

Product Data Sheet

142X553

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: (1) 1/4 - 20 Tapped hole

Electrical Ratings

- 175 Amps
- 600V per UL 1059 & CSA 22.2 No.158, class B & C requirements
- SCCR of 10,000 A (default for terminal blocks). 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: aluminum, tin plated
- Connector mounting screws: steel, zinc plated
- RoHS compliant


A Regal Brand

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Termination Specifications

Line Side	Wire Size (CU Stranded)	Torque	Wires / Terminal	Wire Class (UL) ¹
	2/0 - 1/0 AWG	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, I (DLO)

- Aluminum wire range: 2/0 - 6 AWG
- Solid copper wire range: 10-14 AWG
- Wire strip length: 3/4" (19mm)
- Terminal screw drive: 3/16 in. hex

Load Side	Termination Type	Torque	Tap Depth	Maximum Lug Width
	Listed lugs anchored with 1/4 - 20 screws	4 N·m (35 lbf·in)	0.16" (4mm)	0.63" (16mm)

- For use with conductors prepared with listed connectors such as single hole compression/crimp lugs or listed ring, fork or spade terminals.
- Conductor size, ampacity, temperature rating and type are dictated by the ratings of the listed lugs utilized and applicable code requirements.

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 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	2/0 - 6	200	200	200	100	60	30	100,000
B, C	2/0 - 10	2/0 - 10	100	100	100	30	60	30	100,000
G, H, I	1 - 6	1 - 6	150	150	100	30	60	30	100,000
(*)	2/0 - 14	2/0 - 14	None						10,000

Installation & Accessories

- Mounting (Panel):
 - For use with #10 fastener.
 - Mounting torque 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.

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

Drawing

