



## **310 Amps 600 Volts AC/DC**

### **Wire Range**

- Line: (1) 350kcmil - #6 AWG
- Load: (6) #4 - #14 AWG

### **Electrical Ratings**

- 310 Amps
- 600V per UL 1059 & CSA 22.2 No.158, Class B & C requirements
- Short circuit current ratings (SCCR): See SCCR section below for specifications.
- CU7AL - 75°C connector terminal rating with copper or aluminum wire
- Factory & Field Wiring

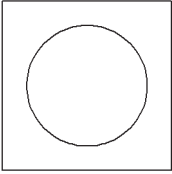
### **Agency Compliance**

- UR - UL Recognized Terminal Block, Evaluated to UL 1059, File No.XCFR2.E62806
- CSA - certified to C22.2 No. 158, File No. LR19766 (wire classes B & C only)
- CE compliant to IEC 60947-7-1

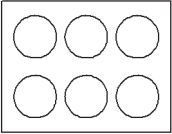
### **Material Information**

- Insulator base:
  - Phenolic
  - Flammability rating of insulator base UL94V0
  - Insulator base temperature rating: -40°C to 150°C (UL RTI)
- Connector: aluminum, tin plated
- Line terminal screws: aluminum, tin plated
- Load terminal screws: steel, nickel plated
- Connector mounting screws: steel, zinc plated
- RoHS compliant

## Termination Specifications

| Line Side   | Wire Size (CU Stranded) | Torque                | Wires / Terminal | Wire Class (UL) <sup>1</sup> |
|---|-------------------------|-----------------------|------------------|------------------------------|
|  | 350 - 300 kcmil         | 13.6 N·m (275 lbf·in) | 1                | B, C                         |
|   | 250 - 2                 | 13.6 N·m (275 lbf·in) | 1                | B, C, G, H, I (DLO)          |
|   | 4 - 6                   | 13.6 N·m (275 lbf·in) | 1                | B, C                         |

- Aluminum wire range: #350kcmil - #6 AWG
- Wire strip length: line & load side tap - 1 1/16 in. (27mm)
- Terminal screw drive: 5/16 in. (8mm) hex

| Load Side   | Wire Size (CU Stranded) | Torque            | Wires / Terminal | Wire Class (UL) <sup>1</sup> |
|---|-------------------------|-------------------|------------------|------------------------------|
|  | 4 AWG                   | 4 N·m (35 lbf·in) | 1                | B, C                         |
|   | 6 - 8                   | 4 N·m (35 lbf·in) | 1                | B, C, G, H, I (DLO)          |
|   | 10                      | 4 N·m (35 lbf·in) | 1 - 2            | B, C, I (DLO)                |
|   | 12 - 14                 | 4 N·m (35 lbf·in) | 1 - 2<br>1 - 4   | I (DLO)<br>B, C              |

- Aluminum wire range: #4 - #14
- Wire strip length:
  - top row: 9/16 in. (14mm)
  - bottom row: 1.0 in. (25mm)
- Terminal screw drive: slotted

<sup>1</sup> For information on copper stranded wire classes please visit:  
<http://www.marathonsp.com/flexible-stranded-wire.php>

## Short Circuit Current Ratings (SCCR)

- The suitable conductor ranges are limited to the table values only for achieving the SCCR in excess of the default rating of 10,000A.
- Other conductor combinations within the "Terminal Specifications" noted are suitable for achieving a SCCR of 10,000A (the default rating of terminal blocks).
- Enclosure size – investigated with a minimum 16x12x6 enclosure. Use in smaller enclosures is subject to end use evaluation.

### SCCR With Fuses

| Wire Type | Suitable Conductors |        | Max Overcurrent Protection <b>Fuse</b> Required |     |     |     |    |    | SCCR RMS Sym. Amps 600V. Max |
|-----------|---------------------|--------|---|-----|-----|-----|----|----|------------------------------|
|           |                     |        | Amp Rating / Class                              |     |     |     |    |    |                              |
|           | Line                | Load   | J   | T   | RK1 | RK5 | G  | CC |                              |
| B, C      | 350 - 3/0           | 4 - 8  | 400   | 400 | 400 | 200 | 60 | 30 | 100,000                      |
| B, C      | 350 - 6             | 4 - 10 | 250   | 250 | 200 | 100 | 60 | 30 | 100,000                      |
| G, H, I   | 1 - 6               | 6 - 10 | 150   | 150 | 100 | 30  | 60 | 30 | 100,000                      |
| (*)       | 350 - 6             | 4 - 14 | None  |     |     |     |    |    | 10,000                       |

\* Any wire class evaluated (see terminal specification section)

| Catalog Number | Suitable Conductors Copper kcmil/AWG |      | Max Overcurrent Protection Circuit Breaker Allowed |              |         | SCCR RMS Sym. A | Volts Max |
|----------------|--------------------------------------|------|--|--------------|---------|-----------------|-----------|
|                |                                      |      | Mfg  | Type         | Max Amp |                 |           |
| 140x404        | 350-6                                | 4-12 | GE   | SFPA36AT0250 | 250     | 100kA           | 480       |

## Installation & Accessories

- Mounting (Panel):
  - For use with 1/4 fastener.
  - Torque mounting fastener to 30-40 lbf·in (3.4 - 4.5 N·m).
- Covers:
  - Flat covers available upon request
  - Catalog Number: CC140x (replace "x" with number of poles)
  - Covers are clear polycarbonate
  - Accessory covers are not intended to provide insulation for electrical spacings.
- Marker Strip: white vinyl strip with mounting screws available.
- Printing options available, consult customer service for specifications.

**Drawing**

