

## POWER DISTRIBUTION BLOCK

# 1343597



### Wire Range

- Line: (2) 250kcmil - 6 (120mm<sup>2</sup> - 16mm<sup>2</sup>)
- Load: (8) #2 - 14 AWG (25mm<sup>2</sup> - 2.5mm<sup>2</sup>)

### Electrical Ratings

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

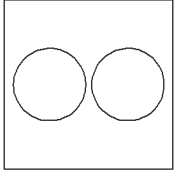
### Agency Compliance

- 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 screws: 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>
	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 - 6	31.1 N·m (275 lbf·in)	1	B, C, G, H, I (DLO)

- Aluminum stranded wire range: 250kcmil - #6 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	5.6 N·m (50 lbf·in)	1	B, C, G, H, I (DLO)
	8	4.5 N·m (40 lbf·in)	1 - 2	B, C, G, H, I (DLO)
	10	4 N·m (35 lbf·in)	1 - 2	B, C, G, H, I (DLO)
	12 - 14	4 N·m (35 lbf·in)	1 - 4	B, C
			1 - 2	G, H, I (DLO)

- Solid copper wire range: #10 - 14 AWG
- Aluminum stranded wire range: 2 - 8 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 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 Cass	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 - 4	2 - 8	400	400	400	100	60	30	100,00
B, C	250 - 4	2 - 10	250	250	200	100	60	30	100,000
B, C	250 - 6	2 - 14	None						100,000
G, H, I (DLO)	3/0 - 4	4 - 10	250	250	200	100	60	30	100,000
G, H, I (DLO)	3/0 - 6	4 - 14	125	125	100	30	60	30	100,000
*	250 - 6	2 - 14	None						10,000

\* 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

