



## Product Data Sheet

# EPBAP81

Enclosed Power Distribution Block

## 760 Amps 600 Volts AC/DC

### Wire Range

- Line: (2) 500 kcmil - #4 AWG (240mm<sup>2</sup> - 25 mm<sup>2</sup> Class 2)
- Load: (2) 500 kcmil - #4 AWG (240 mm<sup>2</sup> - 25 mm<sup>2</sup> Class 2)

### Electrical Ratings

- 760 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

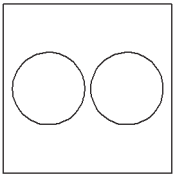
### Agency Compliance

- UL - UL Listed Terminal Block, Evaluated to UL 1953, File No.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: aluminum, tin plated
- Connector mounting screw: steel, zinc plated
- RoHS compliant

## Termination Specifications

Line & Load Side	Wire Size (CU Stranded)	Torque	Wires / Terminal	Wire Class (UL) <sup>1</sup>
	500 kcmil - 4 AWG	42.3 N·m (375 lbf·in)	1	B, C
	350 kcmil - 2 AWG	42.3 N·m (375 lbf·in)	1	B, C, G, H, I (DLO)

- Suitable for Class 2 Metric Wire 240 -25 mm<sup>2</sup>
- Aluminum stranded wire range: 500 kcmil - 4 AWG
- Wire strip length: 1 1/2 in. (38mm)
- IP-20 protection:
  - Wire present and break-away tab installed - wire range: 3/0 - #4 AWG
  - Wire present and break-away tab removed - wire range: 500 kcmil - 4/0
  - No wire is present - remove tab and use plug (Catalog No. EPB-Plug-500)
- Terminal screw drive: 8 mm hex

## 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 16X14X6 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	500 - 4	500 - 4	600	600	600	200	60	30	100,000
G, H, I, DLO	350 - 2	350 - 2	600	600	600	200	60	30	100,000

Suitable for Class 2 Metric Wire 240 - 25 mm<sup>2</sup>

## Installation & Accessories

- Mounting (Panel):
  - For use with 1/4" (6 mm) fasteners.
  - Mounting torque to be determined in end use application not to exceed 30 lbf-in (4.5 N-m)
- Safety plugs: Line/Load side - EPB Plug 500 (when break-away tab is removed)
- Marker cards:
  - White plastic inserts: EPB Marker Card
- Allen wrenches:

- |                 |         |
|-----------------|---------|
|                 | 8mm     |
| • S & K tools   | 45958   |
| • Snap-on tools | FAML8E  |
| • MAC tools     | XDLS8MM |
| • McMaster Carr | 8367A26 |

## Drawing

