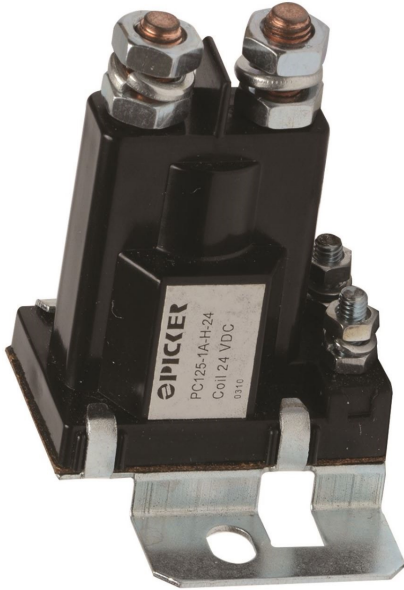


100 Amp D.C. Power Contactor

PC120



Features

- Direct Insert Mounting
- Contact Switching Capacity up to 400 Amps
- Internal Resistors Available
- RoHS Compliant
- Compatible with White Rogers/Stancor 120-9xx Series

Cross Reference

| Stancor | Picker |
|---------|-----------|
| 120-901 | PC120-901 |
| 120-902 | PC120-902 |
| 120-903 | PC120-903 |
| 120-904 | PC120-904 |
| 120-905 | PC120-905 |

| Part Number | Duty Cycle | Terminal Type | Pole Form | Bracket Style | Coil Voltage D.C.* | Coil Resistance (Ohms) @ 25°C | Contact Material | Contact Rating (Amps) Inductive Load | | | Dimensions Inches | | | Weight (Oz) |
|-------------|------------|---------------|-----------|---------------|--------------------|-------------------------------|------------------|--------------------------------------|---------------|--------|-------------------|-------|-------|-------------|
| | | | | | | | | Volt D.C. | Normally Open | | Case | | | |
| | | | | | | | | | Continuous | Inrush | L | W | H | |
| PC120-901 | Continuous | 4 | SPNO | Standard | 12 | 16.0 | Silver Alloy | 12 | 100 | 400 | 2.125 | 2.875 | 3.253 | 6.0 |
| PC120-902 | Continuous | 4 | SPNO | Standard | 15 | 20.8 | Silver Alloy | 15 | 100 | 400 | 2.125 | 2.875 | 3.253 | 6.0 |
| PC120-903 | Continuous | 4 | SPNO | Standard | 18 | 37.0 | Silver Alloy | 18 | 100 | 400 | 2.125 | 2.875 | 3.253 | 6.0 |
| PC120-904 | Continuous | 4 | SPNO | Standard | 24 | 64.0 | Silver Alloy | 24 | 100 | 400 | 2.125 | 2.875 | 3.253 | 6.0 |
| PC120-905 | Continuous | 4 | SPNO | Standard | 36 | 160.0 | Silver Alloy | 36 | 100 | 400 | 2.125 | 2.875 | 3.253 | 6.0 |

*Coil Voltages 6, 14, 48 are available as special order.

CONTACT DATA

| Volts (VDC) | Continuous (A) | Inrush (A) | Electric Life | Contact Material |
|-------------|----------------|------------|-----------------------|------------------|
| 12 | 80 | 400 | 1 X 10 ⁴ | Copper |
| 24 | 100 | 400 | 5 X 10 ⁴ | Silver Alloy |
| 36 | 100 | 400 | 2.5 X 10 ⁴ | Silver Alloy |

ORDERING INFORMATION

| | | | | | | | |
|---------------------------|--|------|----|---|-----|----|-----|
| Example: | PC120 | -901 | -Z | H | -22 | -C | 388 |
| Model: | PC120-9xx | | | | | | |
| Coil Voltage: | 01: 12; 02: 15; 03: 18; 04: 24; 05: 36 VDC | | | | | | |
| Mounting Bracket Plating: | Nil: Bare Metal, Z: Zinc Plater | | | | | | |
| Hardware: | Nil: None; H: Hardware Included | | | | | | |
| Coil Terminal Length: | Nil: .451"; 22: .22" | | | | | | |
| Contact Material: | Nil: AgCdO; C: Copper | | | | | | |
| Contact Termination: | Nil: .495"; 388: .388" | | | | | | |

| DESIGN DATA | | | | | | | | | | | | |
|-------------|--------------------------------------|---------------------------------------|--------------------|--|-----------------------------|-----------|------------------|--------------------------|-----------------------|-----------------------|-----------------------|----------------|
| D.C. Type | Coil Rating | Operation in % of Nominal Coil Rating | | Breakdown Voltages All Terminals—60 Hz RMS | | | Contact Material | Electrical Life | | Mechanical life | | Ambient °F Max |
| | Nominal Magnetic Coil Rating (Watts) | Pick-up | Max. State Operate | Opposite Polarity | Open Contacts Same Polarity | To Ground | Power | Operations at Rated Load | Operations per Minute | Operations at No Load | Operations per Minute | |
| 120 | 8.1 | 75% | 110% | 500 | 500 | 500 | Copper | 10,000 | 2 | 100,000 | 30 | 150 |
| | | | | | | | Silver Alloy | 50,000 | 2 | 100,000 | 30 | |

Power (Approximate)

- Continuous 8.1 Watts

Terminations

Standard:

- Contacts: 5/16 - 24 studs, .495" min Length

- Coil: #10-32, .451" min Length

Optional:

- Contacts: 5/16 - 24 studs, .495" min Length

- Coil: #10-32, .451" min Length

Hardware Torque Specifications

Contact Terminal*: 45 - 55 inch-lbs

Coil Terminal*: 12 - 18 inch-lbs

* Note: a back up wrench must be used to hold the bottom nut stationary

Temperature Range

- Continuous Duty: -20°F to 120°F

Recommended Mounting

- Coil Terminals Up or Horizontal

| COIL DATA | | | | | |
|--------------------|------|-------------------------|--|-----------------------|------------|
| Coil Voltage (VDC) | | Coil Power (mW) | | Operate Voltage (VDC) | |
| | | Resistance (Ohms ± 10%) | | | |
| Rated | Max | 8.1 W Continuous | | Intermittent | Continuous |
| 6 | 6.9 | 4.0 | | 4.02 | 4.5 |
| 12 | 13.2 | 16.0 | | 8.04 | 9.0 |
| 14 | 15.4 | 23.0 | | 9.38 | 10.5 |
| 15 | 16.5 | 26.0 | | 10.05 | 11.25 |
| 24 | 26.4 | 64.0 | | 16.08 | 18.0 |
| 36 | 39.6 | 160.0 | | 24.12 | 27.0 |
| 48 | 52.8 | 256.0 | | 32.16 | 36.0 |

*Special coils available upon request



3220 Commander Drive, Suite 102 Carrollton, TX 75006

Sales: (972) 713-6272 (888) 997-3933

Fax: (972) 735-0964

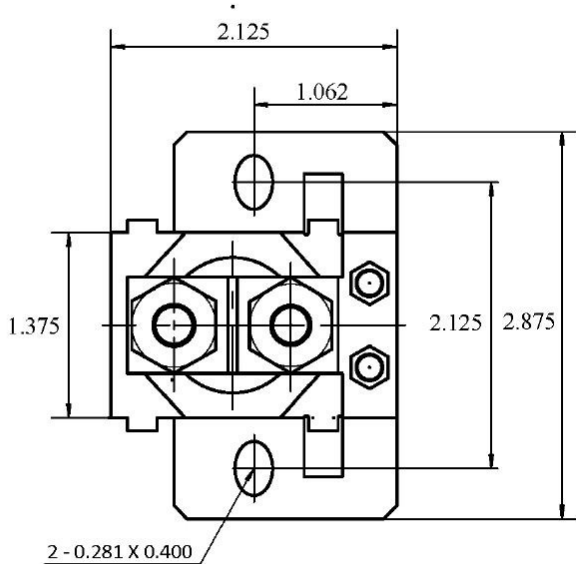
www.PickerComponents.com

e-mail: sales@pickercomponents.com

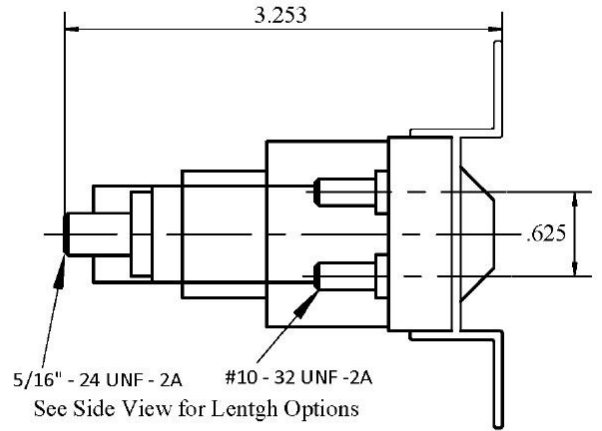
Dimensions are listed for reference purposes only.

Specifications and Availability subject to change without notice.

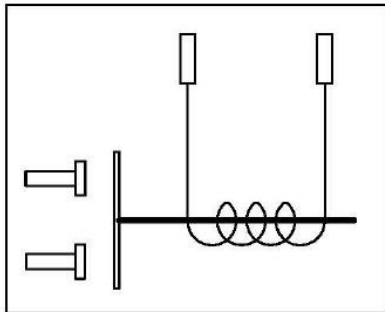
TERMINAL TYPE 4



Relay (Top View)

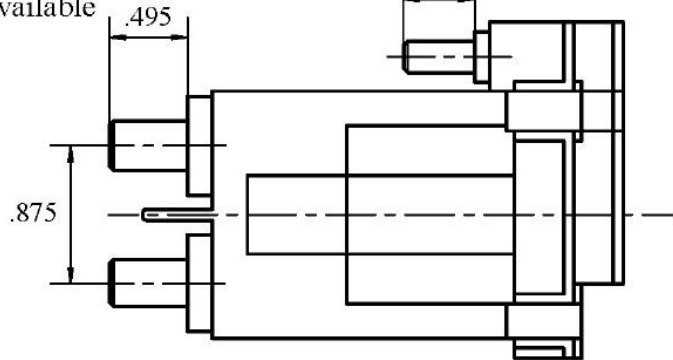


Relay (Front View)



Wire Diagram 1A

Optional Length of .388\"/>



Relay (Side View)