

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
	500 V, 50 Hz Between Contact and Coil
Shock Resistance	Functional: 100 m/s ² , 11ms
	Survival: 1,000 m/s ² , 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
Solderability	260°C for 5 Seconds
Operating Temperature	- 40 to 125°C

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

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⁽²⁾					
Coil Power:	Nil: (1.5W if 12V, 1.8W if 24V)					
Parallel Component:	Nil: None; D: Diode, R: Resistor					
RoHS Compliant:	-X					

⁽²⁾ Flux Tight relays are constructed such that Flux will not enter the relay in an automated process, they are NOT suitable for water wash cleaning

Box Quantity: 1,000; Inner Box: 500

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

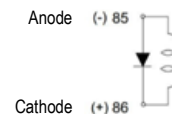
Material	AgSnO ₂	
Initial Contact Resistance	50 mΩ Max	
Service Life	Electrical	1 x 10 ⁵ Operations
	Mechanical	1 x 10 ⁶ Operations

CHARACTERISTICS Continued

Storage Temperature Range	- 40 to 155°C
Relative Humidity	35% ~ 85% (@ 40°C)
Weight	18g

See SC782 for Available Sockets

Orientation of Optional Diode

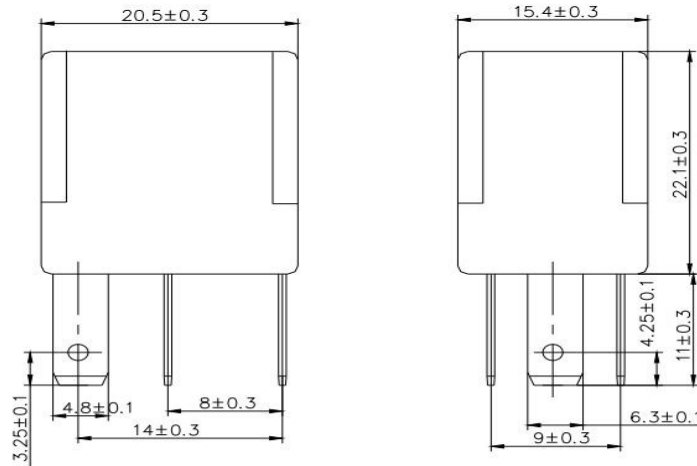


*Contact Picker if you require the opposite polarity or a dual diode

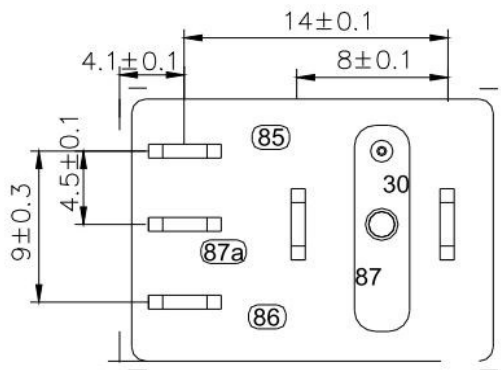
COIL DATA

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)

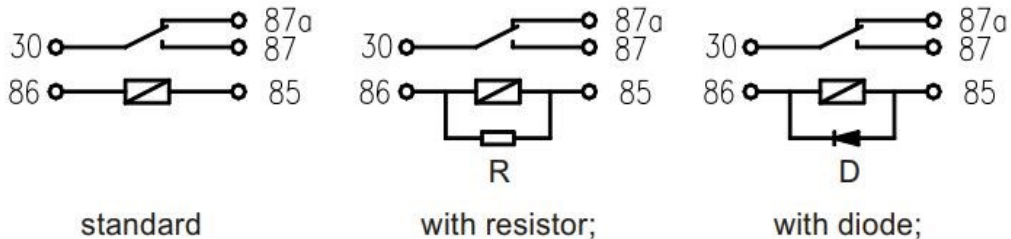


Dimensions



Mounting (Bottom view)

NOTE: A Form: Without 87a



Wiring diagram (Bottom view)