



marathon™
Special Products

Product Data Sheet EPBAP71

Power Terminal Block

510 Amps 600 Volts AC/DC

Wire Range

- Line: (2) 250 kcmil - #6 AWG (120 mm² - 16 mm²)
- Load: (2) 250 kcmil - #6 AWG (120 mm² - 16 mm²)

Electrical Ratings

- 510 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

- 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

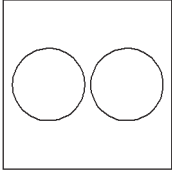
Material Information

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

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Termination Specifications

Line & Load Side	Wire Size (CU Stranded)	Torque	Wires / Terminal	Wire Class (UL) ¹
	250 kcmil - 1	31.1 N·m (275 lbf·in)	1	B, C, G, H, I (DLO)
	2	13.6 N·m (120 lbf·in)	1	B, C, G, H, I (DLO)
	4 - 6	13.6 N·m (120 lbf·in)	1	B, C

- Aluminum stranded wire range: 250 kcmil - 6 AWG
- Wire strip length: 1 3/8 in. (35mm)
- IP-20 protection: 250 - 4/0 kcmil
- Terminal screw drive: 8 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	250 - 1/0	250 - 1/0	600	600					50,000
B, C	250 - 1/0	250 - 1/0	400	400	400	200	60	30	100,000
B, C	250 - 6	250 - 6	400	400	400	100	60	30	100,000
G, H, I	250 - 1/0	250 - 1/0	300	300	200	100	60	30	100,000
(*)	250 - 6	250 - 6	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).
- End Brackets: MSK35
- Safety plug: EPB Plug 250
- Marker cards:
 - White plastic inserts: EPB Marker Card
- Allen wrenches:

	8mm
• S & K tools	45958
• Snap-on tools	FAML8E
• MAC tools	XDLS8MM
• McMaster Carr	8367A26

Drawing

