Automotive Plug-In ISO 280 Relay

PC785

FEATURES

- ISO 280 Footprint
- 1A & 1C Contact Forms
- -40ºC to 125ºC Operating Temperature
- Internal Diode or Resistor Option

RoHS COMPLIANT

CONTACT RATINGS

Contact Form		1A SPST N.O. 1C SPDT
Contact Rating	1A	35A @ 14 VDC, resistive 15A @ 28VDC, resistive
	1C	NO 35A @ 14VDC, resistive NC 25A @ 14VDC, resistive NO 15A @ 28VDC, resistive NC 10A @ 28VDC, resistive

CONTACT DATA

Maximum Switching Power		490 W
Maximum Switching Voltage		75 VDC
Maximum Continuous Current		35 A
Material		$AgSnO_2$
Initial Contact Resistance		50 mΩ max.
Service Life	Mechanical	1 x 10^7 operations
	Electrical	1 x 10^5 operations

CHARACTERISTICS

Insulation Resistance	100 MΩ min. at 500 VDC
Dielectric Strength	500 Vrms, 50 Hz, between contacts 500 Vrms, 50 Hz, between coil & contacts
Power Consumption	1.3 W
Terminal Strength	10N
Solderability	260°C 5 s ± 0.5 s
Operating Temperature	-40ºC to 125ºC
Storage Temperature	-40ºC to 155ºC
Shock Resistance	200 m/s^2 11 ms
Vibration Resistance	10-40Hz; 1.27mm double amplitude
Weight	21.0g

Values can change due to the switching frequency, desired reliability levels, environmental conditions, and in-rush current levels. It is recommended to test to actual load conditions for the applicaiton. It is the users responsibility to determine the performance suitability for their specific application. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.

ORDERING INFORMATION

Example	PC785	-1C		-12	S	-R	-X
Model:	PC785						
Contact Form:	1A 1C						
Mounting Version:	Nil = Plug-In						
Coil Voltage:	12 = 12VDC 24 = 24VDC						
Enclosure:	C = Dust Cover S = Sealed S1 = Flux Tight (1)						
Parallel Component	Nil = None D = Diode (1N4005) D1 = Reverse Diode (1N4005) R = Resistor (680 Ohms for 12VDC, 2700 for 24VDC)						
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.

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Dimensions are shown for reference purposes only.
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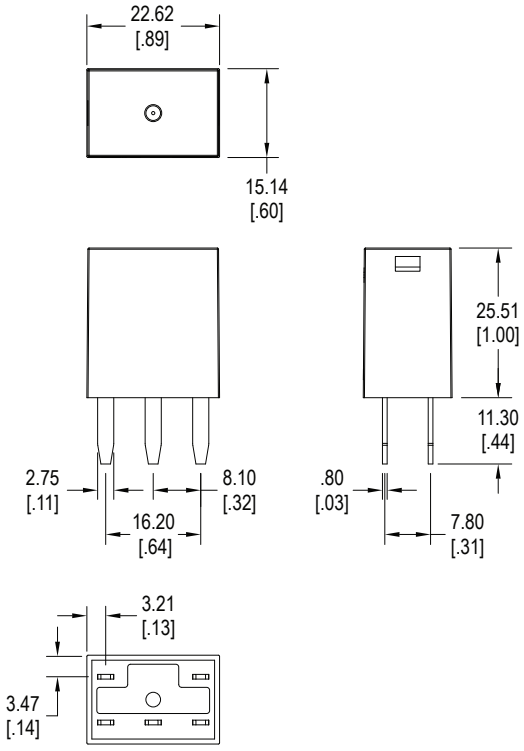
Specifications and availability subject to change without notice.

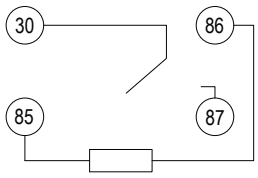
COIL DATA

Coil Voltage		Resistance (Ohms ± 10%)	Pick Up Voltage Max. VDC	Release Voltage Min. VDC	Coil Power W	Operate Time ms	Release Time ms
Rated	Maximum						
12	15.6	109	7.20	1.20	1.5	10	10
24	31.2	436	14.40	2.40	1.8		

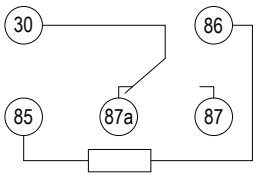
DIMENSIONS *mm (inches)*



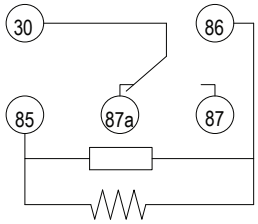
SCHEMATICS *Bottom Views*



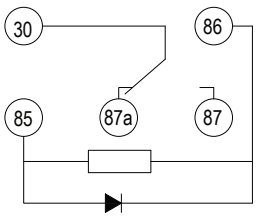
1A



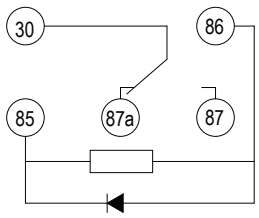
1C



1C with Resistor



1C with Diode



1C with Reverse Diode

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