35 Amp ISO 280 Automotive Plug-In Relay — PC785

FEATURES

- ISO 280 Footprint
- 1A and 1C Contact Forms Available
- Contact Switching Capacity up to 105 Amps
- 35 Amps Continuous Carrying Current
- 125^{0}C Operating Temperature
- Internal Diodes or Resistors Available
- RoHS Compliant

CONTACT RATINGS 14 VDC

Contact Form	1 Form A (SPST) or 1 Form C (SPDT)	
	Normally Open	Normally Closed
Max Switching Current	Make 105 A	Make 75 A
	Break 35 A	Break 25 A
Max Switching Voltage	75 VDC	
Max Continuous Current Standard	35 A	25 A
Max Switching Power	490 Watts	
Minimum Load	0.1 A at 12 VDC	

CONTACT RATINGS 28 VDC

Contact Form	1 Form A (SPST) or 1 Form C (SPDT)	
	Normally Open	Normally Closed
Max Switching Current	Make 62.5 A	Make 37.5 A
	Break 17.5 A	Break 12.5 A
Max Switching Voltage	75 VDC	
Max Continuous Current Standard	17.5 A	12.5 A
Max Switching Power	490 Watts	
Minimum Load	0.1 A at 12 VDC	

CHARACTERISTICS

Operate Time	5 msec or less (without coil suppression)
Release Time	2 msec or less (without coil suppression)
Insulation Resistance	100 MΩ min at 500VDC, 50% RH (Item 7 of IEC255-5)
Dielectric Strength	500 Vrms, 1 min. between coil and contacts 500 Vrms, 1 min. between contacts (Item 6 of IEC 255-5)
Shock Resistance	200 m/s^2 11 ms (IEC-2-27 Test Ea,)
Vibration Resistance	DA (double amplitude) 127 mm, 10-40 Hz;40-70 Hz: 5 g DA (double amplitude) 0.5 mm, 70-100 Hz; 100-500 Hz: 10 g
Drop Resistance	1 Meter Height Drop on Concrete In Final Enclosure

CONTACT DATA

Material		AgSnOInO (Silver Tin Indium Oxide)
Initial Contact Resistance		100 mΩ max at 1 A, 6 VDC
Service Life	Electrical	1 x 10^5 Operations
	Mechanical	1 x 10^7 Operations

CHARACTERISTICS CONTINUED

Terminal Strength	10N
Ambient Temperature Range	-40 to 125°C Operating
Relative Humidity	85% (at 25°C)
Weight	21 grams

ORDERING INFORMATION

Example:	PC785	-1C	-12	C	-R	-X

Model: **PC785**

Contact Form: **1A, 1C**

Coil Voltage: **6, 12, 24**

Enclosure: **C**: Dust Cover, **S**: Sealed

Parallel Component: **Nil**: None; **D**: Diode; **R**: Resistor;

RoHS Compliant: **-X**

Box Quantity: 500; Inner Box: 250

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.

COIL DATA

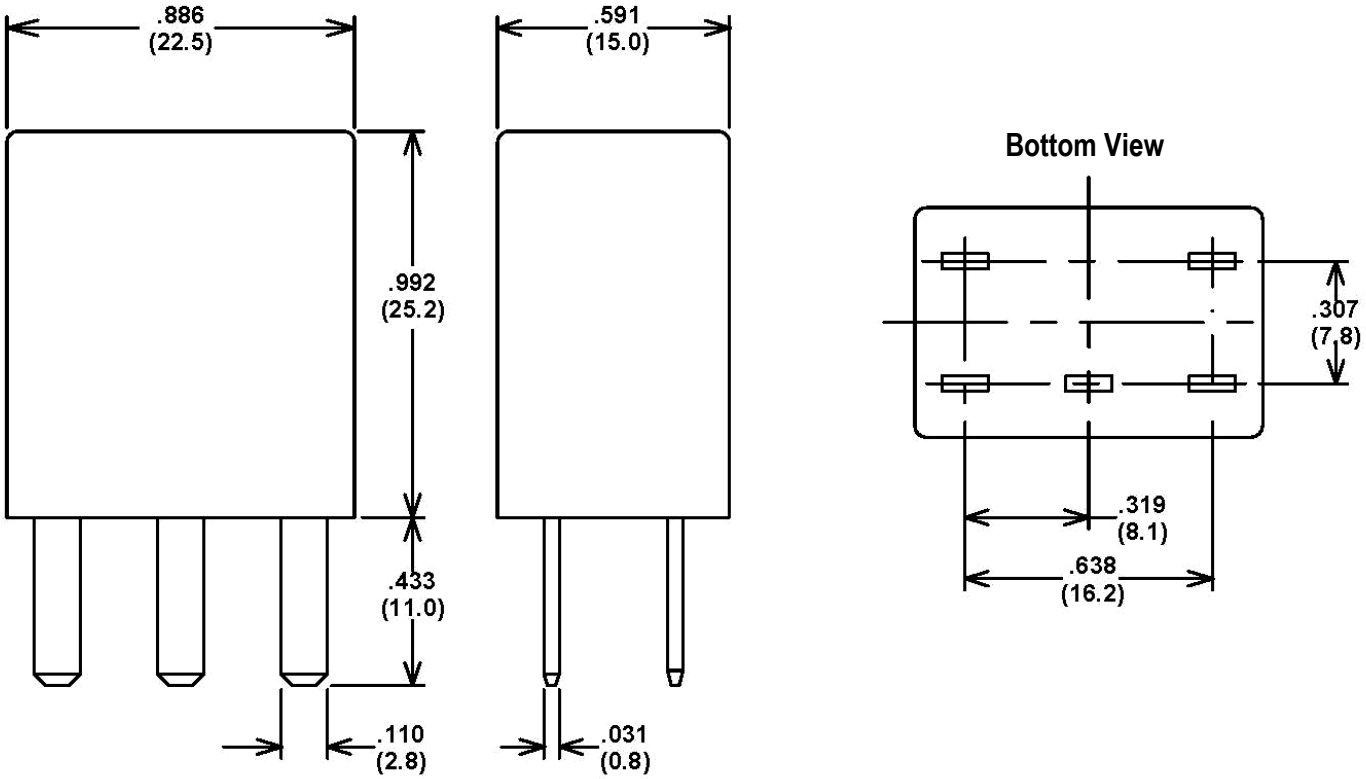
Coil Voltage (VDC)		Resistance (Ohms ± 10%)	Must Operate Voltage Max (VDC)	Must Release Voltage Min. (VDC)	Coil Power (W)
Rated	Max				
6	7.8	27	3.6	0.6	1.3 W
12	15.6	109	7.2	1.2	1.3 W
24	31.2	436	14.4	2.4	1.3 W

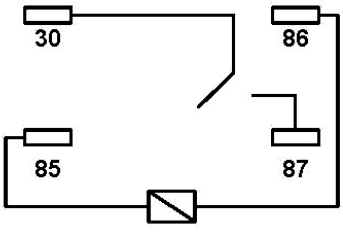
NOTES:

The use of any coil voltage less than the rated voltage will compromise the operation of the relays. Must Operate Voltage is listed for test purposes only and is not to be used as design criteria. Pickup and release voltages are for test purposes only and are not to be used as design criteria.
Dimensions are in mm, Inches are listed for reference only.

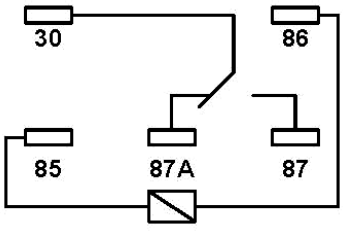
DIMENSIONS (mm / inches)

In compliance with SAE J1744





Form 1A
(Bottom View)



Form 1C
(Bottom View)

PICKER COMPONENTS
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