



**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

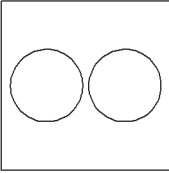
### **Material Information**

- 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

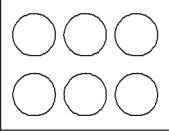
A Regal Brand

**REGAL**

## Termination Specifications

Line Side	Wire Size (CU Stranded)	Torque	Wires / Terminal	Wire Class (UL) <sup>1</sup>
	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) <sup>1</sup>
	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 <sup>2</sup>	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

<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 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 <b>Fuse</b> 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	250 - 1/0	4 - 10	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 <b>Circuit Breaker</b> 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

