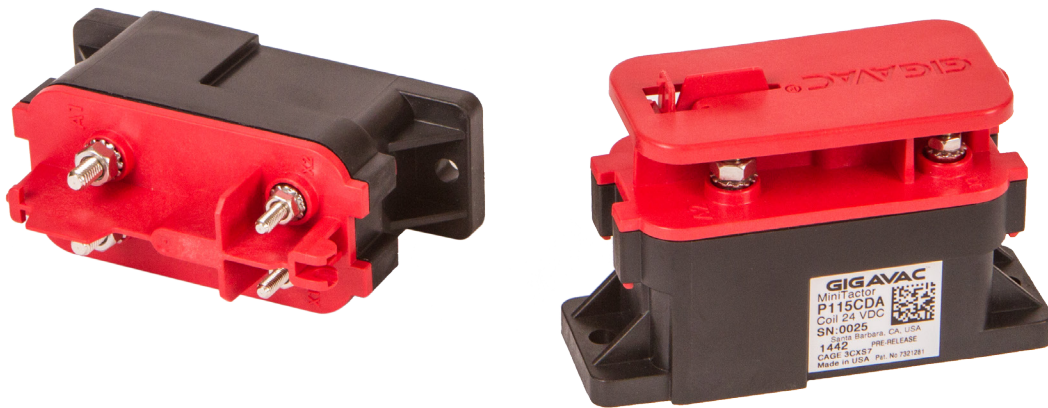




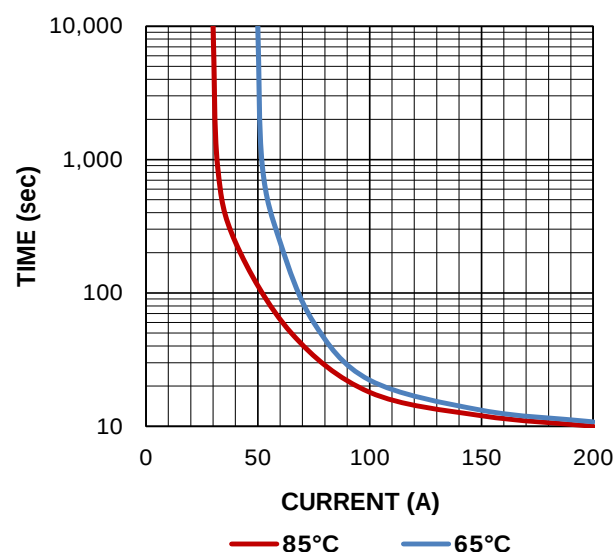
## FEATURES

- UL508 Recognized and load break rated for 1000vdc systems
- Hermetically sealed contactor: ensures make/break switching up to 1200Vdc
- Best option for: NEC 690.11 and 690.12 DC arc fault interrupting and rapid shutdown requirements
- Small, lightweight and cost effective patented design
- Perfect choice for 600Vdc and 1000Vdc photovoltaic/battery systems

## PRODUCT SPECIFICATIONS

| Specifications                                                    | Units  | Data         |
|-------------------------------------------------------------------|--------|--------------|
| Contact Arrangement                                               | Form X | SPST-NO      |
| Dielectric at Sea Level                                           | Vrms   | 4300         |
| Contact Voltage, Operating Max                                    | Vdc    | 1500         |
| Continuous Current Carry, Max (8 AWG) @ 65°C                      | A      | 50           |
| Continuous Current Carry, Max (8 AWG) @ 85°C                      | A      | 25           |
| Electrical Life (Resistive Load)<br>Make and Break, 20A @ 1000Vdc | Cycles | 6000         |
| Mechanical Life                                                   | Cycles | 1,000,000    |
| Contact Voltage Drop, Max @ 50A                                   | mV     | 100          |
| Contact Resistance @ 50A                                          | mOhms  | 2            |
| Operate Time, Max                                                 | ms     | 25           |
| Release Time, Max                                                 | ms     | 8            |
| Vibration, Sinusoidal (50-200Hz Peak)                             | G      | 5            |
| Shock, Operating, 1/2 Sine, 11ms                                  | G      | 20           |
| Temperature, Operating Range <sup>1/</sup>                        | °C     | -40° to +85° |
| Humidity, No Freezing or<br>Condensing at Low Temperature         | RH     | 5% to 85%    |
| Weight                                                            | grams  | 100          |

## CURRENT CARRY RATINGS



## COIL RATINGS @ 25°C <sup>2/</sup>

| Coil P/N Designation                     | B        | C        | F         |
|------------------------------------------|----------|----------|-----------|
| Coil Voltage, Nominal                    | 12 Vdc   | 24 Vdc   | 48 Vdc    |
| Coil Voltage, Max                        | 16 Vdc   | 32 Vdc   | 64 Vdc    |
| Pick-up Voltage, Max                     | 7.5 Vdc  | 15 Vdc   | 30 Vdc    |
| Drop Out Voltage, Max                    | 5 Vdc    | 9 Vdc    | 18 Vdc    |
| Drop Out Voltage, Min                    | 0.20 Vdc | 0.40 Vdc | 0.80 Vdc  |
| Coil Resistance, +/-10%                  | 70 Ohms  | 280 Ohms | 1092 Ohms |
| Coil Current at Nominal Voltage          | 0.170 A  | 0.085 A  | 0.045 A   |
| Recommended External Coil<br>Suppression | 24 Vdc   | 48 Vdc   | 96 Vdc    |

## DIMENSIONS



## Mounting

**M4 or 8-32 Screws**

Torque 1.3-1.7Nm [12-15in-lb]

## Case Material

### Thermoplastic Polyester Resin

## Power Connection

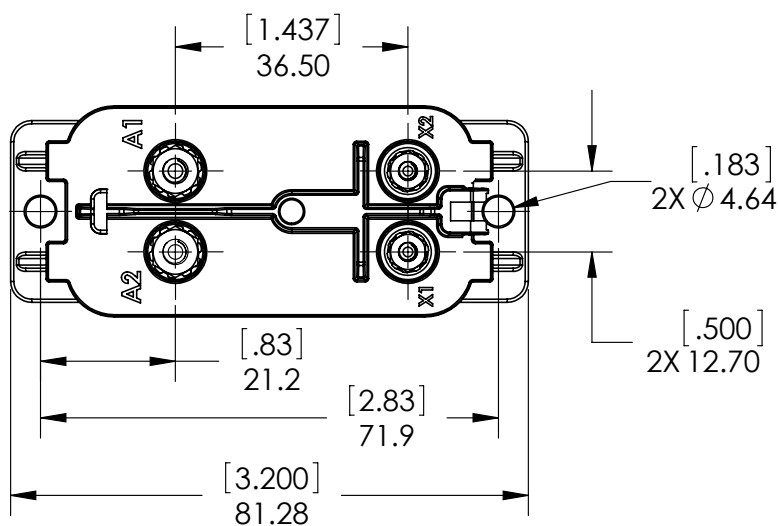
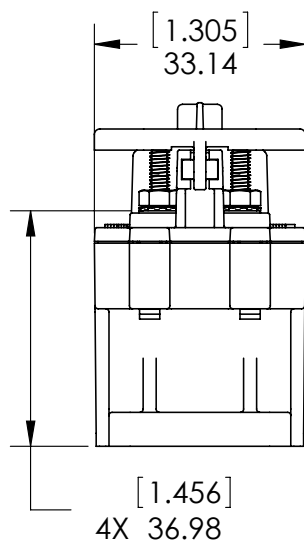
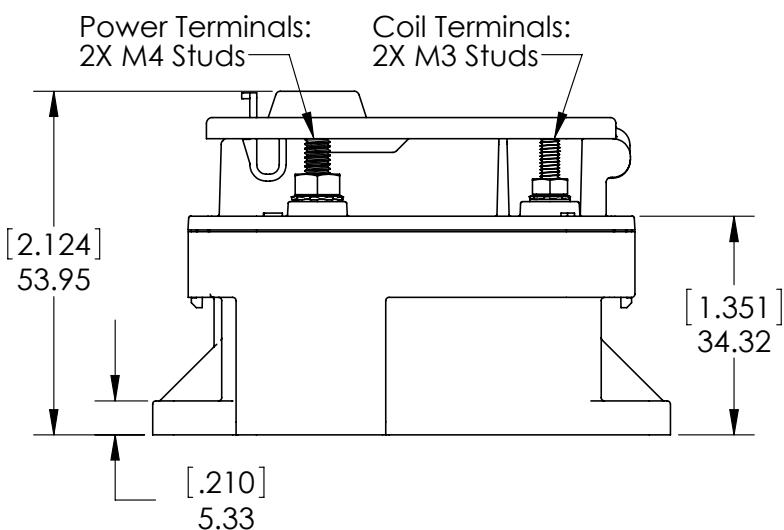
M4 Studs

Torque 1.3Nm [12in-lb] max

## Coil Termination

M3 Studs

Torque 0.5Nm [5in-lb] max



## PART NUMBER SYSTEM

| P115            | B        | D           | A           |
|-----------------|----------|-------------|-------------|
| Coil Voltage    | B=12 Vdc |             |             |
|                 | C=24 Vdc |             |             |
|                 | F=48 Vdc |             |             |
| Coil Terminals  |          | D=Studs, M3 |             |
| Power Terminals |          |             | A=Studs, M4 |

### Notes & Definitions:

**1/** Temperature range refers to ambient conditions. Terminal temperature can exceed listed values.

**2/** Contactor is operated by a coil that changes resistance with temperature. Since pick-up current, coil current and coil power are specified at nominal voltage, they will be lower than indicated at temperatures above 25°C and higher than indicated at temperatures below 25°C. Similarly, pick-up and drop-out voltages will be higher than indicated at temperatures above 25°C and lower than indicated at temperatures below 25°C.

## APPLICATION NOTES

Electrical life rating is based on resistive load with 27μH maximum inductance in circuit. Because your application may be different, we suggest you test the contactor in your circuit to verify life is as required.

Contactor is bi-directional and therefore can carry, make, and break current in both directions.

Contactor is not sensitive to direction of installation and can be mounted in any position or axis.