

Automotive Plug-In ISO 280 Relay

PC785



FEATURES

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



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

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	-40°C to 125°C
Storage Temperature	-40°C to 155°C
Shock Resistance	200 m/s ² 11 ms
Vibration Resistance	10-40Hz; 1.27mm double amplitude
Weight	21.0g

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

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 application. 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

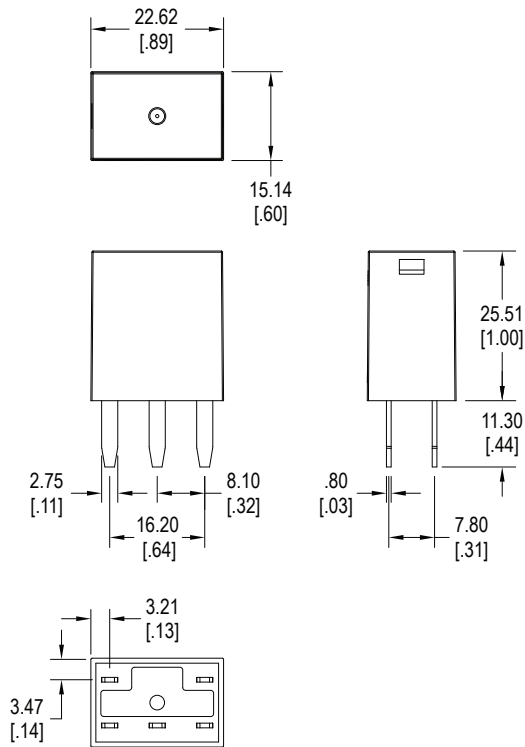
Example	PC785	-1C	-12	S	-R	-X
Model:	PC785					
Contact Form:	1A 1C					
Mounting Version:	Nil = Plug-In					
Coil Voltage:	12 = 12VDC 24 = 24VDC					
Enclosure:	C = Dust Cover S = Sealed S1 = Flux Tight ⁽¹⁾					
Parallel Component	Nil = None D = Diode (1N4005) D1 = Reverse Diode (1N4005) R = Resistor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

COIL DATA

Coil Voltage		Resistance (Ohms $\pm 10\%$)	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	1.3	10	10
24	31.2	436	14.40	2.40	1.3		

DIMENSIONS mm (inches)



SCHEMATICS Bottom Views

