

35 Amp Automotive Plug-In Power Relay

PC785



FEATURES

- ISO 280 footprint
- 1 A & 1C contact forms available
- Contact switching capacity 40 Amps
- 35 Amps continuous carrying capacity
- Up to 125 degrees C operating temperature
- Internal diodes or resistors available
- Lead Free & RoHS Compliant

CONTACT RATINGS @ 14 VDC

Contact Form	1 Form A or 1 Form C	
	Normally Open	Normally Closed
Max Switching Current	40 Amps	30 Amps
Max. Continuous Current	35 Amps	25 Amps

CONTACT RATINGS @ 27 VDC

Max Switching Current	20 Amps	17.5 Amps
Max. Continuous Current	20 Amps	17.5 Amps

CONTACT DATA

Material	AgSnInO (Silver Tin Indium Oxide)	
Initial Contact Resistance	100 milliohms max @ 0.1A, 6VDC	
Service Life	Mechanical	1 X 10 ⁷ Operations
	Electrical	1 X 10 ⁵ Operations
Max Switching Power	560 Watts	
Contact Resistance or Voltage Drop	100 mOhms less than 100mV (Item 3.12 IEC255-7)	
Max. Switching Voltage	75 VDC	
Minimum Load	0.1 A @ 12 VDC	

CHARACTERISTICS

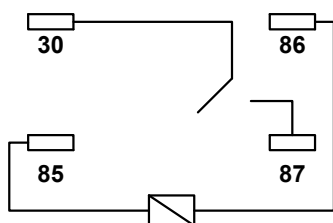
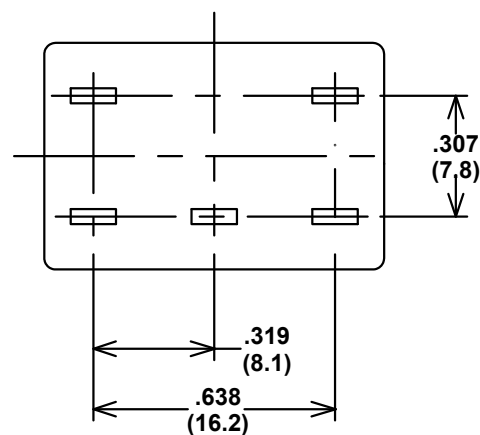
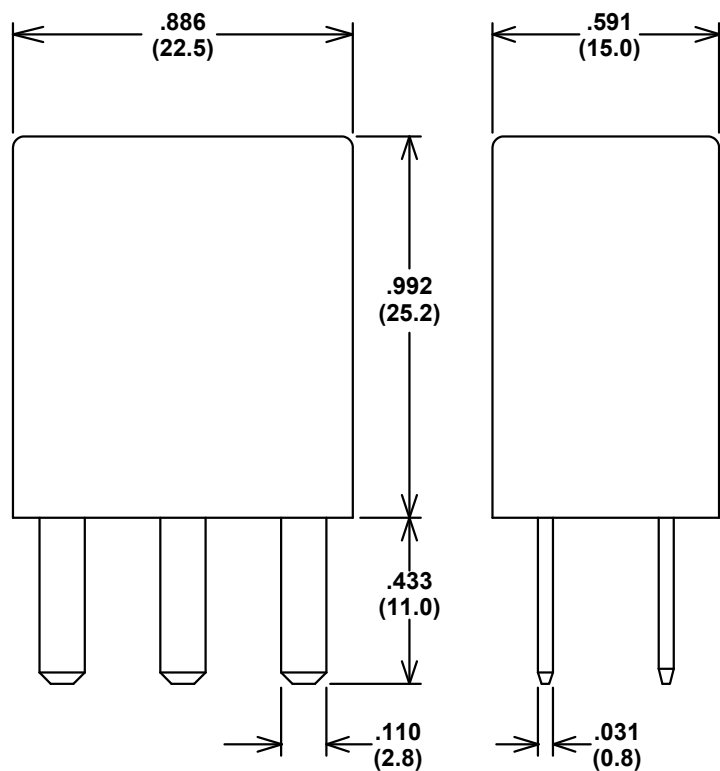
Operate Time	5 ms. or less (without coil suppression)
Release Time	2 ms. or less (without coil suppression)
Insulation Resistance	100 megohms min, at 500VDC, 50%RH (Item 7 of IEC255-5)
Dielectric Strength	500 Vrms, 1 min. between coil and contacts (Item 6 of IEC255-5)
Shock Resistance	200m/ss 11ms (IEC-2-27 Test Ea)
Vibration Resistance	DA 1.27 mm, 10 - 40 Hz; 40-70 Hz: 5 g; DA 0.5mm, 70-100 Hz; 100-500 Hz: 10 g.
Drop Resistance	1 Meter height drop on concrete in final enclosure
Power Consumption	1.3W approx.
Ambient Temperature Range	-40 to 125 degrees C operating
Weight	21 grams approx.

ORDERING INFORMATION

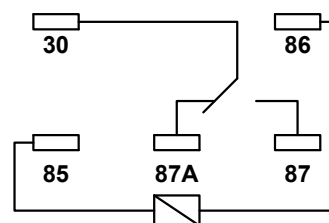
Example:	PC785	-1C	-12	C	-R	-X
Model						
Contact Form						
1A or 1C						
Coil Voltage						
Enclosure: C: Dust Cover, S: Sealed (Avail 2008)						
Parallel Component						
Nil: None; D: Diode; R: Resistor						
RoHS Compliant: -X: RoHS Compliant						

COIL DATA

Coil Voltage	Resistance ohms $\pm 10\%$	Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)	Continuous Voltage Max. (VDC)	Coil Power (Watts)
6	27	3.6	0.6	8.0	1.3
12	109	7.2	1.2	16.0	1.3
24	436	14.4	2.4	32.0	1.3



Form 1A



Form 1C

Wiring Diagrams

Notes:
 Contact Forms 1A & 1C shown
 On Contact Form A Pin 87a is Omitted
 Tolerances $\pm .010$ unless otherwise noted

PICKER
 COMPONENTS

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