

## Product Data Sheet

# EPBCP45

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
- 1000V AC/DC per IEC 60947-7-1 (CE)
- Short circuit current ratings (SCCR): See SCCR section below for specifications.
- CU9 - 90°C connector terminal rating with copper 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

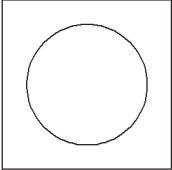
### Material Information

- 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

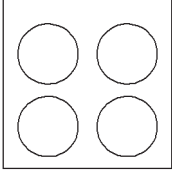
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## Termination Specifications

Line 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, 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

Load Side	Wire Size (CU Stranded)	Torque	Wires / 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, G, H, I (DLO)
	12 - 14	4.5 N·m (40 lbf·in)	1 - 4	B, C, G, H, I (DLO)

- 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/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)

### 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	2/0 - 8	2 - 10	Allen Bradley	140G-J6 140G-J0 140G-J15 140MG-J8	250	65 kA	480
B, C	3-10	(1) 3 - 10 with (1) 10	Siemens	NCGA	80	35 kA	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 to mark circuits available.
  - Printing options available, consult customer service for specifications.
  
- 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	38-707	38-711

## Drawing

