



Product Data Sheet EPBAP45

Power Distribution Block

200 Amps 600 Volts AC/DC

Wire Range

- Line: (1) 3/0 - #14 AWG (70 mm² - 2.5 mm²)
- Load: (4) #2 - #14 AWG (25 mm² - 2.5 mm²)

Electrical Ratings

- 200 Amps
- 600V per UL 1059 & 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

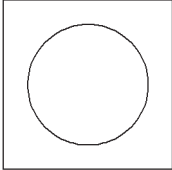
Material Information

- 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

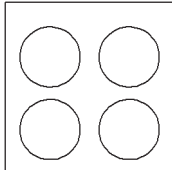
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Termination Specifications

| Line Side | Wire Size (CU Stranded) | Torque | Wires / Terminal | Wire Class (UL) ¹ |
|---|-------------------------|-----------------------|------------------|------------------------------|
|  | 3/0 | 20.3 N·m (180 lbf·in) | 1 | B, C |
| | 2/0 - 2 | 20.3 N·m (180 lbf·in) | 1 | B, C, G, H, I (DLO) |
| | 4 | 20.3 N·m (180 lbf·in) | 1 | B, C, G, H, I (DLO) |
| | 4 | 20.3 N·m (180 lbf·in) | 1 - 2 | B, C |
| | 6 - 8 | 20.3 N·m (180 lbf·in) | 1 - 2 | B, C, G, H, I (DLO) |
| | 10 - 14 | 5.6 N·m (50 lbf·in) | 1 - 2 | B, C, G, H, 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 (CU Stranded) | Torque | Wires / Terminal | Wire Class (UL) ¹ |
|---|-------------------------|---------------------|------------------|------------------------------|
|  | 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, G, H, I (DLO) |
| | 12 - 14 | 4.5 N·m (40 lbf·in) | 1 - 4 | B, C, G, H, 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: 5 mm. hex

¹ 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 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 | 3/0 - 8 | 2 - 8 | 225 | 225 | 200 | 60 | 60 | 30 | 100,000 |
| B, C | 3/0 - 8 | 8 - 12 | 100 | 110 | 100 | 30 | 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)

Installation & Accessories

- Mounting (Panel):
 - For use with #10 fastener.
 - Torque mounting fastener to 25-30 lbf·in (2.8 - 3.4 N·m).
- End Brackets: MSK35
- Marker cards:
 - White plastic inserts: EPB Marker Card
- Allen wrenches (6mm):

| | 5 mm | 6 mm |
|-----------------|-------------|-------------|
| • S & K tools | 45955 | 45956 |
| • Snap-on tools | FAML5E | FAML6E |
| • MAC tools | XDLS5MM | XDLS6MM |
| • McMaster Carr | 8367A23 | 8367A24 |
| • Armstrong | 38-709 | 38-711 |

Drawing

