

## Power Terminal Block

# 145x586

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



### Wire Range

- Line: (2) 500 kcmil - #6 AWG
- Load: (8) 2/0 - #14 AWG

### Electrical Ratings

- 760 Amps
- 600V per UL 1953 & 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

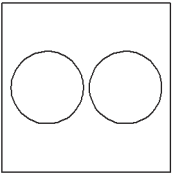
### Agency Compliance

- cULus - UL Listed, investigated to UL 1953, UL File QPQS.E309401 and UL evaluated to CSA 22.2 No 158 File no. QPQS7.309401
- 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:
  - Thermoplastic
  - Flammability rating of insulator base UL94V0
  - Insulator base temperature rating: -40°C to 125°C (UL RTI)
- Connector: aluminum, tin plated
- Terminal set screws: aluminum, tin plated
- Connector mounting screws: steel, zinc plated
- RoHS compliant

## Termination Specifications

Line Side	Wire Size (CU Stranded)	Torque	Wires / Terminal	Wire Class (UL) <sup>1</sup>
	500	42.4 N·m (375 lbf·in)	1	B, C
	400	42.4 N·m (375 lbf·in)	1	B, C, G, H
	350- 2	42.4 N·m (375 lbf·in)	1	B, C, G, H, I (DLO)
	4 - 6	42.4 N·m (375 lbf·in)	1	B, C

- Aluminum wire range: 500kcmil - #6 AWG
- Wire strip length: 1 5/16 in. (33mm)
- Terminal screw drive: 3/8 in. hex

Load 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, I (DLO)

- Solid copper wire range: #10 - 14
- Aluminum wire range: 2/0 - #12 AWG
- Wire strip length:
  - top row: 3/4 in. (19mm)
  - bottom row: 1 5/16 in. (33mm)
- Terminal screw drive: 5/16 hex

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

## 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	
B, C	500 - 250	2/0 - 4	600	600	400	200	60	30	100,000
B, C	500 - 4	2/0 - 10	350	350	200	100	60	30	100,000
G, H, I	350 - 250	1 - 4	600	600	400	200	60	30	100,000
G, H, I	350 - 4	6 - 10	350	350	200	100	60	30	100,000
(*)	500 - 6	2/0 - 14	None						10,000

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

## Installation & Accessories

- Mounting (Panel):
  - For use with 1/4 fastener.
  - Mounting torque to be determined in end use application not to exceed 40 lbf-in (4.5 Nm)
- Covers:
  - Snap on cover available upon request
  - Catalog number:
    - For 3 pole (1453xxx), CC1453
    - For 2 pole (1452xxx), CC1452
    - For 1 pole (1451xxx), CC1451
  - Cover is black thermoplastic

Drawing

