

30 Amp Micro ISO Automotive Plug In / PCB

PC782



FEATURES

- Micro Size Plug-in Design
- 1A (SPST-NO) and 1C (SPDT) Contact Forms Available
- Contact Switching Capacity up to 90 Amps
- 125°C Operating Temperature
- PC Board Version Available
- See SC782 for Available Sockets
- Internal Diodes or Resistors Available
- RoHS Compliant
- Fully Automated Assembly

CONTACT RATINGS 14 VDC at 25°C

Contact Form	1 Form A (SPST-NO)	1 Form C (SPDT)	
	Normally Open	Normally Open	Normally Closed
Max Switching Current	Make 105 A ⁽¹⁾	60 A ⁽¹⁾	90 A ⁽¹⁾
	Break 35 A	Break 20 A	Break 30 A
Max Continuous Current	35 A @ 25°C	20 A @ 25°C	30 A @ 25°C
	25 A @ 85°C	10 A @ 85°C	20 A @ 85°C
Max Switching Voltage	75 VDC		
Max. Switching Power	490 W		

CONTACT RATINGS 28 VDC at 25°C

Contact Form	1 Form A (SPST-NO)	1 Form C (SPDT)	
	Normally Open	Normally Open	Normally Closed
Max Switching Current	Make 52 A ⁽¹⁾	30 A ⁽¹⁾	45 A ⁽¹⁾
	Break 17.5 A	Break 30 A	Break 30 A
Max Continuous Current	17.5 A @ 25°C	10 A @ 25°C	15 A @ 25°C
	12.5 A @ 85°C	5 A @ 85°C	10 A @ 85°C
Max Switching Voltage	75 VDC		
Max. Switching Power	490 W		

CHARACTERISTICS

Operate Time	7 msec max.
Release Time	2 msec max
Insulation Resistance	100 MΩ Min at 500VDC
Dielectric Strength	500 V 50 Hz Between Contacts
	1,000 V 50 Hz Between Contact and Coils
Shock Resistance	100 m/s ² 11ms
Vibration Resistance	10 Hz—40 Hz Double Amplitude 2.7 mm
Terminal Strength	8N 4N (PC type)
Power Consumption	1.2 W (1A), 1.5 W (1C)

CONTACT DATA

Material	AgSnO ₂	
Initial Contact Resistance	50 MΩ Max	
Service Life	Electrical	1 x 10 ⁵ Operations
	Mechanical	1 x 10 ⁷ Operations

CHARACTERISTICS Continued

Solderability	255°C ± 2°C 3 s ± 0.5 s
Operating Temperature Range	- 40 to 125°C
Storage Temperature Range	- 40 to 155°C
Weight	18.5 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: 1 Form A (SPST-NO)						
	1C: 1 Form C (SPDT)						
Mounting Version:	Nil: Plug-In; P: PCB						
Coil Voltage:	6: 6 VDC; 12: 12 VDC; 24: 24 VDC; 48: 48 VDC						
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

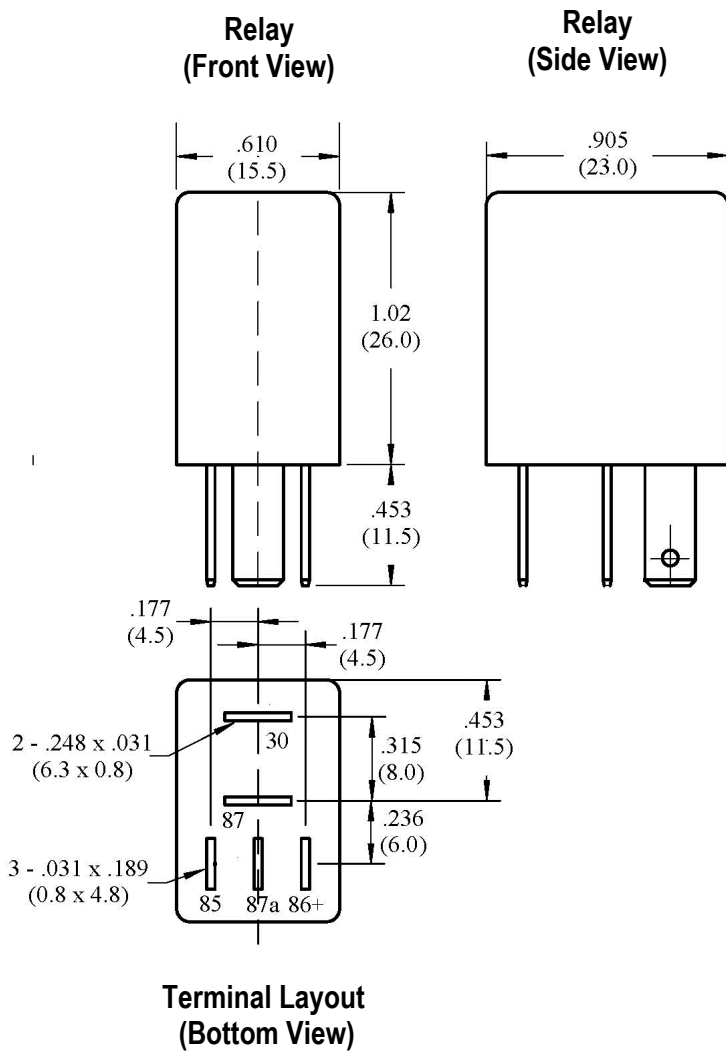
Coil Voltage (VDC)(2)		Coil Resistance (Ohms ± 10%)		Must Operate Voltage Max (VDC)(3)	Must Release Voltage Min. (VDC)(3)
Rated	Max	1.2 W	1.5 W		
6	7.8	30	24	4.2	0.6
12	15.6	120	96	8.4	1.2
24	31.2	480	384	16.8	2.4
48	62.4	1920	1536	33.6	4.8

NOTES:

(2)The use of any coil voltage less that the rated voltage will compromise the operation of the relays.

(3)Must Operate Voltage and Must Release Voltages are for test purposes only and are not to be used as design criteria.

DIMENSIONS (mm/inches)



Wiring Diagrams



3220 Commander Drive, Suite 102 Carrollton, TX 75006
 Sales: (972) 713-6272 (888) 997-3933 Fax: (972)735-0964

www.PickerComponents.com

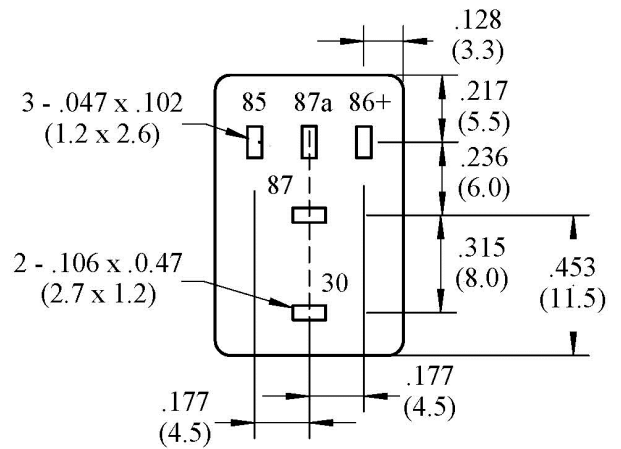
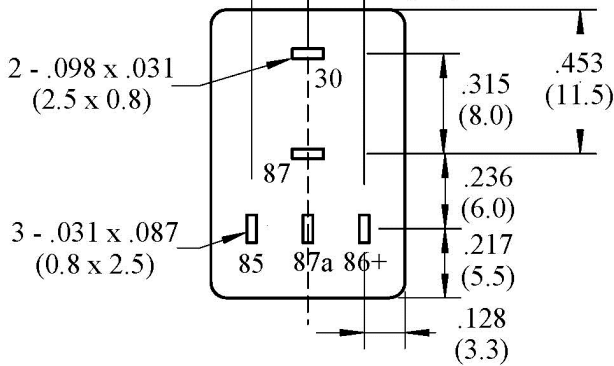
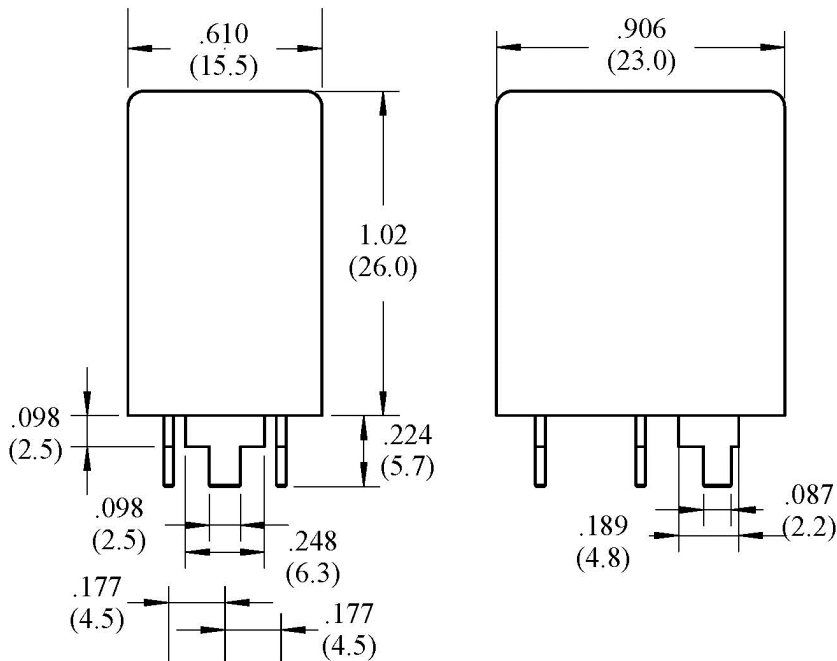
e-mail: sales@pickercomponents.com

Dimensions are listed for reference purposes only.

Specifications and Availability subject to change without notice.

**Relay
(Front View)**

**Relay
(Side View)**

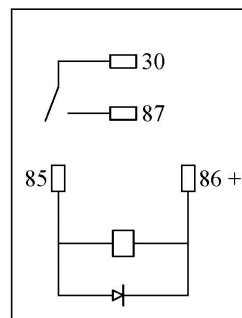
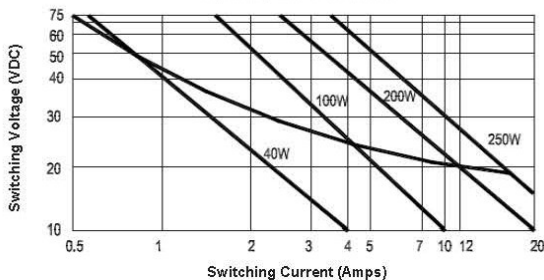


**Terminal Layout
(Bottom View)**

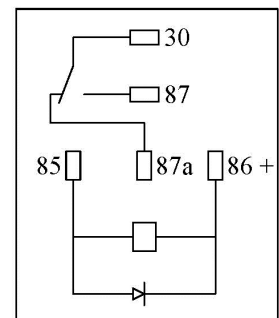
**PC Board Layout
(Top View)**

Reference Data

Contact Switching Capacity



1A (SPST-NO)



1C (SPDT)

Wiring



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