



## Product Data Sheet

# 143X559

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

### Power Terminal Block

## 310 Amps 600 Volts AC/DC

### Wire Range

- Line: (1) 350 kcmil - #6 AWG
- Load: 3/8 - 16 X 1 1/8" stud

### 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

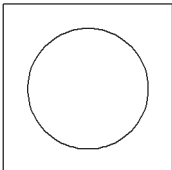
### Material Information

- Insulator base:
  - Phenolic
  - Flammability rating of insulator base UL94V0
  - Insulator base temperature rating: -40°C to 150°C (UL RTI)
- Connector: aluminum, tin plated
- Terminal set screws: aluminum, tin plated
- Threaded stud: brass, tin plated
- Connector mounting screws: steel, zinc plated
- Hex nut: brass, nickel plated (1 supplied per stud)
- RoHS compliant

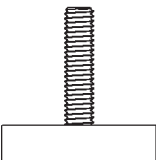
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## Termination Specifications

| Line Side   | Wire Size<br>(CU Stranded) | Torque                | Wires /<br>Terminal | Wire Class (UL) <sup>1</sup> |
|---|----------------------------|-----------------------|---------------------|------------------------------|
|  | 350 - 300 kcmil            | 31.1 N·m (275 lbf·in) | 1                   | B, C                         |
|   | 250 - 2                    | 31.1 N·m (275 lbf·in) | 1                   | B, C, G, H, I (DLO)          |
|   | 4 - 6                      | 31.1 N·m (275 lbf·in) | 1                   | B, C                         |

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

| Load Side   | Termination<br>Type              | Torque                   | Stud Length      | Maximum<br>Lug/Bar Width |
|---|----------------------------------|--------------------------|------------------|--------------------------|
|  | Listed lugs on<br>3/8 - 16 studs | 21.7 N·m<br>(192 lbf·in) | 1 1/8"<br>(29mm) | 1.16"<br>(29.5mm)        |

- For use with conductors prepared with listed connectors such as single hole compression/crimp lugs or listed ring, fork or spade terminals.
- Conductor size, ampacity, temperature rating and type are dictated by the ratings of the listed lugs utilized and applicable code requirements.

<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 Class | Suitable Copper Conductors |           | Max Overcurrent Protection Fuse Required Amp Rating / Class |     |     |     |    |    | SCCR RMS Sym. Amps 600V. Max |
|------------|----------------------------|-----------|---|-----|-----|-----|----|----|------------------------------|
|            | Line                       | Load      | J   | T   | RK1 | RK5 | G  | CC |                              |
| B, C       | 350 - 4                    | 350 - 4   | 400   | 400 | 400 | 100 | 60 | 30 | 65,000                       |
| G, H, I    | 250 - 1/0                  | 250 - 1/0 | 300   | 300 | 200 | 100 | 60 | 30 | 65,000                       |
| (*)        | 350 - 6                    | Lugs      | 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 not to exceed 30 lbf-in (3.4 N-m).
- Covers:
  - Flat covers available upon request
  - Catalog Number: CC 143x (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

