



**marathon™**  
Special Products

Product Data Sheet

**145X579**

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

Power Terminal Block

## 380 Amps 600 Volts AC/DC

### Wire Range

- Line: (1) 500kcmil - #4 AWG
- Load: (6) 2/0 - #14 AWG

### Electrical Ratings

- 380 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

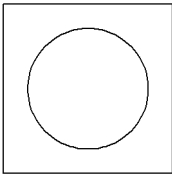
### Agency Compliance

- 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

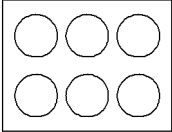
### Material Information

- 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 Side	Wire Size (CU Stranded)	Torque	Wires / Terminal	Wire Class (UL) <sup>1</sup>
	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	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 - #14 AWG
- Wire strip length:
  - top row: 3/4 in. (19mm)
  - bottom row: 1 3/16 in. (30mm)
- Terminal screw drive: 5/16 in. 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 16x12x6 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						SCCR RMS Sym. Amps 600V. Max
			Amp Rating / Class						
	Line	Load	J	T	RK1	RK5	G	CC	
B, C	500 - 3/0	2/0 - 6	400	400	400	100	60	30	100,000
B, C	500 - 4	8 - 10	200	200	200	100	60	30	100,000
G, H, I	350 - 250	1 - 4	400	400	400	100	60	30	100,000
G, H, I	350 - 2	1 - 10	250	250	200	100	60	30	100,000
(*)	500 - 4	2/0 - 14	None						10,000

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

### SCCR With Circuit Breakers

Suitable Conductors		Overcurrent Protection <b>Circuit Breaker</b> Required		Max AMP	Volts Max	SCCR RMS Sym. Amps 600V. Max
Line	Load	MFR	TYPE			
2/0 - 4	8	Square-D	JDL36250	250	480	18,000
		Square-D	JGL36250	250	480	35,000
		Square-D	JJL36250	250	480	65,000
		Square-D	JLL36250	250	480	65,000

## Installation & Accessories

- Mounting (Panel):
  - For use with 1/4 fastener.
  - Torque mounting fastener to 30-40 lbf-in (3.4 - 4.5 N·m).
- Covers:
  - Flat covers available upon request
  - Catalog Number: CH145x (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

