

# Product Data Sheet



## 133X596

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

**Distribution Power Block**  
**510 Amps, 600 Volts (AC/DC) UL**  
**1.000V AC/DC CE (IEC 60947-7-1)**



### Wire Range:

Line side: (2) 250kcmil – 1/0  
 Load Side: (12) #4 - #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)
- UL/CSA Voltage Rating: 600 Volts AC/DC (UL 1059 Class C, User Group - General Industrial)
- CE Rated Voltage (U<sub>i</sub>): 1,000 V AC/DC per IEC 60947-7-1
- Material Group: IIIa
- Pollution Degree: 3
- Factory and Field Wiring

### Short Circuit Current Ratings (Copper wire only):

Suitable Conductors (kcmil/AWG)		Wire Classes	Overcurrent Protection Fuse Required Class/Max Amp Rating						SCCR, RMS SYM Amps
Line	Load		J	T	RK1	RK5	G	CC	
250 - 1/0	4 - 14	B, C	600	600	600	200	60	30	100,000
3/0 - 1/0	4 - 14	G, H, I, K	150	150	100	30	60	30	100,000

- Minimum Enclosure size to maintain Short Circuit Current Ratings: 16 X 12 X 6

### Mechanical Ratings:

- Insulator base and cover temperature rating: -40°C/F to 125°C (257°F) UL RTI
- Flammability rating of insulator base: UL 94 V-0
- \* Use outside these ratings needs to be judged in the end-use application.

**Materials:**

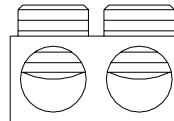
- Connector: High conductivity aluminum, tin plated
- Insulator base: Glass filled polycarbonate (Thermoplastic)
- Terminal set screws: Steel, nickel plated and Aluminum, tin plated
- Connector mounting screws: Steel, zinc plated

**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

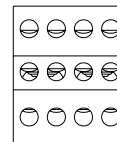
**Wire Approvals:**

**Line Side Wire Approvals:**



Wire Size	Torque		Copper Wire Stranding Classes - Number of Conductors						
	N-m	In. lbs	Solid	Class B	Class C	Class G	Class H	Class I	Class K
250 kcmil	31.1	275		1	1				
4/0	31.1	275		1	1	1	1		
3/0	31.1	275		1	1	1	1	1	1
2/0	31.1	275		1	1	1	1	1	1
1/0	31.1	275		1	1	1	1	1	1

Aluminum stranded wire range: 250kcmil – 1/0



**Load Side Wire Approvals:**

Wire Size	Torque		Copper Wire Stranding Classes - Number of Conductors						
	N-m	In. lbs	Solid	Class B	Class C	Class G	Class H	Class I	Class K
4 AWG	4.0	35		1	19				
6	4.0	35		1	19	1	1	1	1
8	4.0	35		1	19	1	1	1	1
10	4.0	35	1	1-2	1-2			1-2	1-2
12	4.0	35	1	1-4	1-4			1-2	1-2
14	4.0	35	1	1-4	1-4			1-2	1-2

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

Aluminum stranded wire ranges: #4 – #14 AWG

- Wire strip length, line side tap – 1 9/16"
- Wire strip length, load side tap, top row – 1/2", middle row – 11/16", bottom row - 15/16"
- Hex keys required: line side - 5/16", load side - 1/8"

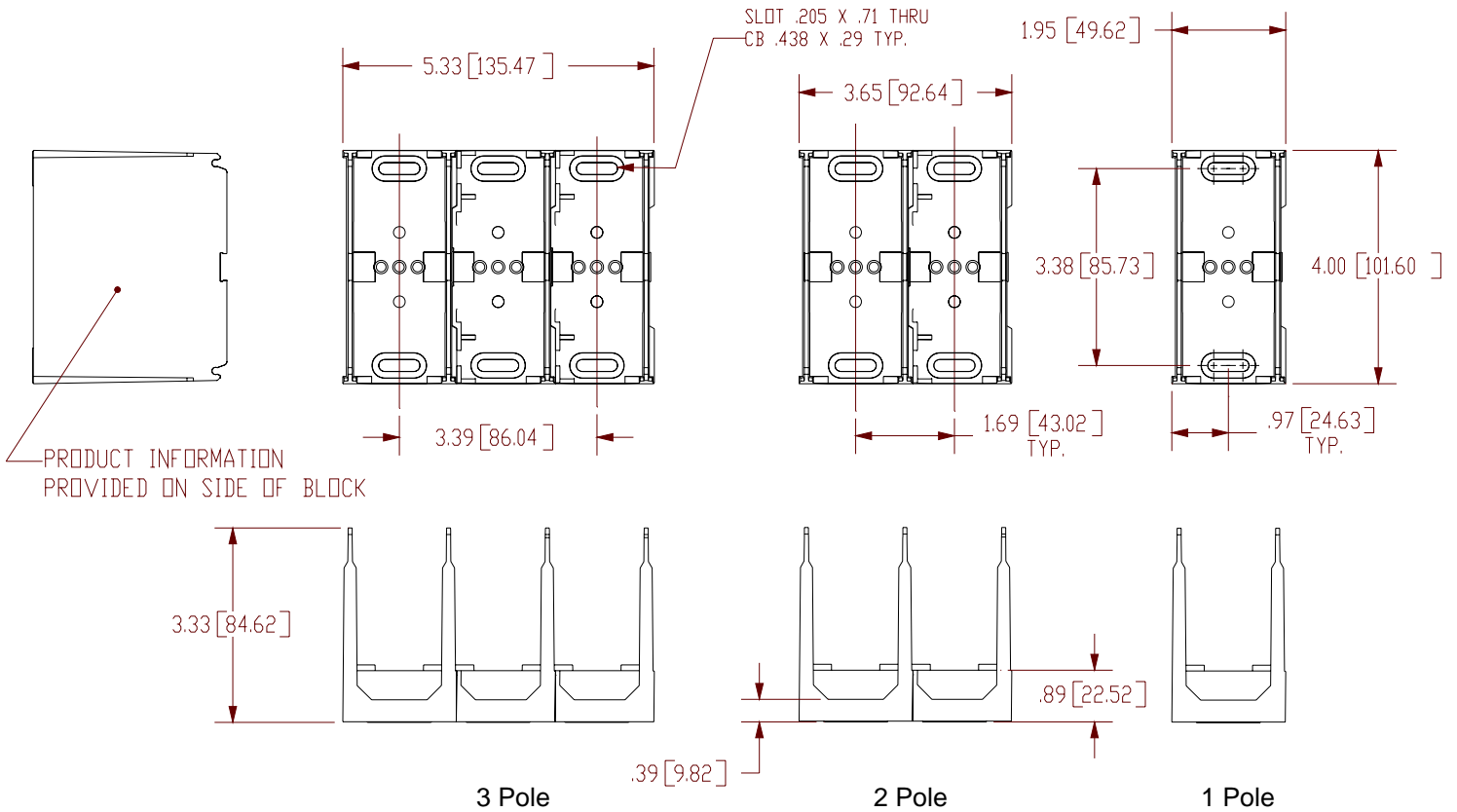
For information on copper stranded wire classes, please reference:  
<http://www.marathonsp.com/CatalogPDFs/Flexible-Stranded-Wire.pdf>

**Mounting:**

- Panel mountable: #10 fastener, Torque to 2.8 - 3.4 N-m (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 customer service.



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