



## Product Data Sheet

# EPBAP45

Power Distribution Block

## 200 Amps 600 Volts AC/DC

### Wire Range

- Line: (1) 3/0 - #14 AWG (70 mm<sup>2</sup> - 2.5 mm<sup>2</sup>)
- Load: (4) #2 - #14 AWG (25 mm<sup>2</sup> - 2.5 mm<sup>2</sup>)

### Electrical Ratings

- 200 Amps
- 600V per UL 1953 & CSA 22.2 No.158, class B & C requirements
- 1000 V AC/DC per IEC 60947-7-1 (CE)
- Short circuit current ratings (SCCR): See SCCR section below for specifications.
- CU7AL - 75°C connector terminal rating with copper or aluminum wire
- Touch protection: IP-20 (IEC 60529)
- Factory & Field Wiring

### Agency Compliance

- UL Listed, Investigated to UL 1953, File QPQS.E309401
- CSA - certified to C22.2 No. 158, File No. LR19766 (Copper wire only, Class B,C)
- CE compliant to IEC 60947-7-1

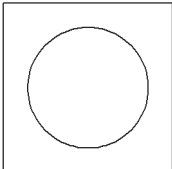
### Material Information

- 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 set screws: steel, nickel plated
- Connector mounting screws: steel, zinc plated
- RoHS compliant

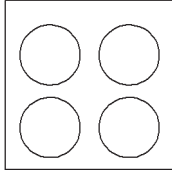
A Regal Brand

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## Termination Specifications

| Line Side                                                                         | Wire Size<br>(CU Stranded) | Torque                   | Wires /<br>Terminal | Wire Class (UL) <sup>1</sup> |
|-----------------------------------------------------------------------------------|----------------------------|--------------------------|---------------------|------------------------------|
|  | 3/0                        | 20.3 N·m<br>(180 lbf·in) | 1                   | B, C                         |
|                                                                                   | 2/0 - 2                    | 20.3 N·m<br>(180 lbf·in) | 1                   | B, C, G, H, I (DLO)          |
|                                                                                   | 4                          | 20.3 N·m<br>(180 lbf·in) | 1                   | B, C, G, H, I (DLO)          |
|                                                                                   | 4                          | 20.3 N·m<br>(180 lbf·in) | 1 - 2               | B, C                         |
|                                                                                   | 6 - 8                      | 20.3 N·m<br>(180 lbf·in) | 1 - 2               | B, C, G, H, I (DLO)          |
|                                                                                   | 10 - 14                    | 5.6 N·m (50 lbf·in)      | 1 - 2               | B, C, I (DLO)                |

- Aluminum stranded wire range: 3/0 - 6 AWG
- Copper solid wire range: 10 - 14 AWG
- Wire strip length: 7/8 in. (18mm)
- IP-20 protection: 3/0 - 2
- Terminal screw drive: 6 mm. hex

| Load Side                                                                           | Wire Size<br>(CU Stranded) | Torque              | Wires /<br>Terminal | Wire Class (UL) <sup>1</sup> |
|-------------------------------------------------------------------------------------|----------------------------|---------------------|---------------------|------------------------------|
|  | 2                          | 5.7 N·m (50 lbf·in) | 1                   | B, C                         |
|                                                                                     | 4 - 6                      | 5.7 N·m (50 lbf·in) | 1                   | B, C, G, H, I (DLO)          |
|                                                                                     | 8                          | 5.7 N·m (50 lbf·in) | 1 - 2               | B, C, G, H, I (DLO)          |
|                                                                                     | 10                         | 4.5 N·m (40 lbf·in) | 1 - 2               | B, C, I (DLO)                |
|                                                                                     | 12 - 14                    | 4.5 N·m (40 lbf·in) | 1 - 4               | B, C, I (DLO)                |

- Aluminum stranded wire range: 2 - 6 AWG
- Copper solid wire range: 10 - 14 AWG
- Wire strip length: 11/16 in. (17mm)
- IP-20 protection: 2 - 14
- Terminal screw drive: 4 mm. hex

<sup>1</sup> For information on copper stranded wire classes please visit:  
<http://www.marathonsp.com/CatalogPDFs/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 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       | 3/0 - 8             | 2 - 8  | 225                                                            | 225 | 200 | 60  | 60 | 30 | 100,000                            |
| B, C       | 3/0 - 8             | 8 - 14 | 100                                                            | 110 | 100 | 30  | 60 | 30 | 100,000                            |
| B, C       | 3/0 - 10            | 2 - 14 | 60                                                             | 60  | 30  | -   | 50 | 30 | 100,000                            |
| B, C       | (1) 8               | (2) 14 | 225                                                            | 225 | 100 | 60  | 60 | 30 | 100,000                            |
| G, H, I    | 2/0 - 8             | 4 - 8  | 225                                                            | 225 | 200 | 60  | 60 | 30 | 100,000                            |
| G, H, I    | 2/0 - 8             | 8 - 12 | 100                                                            | 110 | 100 | 30  | 60 | 30 | 100,000                            |
| (*)        | 3/0 - 14            | 2 - 14 | None                                                           |     |     |     |    |    | 10,000                             |

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

### SCCR With Circuit Breakers

| Wire Class | Suitable Conductors |        | Overcurrent Protection Circuit Required |                                            |              |                      | Voltage AC<br>Max |
|------------|---------------------|--------|-----------------------------------------|--------------------------------------------|--------------|----------------------|-------------------|
|            | Line                | Load   | Manufacturer                            | Type                                       | Max Amperage | SCCR RMS<br>sym AMPs |                   |
| B, C       | 3/0 - 8             | 2 - 12 | Allen Bradley                           | 140G-J6<br>140G-J0<br>140G-J15<br>140MG-J8 | 250          | 65kA                 | 480               |
| B, C       | 3/0 - 4             | 2 - 10 | Square D                                | JDL36250                                   | 250          | 18kA                 | 480               |
|            |                     |        |                                         | JGL36250                                   | 250          | 35kA                 |                   |
|            |                     |        |                                         | JJL36250                                   | 250          | 65kA                 |                   |
|            |                     |        |                                         | JLL36250                                   | 250          | 65kA                 |                   |

## Installation & Accessories

- Mounting (Panel):
  - For use with M6 or #10 fastener.
  - Mounting torque to be determined in end use application not to exceed 30 lbf·in (3.4 N·m).
- Marker cards:
  - White plastic inserts: EPB Marker Card
- Allen wrenches (6mm):
 

|                         | 4 mm          | 6 mm    |
|-------------------------|---------------|---------|
| • S & K tools           | 45954         | 45956   |
| • Snap-on tools         | FAML4E FAML6E |         |
| • MAC tools             | XDLS4MM       | XDLS6MM |
| • McMaster Carr 8367A22 | 8367A24       |         |
| • Armstrong             | 38-709        | 38-711  |

## Drawing

