

POWER DISTRIBUTION BLOCK

1343585

marathon®
Special Products



Wire Range

- Line: (1) 600 kcmil - #2 AWG (300mm² - 25mm²)
- Load: (8) #2 - 14 AWG (25mm² - 2.5mm²)

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

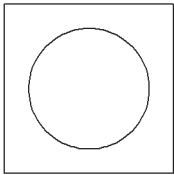
Agency Compliance

- UL Listed, Investigated to UL 1953, File QPQS7.E309401

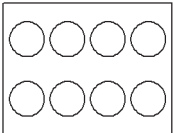
Material Information

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

Load Side	Wire Size (CU Stranded)	Torque	Wires / Terminal	Wire Class (UL) ¹
	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	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 - 6 AWG
- Wire strip length:
 - top row: 11/16 in. (17.5mm)
 - bottom row: 1 1/16. (27mm)
- Terminal screw drive: 5/32 in. hex

¹ For information on copper stranded wire classes please visit:
<http://www.marathonsp.com/flexible-stranded-wire.php>

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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.

Wire Class	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	600 - 3/0	2 - 6	450	450	400	200	60	30	100,000
B, C	600 - 2	2 - 10	250	250	200	100	60	30	100,000
B, C	600 - 2	2 - 14	125	125	100	30	60	30	100,000
G, H, I (DLO)	350 - 3/0	4 - 6	450	450	400	200	60	30	100,000
G, H, I (DLO)	350 - 2	4 - 14	125	125	100	30	60	30	100,000
*	600 - 2	2 - 14	None						10,000

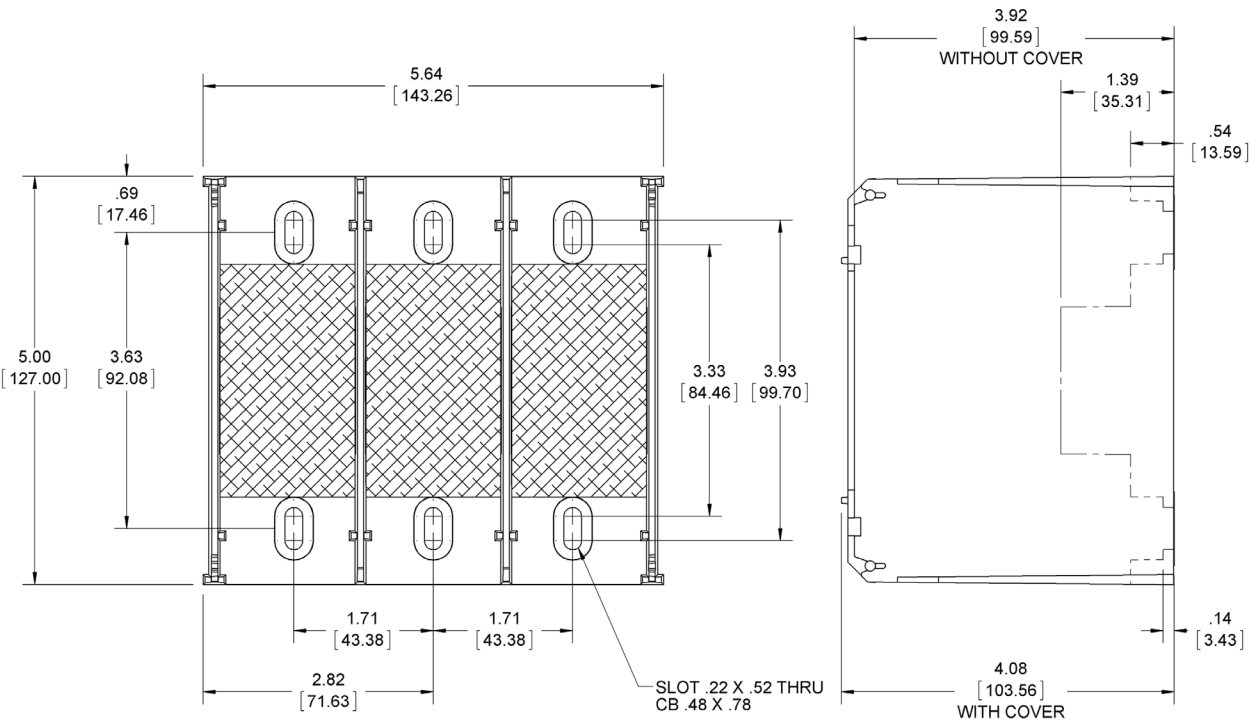
* Any wire class evaluated (see terminal specification section)

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

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Drawing



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