 A | | |
| Minimum Load | 0.1A @ 12 VDC | | |

## CONTACT DATA

| | | |
|---|---|---|
| Material | | $AgSnO_2$ |
| Initial Contact Resistance | | 50 mΩ Max |
| Service Life | Electrical | 1 x $10^5$ Operations |
| | Mechanical | 1 x $10^6$ Operations |

## CHARACTERISTICS Continued

| | |
|---|---|
| Solderability | 260°C for 5 Seconds |
| Operating Temperature Range | - 40 to 125°C |
| Storage Temperature Range | - 40 to 155°C |
| Relative Humidity | 35% ~ 85% (@ 40°C) |
| Weight | 18g |

## ORDERING INFORMATION

| Example: | PC784 | -1C | | -12 | S | | -R | -X |
|---|---|---|---|---|---|---|---|---|
| Model: | **PC784** | | | | | | | |
| Contact Form: | **1A, 1C** | | | | | | | |
| Mounting Version: | **Nil**: Plug-In | | | | | | | |
| Coil Voltage: | **12** (1.5W Coil), **24** (1.8W Coil) | | | | | | | |
| Enclosure: | **C:** Dust Cover, **S**: Sealed Case, **S1**: Flux Tight | | | | | | | |
| Coil Power: | **Nil**: (1.5W if 12V, 1.8W if 24V) | | | | | | | |
| Parallel Component: | **Nil:** None; **D:** Diode, R: Resistor | | | | | | | |
| RoHS Compliant: | **-X** | | | | | | | |

See SC782 for Available Sockets

Box Quantity: 1,000; Inner Box: 500

3220 Commander Drive, Suite 102 Carrollton, TX 75006
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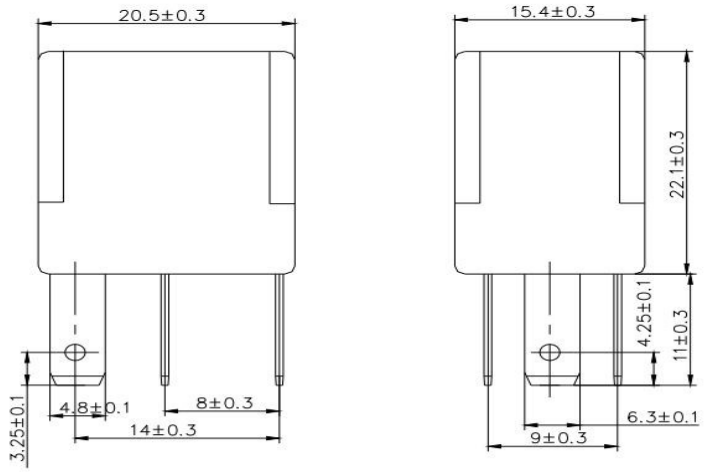
www.PickerComponents.com
e-mail: sales@pickercomponents.com

Dimensions are listed for reference purposes only.
Specifications and Availability subject to change without notice.

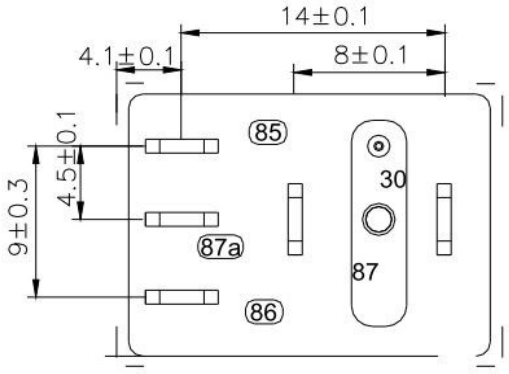
## COIL DATA

| Coil Voltage (VDC) | | Coil Resistance (Ohms ± 10%) | | Resistor Values (Ohms ± 10%) | Must Operate Voltage Max (VDC) | Must Release Voltage Min. (VDC) | Coil Power Consumption (W) | Operate Time (ms) | Release Time (ms) |
|---|---|---|---|---|---|---|---|---|---|
| Rated | Max | Without Resistor Suppression | With Resistor Suppression | | | | | | |
| 12 | 16 | 96 | 84 | 680 | 7.2 | 1.2 | 1.5 | <10 | <10 |
| 24 | 32 | 320 | 286 | 2,700 | 14.4 | 2.4 | 1.8 | <10 | <10 |

## Dimensions、Wiring diagram、Mounting(mm)

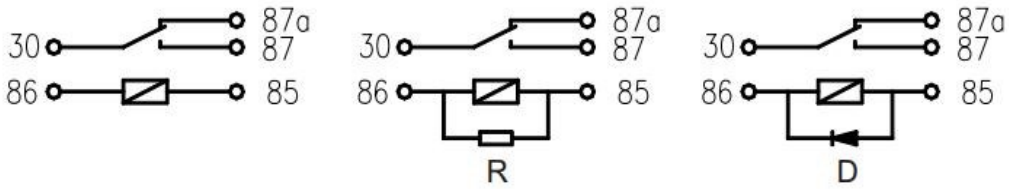



Dimensions




NOTE：A Form:Without 87a

Mounting (Bottom view)




standard with resistor; with diode;

Wiring diagram (Bottom view)