



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

Product Data Sheet

**133X597**

*Replace "x" with 1, 2, or 3 for number of poles  
Add suffix "CH" for snap-on hinged cover*  
Power Terminal Block

## 510 Amps 600 Volts AC/DC

### Wire Range

- Line: (2) 250kcmil - 1/0
- Load: (8) #2 - 14 AWG

### Electrical Ratings

- 510 Amps
- 600V per UL 1059 & CSA22.2 No.158, Class B & C requirements
- Short circuit current ratings (SCCR): See SCCR section below for specifications.
- CU7AL - 75°C connector terminal rating with copper or aluminum wire
- Factory & Field Wiring

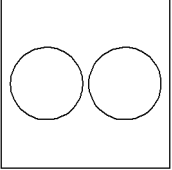
### Agency Compliance

- 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
- Line terminal screws: aluminum, tin plated
- Load terminal screws: steel, nickel plated
- Connector mounting screws: steel, zinc plated
- RoHS compliant

## Termination Specifications

Line Side	Wire Size (CU Stranded)	Torque	Wires / Terminal	Wire Class (UL) <sup>1</sup>
	250 kcmil	31.1 N·m (275 lbf·in)	1	B, C
	4/0	31.1 N·m (275 lbf·in)	1	B, C, G, H
	3/0 - 1/0	31.1 N·m (275 lbf·in)	1	B, C, G, H, I (DLO)

- Aluminum stranded wire range: 250 kcmil - 1/0 AWG
- Wire strip length: 1 9/16in. (40mm)
- Terminal screw drive: 5/16 in. hex

Load Side	Wire Size (CU Stranded)	Torque	Wires / Terminal	Wire Class (UL) <sup>1</sup>
	2 AWG	5.6 N·m (50 lbf·in)	1	B, C
	4 - 6	5.1 N·m (45 lbf·in)	1	B, C, G, H, I (DLO)
	8	4.5 N·m (40 lbf·in)	1 - 2 <sup>2</sup>	B, C, G, H, I (DLO)
	10	4 N·m (35 lbf·in)	1 - 2	B, C, I (DLO)
	12 - 14	4 N·m (35 lbf·in)	1 - 4	B, C
1 - 2			I (DLO)	

- Solid copper wire range: #10 - 14 AWG
- Aluminum stranded wire range: 2 - 14 AWG
- Wire strip length:
  - top row: 11/16in. (17mm)
  - bottom row: 1 1/8 in. (29mm)
- Terminal screw drive: 5/32 in. hex

<sup>1</sup> For information on copper stranded wire classes please reference:  
<http://www.marathonsp.com/CatalogPDFs/Flexible-Stranded-Wire.pdf>

<sup>2</sup> Multiple wire rating applies to class B, C, & I.

## 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	2 - 8	350	350	200	100	60	30	100,000
G, H, I	3/0 - 1/0	4 - 14	150	150	100	30	60	30	100,000
(*)	250 - 1/0	2 - 14	None						10,000

\* Any wire class evaluated (see terminal specification section)

## Installation & Accessories

- Mounting (Panel):
  - For use with #10 fastener.
  - Torque mounting fastener to 25-30 lbf·in (2.8 - 3.4 N·m).
- Covers:
  - Snap-on hinge covers available upon request
  - Catalog Number: CH133x (replace "x" with number of poles)
  - Covers are black thermoplastic
  - Accessory covers are not intended to provide insulation for electrical spacings.
- Marker Strip: white vinyl strip with mounting screws available.
- Printing options available, consult customer service for specifications.

**Drawing**

