



## 420 Amps 600 Volts AC/DC

### Wire Range

- Line: (1) 600kcmil - #2 AWG
- Load: (3) 1/0 - #14 AWG and (6) #2 - 14

### Electrical Ratings

- 420 Amps
- 600V per UL 1059 & CSA 22.2 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

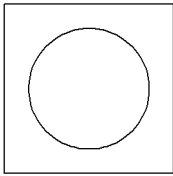
### Agency Compliance

- 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

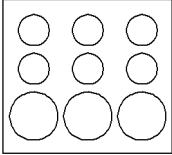
### Material Information

- 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 screw: 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>
	600 - 500 kcmil	42.4 N·m (375 lbf·in)	1	B, C
	400 - 2	42.4 N·m (375 lbf·in)	1	B, C, G, H

- Aluminum stranded wire range: 600 kcmil - #2 AWG
- Wire strip length: 1 9/16in. (40mm)
- Terminal screw drive: 1/2in. hex

Load Side	Terminal	Wire Size (CU Stranded)	Torque	Wires / Terminal	Wire Class (UL) <sup>1</sup>	
	1/0-#14	1/0 AWG	13.6 N·m (120 lbf·in)	1	B, C	
		1	13.6 N·m (120 lbf·in)	1	B, C, G, H, I (DLO)	
		2-6	6.8 N·m (60 lbf·in)	1	B, C, G, H, I (DLO)	
		8	4 N·m (35 lbf·in)	1	B, C, G, H, I (DLO)	
		10 - 14	4 N·m (35 lbf·in)	1	B, C, I (DLO)	
	#2-14	2 AWG	5.7 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, I (DLO)	
		10 - 14	1-4	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: 1/0 - 14 & #2 - 14 AWG
- Wire strip length:
  - top row: 1/2 in. (13mm)
  - middle row: 11/16 in. (18mm)
  - bottom row tap: 15/16 in. (24mm)
- Terminal screw drive: 5/32 in. hex & 3/16 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	600 - 3/0	1/0 - 8	500	500	400	200	60	30	100,000
B, C	600 - 2	1/0 - 10	200	200	200	100	60	30	100,000
G, H, I	350 - 2	1 - 8	500	500	400	200	60	30	100,000
G, H, I	350 - 2	1 - 10	200	200	200	100	60	30	100,000
(*)	600 - 2	1/0 - 14, 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**

