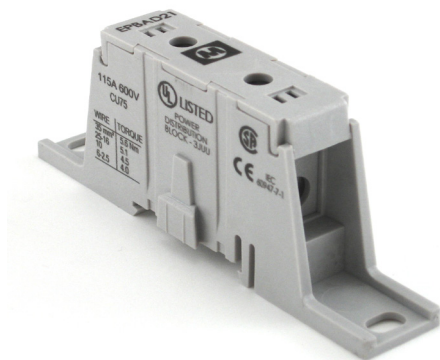




## Product Data Sheet

# EPBAD21

Power Distribution Block

## 115 Amps 600 Volts AC/DC

### Wire Range

- Line: (1) 2 - #14 AWG (35 - 2.5 mm<sup>2</sup>)
- Load: (1) 2 - #14 AWG (35 - 2.5 mm<sup>2</sup>)

### Electrical Ratings

- 115 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 (wire classes B & C only)
- CE compliant to IEC 60947-7-1

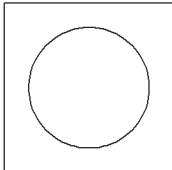
### Material Information

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

A Regal Brand

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## Termination Specifications

| Line & Load Side                                                                  | Wire Size<br>(CU Stranded) | Torque             | Wires /<br>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                    | 4.0 N·m(35 lbf·in) | 1                   | B, C, G, H, I (DLO)          |

- Wire strip length: 5/8 in. (16mm)
- Terminal screw drive: 5/32 hex
- IP-20 Protection: 2 - #14 AWG

<sup>1</sup> For information on copper stranded wire classes please reference:  
<http://www.marathonsp.com/CatalogPDFs/Flexible-Stranded-Wire.pdf>

## 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 10X8X4 enclosure. Use in smaller enclosures is subject to end use evaluation.

### SCCR With Fuses

| Wire<br>Class | Suitable<br>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          | 2 - 14                 | 2 - 14 | 175                                                            | 225 | 100 | 60  | 60 | 30 | 100,000                            |
| G, H, I       | 4 - 14                 | 4 - 14 | 175                                                            | 225 | 100 | 60  | 60 | 30 | 100,000                            |
| (*)           | 2 - 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 Max |
|------------|---------------------|--------|-----------------------------------------|----------|--------------|-------------------|----------------|
|            | Line                | Load   | Manufacturer                            | Type     | Max Amperage | SCCR RMS sym AMPs |                |
| B, C       | 2 - 4               | 2 - 4  | Square D                                | JDL32650 | 250          | 18kA              | 480            |
|            |                     |        |                                         | JGL36250 | 250          | 35kA              |                |
|            |                     |        |                                         | JJL36250 | 250          | 65kA              |                |
|            |                     |        |                                         | JLL36250 | 250          | 65kA              |                |
| B,C        | 2 - 12              | 2 - 12 | Square D                                | HDL36150 | 150          | 18kA              | 480            |
|            |                     |        |                                         | HGL36150 | 150          | 35kA              |                |
|            |                     |        |                                         | HJL36150 | 150          | 65kA              |                |
|            |                     |        |                                         | HLL36150 | 150          | 65kA              |                |
| B,C        | 2 - 12              | 2 - 12 | Square D                                | BDL36125 | 125          | 18kA              | 480            |
|            |                     |        |                                         | BGL36125 | 125          | 35kA              |                |
|            |                     |        |                                         | BJL36125 | 125          | 65kA              |                |

## Installation & Accessories

- Mounting (Panel or DIN):
  - For use with #10 fastener.
  - Mounting torque to be determined in end use application not to exceed 30 lbf-in (3.4 N-m).
- Din-Rail mountable on 7.5 X 35 mm rail.
- When mounting blocks on Din rail, it is recommended to individually mount power blocks. Multi-line configurations become increasingly difficult to mount as the line length increases.
- Marker cards:
  - White plastic inserts: EPB Marker Card
- Available drivers with part numbers are as follows:
  - Armstrong Ind. hand tools - #37-703 or #10-745
  - McMaster Carr - #5557A39 or #54875A46

## Drawing

