



## Product Data Sheet

# 145X592

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

### Power Terminal Block

## 760 Amps 600 Volts AC/DC

### Wire Range

- Line: (2) 500 kcmil - #6 AWG
- Load: (12) #4 - #14 AWG

### Electrical Ratings

- 760 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

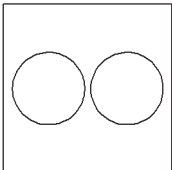
### Material Information

- Insulator base:
  - Phenolic
  - Flammability rating of insulator base UL94V0
  - Insulator base temperature rating: -40°C to 150°C (UL RTI)
- Connector: aluminum, tin plated
- Line terminal set screws: aluminum, tin plated
- Load terminal set screws: steel, nickel plated
- Connector mounting screws: steel, zinc plated
- RoHS compliant


A Regal Brand

**REGAL**

## 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>
	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

<sup>1</sup> For information on copper stranded wire classes please visit:  
<http://www.marathonsp.com/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						SCCR RMS Sym. Amps 600V. Max
			Amp Rating / Class						
	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.
  - Torque mounting fastener to 30-40 lbf·in (3.4 - 4.5 N·m).
- Covers:
  - Flat covers available upon request
  - Catalog Number: CC 145x (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

