



## Product Data Sheet

# EPBCP42

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: (1) 3/0 - #14 AWG (70 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.
- CU9AL - 90°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

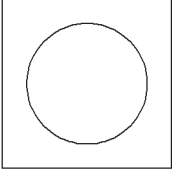
### Material Information

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

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## Termination Specifications

Line & Load Side	Wire Size (CU Stranded)	Torque	Wires / Terminal	Wire Class (UL) <sup>1</sup>
	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)

- 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

<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 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	3/0 - 8	225	225	200	60	60	30	100,000
G, H, I	2/0 - 8	2/0 - 8	300	300	200	100	60	30	100,000

\* 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	3/0 - 4	3/0 - 8	Square D	JDL32650	250	18kA	480
				JGL36250	250	35kA	
				JJL36250	250	65kA	
				JLL36250	250	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 35 X 7.5, 2m long, slotted: MN35-2
  
- End Brackets: MSK35
  
- Marker cards:
  - White plastic inserts: EPB Marker Card
  
- Allen wrenches (6mm):
  - S & K tools                    45956
  - Snap-on tools                FAML6E
  - MAC tools                      XDLS6MM
  - McMaster Carr 8367A24
  - Armstrong                      38-711

Drawing

