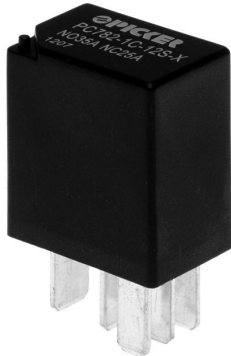


30 Amp Micro ISO Automotive Plug In / PCB

PC782



FEATURES

- Micro size plug-in design
- 1 A and 1 C contact forms available
- Contact switching capacity up to 90 Amps
- 30 Amps continuous carrying capacity
- Up to 125 degrees C operating temperature
- PC Board version available
- **Compatible with Socket SC782**
- Internal Diode or Resistor available

CONTACT RATINGS 14 VDC at 25°C

Contact Form	1 Form A, 1 Form AA or 1 Form C	
	Normally Open	Normally Closed
Max Switching Current	Make 120 A ⁽¹⁾	Make 90 A ⁽¹⁾
	Break 40 A	Break 30 A
Max Continuous Current	40 A @ 25°C	30 A @ 25°C
	30 A @ 85°C	22.5 A @ 85°C
Max Continuous Current 1 Form U and 1 Form AA	2 X 20 Amps (at 85°C)	
Max Switching Voltage	75 VDC	
Max. Switching Power	630 W	
Minimum Load	0.1A @ 12 VDC	

CHARACTERISTICS

Operate Time	7 msec Typical
Release Time	2 msec Typical
Insulation Resistance	100 MΩ Min at 500VDC, 50% RH
Dielectric Strength	500 Hz 500 V Between Contacts
Shock Resistance	147 m/s ² 11ms
Vibration Resistance	10 Hz—40 Hz Double Amplitude 1.5 mm
Terminal Strength	8N 4N (PC type)
Power Consumption	1.6 W, 1.9 W, 2.3 W, 2.6 W

CONTACT RATINGS 28 VDC at 25°C

Contact Form	1 Form A, 1 Form AA or 1 Form C	
	Normally Open	Normally Closed
Max Switching Current	Make 60 A ⁽¹⁾	Make 45 A ⁽¹⁾
	Break 20 A	Break 15 A
Max Continuous Current	20 A @ 25°C	15 A @ 20°C
	15 A @ 85°C	11.25 @ 20°C
Max Continuous Current 1 Form U and 1 Form AA	2 X 15 Amps (at 85°C)	
Max Switching Voltage	75 VDC	
Max Switching Power	630 W	
Minimum Load	0.1A @ 24 VDC	

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

Solderability	235°C ± 2°C 3 s ± 0.5 s
Operating Temperature Range	- 40 to 125°C
Storage Temperature Range	- 40 to 155°C
Weight	31 grams

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

ORDERING INFORMATION

Example:	PC782	-1C	-P	-12	S	-R	-X
Model:	PC782						
Contact Form:	1A, or , 1C						
Mounting Version:	Nil: Plug-In; P: PCB						
Coil Voltage:	6, 12, 24, 48						
Enclosure:	C: Dust Cover, S: Sealed Case						
Parallel Component:	Nil: None; D: Diode, R: Resistor						
RoHS Compliant:	-X						

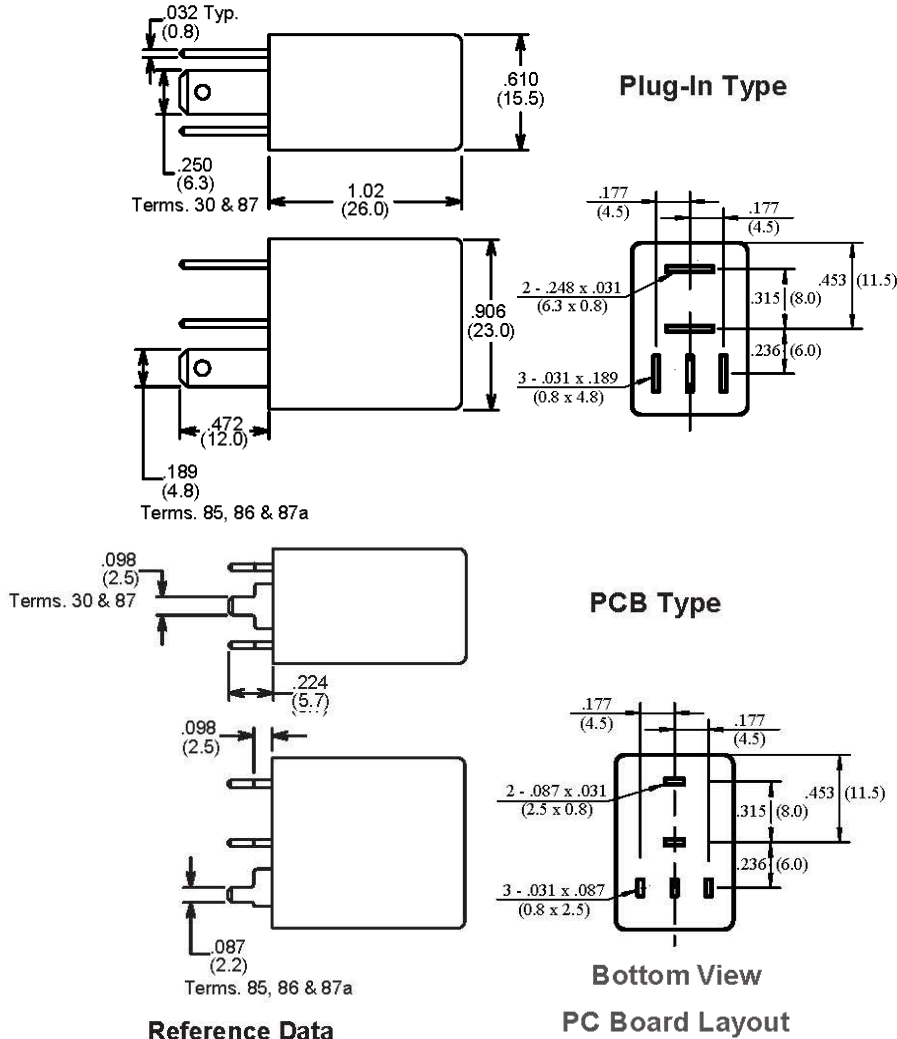
Box Quantity: 1,000; Inner Box: 500

See SC782 for Available Sockets

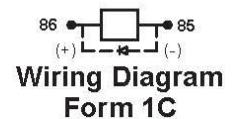
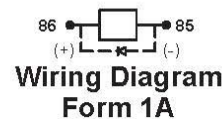
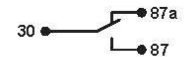
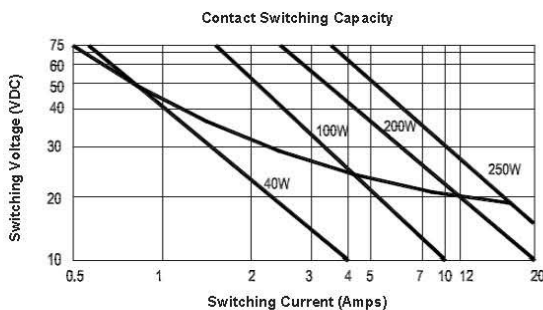
COIL DATA

Coil Voltage	Resistance (ohms ± 10%) / Coil Power (Watts)		Nominal Operate Voltage Max.	Allowable Voltage Max.		Nominal Release Voltage Min. A, C, U, W
	1 Form A	1 Form C		1 Form A	1 Form C	
6	30 / 1.2W	24 / 1.5W	4.2	7.8	7.8	0.6
12	120 / 1.2W	96 / 1.5W	8.4	15.6	15.6	1.2
24	480 / 1.2W	384 / 1.5W	16.8	31.2	31.2	2.4
48	1920 / 1.2W	1536 / 1.5W	33.6	62.4	62.4	4.8

Dimensions in Inches (millimeters)



Reference Data



Notes:

On Contact Forms A Unused Pins are Omitted



Dimensions are listed for reference purposes only.

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