



marathon[™]
Special Products

Product Data Sheet

EPBCP45

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.
- 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

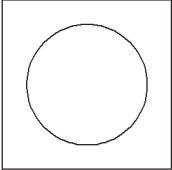
Material Information

- 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

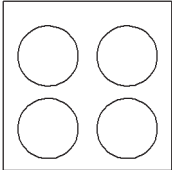
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Termination Specifications

Line Side	Wire Size (CU Stranded)	Torque	Wires / Terminal	Wire Class (UL) 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)

- 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

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)

- Copper solid wire range: 10 - 14 AWG
- Wire strip length: 11/16 in. (17mm)
- IP-20 protection: 2 - 14
- Terminal screw drive 5 mm

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)

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

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 to mark circuits available.
 - Printing options available, consult customer service for specifications.
- 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

