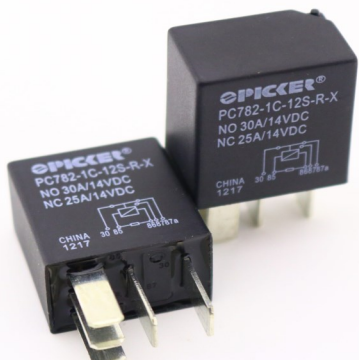


# 40 Amp Micro ISO Automotive Plug In / PCB Relay

**PC784**



## FEATURES

- 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

## Cross References

Song Chuan: 871

Example: 871-1C-C-R1-U01-12VDC Crosses to PC784-1C-12S-R-X

## 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 <sup>(1)</sup>	Make 90 A <sup>(1)</sup>	Make 25 A <sup>(1)</sup>
	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		

<sup>(1)</sup>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 500 V, 50 Hz Between Contact and Coil
Shock Resistance	Functional: 100 m/s <sup>2</sup> , 11ms Survival: 1,000 m/s <sup>2</sup> , 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

## 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 <sup>(1)</sup>	Make 45 A <sup>(1)</sup>	Make 12 A <sup>(1)</sup>
	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 <sub>2</sub>	
Initial Contact Resistance	50 mΩ Max	
Service Life	Electrical	1 x 10 <sup>5</sup> Operations
	Mechanical	1 x 10 <sup>6</sup> 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:	<b>PC784</b>					
Contact Form:	<b>1A, 1C</b>					
Mounting Version:	<b>Nil: Plug-In</b>					
Coil Voltage:	<b>12 (1.5W Coil), 24 (1.8W Coil)</b>					
Enclosure:	<b>C: Dust Cover, S: Sealed Case, S1: Flux Tight</b>					
Coil Power:	<b>Nil: (1.5W if 12V, 1.8W if 24V)</b>					
Parallel Component:	<b>Nil: None; D: Diode, R: Resistor</b>					
RoHS Compliant:	<b>-X</b>					

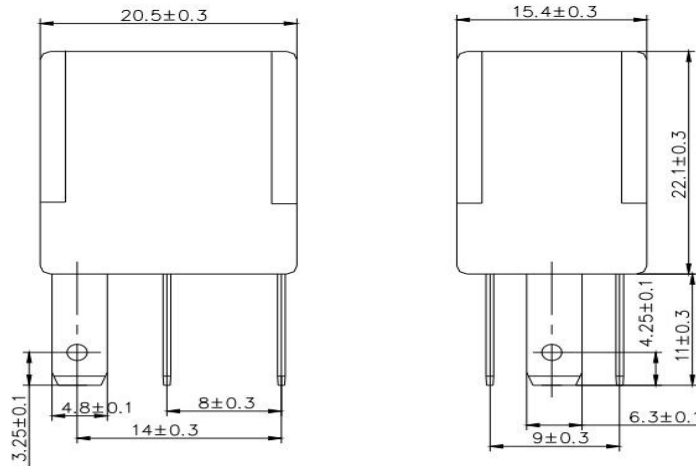
See SC782 for Available Sockets

Box Quantity: 1,000; Inner Box: 500

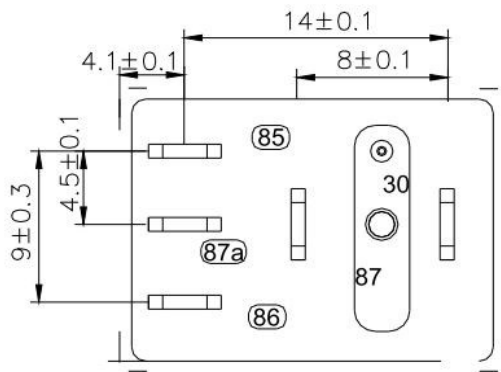
**COIL DATA**

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)**

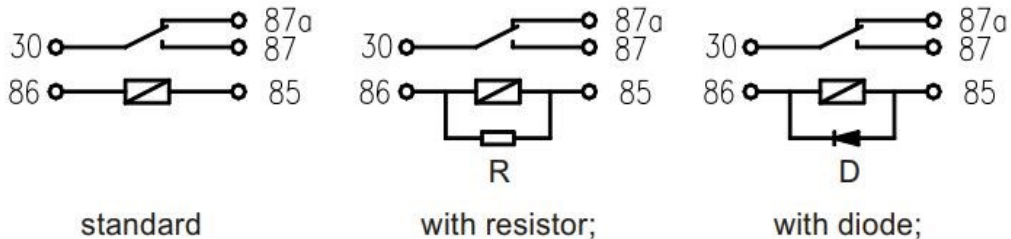


Dimensions



Mounting (Bottom view)

NOTE: A Form :Without 87a



Wiring diagram (Bottom view)