

## POWER DISTRIBUTION BLOCK

# 1343588



### Wire Range

- Line: (1) 600kcmil - #2 AWG (300mm<sup>2</sup> - 25mm<sup>2</sup>)
- Load: (3) 1/0 - #14 AWG and (6) #2 - 14 (50mm<sup>2</sup> - 2.5mm<sup>2</sup>) (25mm<sup>2</sup> - 2.5mm<sup>2</sup>)

### Electrical Ratings

- 420 Amps
- 600V per UL 1059 & CSA 22.2 No.158, class B & C requirements
- Short Circuit Current Rating (SCCR): See SCCR Section for Specifications
- CU7AL - 75°C connector terminal rating with copper or aluminum wire
- Factory & Field Wiring

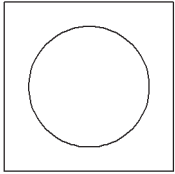
### Agency Compliance

- UL Listed, Investigated to UL 1953, File QPOS7.E309401

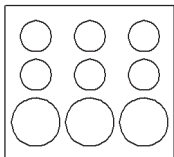
### Material Information

- 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 set screw: aluminum, tin plated
- Load terminal set 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, I (DLO)

- 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, G, H, 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, G, H, I (DLO)	
		10	4 N·m (35 lbf·in)	1-2	B, C, I (DLO)	
		12 - 14	1 - 2	4 N·m (35 lbf·in)	1 - 2	I (DLO)
			1 - 4		B, C	

- Solid copper wire range: #10 - 14 AWG
- Aluminum stranded wire range: 1/0 - 6 & #2 - 6 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 visit:  
<http://www.marathonsp.com/flexible-stranded-wire.php>

<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 Fuse Required Amp Rating / Class						SCCR RMS Sym. Amps 600V. Max
	Line	Load - L/S*	J	T	RK1	RK5	G	CC	
B, C	600 - 3/0	1/0 - 8 (L)	500	500	400	200	60	30	100,000
		2 - 8 (S)							
	600 - 2	1/0 - 10 (L)	300	300	200	100	60	30	100,000
		2 - 10 (S)							
G, H, I (DLO)	350 - 3/0	1 - 8 (L)	500	500	400	200	60	30	100,000
		4 - 8 (S)							
	350 - 2	1 - 10 (L)	300	300	200	100	60	30	100,000
		4 - 10 (S)							
(**)	600 - 2	1/0 - 14	None						10,000

\* Refers to either the larger (L) or smaller (S) of the two load side terminals.

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

## Installation & Accessories

- Mounting (Panel):
  - For use with #10 fastener. ( #8 washer recommended with SHCS)
  - Mounting torque to be determined in end use application not to exceed 30 in lbs (3.4 N.m)
- Cover:
  - Snap on hinge cover available upon request
  - Catalog number: CH1343
  - Cover is back thermoplastic

**Drawing**

