

Product Data Sheet



133X597 CH

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 and cover 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 and cover: UL 94 V-0

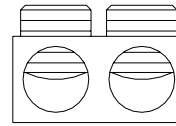
* Use outside these ratings needs to be judged in the end-use application.

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
- Hinged cover: glass filled polycarbonate (thermoplastic)

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



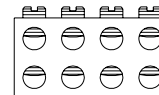
Wire Approvals:

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.

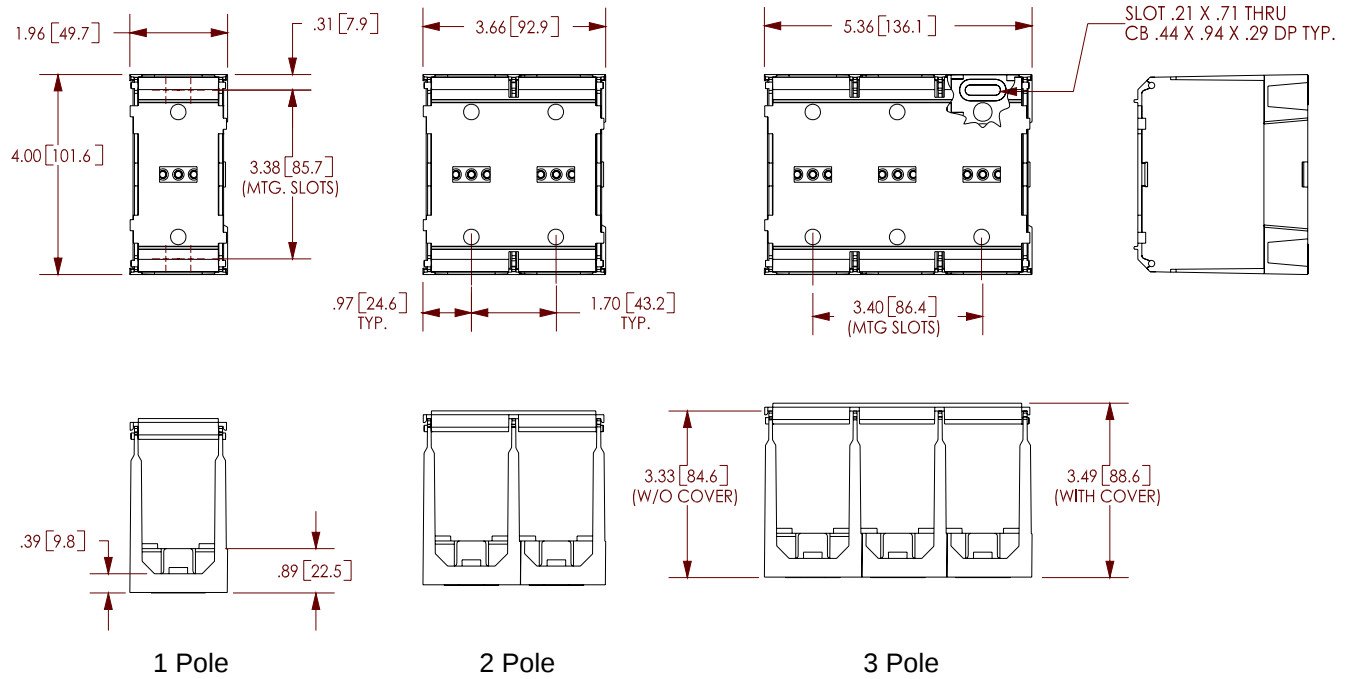
* Multiple conductor approvals for **LOAD** side only. (copper wire only)

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:

- Marker Strips. Printing available. Consult factory.



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