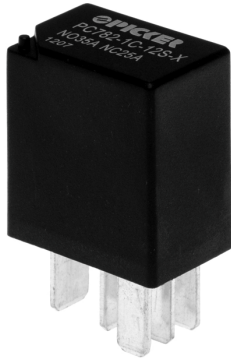


# 35 Amp Micro ISO Automotive Plug In / PCB Relay

PC783



## FEATURES

- Micro Size Plug-In Design
- 1A and 1C Contact Forms Available
- Contact Switching Capacity up to 105 Amps
- 35 Amps Continuous Carrying Current
- 125°C Operating Temperature
- PC Board Version Available
- Internal Diodes or Resistors Available
- Compatible with Socket SC782

## CONTACT RATINGS 14 VDC at 25°C

Contact Form	1 Form A or 1 Form C	
	Normally Open	Normally Closed
Max Switching Current	Make 105 A <sup>(1)</sup>	Make 75 A <sup>(1)</sup>
	Break 35 A	Break 25 A
Max Continuous Current	35 A	25 A
Max Switching Voltage	75 VDC	
Max. Switching Power	490 W	
Minimum Load	0.1A @ 12 VDC	

## CONTACT RATINGS 28 VDC at 25°C

Contact Form	1 Form A or 1 Form C	
	Normally Open	Normally Closed
Max Switching Current	Make 52.5 A <sup>(1)</sup>	Make 37.5 A <sup>(1)</sup>
	Break 17.5 A	Break 12.5 A
Max Continuous Current	17.5 A	12.5 A
Max Switching Voltage	75 VDC	
Max Switching Power	490 W	
Minimum Load	0.1A @ 24 VDC	

## CHARACTERISTICS

Operating Time	10 msec Max
Release Time	7 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 Coil
Shock Resistance	100 m/s <sup>2</sup> 11ms
Vibration Resistance	10 Hz—40 Hz Double Amplitude 1.27 mm
Terminal Strength	8N 4N (PC type)
Power Consumption	1.2 W, 1.5 W

## 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>7</sup> Operations

## CHARACTERISTICS Continued

Solderability	260°C for 5 seconds
Operating Temperature Range	- 40°C to 125°C
Storage Temperature Range	- 40°C to 155°C
Weight	18.5 g

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

## ORDERING INFORMATION

Example:	PC783	-1C	-P	-12	S	-R	-X
Model:	PC783						
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						
Coil Power:	Nil: 1.2 W; 1.5: 1.5 W*						
Parallel Component:	Nil: None; D: Diode, R: Resistor						
RoHS Compliant:	-X						

\*1.5 W is Industry Standard

Box Quantity: 1,000; Inner Box: 500

**EPICKER** 14680 James Road, Rogers, MN 55374 USA  
Sales: (763) 535-2339

Dimensions are listed for reference purposes only.

PC782 Rev I 06/15/2018

See SC782 for Available Sockets

www.PickerComponents.com

e-mail: sales@pickercomponents.com

Specifications and Availability subject to change without notice.

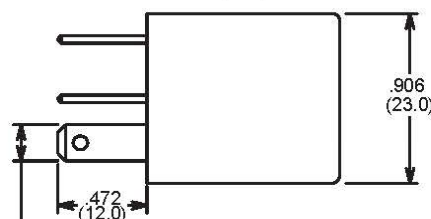
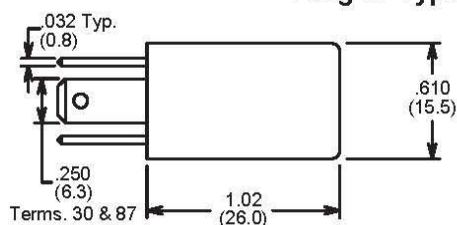
## COIL DATA

Coil Voltage (VDC)		Coil Resistance Ohms $\pm 10\%$		Must Operate Voltage Max (VDC)	Must Release Voltage Min. (VDC)
Rated	Max	1.2 W	1.5 W*		
6	7.8	30	24	4.2	0.6
12	15.6	120.0	96	8.4	1.2
24	31.2	480.0	384	16.8	2.4
48	62.4	1920.0	1536	33.6	4.8

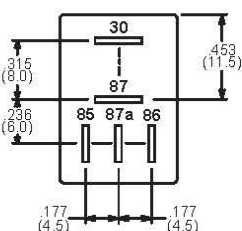
\*1.5 W is Industry Standard

## Dimensions in Inches (millimeters)

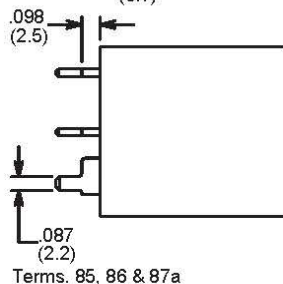
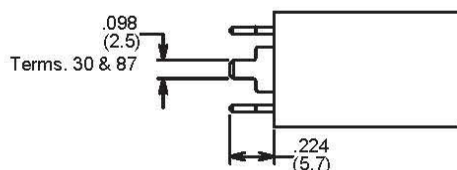
## Plug-In Type



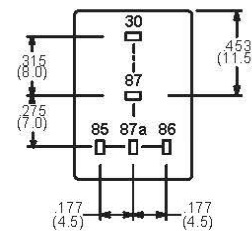
Terms. 85, 86 & 87a



## PCB Type



Terms. 85, 86 & 87a

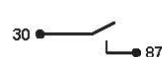
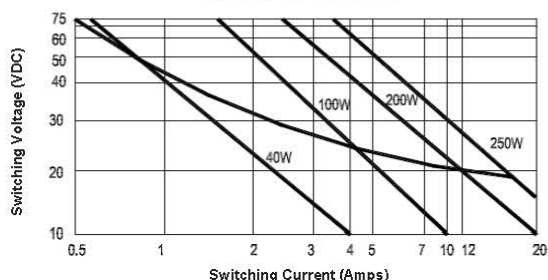


## Bottom View

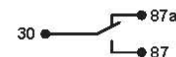
## PC Board Layout

## Reference Data

Contact Switching Capacity



Wiring Diagram  
Form 1A



Wiring Diagram  
Form 1C

Maximum make current refers to inrush of a lamp load  
Make current of 120 Amps permissible with AgSnOInO contacts  
In 85 degree C ambient reduce maximum coil voltage to 72%

**PICKER**  
COMPONENTS

3220 Commander Drive, Suite 102, Carrollton, Texas 75006

Sales: (888) 997-3933, (972) 713-6272 Fax: (972) 735-0964 email: sales@pickercomponents.com www.pickercomponents.com