



marathon®
Special Products

Product Data Sheet

EPBAP45

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.
- 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 (Copper wire only, Class B,C)
- CE compliant to IEC 60947-7-1

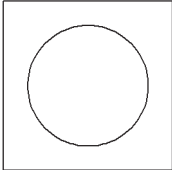
Material Information

- 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

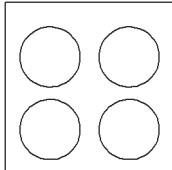
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Termination Specifications

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, I (DLO)

- Aluminum stranded wire range: 3/0 - 6 AWG
- 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) 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, I (DLO)
	12 - 14	4.5 N·m (40 lbf·in)	1 - 4	B, C, I (DLO)

- Aluminum stranded wire range: 2 - 6 AWG
- 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

¹ For information on copper stranded wire classes please visit:
<http://www.marathonsp.com/CatalogPDFs/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 - 14	100	110	100	30	60	30	100,000
B, C	3/0 - 10	2 - 14	60	60	30	-	50	30	100,000
B, C	(1) 8	(2) 14	225	225	100	60	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	65kA	480

Installation & Accessories

- Mounting (Panel):
 - For use with M6 or #10 fastener.
 - Torque mounting fastener to 25-30 lbf-in (2.8 - 3.4 N·m).
- Marker cards:
 - White plastic inserts: EPB Marker Card
- 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	38-709	38-711

Drawing

