



## Product Data Sheet

# 142X552

Replace "x" with 1, 2, or 3 for number of poles

Power Terminal Block

## 115 Amps 600 Volts AC/DC

### Wire Range

- Line: (1) #2- #14 AWG
- Load: (1) #2- #14 AWG

### Electrical Ratings

- 115 Amps Cu/90 Amps AL
- 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

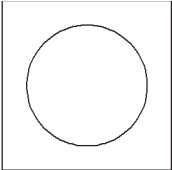
### Material Information

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

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## Termination Specifications

| Line & Load Side                                                                  | Wire Size<br>(CU Stranded) | Torque              | Wires /<br>Terminal | Wire Class (UL) <sup>1</sup> |
|-----------------------------------------------------------------------------------|----------------------------|---------------------|---------------------|------------------------------|
|  | #2                         | 5.6 N·m (50lbf·in)  | 1                   | B, C                         |
|                                                                                   | 4 - 6                      | 5.1 N·m (45lbf·in)  | 1                   | B, C, G, H, I (DLO)          |
|                                                                                   | 8                          | 4.5 N·m (40 lbf·in) | 1 - 2 <sup>2</sup>  | B, C, G, H, I (DLO)          |
|                                                                                   | 10 - 14                    | 4 N·m (35 lbf·in)   | 1 - 2               | B, C, I (DLO)                |
|                                                                                   | 12 - 14                    |                     | 1 - 4               | B, C                         |

- Solid copper wire range: 10-14 AWG
- Wire strip length: 1/2 in. (13 mm)
- Terminal screw drive: slotted

<sup>1</sup> For information on copper stranded wire classes please reference:

<http://www.marathonsp.com/CatalogPDFs/Flexible-Stranded-Wire.pdf>

<sup>2</sup> Multiple wire rating applies to Classes B, C, and I. Classes G & H are rated for 1 wire per terminal.

## Short Circuit Current Ratings (SCCR)

- The suitable copper 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<br>Type | Suitable Copper<br>Conductors |        | Max Overcurrent Protection Fuse Required<br>Amp Rating / Class |     |     |     |    |    | SCCR RMS<br>Sym. Amps<br>600V. Max |
|--------------|-------------------------------|--------|----------------------------------------------------------------|-----|-----|-----|----|----|------------------------------------|
|              | Line                          | Load   | J                                                              | T   | RK1 | RK5 | G  | CC |                                    |
| B, C         | 2 - 6                         | 2 - 6  | 300                                                            | 300 | 200 | 100 | 60 | 30 | 100,000                            |
| B, C         | 2 - 10                        | 2 - 10 | 150                                                            | 150 | 100 | 30  | 60 | 30 | 100,000                            |
| B, C         | 2 - 10                        | 2 - 10 | 200                                                            | 200 | 100 | 30  | 60 | 30 | 65,000                             |
| G, H, I      | 4 - 10                        | 4 - 10 | 150                                                            | 150 | 100 | 30  | 60 | 30 | 100,000                            |
| (*)          | 2 - 14                        | 2 - 14 | None                                                           |     |     |     |    |    | 10,000                             |

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

## Installation & Accessories

- Mounting (Panel):
  - For use with #10 fastener.
  - Mounting torque to be determined in end-use application 30 lbf-in (3.4 N·m).
- Covers:
  - Flat covers available upon request
  - Catalog Number: CC142x (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

