

Power Terminal Block

132x580

Replace "x" with 1, 2 or 3 for number of poles.
132X580 CH for attached hinged cover



Wire Range

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

Electrical Ratings

- 175 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

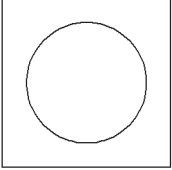
Agency Compliance

- 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

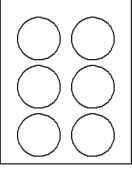
Material Information

- Insulator base:
 - Thermoplastic
 - Flammability rating of insulator base UL94V0
 - Insulator base temperature rating: -40°C to 125°C (UL RTI)
- Connector: aluminum, tin plated
- Line terminal screw: aluminum, tin plated
- Load terminal 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 |
|---|-------------------------|-----------------------|------------------|------------------------------|
|  | 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) |

- Aluminum stranded wire range: 2/0 - #6 AWG
- Solid copper wire range: 10 - 14 AWG
- Wire strip length: 3/4 in. (19mm)
- Terminal screw drive: 3/16 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 - 4 | B, C |
| | | | 1 - 2 | I (DLO) |
| | Ferrule w/8-10 | 2.8 N·m (25 lbf·in) | 1 | Prepared with UL Ferrule Terminals |
| | Ferrule w/12-14 | 2.2 N·m (20 lbf·in) | 1 | |

- Aluminum stranded wire range: #6 AWG
- Solid copper wire range: 10 - 14 AWG
- Wire strip length: 3/4 in. (19mm)
- Terminal screw drive: 1/8 in. hex

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 Type | 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 | 2/0 - 6 | 4 - 12 | 200 | 200 | 100 | 60 | 60 | 30 | 100,000 |
| B, C | 2/0 - 10 | 4 - 14 | 150 | 150 | 100 | 30 | 60 | 30 | 100,000 |
| G, H, I | 1 - 6 | 6 - 10 | 150 | 150 | 100 | 30 | 60 | 30 | 100,000 |
| B, C | 2/0-10 | Ferrule w/8-14 | 150 | 150 | 100 | 30 | 60 | 30 | 100,000 |
| G, H, I | 1-6 | Ferrule w/8-14 | 150 | 150 | 100 | 30 | 60 | 30 | 100,000 |
| (*) | 2/0 - 14 | 4 - 14 | None | | | | | | 10,000 |

* Any wire class evaluated (see terminal specification section)

SCCR With Circuit Breakers

| Suitable Conductors | | | | Overcurrent Protection Circuit Breaker Required | | Max AMP | Volts Max | SCCR RMS Sym. Amps |
|---------------------|-----------|-------------------|-------------------|---|----------|---------|-----------|--------------------|
| Line | Wire Type | Load ³ | Wire Type | MFR | TYPE | | | |
| 2/0 - #10 | B, C | #4 - #10 | B, C | Square D | JJL36250 | 600 | 480 | 65,000 |
| | | | | | JJL36250 | 600 | 600 | 25,000 |
| #1 - #2 | G | (2) #4 - (2) #10 | B, C | Siemens | 3VA5 | 250 | 480 | 65,000 |
| 2/0 - #8 | B, C | (2) #4 - (2) #10 | B, C | Siemens | 3VA5 | 250 | 480 | 65,000 |
| #1 - #2 | G | (2) #4 - (2) #10 | B, C ² | Siemens | 3VA5 | 250 | 480 | 65,000 |
| 2/0 - #8 | B, C | (2) #4 - (2) #10 | B, C ² | Siemens | 3VA5 | 250 | 480 | 65,000 |
| #1 - #2 | G | #4 - #10 | B, C | Siemens | 3VA5 | 250 | 600 | 25,000 |
| 2/0 - #8 | B, C | (2) #4 - (2) #10 | B, C | Siemens | 3VA5 | 250 | 600 | 25,000 |
| #1 - #2 | G | (2) #4 - (2) #10 | B, C ² | Siemens | 3VA5 | 250 | 600 | 25,000 |
| 2/0 - #8 | B, C | (2) #4 - (2) #10 | B, C ² | Siemens | 3VA5 | 250 | 600 | 25,000 |

² Wire types noted are ultrasonically welded wires. Unless noted, only unprepared wire has been evaluated.

³ Wire counts noted (#) are a minimum number of the the distribution wires needed to achieve this rating.

Installation & Accessories

- Mounting (Panel or Din):
 - For use with #10 fastener.
 - Mounting torque to be determined in end use application not to exceed 30 lbf in (3.4 Nm)
 - 7.5 X 35 mm din rail mountable
 - When mounting four or five pole products, mounting on opposite corners at ends are recommended
- Covers:
 - Snap on, hinge covers available upon request
 - Catalog Number: CH132x (replace "x" with number of poles)
 - Covers are black thermoplastic
 - Accessory covers are not intended to provide insulation for electrical spacings.
- 1 pole product can be snapped together through integral dovetails to create variable pole power blocks
- End bracket for din rail mounting: MSK35
- Din Rail (35 x 7.5 mm, 2 m long, slotted): MN35-2

Drawing

