



marathon[™]
Special Products

Product Data Sheet

143X553

Replace "x" with 1, 2, or 3 for number of poles

Power Terminal Block

335 Amps 600 Volts AC/DC

Wire Range

- Line: (1) 400 kcmil - #6 AWG
- Load: (6) #2 - #14 AWG

Electrical Ratings

- 335 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

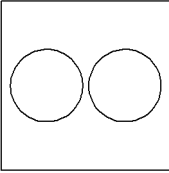
Agency Compliance

- 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

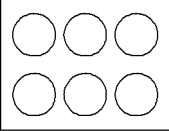
Material Information

- Insulator base:
 - Phenolic
 - Flammability rating of insulator base UL94V0
 - Insulator base temperature rating: -40°C to 150°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
	400 - 350 kcmil	31.1 N·m (275 lbf·in)	1	B, C
	300 - 2	31.1 N·m (275 lbf·in)	1	B, C, G, H, I (DLO)
	4 - 6	31.1 N·m (275 lbf·in)	1	B, C

- Aluminum wire range: 400 kcmil - #6 AWG
- Wire strip length: 1 1/16 in. (27mm)
- Terminal screw drive: 5/16 in. hex

Load Side	Wire Size (CU Stranded)	Torque	Wires / Terminal	Wire Class (UL) ¹
	2	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 ²	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 - 2	I (DLO)
1 - 4			B, C	

- Solid copper wire range: 10 - 14
- Aluminum wire range: 2 - 14 AWG
- Wire strip length:
 - top holes: 9/16 in. (14mm)
 - bottom holes: 1.0 in. (25mm)
- Terminal screw drive: slotted

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

² Multiple wire rating applies to classes B, C, & I only

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	J	T	RK1	RK5	G	CC	
B, C	400 - 3/0	2 - 8	500	500	400	200	60	30	100,000
B, C	400 - 6	2 - 10	350	350	200	100	60	30	100,000
G, H, I	2/0 - 6	2 - 14	150	150	100	30	60	30	100,000
(*)	400 - 6	2 - 14	None						10,000

* Any wire class evaluated (see terminal specification section)

SCCR With Circuit Breakers

Suitable Conductors		Overcurrent Protection Circuit Breaker Required		Max AMP	Volts Max	SCCR RMS Sym. Amps 600V. Max
Line	Load	MFR	TYPE			
400 - 3/0	2 - 8	Allen Bradley	140U-K6X3	400	480	65,000
		Allen Bradley	140U-K3X3	400	480	65,000
4/0 - 4	2 - 12	Allen Bradley	140U-J6X3	250	480	25,000
		Allen Bradley	140U-J3X3	250	480	25,000
2/0 - 6	2 - 10	Square-D	JDL36250	250	480	18,000
		Square-D	JGL36250	250	480	35,000
		Square-D	JJL36250	250	480	65,000
		Square-D	JLL36250	250	480	65,000

Installation & Accessories

- Mounting (Panel):
 - For use with #10 fastener.
 - Torque mounting fastener to 25-30 lbf-in (2.8 - 3.4 N·m).
- Covers:
 - Flat covers available upon request
 - Catalog Number: CH143x (replace "x" with number of poles)
 - Covers are clear polycarbonate
 - 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

