FEATURES
• 80 Amps @ 14VDC Continuous Carry
• PC Terminal or Quick Connect Mounting
• Compatible with Socket SC795
• Suitable for Automotive Accessories
• Contact Material, Coil Power & Contact Gap Optimized
• 2.3W Coil Power

RoHS COMPLIANT

CONTACT RATINGS

Contact Form		1C SPDT
Contact Rating	1C	NO 80A @ 14VDC, resistive
		NC 60A @ 14VDC, resistive
		NO 40A @ 24VDC, resistive
		NC 30A @ 24VDC, 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	2.3W
Terminal Strength	8N quick connect, 4N PCB pins
Solderability	260°C 5 s ± 0.5 s
Operating Temperature	-40ºC to 125ºC
Storage Temperature	-40ºC to 155ºC
Shock Resistance	147 m/s^2 11 ms
Vibration Resistance	10-40Hz; 1.5mm double amplitude
Weight	47.0g

CONTACT DATA

Maximum Switching Power	1,120 W
Maximum Switching Voltage	75 VDC
Maximum Continuous Current	80 A
Material	$AgSnO_2$
Initial Contact Resistance	30 mΩ max.
Service Life Mechanical	1×10^7 operations
Electrical	1×10^5 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 applicaiton. 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.

20550 Commerce Blvd, Rogers, MN 55374 USA
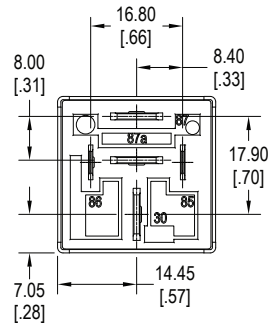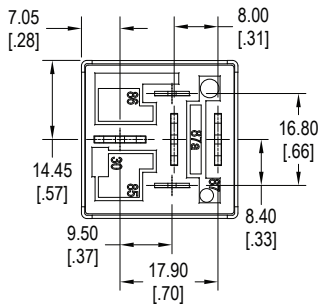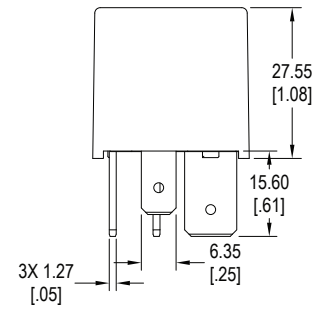Sales (763) 535-2339

www.PickerComponents.com
email: sales@PickerComponents.com

Dimensions are shown for reference purposes only.
PC796 Rev S 11/2022

1 of 5

Specifications and availability subject to change without notice.

ORDERING INFORMATION

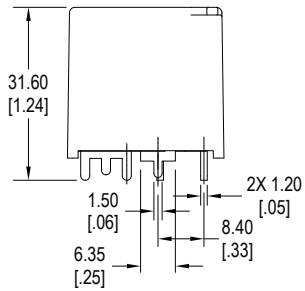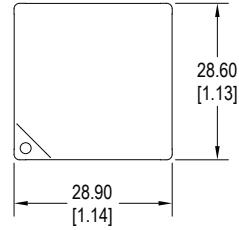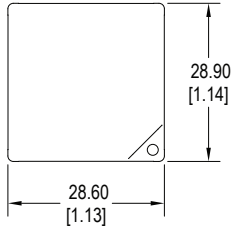| Example	PC796	-1C	-C	-12		-S	-R	-N	-X

Model: PC796

Contact Form: 1C

Mounting Version:
C = Plug-In
C1 = Plug-In with Plastic Bracket
C2 = Plug-In with Metal Bracket
P = PC Pins
P1 = PC Pins with Plastic Bracket
P2 = PC Pins with Metal Bracket

Coil Voltage:
6 = 6VDC
12 = 12VDC
24 = 24VDC

Contact Material:
Nil = $AgSnO_2$
H = $AgSnO_2$ (HV=125)

Enclosure:
C = Dust Cover
S = Sealed
S1 = Flux Tight [1]

Parallel Component:
Nil = None
D = Diode
D1 = Reverse Diode
R = Resistor

Terminal Plating:
Nil = PC Pin
N = Tin Plated Terminals, standard on all Plug-In models

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 ± 10%)	Pick Up Voltage Max. VDC	Release Voltage Min. VDC	Coil Power W	Operate Time ms	Release Time ms
Rated	Maximum						
6	7.8	15.6	3.90	0.60			
12	15.6	62.6	7.80	1.20	2.3	≤7	≤2
24	31.2	250.4	15.60	2.40			

Dimensions are shown for reference purposes only.
PC796 Rev S 11/2022

Specifications and availability subject to change without notice.

DIMENSIONS *mm (inches)*

28.90
[1.14]

28.60
[1.13]

28.60
[1.13]

28.90
[1.14]

31.60
[1.24]

2X 1.20
[.05]

1.50
[.06]

8.40
[.33]

6.35
[.25]

27.55
[1.08]

1.65 TYP
[.06]

9.25
[.36]

2X .80
[.03]

2X 11.60
[.46]

Ø1.80 TYP
[Ø0.07]

3X 9.53
[.38]

2X .80
[.03]

27.55
[1.08]

15.60
[.61]

3X 1.27
[.05]

6.35
[.25]

7.05
[.28]

8.00
[.31]

16.80
[.66]

14.45
[.57]

9.50
[.37]

8.40
[.33]

17.90
[.70]

86
87a
30
85
87

16.80
[.66]

8.00
[.31]

8.40
[.33]

17.90
[.70]

87
87a
86
85
30

7.05
[.28]

14.45
[.57]

Standard with PC Pins (P)

Standard with Quick Connect (C)

Dimensions are shown for reference purposes only.
PC796 Rev S 11/2022

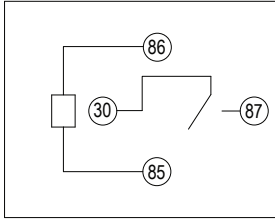*Specifications and availability subject to change without notice.*

DIMENSIONS *mm (inches)*
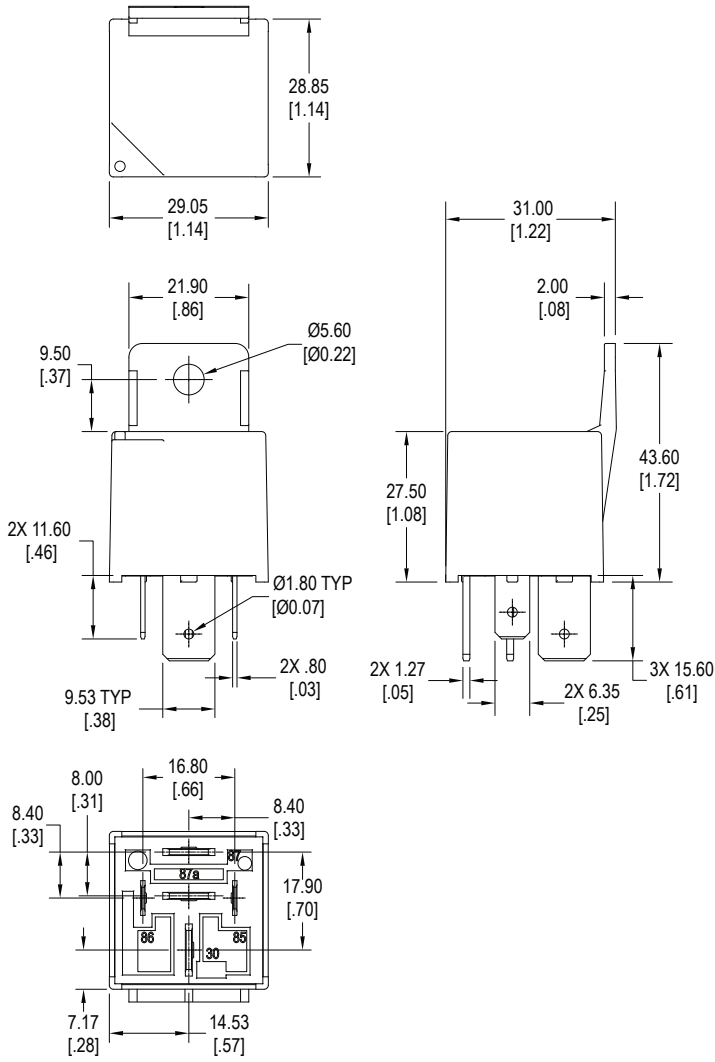
Quick Connect with Plastic Bracket (C1)
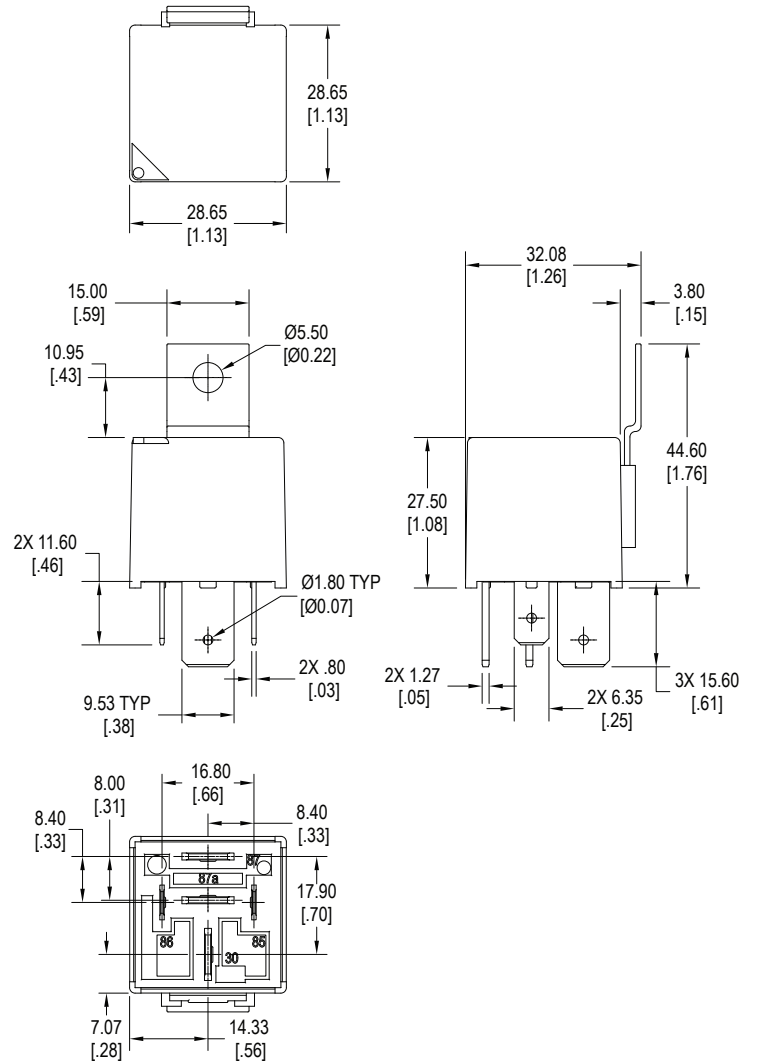
Quick Connect with Metal Bracket (C2)

Dimensions are shown for reference purposes only.
PC796 Rev S 11/2022

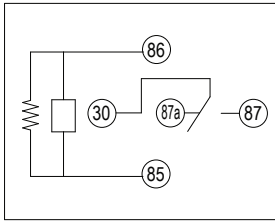*Specifications and availability subject to change without notice.*
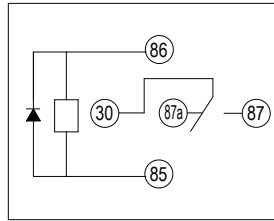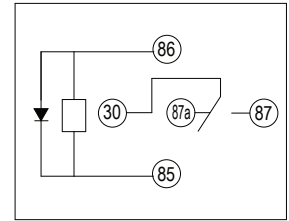
SCHEMATICS *Bottom Views*

1A
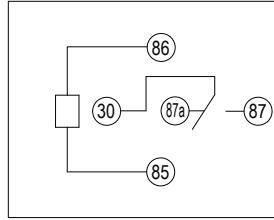
1C

1C with Resistor

1C with Diode

1C with Reverse Diode

PC LAYOUT

Dimensions are shown for reference purposes only.
PC796 Rev S 11/2022

Specifications and availability subject to change without notice.