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marathon® 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

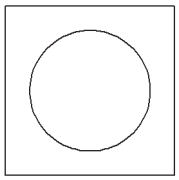
- UR - UL Recognized Terminal Block, Evaluated to UL 1059, File No.XCFR2.E62806
- CSA - certifed to C22.2 No. 158, File No. LR19766 (wire classes B & C only)
- CE compliant to IEC 60947-7-1

Material Information

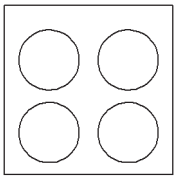
- Insulator base:
  - Phenolic
  - Flammability rating of insulator base UL94V0
  - Insulator base temperature rating: -40°C to 150°C (UL RTI)
- Connector: aluminum, tin plated
- Terminal screws: steel, nickel plated
- Connector mounting screws: steel, zinc plated
- RoHS compliant

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Special Products

Termination Specifications

Line Side	Wire Size (CU Stranded)	Torque	Wires / Terminal	Wire Class (UL) [1]
	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) [1]
	#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

[1] 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^{++}	125	480	35,000
			140G-H6^{++}			
			140G-H0^{++}			
			140G-H15^{++}			
			140MG-H8^{++}			
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++	125	480	35,000
			140G-H0++			
			140G-H15++			
			140MG-H8++			
2/0 - 10	4 - 10	Allen Bradley	140G-J6+	250	480	65,000
			140G-J0+			
			140G-J15+			
			140MG-J8+			

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

+ LSI, LSIG, and thermomagnetic trip units can be used
++ Only thermomagnetic trip units can be used

Installation & Accessories

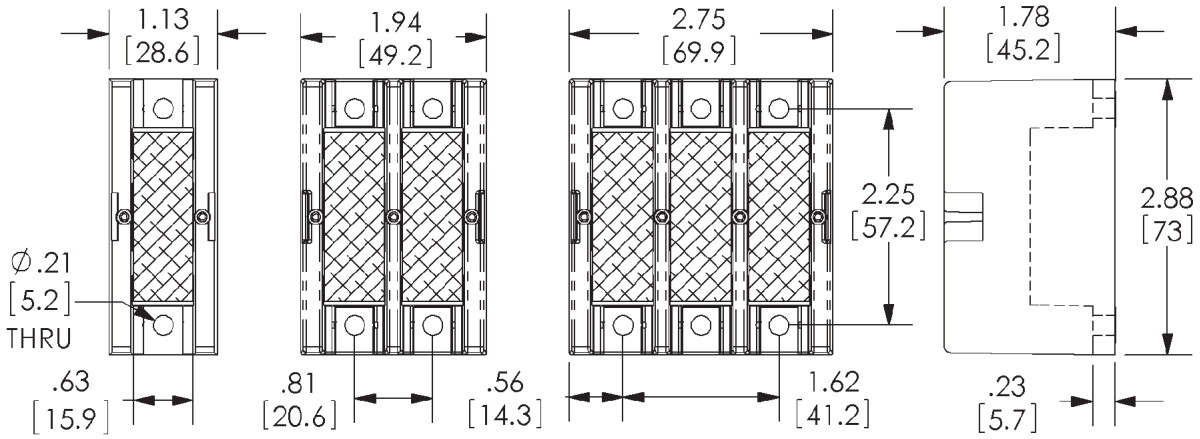
- Mounting (Panel):
  - For use with #10 fastener.
  - Mounting torques to be determined in end-use application not to exceed 30 lbf·in (3.4 N·m).

- 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



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