



25/20 Amp Automotive Plug-In Micro ISO Relay - Ignition Protected

PC780



FEATURES

- Ignition Protected* | SAE 1171 | UL 1500 | ISO 8846
- 25/20 Amps at 14 VDC Rating
- 75 Amps Switching Current
- Miniature Package - 22.6 mm x 15.2 mm x 16.2 mm
- Reduced Footprint
- Micro ISO Terminals
- 105°C Operating Temperature
- RoHS Compliant

CROSS REFERENCES

Omron G8H
Omron G8HL-1A4T-R Crosses to PC780-1A-12S-R-X
Omron G8HL-1A4P Crosses to PC780-1A-12S-X
Panasonic CV (ACV)
Panasonic ACV31212 Crosses to PC780-1A-12S-R-X
Panasonic ACV31012 Crosses to PC780-1A-12S-X
Song Chuan 108
Song Chuan 108-1AH-V-R1-12V Crosses to PC780-1A-12S-R-X
Manufacturers OEM Parts Cross
Honda Part Number 39794-SDA-A03 Crosses to PC780-1A-12S-R-X
Honda Part Number 39794-SDA-A05 Crosses to PC780-1A-12S-R-X

CONTACT RATINGS 14 VDC

Contact Form	1 Form A
	Normally Open
Max Switching Current	Make 75 A
	Break 25 A
Max Switching Power	350 Watts
Max Switching Voltage	75 VDC
Max Continuous Current	25 A

CHARACTERISTICS

Operate Time	10 ms max
Release Time	10 ms max
Insulation Resistance	20 MΩ min at 500VDC
Dielectric Strength	500 Vrms, 50 Hz. between Contacts
	500 Vrms, 50 Hz. between contact and coil
Shock Resistance	Function: 100 m/s ² 11 ms
	Survival: 1000 m/s ² 11 ms
Vibration Resistance	Function: 10-100 Hz; 44.1 m/s ²
	Survival: 100-500 Hz; 44.1 m/s ²
Power Consumption	800 mW

* Sealed with 12 VDC, 1.07 Watt Coil Versions.

CONTACT DATA

Material	AgSnO ₂	
Initial Contact Resistance	50 mΩ max	
Service Life	Electrical	1 x 10 ⁵ Operations
	Mechanical	1 x 10 ⁷ Operations

CHARACTERISTICS Continued

Terminal Strength	10N
Operating Temperature	-40 to 105°C
Relative Humidity	95%
Weight	15 grams

ORDERING INFORMATION

Example:	PC780	-1A	-12	C	-R	-X	See SC782 for Available Sockets
Model:	PC780						
Contact Form:	1A						
Mounting Version :	Nil: Plug-In						
Coil Voltage:	12						
Enclosure:	C: Dust Cover, S: Sealed S1: Flux Tight⁽¹⁾						
Parallel Component:	Nil: None; 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: 50



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Dimensions are listed for reference purposes only.

Specifications and Availability subject to change without notice

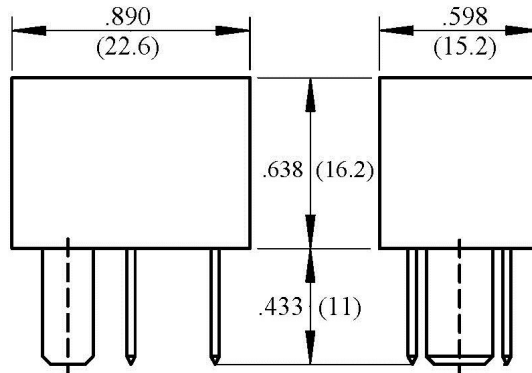
COIL DATA

Coil Voltage (VDC)		Coil Resistance (Ohms ± 10%)		Resistor Values (Ohms ± 10%)	Must Operate Voltage Max (VDC)	Must Release Voltage Min. (VDC)	Coil Power Consumption (mW)	Operate Time (ms)	Release Time (ms)
Rated	Max	Without Resistor Suppression	With Resistor Suppression						
12	16	180	142	680	7.0	0.6	800	<10	<10

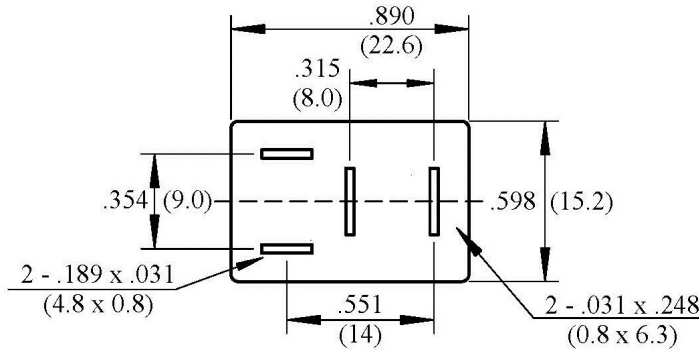
NOTES:

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 Inches/mm

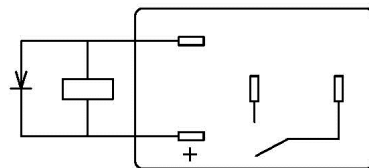


Relay



1A

Terminal Layout



1A

Wiring Diagram