



**marathon**<sup>™</sup>  
Special Products

Product Data Sheet

**144X557**

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

Power Terminal Block

## 420 Amps 600 Volts AC/DC

### Wire Range

- Line: (1) 600 kcmil - #4 AWG
- Load: (1) 600 kcmil - #4 AWG

### Electrical Ratings

- 420 amps
- 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

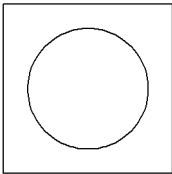
### Agency Compliance

- UR - UL Recognized Terminal Block, Evaluated to UL 1059, File No.XCFR2.E62806
- CSA - 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 set screws: aluminum, tin plated
- Connector mounting screws: steel, zinc plated
- RoHS compliant

## Termination Specifications

Line & Load Side	Wire Size (CU Stranded)	Torque	Wires / Terminal	Wire Class (UL) <sup>1</sup>
	600 - 400 kcmil	56.5 N·m (500 lbf·in)	1	B, C
	350 - 2	56.5 N·m (500 lbf·in)	1	B, C, G, H, I (DLO)
	4	56.5 N·m (500 lbf·in)	1	B, C

- Aluminum wire range: 600 kcmil - #4 AWG
- Wire strip length: 1 3/8 in. (35mm)
- Terminal screw drive: 1/2 in. (13mm) hex

<sup>1</sup> For information on copper stranded wire classes please reference:

<http://www.marathonsp.com/CatalogPDFs/Flexible-Stranded-Wire.pdf>

## 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 16x12x16 enclosure. Use in smaller enclosures is subject to end use evaluation.

### SCCR With Fuses

Wire Class	Suitable Conductors		Max Overcurrent Protection <b>Fuse</b> Required Amp Rating / Class						SCCR RMS Sym. Amps 600V. Max
	Line	Load	J	T	RK1	RK5	G	CC	
B, C	600 - 2	600 - 2	600	600					50,000
B, C	600 - 2	600 - 2	400	400	400	200	60	30	100,000
G, H, I	350 - 2	350 - 2	400	400	400	200	60	30	100,000
(*)	600 - 4	600 - 4	None						10,000

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

## Installation & Accessories

- Mounting (Panel):
  - For use with #10 fastener.
  - Torque mounting fastener to 25-30 lbf-in (2.8 - 3.4 N·m).
- Covers:
  - Flat covers available upon request
  - Catalog Number: CH144x (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

