C3 Shrouded Cover will be available by 4th Quarter 2020

70 Amp Automotive Plug-In / PCB Maxi ISO Relay — PC793#

FEATURES

- Popular Automotive Relay
- 1A Contact Form
- Contact Switching Capacity up to 210 Amps
- 70 Amps @ 14VDC Continuous Carrying Current
- Plain Case, Bracket or PCB Options
- Compatible with Socket SC795
- Lead Free and RoHS Compliant

CONTACT RATINGS 14 VDC at 25ºC

Contact Form	1 Form A
	Normally Open
Max Switching Current	Make 210 A
	Break 70 A
Max Continuous Current	70 A @ 25°C 50 A @ 85°C
Max Switching Power	980 W
Max Switching Voltage	120 VDC
Minimum Load	0.5A @ 12VDC

CONTACT RATINGS 28 VDC at 25ºC

Contact Form	1 Form A
	Normally Open
Max Switching Current	Make 90 A
	Break 30 A
Max Continuous Current	30 A @ 25°C 20 A @ 85°C
Max Switching Power	840 W
Max Switching Voltage	120 VDC
Minimum Load	0.5A @ 12VDC

CHARACTERISTICS

Operate Time	10 msec Typical
Release Time	10 msec Typical
Insulation Resistance	100 MΩ min @ 500VDC
Dielectric Strength	50/60 Hz 500V_{RMS} 1 min. Between Contact and Coil
	50/60 Hz 500V_{RMS} 1 min. Between Contacts
Shock Resistance	294 m/s²
Vibration Resistance	10 - 22.3 Hz Double Amplitude, 10mm 22.3 - 500 Hz 98m/s²
Terminal Strength	10 N, 100 N (Push and Pull)
Solderability	260°C for 5 seconds
Power Consumption	1.6 W
Relative Humidity	85% at 40°C

CROSS REFERENCES

TE: F7 & F7A
Example: V23136-J004-X103 crosses to PC793-1A-12C-R-X
Example: V23136-J0053-D642 crosses to PC793-1A-24C-X
Song Chuan: 897
Example: 897-1AH-S-12VDC crosses to PC793-1A-12S-X
Example: 897-1AH-S-R1-001-24VDC crosses to PC793-1A-24S-DR-X
Example: 897P-1AH-C-R1-12VDC crosses to PC793-1A-24S1-R-X

CHARACTERISTICS CONTINUED

Operating Temperature	-40ºC to +125ºC
Storage Temperature	-40ºC to +155ºC
Weight	38 grams

ORDERING INFORMATION

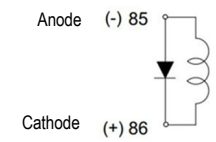
Example: PC793 -1C -C -12 S -D -X

Model:	**PC793**
Contact Form:	**1A**
Case Style:	**C**: Plug-In; **C1**: Plastic Bracket; **C2**: Metal Bracket; **C3**(2): Weatherproof Shrouded Cover w/ Metal Bracket; **P**: PCB
Coil Voltage:	**6, 12, 24**
Enclosure:	**C**: Dust Cover, **S**: Sealed, **S1**: Flux Tight(3)
Coil Power:	**Nil**: 1.6W
Parallel Component:	**Nil**: None; **D**: Diode; **R**: Resistor; **2D**: Two Diodes; **DR**: Diode and Resistor
Terminal Plating	**N**: Tin Plated Terminals Standard on all Plug in Models; **Nil**: PC Pin Version
RoHS Compliant:	**-X**

See SC795 for available sockets

Coil Options
Resistor Values:
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

(2) Weatherproof shrouded cover in development. Projected for 4Q 2020.
(3) 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

Box Quantity: 400; Inner Box: 100

20550 Commerce Blvd, Rogers, MN 55374 USA
Sales: (763) 535-2339
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)		Must Operate Voltage Max (VDC)	Must Release Voltage Min (VDC)	Resistor Values (Ohms ± 10%)	Coil Resistance Without Resistor (Ohms ± 10%)	Coil Resistance With Resistor (Ohms ± 10%)	Rated Current Without Resistor @ 12 VDC (mA)	Rated Current With Resistor @ 12 VDC (mA)
Rated	Max				1.6 W	1.8 W	1.6 W	1.8 W
12	15.6	7.8	1.2	680	90	80	133	150
24	31.2	15.6	2.4	2700	360	320	67	75

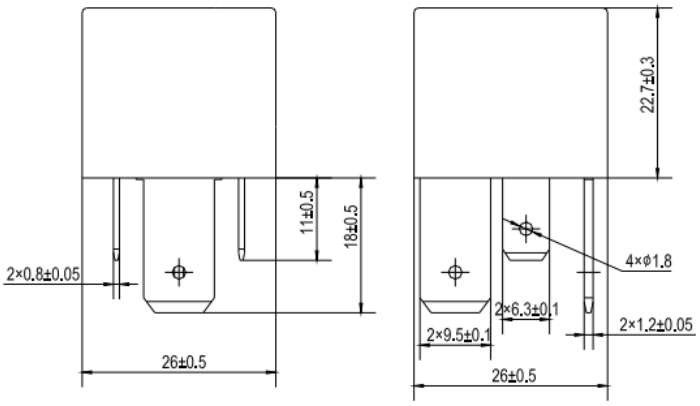
NOTES:

- The use of any coil voltage less than the rated voltage will compromise the operation of the relays.

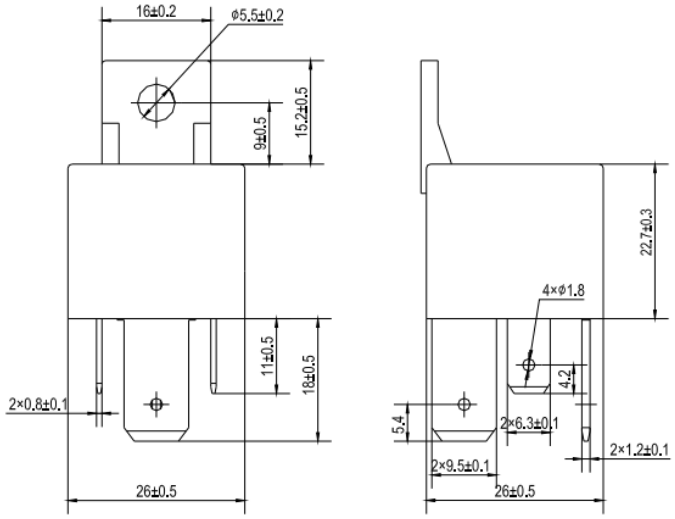
CONTACT DATA

Material		AgSnO Alloy
Initial Contact Resistance		≤ 30mΩ initial
Max Contact Voltage Drop		≤ 50 mV at 10A
Service Life	Electrical	1 x 10^5 Operations
	Mechanical	1 x 10^7 Operations

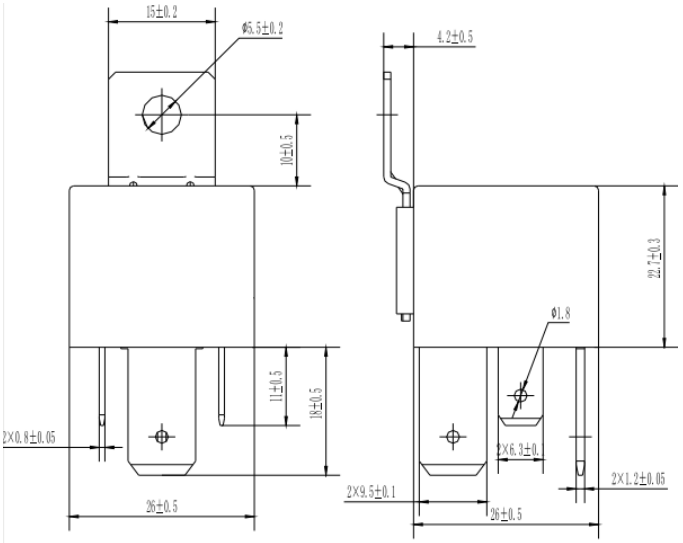
DIMENSIONS (mm / inches)



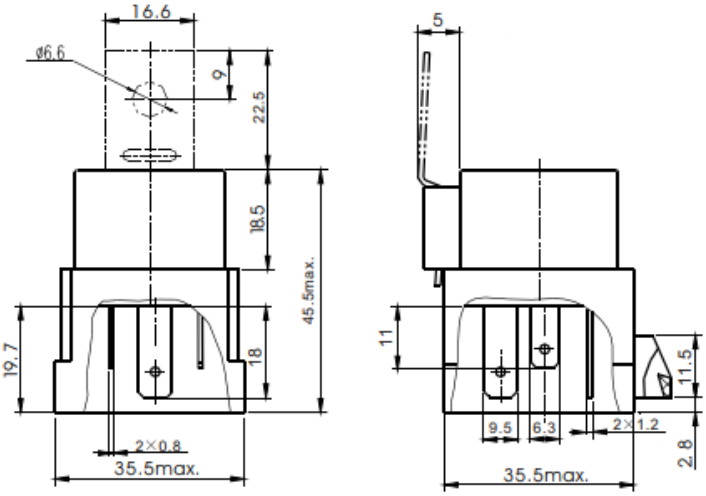
Plug In "C"



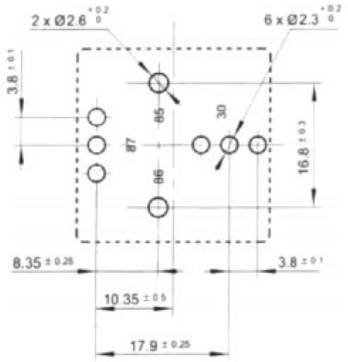
Plastic Bracket "C1"

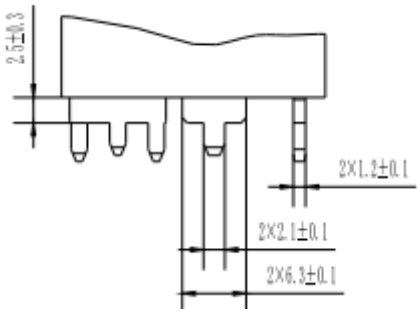


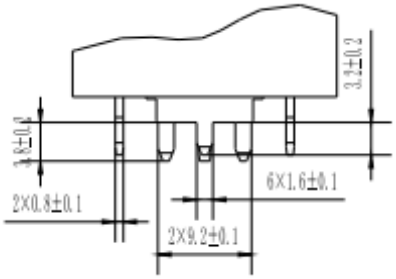
Metal Bracket "C2"



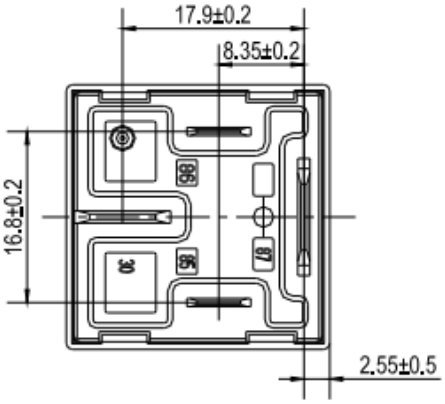
Weatherproof Shrouded Cover w/ Metal Bracket "C3"





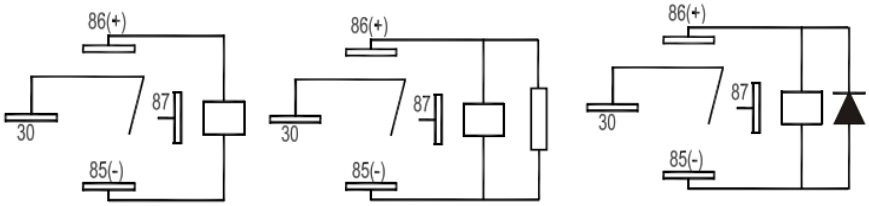


PC Pins "P"



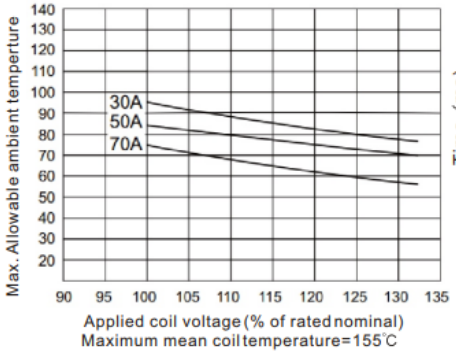
Bottom View

Wiring Diagrams

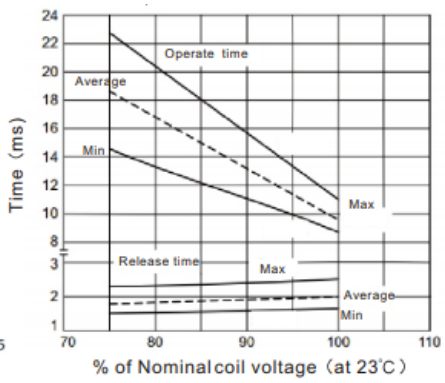


Without Resistor With Resistor With Diode

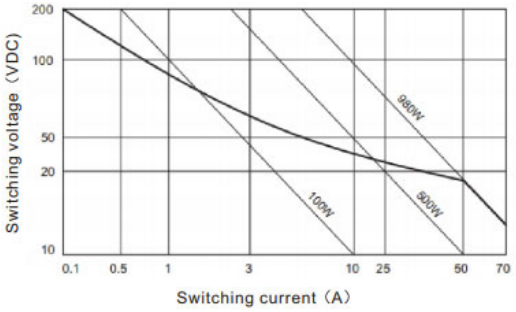
Coil Temperature Rise



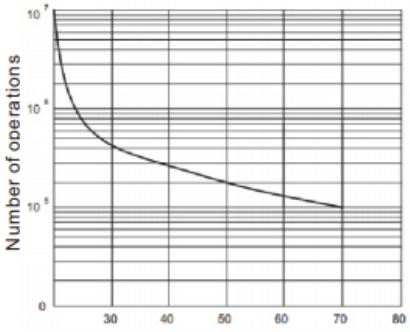
Operate/Release Time

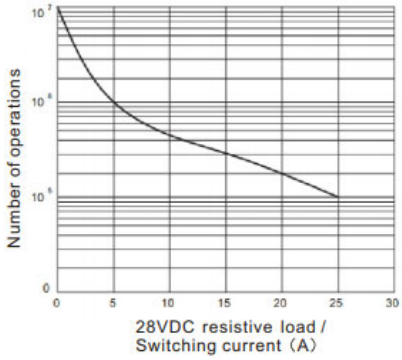


Max Value for Switching Capacity



Life Expectancy





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