Product Data Sheet

marathon® Special Products

Power Terminal Block
145x599

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

Wire Range

- Line: (2) 500kcmil - #4 AWG
- Load: (2) 3/8 - 16 X 1 5/16 stud

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

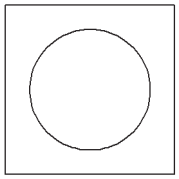
Agency Compliance

- 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
- Terminal set screws: aluminum, tin plated
- Threaded stud: brass, tin plated
- Hex nut: brass, 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 kcmil	42.4 N·m (375 lbf·in)	1	B, C
	400 - 2	42.4 N·m (375 lbf·in)	1	B, C, G, H, I (DLO)
	4	42.4 N·m (375 lbf·in)	1	B, C

- Aluminum wire range: 500kcmil - #4 AWG
- Wire strip length: 1 5/16 in. (33mm)
- Terminal screw drive: 3/8 in. hex

Load Side	Termination Type	Torque	Stud Length	Maximum Lug/Bar Width
	Listed lugs on 3/8 - 16 stud	21.7 N·m (192 lbf·in)	1 5/16″ (33mm)	2.25″ (57mm)

- 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.
- Hex nut provided: 9/16 across flats.

[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 - 4/0	500 - 4/0	600	600	400	200	60	30	100,000
B, C	500 - 4	3/0 - 4	400	400	400	100	60	30	100,000
G, H, I	350 - 4/0	350 - 4/0	600	600	400	200	60	30	100,000
G, H, I	350 - 2	350 - 2	400	400	400	100	60	30	100,000
(*)	500 - 4	500 - 4	None						10,000

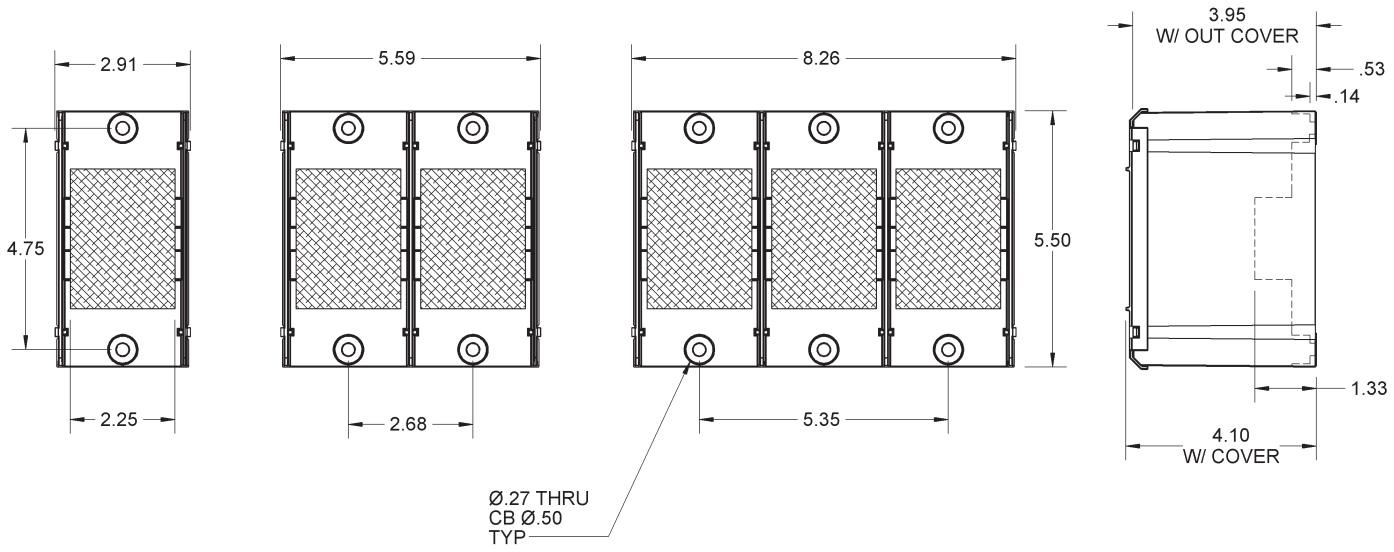
* Any wire class evaluated (see terminal specification section)

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 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


2.91
4.75
2.25
5.59
2.68
8.26
5.50
5.35
Ø.27 THRU
CB Ø.50
TYP
3.95
W/ OUT COVER
.53
.14
1.33
4.10
W/ COVER