



**marathon**<sup>®</sup>  
Special Products

## Product Data Sheet EPBCP71

Power Terminal Block

### 510 Amps 600 Volts AC/DC

#### Wire Range

- Line: (2) 250 kcmil - #6 AWG (120 mm<sup>2</sup> - 16 mm<sup>2</sup>)
- Load: (2) 250 kcmil - #6 AWG (120 mm<sup>2</sup> - 16 mm<sup>2</sup>)

#### 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.
- 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

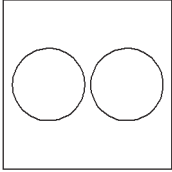
- Insulator base:
  - Thermoplastic
  - Flammability rating of insulator base UL94V0
  - Insulator base temperature rating: -40°C to 125°C (UL RTI)
- Connector: copper, tin plated
- Terminal set screws: aluminum, tin plated
- Connector mounting screw and roll pins: steel, zinc plated
- RoHS compliant

A Regal Brand

**REGAL**

[www.regalbeloit.com](http://www.regalbeloit.com)

## Termination Specifications

Line & Load Side	Wire Size (CU Stranded)	Torque	Wires / Terminal	Wire Class (UL) <sup>1</sup>
	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

- Wire strip length: 1 3/8 in. (35mm)
- IP-20 protection: 250 - 4/0 kcmil
- Terminal screw drive: 8 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 <b>Fuse</b> 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:
 

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

## Drawing

