

80/60 Amp Automotive Plug-In / PCB Power Relay

PC795



FEATURES

- Most popular automotive relay
- 1 A and 1 C contact forms available
- Contact switching capacity up to 240 Amps
- 80 Amps continuous carrying capacity
- Up to 125 degrees C operating temperature
- Plain case, Bracket case or PCB case
- Sockets available from Picker Components
- **Now available Lead Free & RoHS Compliant**

CONTACT RATINGS

| Contact Form | 1 Form A or 1 Form C | |
|-------------------------|----------------------|-----------------|
| | Normally Open | Normally Closed |
| Max Switching Current | Make 240 Amps | Make 180 Amps |
| | Break 80 Amps | Break 60 Amps |
| Max. Switching Voltage | 75 Volts DC | |
| Max. Continuous Current | 80 Amps | 60 Amps |
| Minimum Load | 0.5 A @ 12 VDC | |

CONTACT DATA

| | | |
|----------------------------|---|--------------------------------|
| Material | AgSnInO (Silver Tin Oxide 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 |

CHARACTERISTICS

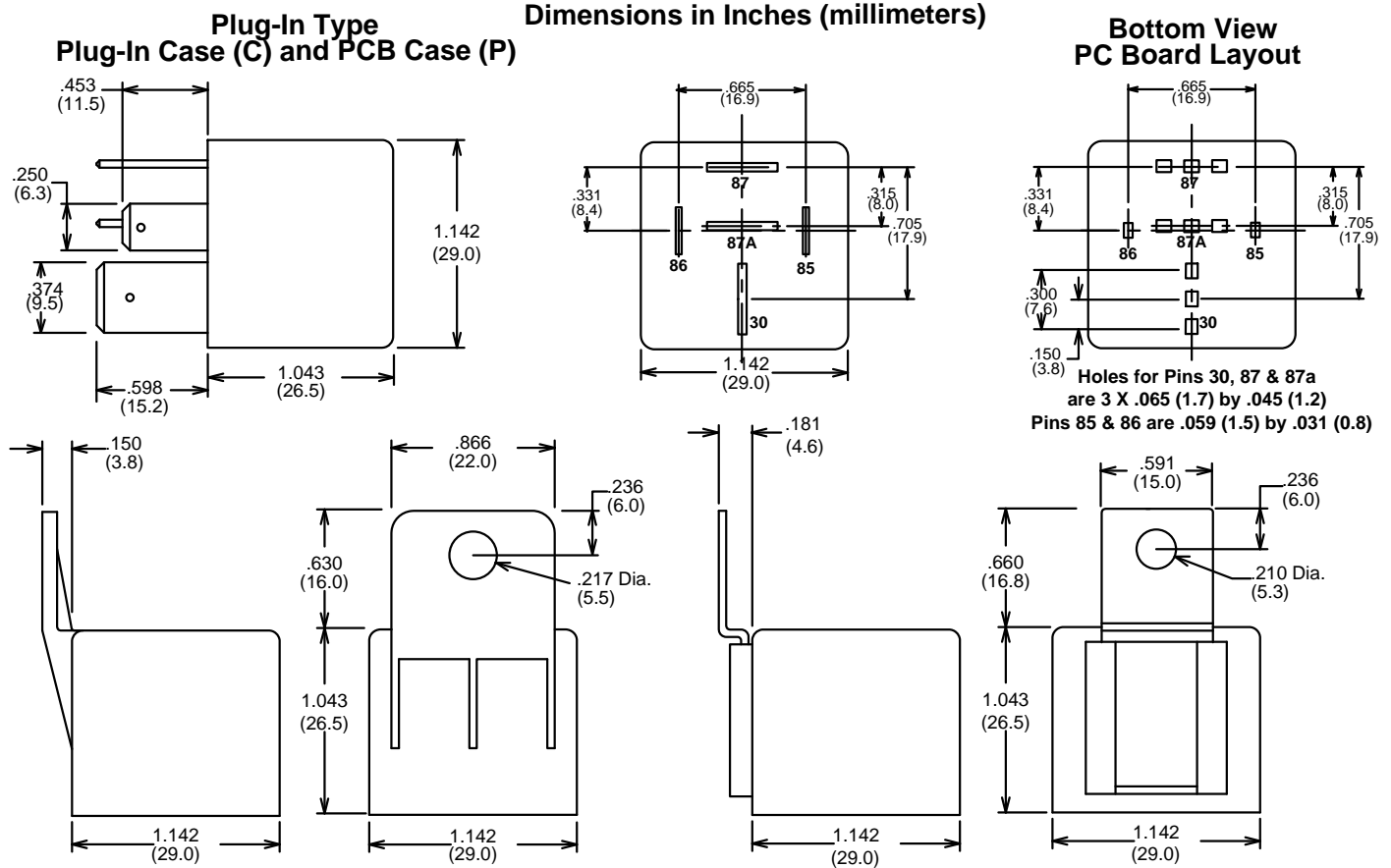
| | |
|---------------------------|---|
| Operate Time | 7 ms. typical |
| Release Time | 2 ms. typical |
| Insulation Resistance | 100 megohms min, at 500VDC, 50%RH |
| Dielectric Strength | 500 Vrms, 1 min. between coil and contacts |
| Shock Resistance | 20 g, 11ms, functional; 200 g, destructive |
| 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 | 1.8 W approx. |
| Ambient Temperature Range | -40 to 125 degrees C operating, -40 to 155 storage |
| Weight | 47 grams approx. |

ORDERING INFORMATION

| | | | | | | | |
|--------------------|--|-----|-----|-----|---|-----|----|
| Example: | PC795 | -1C | -C1 | -12 | S | -RN | -X |
| Model | | | | | | | |
| Contact Form | 1A, 1C or 1U (1 form A with 2 #87 Terminals) | | | | | | |
| Case Style | C: Plug-In; P: PCB; C1: Plastic Bracket; C2: Metal Bracket | | | | | | |
| Coil Voltage | | | | | | | |
| Enclosure | C: Dust Cover, S: Sealed Case | | | | | | |
| Parallel Component | Nil: None; D: Diode; R: Resistor; N: Nickel Plated Terminals | | | | | | |
| RoHS Compliant | Nil: Not Rohs, -X: RoHS Compliant | | | | | | |

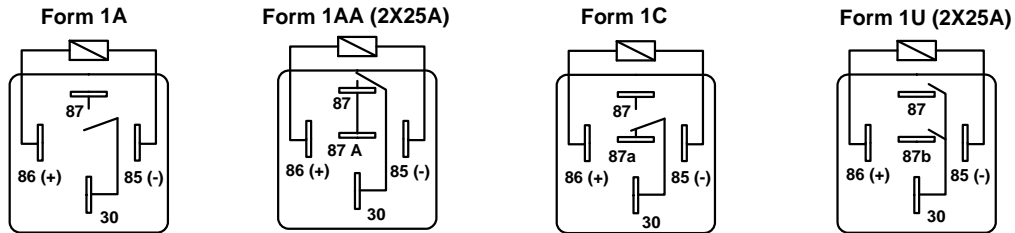
COIL DATA

| Coil Voltage | Resistance ohms ± 10% | Must Operate Voltage Max. (VDC) | Must Release Voltage Min. (VDC) | Continuous Voltage Max. (85 Degrees C) (VDC) |
|--------------|--------------------------|---------------------------------------|---------------------------------------|--|
| 6 | 20 | 3.9 | 0.6 | 7.8 |
| 12 | 80 | 7.8 | 1.2 | 15.6 |
| 24 | 320 | 15.6 | 2.4 | 31.2 |



Molded Plastic Bracket (C1)

Metal Bracket (C2)



Wiring Diagrams

Notes:
Tolerances ± .010 unless otherwise noted



3220 Commander Drive, Suite 102, Carrollton, Texas 75006

Sales: Call Toll Free (888) 997-3933 Fax (818) 342-5296 email: pickerwest@sbcglobal.net URL: pickercomponents.com