

Product Data Sheet



133X597

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

Distribution Power Block
510 Amps, 600 Volts (AC/DC)



Wire Range:

Line side: (2) 250kcmil – 1/0

Load Side: (8) #2 - #14 AWG

See tables below for SCCR wire ranges, flexible stranded and multiple wire approvals.

Electrical Ratings:

- 510A copper wire, 310A aluminum wire (Based on NEC Table 310-16, 75°C columns)
- 600 Volts AC/DC (UL 1059 Class C, User Group - General Industrial)
- Factory and Field Wiring

Short Circuit Current Ratings (Copper wire only):

| Suitable (kcmil/AWG) | | Overcurrent Protection Fuse Required Class/Max Amp Rating | | | | | | SCCR, RMS SYM Amps | Volts Max |
|-------------------------|--------|--|-----|-----|-----|----|----|-----------------------|--------------|
| Line | Load | J | T | RK1 | RK5 | G | CC | | |
| 250 - 1/0 | 2 - 14 | 600 | 600 | 600 | 200 | 60 | 30 | 100,000 | 600 |

Mechanical Ratings:

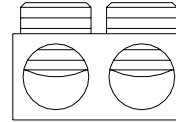
- Maximum insulator base temperature: 125°C (257°F) UL RTI
- Storage and transportation temperature range: -35°C to 110°C (-31°F to 230°F)
- Flammability rating of insulator base: UL 94 V-0
- * Use outside these ratings needs to be judged in the end-use application.

Materials:

- Connector: High conductivity aluminum, tin plated
- Insulator base: glass filled polycarbonate (thermoplastic)
- Terminal set screws: Aluminum, tin plated and Steel, nickel plated
- Connector mounting screws: Steel, zinc plated

Agency Approvals:

- UL Recognized, UL 1059 Terminal Block Standard, File No. XCFR2.E62806
- CSA Certified, CSA C22.2 No. 158, File No. LR19766 (Wire Classes B & C only)
- CE compliant to IEC 60947-7-1
- RoHS Compliant



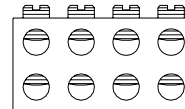
Wire Approvals:

Line Side Wire Approvals:

| | | Copper Wire Stranding Classes - Number of Strands | | | | | | |
|-----------|-------------|---|---------|---------|---------|---------|---------|---------|
| Wire Size | Torque | Solid | Class B | Class C | Class G | Class H | Class I | Class K |
| 250 kcmil | 275 in. lbs | | 37 | 61 | | | | |
| 4/0 | 275 in. lbs | | 19 | 37 | ~ 133 | ~ 259 | | |
| 3/0 | 275 in. lbs | | 19 | 37 | ~ 133 | ~ 259 | ~ 418 | ~ 1666 |
| 2/0 | 275 in. lbs | | 19 | 37 | ~ 133 | ~ 259 | ~ 342 | ~ 1323 |
| 1/0 | 275 in. lbs | | 19 | 37 | ~ 133 | ~ 259 | ~ 266 | ~ 1064 |

~Quantity of strands for Classes G, H, I, K may vary by manufacturer.

Aluminum stranded wire range: 250kcmil – 1/0



Load Side Wire Approvals:

| | | Copper Wire Stranding Classes - Number of Strands | | | | | | |
|-----------|------------|---|----------|-----------|---------|---------|-------------|--------------|
| Wire Size | Torque | Solid | Class B | Class C | Class G | Class H | Class I | Class K |
| 2 AWG | 50 in. lbs | | 7 | 19 | | | | |
| 4 | 45 in. lbs | | 7 | 19 | ~ 49 | ~ 133 | ~ 105 | ~ 420 |
| 6 | 45 in. lbs | | 7 | 19 | ~ 49 | ~ 133 | ~ 63 | ~ 266 |
| 8 | 40 in. lbs | | (1-2)* 7 | (1-2)* 19 | ~ 49 | ~ 133 | (1-2)* ~ 41 | (1-2)* ~ 168 |
| 10 | 35 in. lbs | 1 | (1-2)* 7 | (1-2)* 19 | | | (1-2)* ~ 27 | (1-2)* ~ 104 |
| 12 | 35 in. lbs | 1 | (1-4)* 7 | (1-4)* 19 | | | (1-2)* ~ 19 | (1-2)* ~ 65 |
| 14 | 35 in. lbs | 1 | (1-4)* 7 | (1-4)* 19 | | | (1-2)* ~ 19 | (1-2)* ~ 41 |

~ Quantity of strands for Classes G, H, I, K may vary by manufacturer.

* Multiple conductor approvals for **LOAD** side only. (copper wire only)

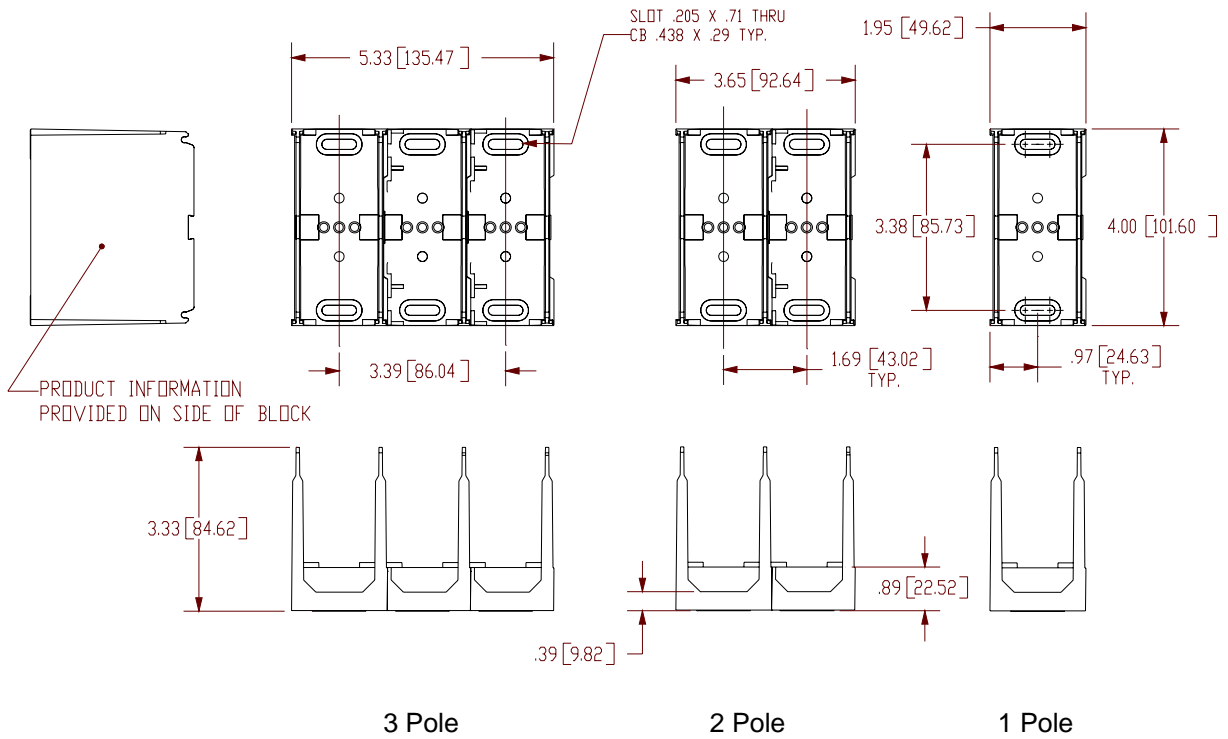
Aluminum stranded wire ranges: #2 – #14 AWG

- Wire strip length, line side tap – 1 9/16"
- Wire strip length, load side tap, top row – 1 1/16", bottom row – 1 1/8"
- Hex keys required: line side - 5/16", load side - 5/32"

- Panel mountable: #10 fastener, torque to 25-30 in. lbs.

Accessories:

- Snap-on hinged covers: CH 133X (Replace "X" with 1, 2 or 3 for number of poles) UL recognized, glass filled polycarbonate (thermoplastic) 125 °C (UL RTI), UL 94 V-0.
- Marker Strips. Printing available. Consult factory.



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1-419-352-8441