Product Data Sheet

marathon® Special Products

Power Terminal Block
145x592

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

Wire Range

- Line: (2) 500 kcmil - #6 AWG
- Load: (12) #4 - #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

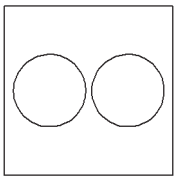
Agency Compliance

- 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 - certifed to C22.2 No. 158, File No. LR19766 (wire classes B & C only)
- CE compliant to IEC 60947-7-1

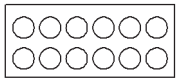
Material Information

- Insulator base:
  - Thermoplastic
  - Flammability rating of insulator base UL94V0
  - Insulator base temperature rating: -40°C to 125°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

Termination Specifications

Line Side	Wire Size (CU Stranded)	Torque	Wires / Terminal	Wire Class (UL) [1]
	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) [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	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: #4 - #6 AWG
- Wire strip length:
  - top row: 5/8 in. (16mm)
  - bottom row: 1 1/4 in. (32mm)
- Terminal screw drive: slotted

[1] 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	G	CC	
B, C	500 - 250	4 - 8	400	400	200	100	60	30	100,000
B, C	500 - 4	4 - 10	350	350	200	100	60	30	100,000
B, C	4/0 - 4	4 - 14	600	600	-	-	-	-	50,000
G, H, I	350 - 250	6 - 8	400	400	200	100	60	30	100,000
G, H, I	350 - 250	6 - 10	350	350	200	100	60	30	100,000
(*)	500 - 6	4 - 14	None						10,000

* Any wire class evaluated (see terminal specification section)

SCCR With Circuit Breakers

Suitable Conductors		Overcurrent Protection Circuit Breaker Required				Voltage AC Max
Line	Load	Manufacturer	Type	Max Amperage	SCCR RMS sym AMPs	
500 - 2/0	4 - 6	Allen Bradley	140G-K6 140G-K0 140G-K15 140MG-K8	400	65kA	480

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 abailable upon request
  - Catalog number:
    -For 3 pole (1453xxx), CC1453
    -For 2 pole (1452xxx), CC1452
    -For 1 pole (1451xxx), CC1451
  - Cover is black thermoplastic

Drawing