



marathon™
Special Products

Product Data Sheet EPBCP74

Power Distribution Block

335 Amps 600 Volts AC/DC

Wire Range

- Line: (1) 400kcmil - #6 AWG (185 - 16 mm²) and (1) 3/0 - #14 (70 - 2.5 mm²)
- Load: (8) #2 - 14 AWG (35 - 2.5 mm²)

Electrical Ratings

- 335 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

- UR - UL Recognized Terminal Block, Evaluated to UL 1059, File No.XCFR2.E62806
- CSA - certified to C22.2 No. 158, File No. LR19766 (wire classes B & C only)
- CE compliant to IEC 60947-7-1

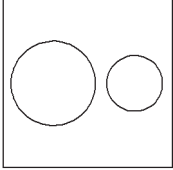
Material Information

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

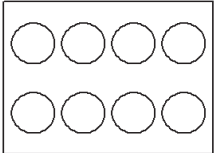
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Termination Specifications

Line Side	Terminal	Wire Size (CU Stranded)	Torque	Wires / Terminal	Wire Class (UL) ¹
	400 - 6	400 - 2/0	42.4 N·m (375 lbf·in)	1	B, C, G, H, I (DLO)
		1/0 - 2	31.1 N·m (275 lbf·in)	1	B, C, G, H, I (DLO)
		4 - 6	31.1 N·m (275 lbf·in)	1	B, C
	3/0 - 14	3/0	13.6 N·m (120 lbf·in)	1	B, C
		2/0 - 1	13.6 N·m (120 lbf·in)	1	B, C, G, H, I (DLO)
		2 - 6	9.0 N·m (80 lbf·in)	1	B, C, G, H, I (DLO)
		8	4.5 N·m (40 lbf·in)	1	B, C, G, H, I (DLO)
		10 - 14	4.5 N·m (40 lbf·in)	1	B, C, I (DLO)

- Wire strip length: 1 7/16 in (36mm) & 1 in. (25mm)
- IP-20 protection: 400 kcmil - 300 kcmil & 3/0 - 4 AWG
- Terminal screw drive: 8 mm & 6 mm hex

Load Side	Wire Size (CU Stranded)	Torque	Wires / Terminal	Wire Class (UL) ¹
	2 - 4	9.0 N·m (80 lbf·in)	1	B, C, G, H, I (DLO)
	6	9.0 N·m (80 lbf·in)	1 - 2	B, C, G, H, I (DLO)
	8	4.5 N·m (40 lbf·in)	1 - 2	B, C, G, H, I (DLO)
	10 - 14	4.5 N·m (40 lbf·in)	1 - 4	B, C, I (DLO)

- Wire strip length: 5/8 in. (16mm)
- IP-20 protection: 2 - 12 AWG
- Terminal screw drive: 5 mm hex

¹ 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	400 - 3/0	2 - 8	400	400	400	200	60	30	100,000
B, C	400 - 6	2 - 10	200	200	200	100	60	30	100,000
B, C	6	(2) 12	225	225	100	60	60	30	100,000
G, H, I	400 - 6	2 - 10	300	300	200	100	60	30	100,000
(*)	400-6 & 2/0-14	2 - 14	None						10,000

* Any wire class evaluated (see terminal specification section)

Installation & Accessories

- Mounting (Panel):
 - For use with M6 fasteners.
 - Torque mounting fastener to 30-40 lbf·in (3.4 - 4.5 N·m).
- Safety plugs: EPB Plug 400 Line side, EPB Plug 2/0 Line side, EPB Plug 2 Load side
- Marker cards:
 - White plastic inserts: EPB Marker Card

- Allen wrenches (6mm):

	5 mm	6 mm	8mm
• S & K tools	45955	45956	45958
• Snap-on tools	FAML5E	FAML6E	FAML8E
• MAC tools	XDLS5MM	XDLS6MM	XDLS8MM
• McMaster Carr	8367A23	8367A24	8367A26
• Armstrong	38-709	38-711	38-713

Drawing

