



**marathon**<sup>®</sup>  
Special Products

## Product Data Sheet

# 142X570

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

Power Terminal Block

## 175 Amps 600 Volts AC/DC

### Wire Range

- Line: (1) 2/0 - #14 AWG
- Load: (4) #4- #14 AWG

### Electrical Ratings

- 175 Amps Cu/135 Amps Al
- 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

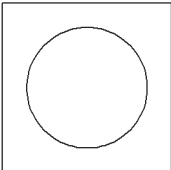
### Material Information

- Insulator base:
  - Phenolic
  - Flammability rating of insulator base UL94V0
  - Insulator base temperature rating: -40°C to 150°C (UL RTI)
- Connector: aluminum, tin plated
- Terminal screws: steel, nickel plated
- Connector mounting screws: steel, zinc plated
- RoHS compliant

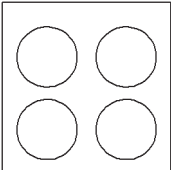
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## Termination Specifications

Line Side	Wire Size (CU Stranded)	Torque	Wires / Terminal	Wire Class (UL) <sup>1</sup>
	2/0 - 1/0	13.6 N·m (120 lbf·in)	1	B, C
	#1 - 6	13.6 N·m (120 lbf·in)	1	B, C, G, H, I (DLO)
	#8	4.5 N·m (40 lbf·in)	1	B, C, G, H, I (DLO)
	#10 - 14	4 N·m (35 lbf·in)	1	B, C, (DLO)

- Aluminum wire range: 2/0 - 6 AWG
- Solid copper wire range: 10-14 AWG
- Wire strip length: 11/16 in. (17mm)
- Terminal screw drive: 3/16in. hex

Load Side	Wire Size (CU Stranded)	Torque	Wires / Terminal	Wire Class (UL) <sup>1</sup>
	#4	4 N·m (35 lbf·in)	1	B, C
	#6 - 8	4 N·m (35 lbf·in)	1	B, C, G, H, I (DLO)
	#10-14	4 N·m (35 lbf·in)	1-2	B, C, I
	#12-14	4 N·m (35 lbf·in)	1-4	B, C

- Solid copper wire range: 10 - 14 AWG
- Wire strip length:
  - top row: 7/16 in. (11mm)
  - bottom row: 3/4 in. (19mm)
- Terminal screw drive: slotted

<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 copper 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 Type	Suitable Copper 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	2/0 - 6	4 - 10	200	200	200	100	60	30	100,000
B, C	2/0 - 10	4 - 14	150	150	100	30	60	30	100,000
B, C	6	(2) 12 or 14	225	225	100	60	60	30	100,000
G, H, I	1 - 6	6 - 12	150	150	100	30	60	30	100,000
(*)	2/0 - 14	4 - 14	None						10,000

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

### SCCR With Circuit Breakers

Suitable Copper Conductors		Overcurrent Protection Circuit Breaker Required		Max AMP	Volts Max	SCCR RMS Sym. Amps
Line	Load	MFR	TYPE			
2/0 - 1	4 - 10	Allen Bradley	140U-J3D3 140U-J6D3	250	480	18,000
2 - 4	4 - 10	Allen Bradley	140U-J3D3 140U-J6D3	250	480	18,000
2 - 6	4 - 12	Allen Bradley	140U-H3C3	125	480	30,000
6	14	Allen Bradley	140U-H6C3	125	480	22,000
2/0 - 6	4 - 12	Allen Bradley	140G-H3 <sup>++</sup>	125	480	35,000
			140G-H6 <sup>++</sup>			
			140G-H0 <sup>++</sup>			
			140G-H15 <sup>++</sup>			
			140MG-H8 <sup>++</sup>			
2/0 - 4	4 - 10	Allen Bradley	140G-J6D3	250	480	35,000

SCCR With Circuit Breakers (cont.)

Suitable Copper Conductors		Overcurrent Protection Circuit Breaker Required		Max AMP	Volts Max	SCCR RMS Sym. Amps
Line	Load	MFR	TYPE			
2/0 - 6	4 - 14	Allen Bradley	140G-H6 <sup>++</sup>	125	480	35,000
			140G-H0 <sup>++</sup>			
			140G-H15 <sup>++</sup>			
			140MG-H8 <sup>++</sup>			
2/0 - 10	4 - 10	Allen Bradley	140G-J6 <sup>+</sup>	250	480	65,000
			140G-J0 <sup>+</sup>			
			140G-J15 <sup>+</sup>			
			140MG-J8 <sup>+</sup>			

Suitable Copper Conductors		Overcurrent Protection Circuit Breaker Required		Max AMP	Volts Max	SCCR RMS Sym. Amps
Line	Load	MFR	TYPE			
2/0 - 10	4 - 10	Square-D	JGL36250	250	480	35,000
		Square-D	JJL36250	250	480	65,000
		Square-D	JLL36250	250	480	65,000
		Square-D	JDL36250	250	480	18,000
		Square-D	JJL36250	250	600	25,000

<sup>+</sup> LSI, LSIG, and thermomagnetic trip units can be used

<sup>++</sup> Only thermomagnetic trip units can be used

## Installation & Accessories

- Mounting (Panel):
  - For use with #10 fastener.
  - Mounting torques to be determined in end-use application not to exceed 30 lbf·in (3.4 N·m).
- Covers:
  - Flat covers available upon request
  - Catalog Number: CC142x (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

