



**marathon**<sup>™</sup>  
Special Products

## Product Data Sheet

# 141X400

*Replace "x" with 1, 2, 3 or 4 for number of poles*

Power Terminal Block

## 115 Amps 600 Volts AC/DC

### Wire Range

- Line: (1) #2-#14 AWG
- Load: (4) #10-#18 AWG

### Electrical Ratings

- 115 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

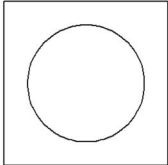
### Material Information

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

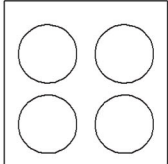
A Regal Brand

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## Termination Specifications

| Load Side                                                                         | Wire Size (CU Stranded) | Torque              | Wires / Terminal | Wire Class (UL) <sup>1</sup> |
|-----------------------------------------------------------------------------------|-------------------------|---------------------|------------------|------------------------------|
|  | 2                       | 5.6 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                | B, C, G, H, I (DLO)          |
|                                                                                   | 10 - 14                 | 4 N·m (35 lbf·in)   | 1                | B, C, I (DLO)                |

- Aluminum wire range: 2 - 12 AWG
- Solid copper wire range: 10 - 14 AWG
- Wire strip length: 1/2 in. (13 mm)
- Terminal screw drive: slotted

| Load Side                                                                           | Wire Size (CU Stranded) | Torque            | Wires / Terminal   | Wire Class (UL) <sup>1</sup> |
|-------------------------------------------------------------------------------------|-------------------------|-------------------|--------------------|------------------------------|
|  | 10 - 12                 | .8 N·m (7 lbf·in) | 1                  | B, C, I (DLO)                |
|                                                                                     | 14                      | .8 N·m (7 lbf·in) | 1 - 2 <sup>2</sup> | B, C, I (DLO)                |
|                                                                                     | 16 - 18                 | .8 N·m (7 lbf·in) | 1                  | B, C                         |

- Solid copper wire range: 10-18 AWG
- Wire strip length:
  - top row: 3/8in. (10mm)
  - bottom row: 5/8in. (16mm)
- Terminal screw drive: slotted

<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-I only. Classes B & C are rated for 1 wire per terminal.

## 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 600V. Max |
|-----------|---------------------|---------|-----------------------------------------------------------------------|-----|-----|-----|----|----|------------------------------|
|           | Line                | Load    | J                                                                     | T   | RK1 | RK5 | G  | CC |                              |
| B, C      | 2 - 6               | 10      | 200                                                                   | 200 | 200 | 60  | 60 | 30 | 100,000                      |
| B, C      | 2 - 10              | 10 - 14 | 150                                                                   | 150 | 100 | 30  | 60 | 30 | 100,000                      |
| G, H, I   | 4 - 10              | 10 - 14 | 150                                                                   | 150 | 100 | 30  | 60 | 30 | 100,000                      |
| (*)       | 2 - 14              | 10 - 18 | 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 600V. Max |
|---------------------|--------|--------------------------------------------------------|----------|---------|-----------|------------------------------|
| Line                | Load   | MFR                                                    | TYPE     |         |           |                              |
| 2 - 6 AWG           | 10 AWG | Square-D                                               | JDL36250 | 250     | 480       | 18,000                       |
|                     |        | Square-D                                               | JGL36250 | 250     | 480       | 35,000                       |
|                     |        | Square-D                                               | JJL36250 | 250     | 480       | 65,000                       |
|                     |        | Square-D                                               | JLL36250 | 250     | 480       | 65,000                       |
| 8 - 10 AWG          | 14 AWG | Square-D                                               | JDL36250 | 250     | 480       | 18,000                       |
|                     |        | Square-D                                               | JGL36250 | 250     | 480       | 35,000                       |
|                     |        | Square-D                                               | JJL36250 | 250     | 480       | 65,000                       |
|                     |        | Square-D                                               | JLL36250 | 250     | 480       | 65,000                       |
|                     |        | Square-D                                               | HDL36100 | 250     | 480       | 18,000                       |
|                     |        | Square-D                                               | HGL36100 | 250     | 480       | 35,000                       |
|                     |        | Square-D                                               | HJL36100 | 250     | 480       | 65,000                       |
|                     |        | Square-D                                               | HLL36100 | 250     | 480       | 65,000                       |

## Installation & Accessories

- Mounting (Panel):
  - For use with #10 fastener.
  - Recommended mounting torque: 25-30 lbf·in (2.8 - 3.4 N·m).
- Covers:
  - Snap-on covers available upon request
  - Catalog Number: CC141x (replace "x" with number of poles)
  - Covers are semiclear polycarbonate
  - Accessory covers are not intended to provide insulation for electrical spacings.

## Drawing

