35 Amp ISO 280 Automotive Plug-In Relay- Ignition Protected PC785

FEATURES

- Ignition Protected* | SAE J1171 | UL 1500 | ISO 8846
- ISO 280 Footprint
- 1A and 1C Contact Forms Available
- Contact Switching Capacity up to 105 Amps
- 35 Amps Continuous Carrying Current
- 125˚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	

CROSS REFERENCES

Omron:	G8V Series
Examples:	G8V-1A7T-R-DC12 Crosses to PC785-1A-12C-R-X G8V-RH-1A7T-R-DC12 Crosses to PC785-1A-12C-R-X G8V-1C7T-R-DC12 Crosses to PC785-1C-12C-R-X G8V-RH-1C7T-R-DC12 Crosses to PC785-1C-12C-R-X
Song Chuan: 301 Series	
Examples:	301-1A-S-R1-12VDC Crosses to PC785-1A-12C-R-X 301-1C-S-R1-12VDC Crosses to PC785-1C-12C-R-X

NOTES: The G8V is a 20/10 Amp relay. The PC785 is a 35/25 Amp Relay

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

* Sealed with 12 or 24 VDC, 1.3 Watt Coil Versions

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	

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

ORDERING INFORMATION

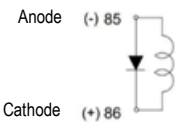
Example:		PC785	-1C	-12	C	-R	-X
Model:	**PC785**						
Contact Form:	**1A, 1C**						
Coil Voltage:	**12, 24**						
Enclosure:	**C**: Dust Cover, **S**: Sealed, **S1**: Flux Tight(1)						
Parallel Component:	**Nil**: None, **D**: Diode, **R**: Resistor						
RoHS Compliant:	**-X**						

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

Box Quantity: 500; Inner Box: 250

Coil Options
Resistor Values (1/4 Watt):
12V - 680 ohm
24V - 2,700 ohm
Diode: 1N4005

Orientation of Optional Diode



*Contact Picker if You Require the Opposite Polarity or a Dual Diode

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

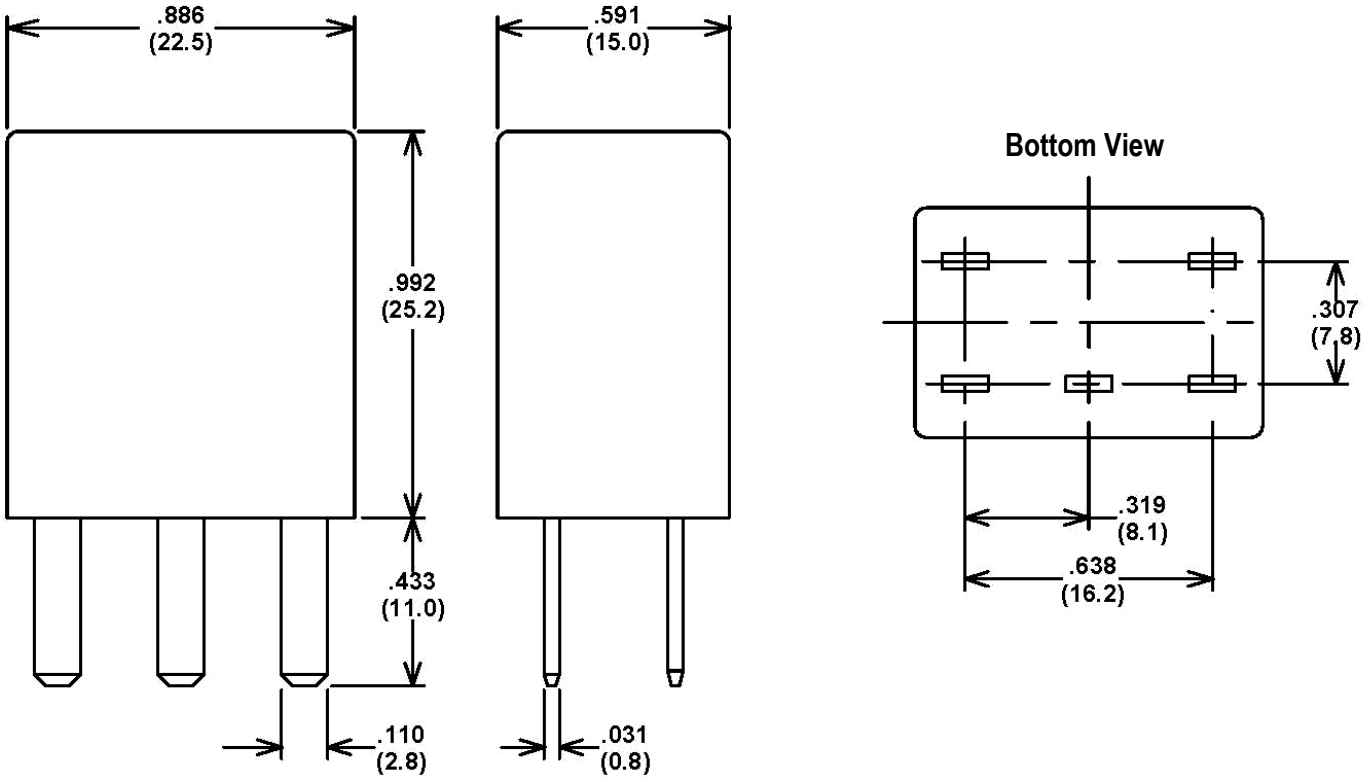
Coil Voltage (VDC)		Resistance (Ohms ± 10%)	Must Operate Voltage Max (VDC)	Must Release Voltage Min. (VDC)	Coil Power (W)
Rated	Max				
12	15.6	109	7.2	1.2	1.3 W
24	31.2	436	14.4	2.4	1.3 W

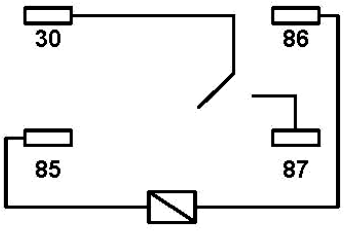
NOTES:

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.

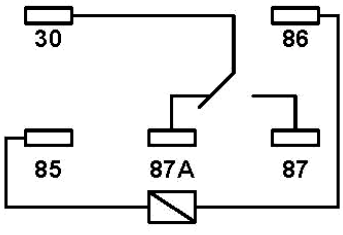
DIMENSIONS (mm / inches)

In compliance with SAE J1744





Form 1A
(Bottom View)



Form 1C
(Bottom View)