

70 Amp Automotive Plug-In / PCB Maxi ISO Relay

PC793



CONTACT RATINGS 14 VDC at 25°C

Contact Form	1 Form A		
Contact Form	Normally Open		
May Switching Current	Make 210 A		
Max Switching Current	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		

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			
Dielectric Strength	50/60 Hz 500V _{RMS} 1 min. Between Contacts			
Shock Resistance	294 m/s²			
Vibration Resistance	10 - 22.3 Hz Double Amplitude, 10mm			
VIDIATION RESISTANCE	22.3 - 500 Hz 98m/s ²			
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			

ORDERING INFORMATION

Example:	PC793	-1C	-C	-12	S
Model:	PC793				
Contact Form:	1A				
Case Style:	C: Plug-In; C1: Plastic Bracket; C2: Metal Bracket;		_		
	C3 ⁽²⁾ : Weatherproof Shrouded Cover w/ Metal Brac	ket; 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: Nickel Plated Terminals Standard on all Plug in	Models	; Nil: F	PC Pir	NVe
RoHS Compliant:	-X				

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

Sales: (763) 535-2339

Dimensions are listed for reference purposes only.

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 28 VDC at 25°C

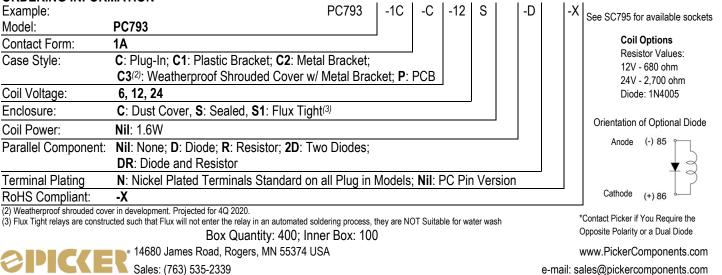
1 Form A		
Normally Open		
Make 90 A		
Break 30 A		
30 A @ 25°C		
20 A @ 85°C		
840 W		
120 VDC		
0.5A @ 12VDC		

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	-40°C to +125°C
Storage Temperature	-40°C to +155°C
Weight	38 grams



Specifications and Availability subject to change without notice.

PC793 COIL DATA

Coil Voltage (VDC)		Must Operate Voltage Max (VDC)	Must Release Resistor Values Voltage Min (Ohms ± 10%)		Coil Resistance Without Resistor (Ohms ± 10%)		Rated Current Without Resistor @ 12 VDC (mA)	Rated Current With Resistor @ 12 VDC (mA)
Rated	Max		(VDC)		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

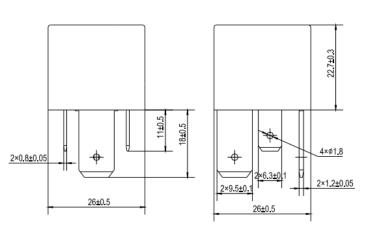
NOTES:

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

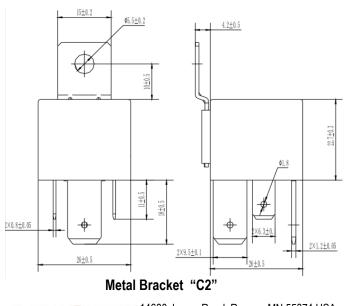
CONTACT DATA

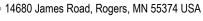
Material		AgSnO Alloy		
Initial Contact Resista	ance	≤ 30mΩ initial		
Max Contact Voltage Drop		≤ 50 mV at 10A		
Service Life	Electrical	1 x 10 ⁵ Operations		
	Mechanical	1 x 10 ⁷ Operations		

DIMENSIONS (mm / inches)



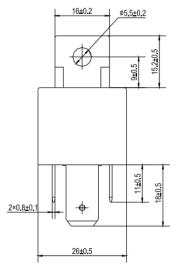


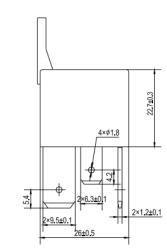




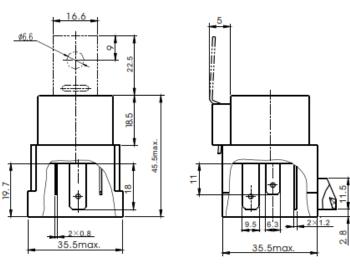
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Plastic Bracket "C1"

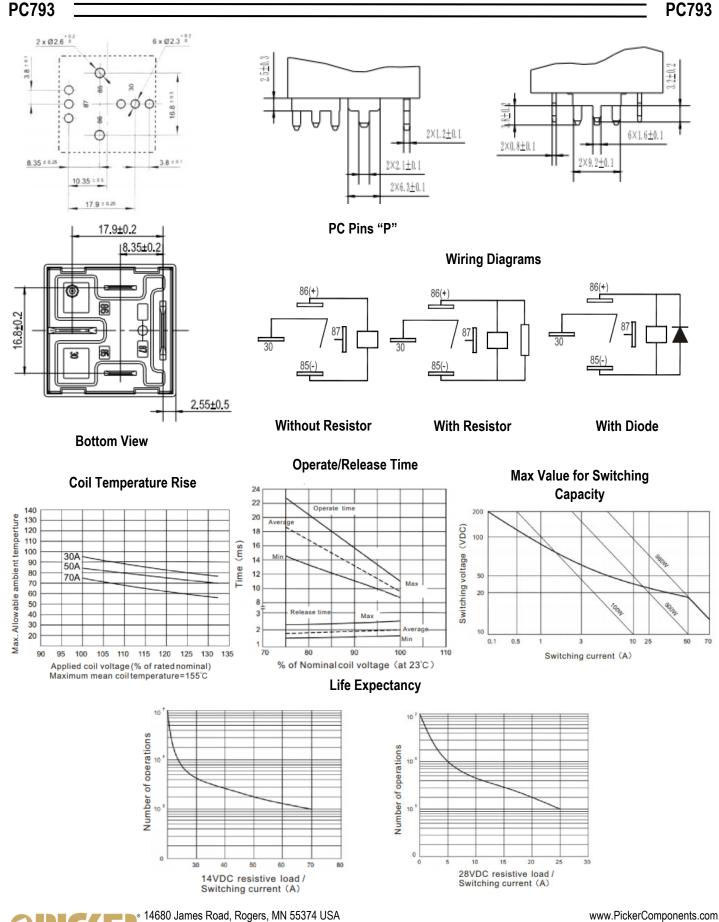


Weatherproof Shrouded Cover w/ Metal Bracket "C3"

www.PickerComponents.com e-mail: sales@pickercomponents.com Specifications and Availability subject to change without notice.

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Sales: (763) 535-2339

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PC793 Rev A 8/8/2019

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