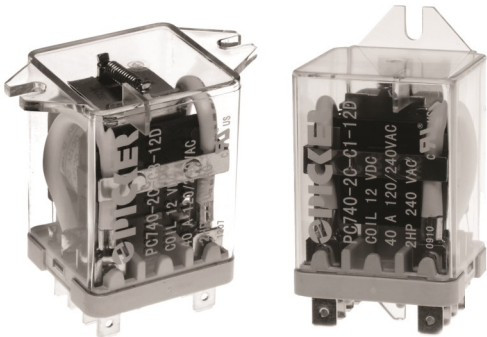


# 40 Amp Power Relay

PC740



## FEATURES

- 1/4 Inch Male Quick Connect Terminals
- Up To 40 Amp Switching Capacity
- Up to 2 Horsepower Rating
- Four Mounting Styles
- Compatible with SC740 Din Rail Socket
- AC Coils Up To 240 V or DC Coils Up To 110 V
- RoHS Compliant



| Load Type       | Voltage | 2 Form C All Contacts | 3 Form C All Contacts |
|-----------------|---------|-----------------------|-----------------------|
| General Purpose | 120 VAC | 40 A                  | 40 A                  |
|                 | 250 VAC | 40 A*                 | 40 A*                 |
|                 | 28 VDC  | 40 A                  | 40 A                  |
| Resistive       | 120 VAC | 40 A*                 | 40 A*                 |
|                 | 250 VAC | 30 A*                 | 30 A*                 |
|                 | 28 VDC  | 40 A                  | 40 A                  |
| Motor           | 250 VAC | 2 HP*                 | 1/2 HP                |
|                 | 120 VAC | 1 1/2 HP*             | 1/2 HP                |
| LRA/FLA         | 250 VAC | 72 A / 12 A*          | 72 A / 12 A*          |
|                 | 120 VAC | 120 A / 29 A*         | 120 A / 29 A*         |

\* Per UL

## CHARACTERISTICS

|                       |                                              |
|-----------------------|----------------------------------------------|
| Operate Time          | 25 ms Max                                    |
| Release Time          | 15 ms Max                                    |
| Insulation Resistance | 500 MΩ min. at 500 VDC                       |
| Shock Resistance      | 10 g, 11ms, Functional<br>100 g, Destructive |
| Power Consumption     | DC Coil 2.5 W, AC Coil 5.5 VA                |

## ORDERING INFORMATION

Example: PC740 -2C - C - 120A -P

Model: **PC740**

Contact Form: **2A, 2C, 3A, 3C**

Case Type: **C**: Plain Case; **C1**: Side Flange; **C3**: Top Flange; **C4**: Plain Case Base with Inserts

Coil Voltage: **XXXA**: AC Coil; **XXXD**: DC Coil

**Nil**: QC: **P**: PC Pins

**Nil**: Rohs Compliant

Box Quantity: 100; Inner Box: 10

## CONTACT DATA

|                            |                              |                                |
|----------------------------|------------------------------|--------------------------------|
| Material                   | AgCdO (Silver Cadmium Oxide) |                                |
| Initial Contact Resistance | 100 mΩ max. @ 6 V, 1A        |                                |
| Max. Switching Voltage     | 28 VDC, 250 VAC              |                                |
| Max. Switching Power       | 1120 W, 10 KVA               |                                |
| Max. Breaking Capacity     | 10,000 VA                    |                                |
| Service Life               | Mechanical                   | 1 X 10 <sup>7</sup> Operations |
|                            | Electrical                   | 1 X 10 <sup>5</sup> Operations |

|                       |                                              |
|-----------------------|----------------------------------------------|
| Dielectric Strength   | 2,500 Vrms, 1 min. Between Coil and Contacts |
|                       | 1,500 Vrms, 1 min. Between Open Contacts     |
| Vibration Resistance  | 10 Hz - 55 Hz DA 2.0 mm                      |
| Solderability         | 235°C ± 2°C 3 s ± 0.5 s                      |
| Operating Temperature | -25 to 55 °C                                 |
| Relative Humidity     | 75% (at 30°C)                                |
| Weight                | 115-130 grams                                |

Compatible with SC740 Din Rail Socket

**COIL DATA**

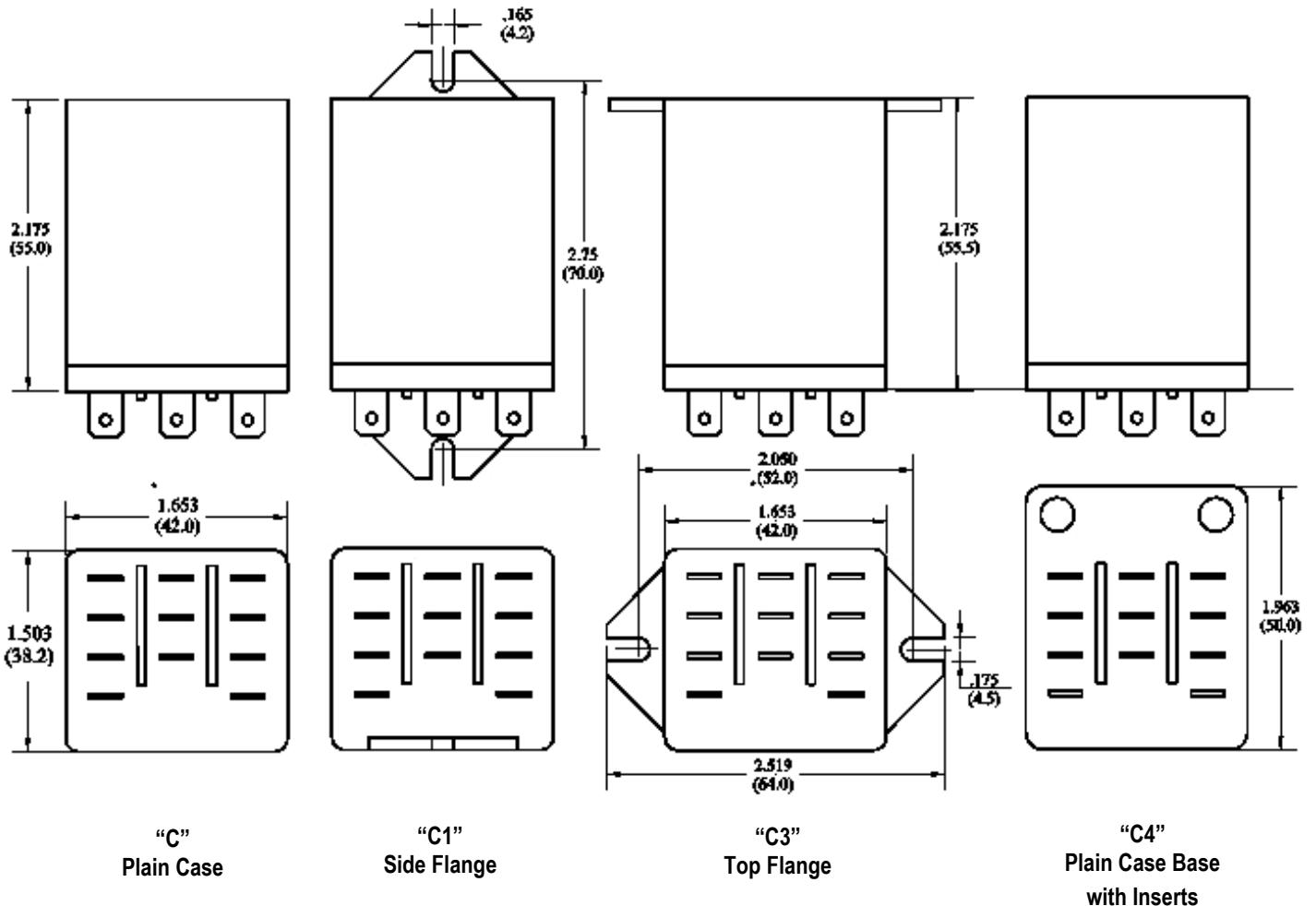
| Voltage Type | Coil Voltage* |       | Resistance<br>Ohms ± 10% | Must Operate Volt-<br>age Max. (VDC) | Must Release<br>Voltage Min.<br>(VDC) |
|--------------|---------------|-------|--------------------------|--------------------------------------|---------------------------------------|
|              | Coil Power    | Rated |                          |                                      |                                       |
| DC<br>2.5 W  |               | 12    | 57.6                     | 9.6                                  | 1.2                                   |
|              |               | 24    | 230                      | 19.2                                 | 2.4                                   |
|              |               | 48    | 921                      | 38.4                                 | 4.8                                   |
|              |               | 110   | 4840                     | 176.0                                | 11.0                                  |
| AC<br>5.5 VA |               | 12    | 8.4                      | 19.2                                 | 3.6                                   |
|              |               | 24    | 34                       | 38.4                                 | 7.2                                   |
|              |               | 48    | 134                      | 88.0                                 | 14.4                                  |
|              |               | 120   | 706                      | 176.0                                | 33.0                                  |
|              |               | 220   | 2,820                    | 192.0                                | 66.0                                  |

\*Other Coil Voltages are available upon request.

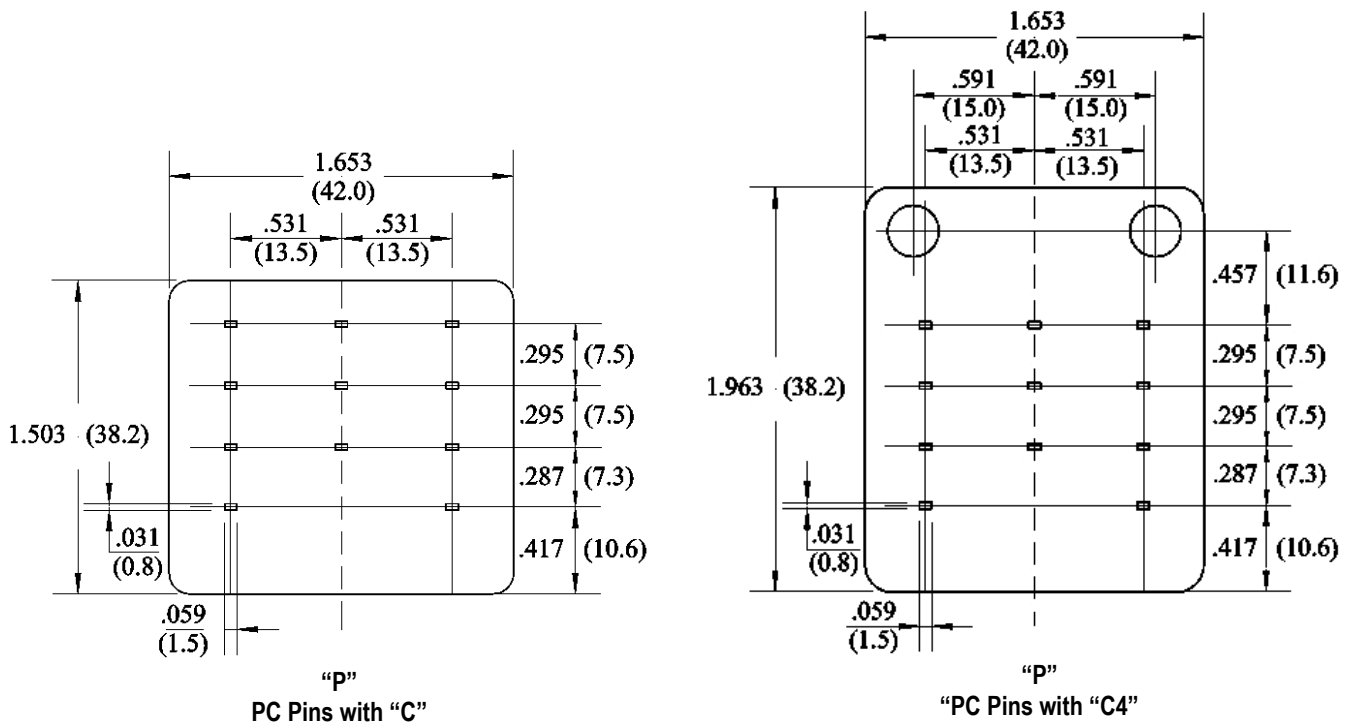
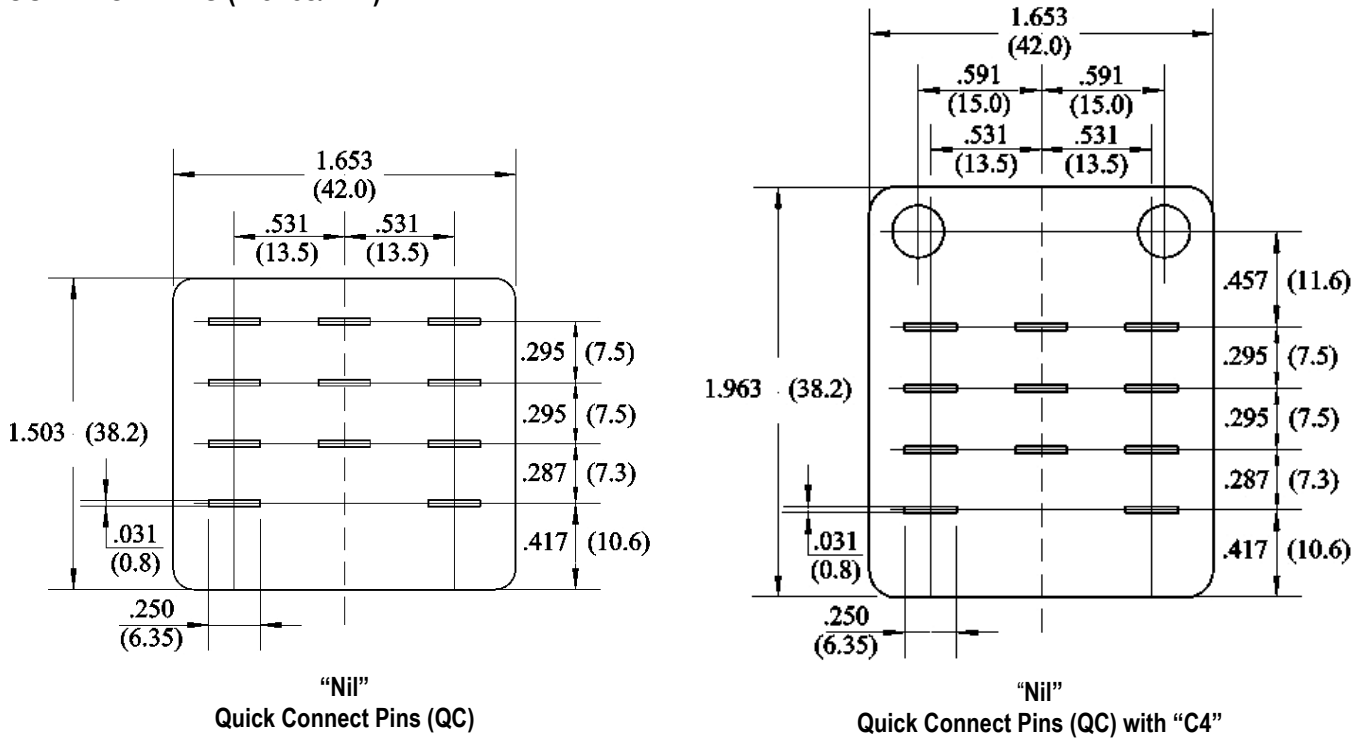
**NOTES:**

The use of any coil voltage less than 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.

**CASE TYPE (inches/mm)**



MOUNTING TYPES (inches/mm)



3220 Commander Drive, Suite 102 Carrollton, TX 75006

Sales: (972) 713-6272

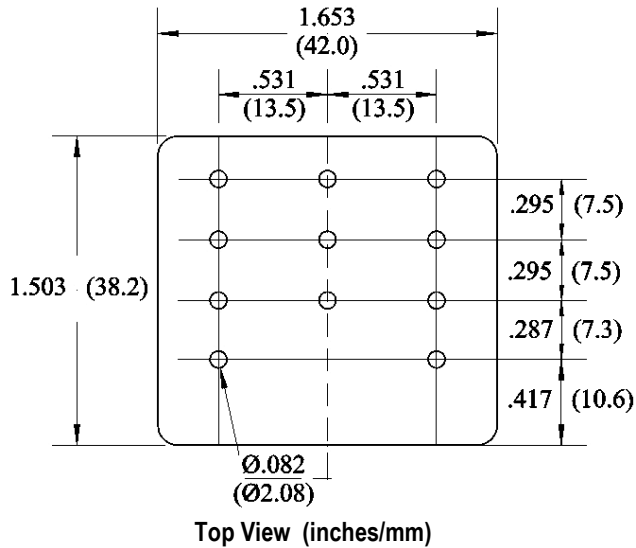
(888) 997-3933

Fax: (972) 735-0964

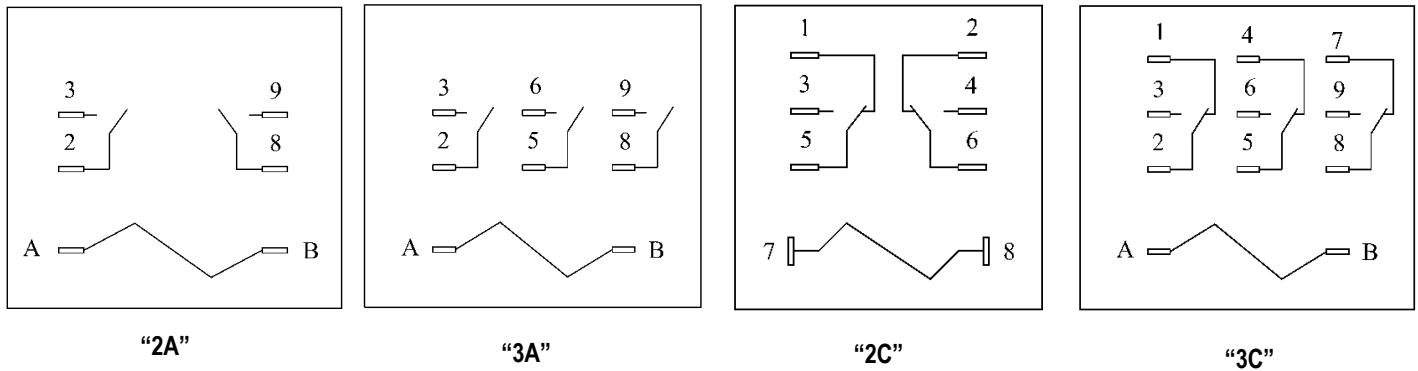
www.PickerComponents.com

e-mail: sales@pickercomponents.com

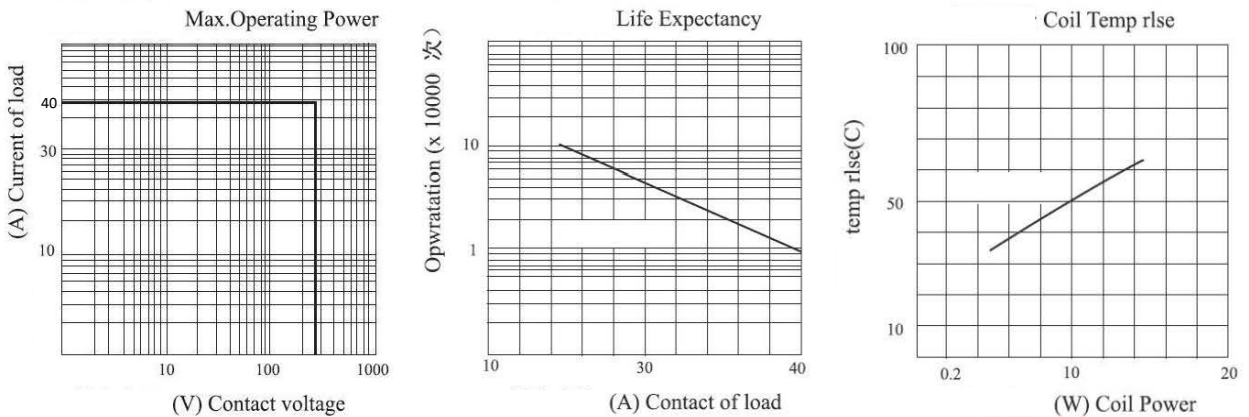
PRINTED CIRCUIT BOARD LAYOUT



CONTACT FORMS



REFERENCE CURVES



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 Sales: (972) 713-6272 (888) 997-3933 Fax: (972)735-0964

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 e-mail: sales@pickercomponents.com