



**marathon™**  
Special Products

Product Data Sheet

**132X580**

*Replace "x" with 1, 2, or 3 for number of poles  
132X580 CH for attached hinged cover*

Power Terminal Block

**175 Amps 600 Volts AC/DC**

### Wire Range

- Line: (1) 2/0 - #14 AWG
- Load: (6) 4 - #14 AWG

### Electrical Ratings

- 175 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

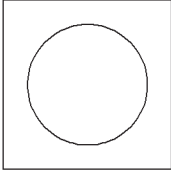
### Material Information

- Insulator base:
  - Thermoplastic
  - Flammability rating of insulator base UL94V0
  - Insulator base temperature rating: -40°C to 125°C (UL RTI)
- Connector: aluminum, tin plated
- Line terminal screw: aluminum, tin plated
- Load terminal screws: steel, nickel plated
- Connector mounting screws: steel, zinc plated
- RoHS compliant

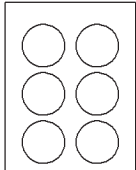
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## Termination Specifications

| Line Side   | Wire Size (CU Stranded) | Torque                | Wires / Terminal | Wire Class (UL) <sup>1</sup> |
|---|-------------------------|-----------------------|------------------|------------------------------|
|  | 2/0 - 1/0               | 13.6 N·m (120 lbf·in) | 1                | B, C                         |
|   | 1 - 6                   | 13.6 N·m (120 lbf·in) | 1                | B, C, G, H, I (DLO)          |
|   | 8                       | 4.5 N·m (40 lbf·in)   | 1                | B, C, G, H, I (DLO)          |
|   | 10 - 14                 | 4 N·m (35 lbf·in)     | 1                | B, C, I (DLO)                |

- Aluminum stranded wire range: 2/0 - #6 AWG
- Solid copper wire range: 10 - 14 AWG
- Wire strip length: 3/4 in. (19mm)
- Terminal screw drive: 5/16 in. hex

| Load Side   | Wire Size (CU Stranded) | Torque            | Wires / Terminal | Wire Class (UL) <sup>1</sup> |
|---|-------------------------|-------------------|------------------|------------------------------|
|  | 4                       | 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 - 4            | B, C                         |
| 1 - 2   |                         |                   | I (DLO)          |                              |

- Aluminum stranded wire range: #6 AWG
- Solid copper wire range: 10 - 14 AWG
- Wire strip length: 3/4 in. (19mm)
- Terminal screw drive: 1/8 in. hex

<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<br>Amp Rating / Class |     |     |     |    |    | SCCR RMS Sym. Amps<br>600V. Max |
|-----------|---------------------|--------|---|-----|-----|-----|----|----|---------------------------------|
|           | Line                | Load   | J   | T   | RK1 | RK5 | G  | CC |                                 |
| B, C      | 2/0 - 6             | 4 - 12 | 200   | 200 | 100 | 60  | 60 | 30 | 100,000                         |
| B, C      | 2/0 - 10            | 4 - 14 | 150   | 150 | 100 | 30  | 60 | 30 | 100,000                         |
| G, H, I   | 1 - 6               | 6 - 10 | 150   | 150 | 100 | 30  | 60 | 30 | 100,000                         |
| (*)       | 2/0 - 14            | 4 - 14 | None  |     |     |     |    |    | 10,000                          |

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

### SCCR With Circuit Breakers

| Suitable Conductors |        | Overcurrent Protection <b>Circuit Breaker</b> Required |          | Max AMP | Volts Max | SCCR RMS Sym. Amps |
|---------------------|--------|--|----------|---------|-----------|--------------------|
| Line                | Load   | MFR  | TYPE     |         |           |                    |
| 2/0 - 10            | 4 - 10 | Square D   | JJL36250 | 600     | 480       | 65,000             |
|                     |        |  | JJL36250 | 600     | 600       | 25,000             |

## Installation & Accessories

- Mounting (Panel or Din):
  - For use with #10 fastener.
  - Torque mounting fastener to 25-30 lbf-in (2.8 - 3.4 N·m).
  - 7.5 X 35 mm din rail mountable
  - When mounting four or five pole products, mounting on opposite corners at ends are recommended
- Covers:
  - Snap on, hinge covers available upon request
  - Catalog Number: CH132x (replace "x" with number of poles)
  - Covers are black thermoplastic
  - Accessory covers are not intended to provide insulation for electrical spacings.
- Insulator base adders and 1 pole product can be snapped together through integral dovetails to create variable pole power blocks
- Marker Strip: white vinyl strip with mounting screws available.
- Printing options available, consult customer service for specifications

## Drawing

