

## POWER DISTRIBUTION BLOCK

# 134x588

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



### Wire Range

- Line: (1) 600kcmil - #2 AWG (300mm<sup>2</sup> - 25mm<sup>2</sup>)
- Load: (3) 1/0 - #14 AWG (50mm<sup>2</sup> - 2.5mm<sup>2</sup>) and  
(6) #2 - 14 AWG (25mm<sup>2</sup> - 2.5mm<sup>2</sup>)

### Electrical Ratings

- 420 Amps
- 600V per UL 1953 & CSA 22.2 No.158, class B & C requirements
- Short Circuit Current Rating (SCCR): See SCCR Section for Specifications
- CU7AL - 75°C connector terminal rating with copper or aluminum wire
- Factory & Field Wiring

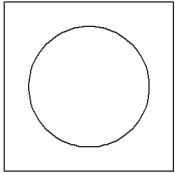
### Agency Compliance

- cULus - UL Listed, investigated to UL 1953, UL File QPQS.E309401 and UL evaluated to CSA 22.2 No 158 File no. QPQS7.309401

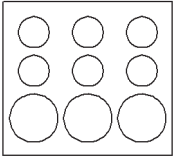
### Material Information

- 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 set screw: aluminum, tin plated
- Load terminal set 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> |
|---|-------------------------|-----------------------|------------------|------------------------------|
|  | 600 - 500 kcmil         | 42.4 N·m (375 lbf·in) | 1                | B, C                         |
|   | 400 - 2                 | 42.4 N·m (375 lbf·in) | 1                | B, C, G, H, I (DLO)          |

- Aluminum stranded wire range: 600 kcmil - #2 AWG
- Wire strip length: 1 9/16in. (40mm)
- Terminal screw drive: 1/2in. hex

| Load Side  | Terminal  | Wire Size (CU Stranded) | Torque                | Wires / Terminal  | Wire Class (UL) <sup>1</sup> |         |
|--|-----------|-------------------------|-----------------------|-------------------|------------------------------|---------|
|  | 1/0 - #14 | 1/0 AWG                 | 13.6 N·m (120 lbf·in) | 1                 | B, C                         |         |
|  |           | 1                       | 13.6 N·m (120 lbf·in) | 1                 | B, C, G, H, I (DLO)          |         |
|  |           | 2 - 6                   | 6.8 N·m (60 lbf·in)   | 1                 | B, C, G, H, I (DLO)          |         |
|  |           | 8                       | 4 N·m (35 lbf·in)     | 1                 | B, C, G, H, I (DLO)          |         |
|  |           | 10 - 14                 | 4 N·m (35 lbf·in)     | 1                 | B, C, G, H, I (DLO)          |         |
|  | #2 - 14   | 2 AWG                   | 5.7 N·m (50 lbf·in)   | 1                 | B, C                         |         |
|  |           | 4 - 6                   | 5.1 N·m (45 lbf·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                      | 4 N·m (35 lbf·in)     | 1-2               | B, C, I (DLO)                |         |
|  |           | 12 - 14                 | 1 - 2                 | 4 N·m (35 lbf·in) | 1 - 2                        | I (DLO) |
|  |           |                         | 1 - 4                 |                   | B, C                         |         |

- Solid copper wire range: #10 - 14 AWG
- Aluminum stranded wire range: 1/0 - 6 & #2 - 6 AWG
- Wire strip length:
  - top row: 1/2 in. (13mm)
  - middle row: 11/16 in. (18mm)
  - bottom row tap: 15/16 in. (24mm)
- Terminal screw drive: 5/32 in. hex & 3/16 in. hex

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

<sup>2</sup> Multiple wire rating applies to class B, C, & I.

## 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 – For SCCR’s greater than the default of 10KA, the minimum enclosure size is 16x12x6. When using the default rating, there are no enclosure limitations other than proper fit of the product.

## SCCR With Fuses

| Wire Class    | Suitable Conductors |              | Max Overcurrent Protection Fuse Required Amp Rating / Class |     |     |     |    |    | SCCR RMS Sym. Amps 600V. Max |
|---------------|---------------------|--------------|---|-----|-----|-----|----|----|------------------------------|
|               | Line                | Load - L/S*  | J   | T   | RK1 | RK5 | G  | CC |                              |
| B, C          | 600 - 3/0           | 1/0 - 8 (L)  | 500   | 500 | 400 | 200 | 60 | 30 | 100,000                      |
|               |                     | 2 - 8 (S)    |   |     |     |     |    |    |                              |
|               | 600 - 2             | 1/0 - 10 (L) | 300   | 300 | 200 | 100 | 60 | 30 | 100,000                      |
|               |                     | 2 - 10 (S)   |   |     |     |     |    |    |                              |
| G, H, I (DLO) | 350 - 3/0           | 1 - 8 (L)    | 500   | 500 | 400 | 200 | 60 | 30 | 100,000                      |
|               |                     | 4 - 8 (S)    |   |     |     |     |    |    |                              |
|               | 350 - 2             | 1 - 10 (L)   | 300   | 300 | 200 | 100 | 60 | 30 | 100,000                      |
|               |                     | 4 - 10 (S)   |   |     |     |     |    |    |                              |
| (**)          | 600 - 2             | 1/0 - 14     | None (Default Rating)                                       |     |     |     |    |    | 10,000                       |

\* Refers to either the larger (L) or smaller (S) of the two load side terminals.

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

## Installation & Accessories

- Mounting (Panel):
  - For use with #10 fastener. ( #8 washer recommended with SHCS)
  - Mounting torque to be determined in end use application not to exceed 30 in lbs (3.4 N.m)
- Cover:
  - Snap on hinge cover available upon request
  - Catalog number:
    - For 3-Pole (1343xxx), CH1343
    - For 2-Pole (1342xxx), CH1341 (2x For each pole)
    - For 1-Pole (1341xxx), CH1341
  - Cover is back thermoplastic

**Drawing**

