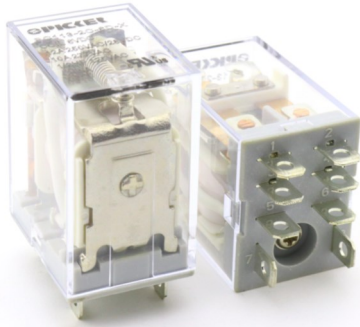


Miniature 12 & 20 Amp General Purpose Relay PC113



FEATURES

- 1 and 2 Pole Contact Forms
- 12 & 20 Amp Switching Capacity
- AC & DC Coils Available
- Available as Plug In or PC Pins
- Available with Gold Plated Contacts
- UL Class F Coil Wire Insulation Standard
- Arc Barrier Equipped
- Available with Top Mounting Flange
- Compatible with SC113 Series Sockets
- RoHS Compliant

UL / CUL Ratings



| Load Type | Voltage | 1 Form C (SPDT) | 2 Form C (DPDT) |
|----------------------|---------|-------------------|-------------------|
| General Purpose | 277 VAC | 20 A | 10 A |
| | 250 VAC | 20 A | 12 A |
| | 28 VDC | 20 A | 12 A |
| Motor | 125 VAC | 1/2 HP | 1/2 HP |
| | 250 VAC | 1/2 HP | 1/2 HP |
| Max. Switching Power | | 3,750 VA 420 W | 3,000 VA 336 W |

CONTACT DATA

| | | |
|----------------------------|------------|---------------------------------|
| Material | | AgCdO (Silver Cadmium Oxide) |
| Initial Contact Resistance | | 50 milliohms max @ 0.1 A, 6 VDC |
| Service Life | Mechanical | 1 X 10 ⁷ Operations |
| | Electrical | 1 X 10 ⁵ Operations |

CHARACTERISTICS

| | |
|-----------------------|--|
| Operate Time | 25 ms Max |
| Release Time | 25 ms Max |
| Insulation Resistance | 1,000 MΩ min (at 500 VDC) |
| Dielectric Strength | 1,500 Vrms, 1 min. Between Coil and Contacts |
| | 1,000 Vrms, 1 min. Between Open Contacts |
| | 1,000 Vrms, 1 min. Between Contacts Poles |
| Shock Resistance | 100 m/s ² 11 ms, |
| Power Consumption | 1 & 2 Pole DC 0.9 W, AC 1.2 VA |

CHARACTERISTICS CONTINUED

| | |
|-----------------------|-------------------------|
| Vibration Resistance | 10 Hz - 55 Hz DA 1.5 mm |
| Terminal Strength | 8N; 4N PC Type |
| Solderability | 260°C for 5 seconds |
| Operating Temperature | -40 to 70 °C |
| Relative Humidity | 85% (at 30°C) |
| Weight | 37 grams |

ORDERING INFORMATION

| | | | | | | | | |
|-----------------|--|-----|----|-----|-------|----|----|---|
| Example: | PC113 | -2C | -P | -C1 | -120A | -L | -X | See SC113-2C for Available Plug-In Sockets |
| Model: | PC113 | | | | | | | |
| Contact Form: | 1A, 1C, 2A, or 2C | | | | | | | See SC113-2C-PCB for Available PCB Socket |
| Terminal Type: | Nil: Solder Lugs; P: PC Pins | | | | | | | |
| Case Type: | Nil: Plain Case; C1: Flange Mount Case | | | | | | | |
| Coil: | XXXA: AC Coil 6, 12, 24, 36, 48, 120, 220, 240; XXXD: DC Coil 6, 12, 24, 36, 48, 110, 220 | | | | | | | |
| Options: | Nil: None; G: Gold Plate Contacts; L: LED Indicator; D: Internal Diode | | | | | | | Note: LED polarity is positive on terminal 8 and negative on terminal 7 (see page 3) |
| RoHS Compliant: | -X: RoHS Compliant | | | | | | | |

Box Quantity: 500; Inner Box: 250

COIL DATA

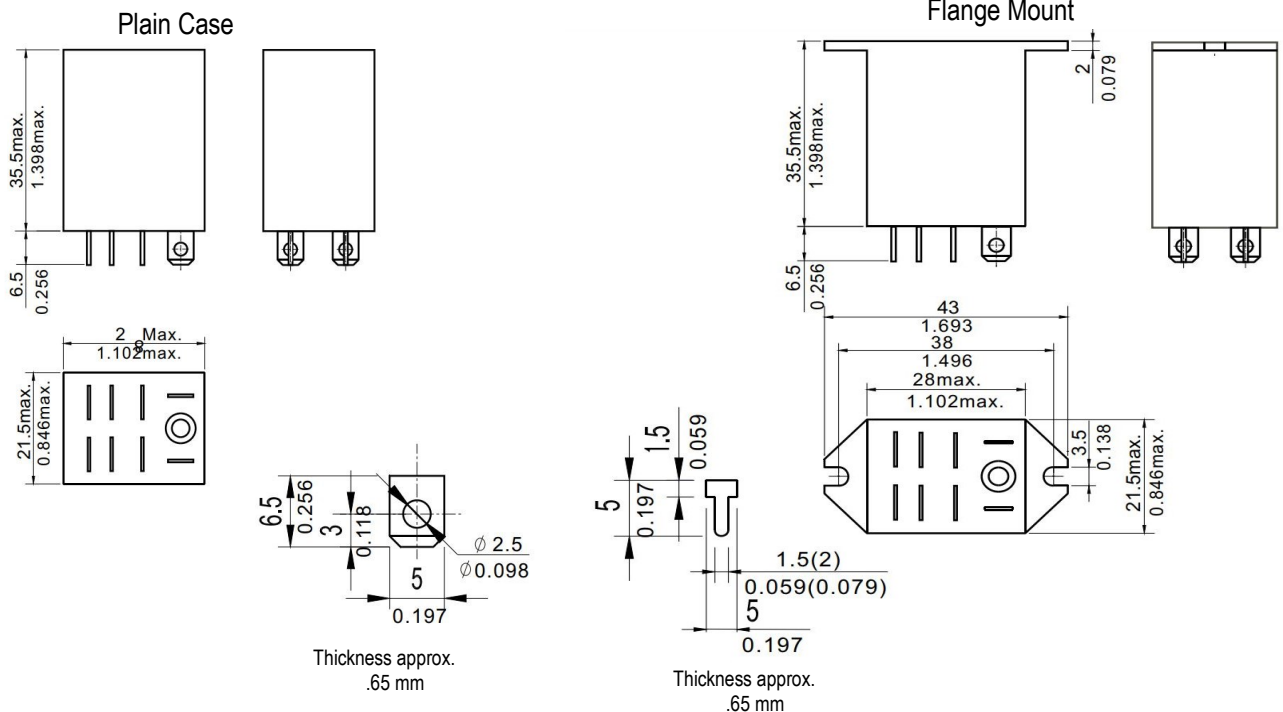
| Voltage Type | Coil Voltage | | Resistance Ohms ± 10% | Must Operate Voltage Max. (VDC) | Must Release Voltage Min. (VDC) |
|--------------|--------------|-------|--------------------------|---------------------------------------|---------------------------------------|
| | Coil Power | Rated | | | |
| DC 0.9 W | | 6 | 40 | 4.8 | 0.6 |
| | | 12 | 160 | 9.6 | 1.2 |
| | | 24 | 650 | 19.2 | 2.4 |
| | | 36 | 1,440 | 28.8 | 3.6 |
| | | 48 | 2,600 | 38.4 | 4.8 |
| | | 110 | 11,000 | 88.0 | 11.0 |
| | | 220 | 53,778 | 176.0 | 22.0 |
| AC 1.2 VA | | 6 | 11.5 | 4.8 | 1.8 |
| | | 12 | 46 | 9.6 | 3.6 |
| | | 24 | 184 | 19.2 | 7.2 |
| | | 36 | 320 | 28.8 | 10.8 |
| | | 48 | 735 | 38.4 | 14.4 |
| | | 120 | 4,550 | 96.0 | 36.0 |
| | | 220 | 14,400 | 176.0 | 66.0 |
| | | 240 | 19,000 | 192.0 | 72.0 |

NOTES:

The use of any coil voltage less that 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 (mm/inches)



3220 Commander Drive, Suite 102 Carrollton, TX 75006
 Sales: (972) 713-6272 (888) 997-3933 Fax: (972) 735-096

www.PickerComponents.com

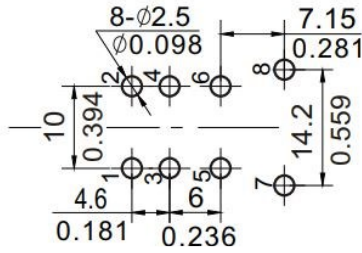
e-mail:sales@pickercomponents.com

Dimensions are listed for reference purposes only.

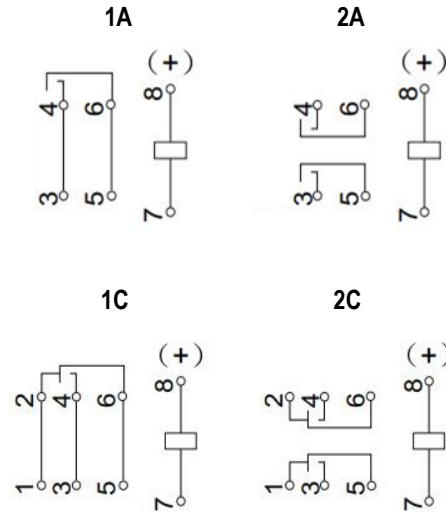
Specifications and Availability subject to change without notice.

DIMENSIONS (mm/inches)

PC Board layout



Wiring Diagram



- NOTES 1).Dimensions are in millimeters.
 2).Inch equivalents are given for general information only.

Reference Data

