

# Product Data Sheet



## FPB23574

Listed Studded Power Block  
175 Amps, 600 Volts (AC/DC)



### Wire Range:

Line side: (1) 2/0 - #14 AWG  
Load Side: 1/4 - 20 Stud

See tables below for SCCR wire ranges and multiple wire approvals.

### Electrical Ratings:

- 175A copper wire, 135A aluminum wire (Based on NEC Table 310-16, 75°C columns)
- 600 Volts AC/DC (Service Equipment according to National Electrical Code, NFPA 70)
- Minimum enclosure size: 16 X 12 X 6
- Factory and Field Wiring

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

Suitable Conductors (kcmil/AWG)		Overcurrent Protection Fuse Required Class/Max Amp Rating						SCCR, RMS SYM Amps	Volts Max
Line	Load	J	T	RK1	RK5	G	CC		
2/0 - 6	2/0 - 6	200	200	200	100	60	30	100,000	600
8 - 10	8 - 10	100	100	100	30	60	30	100,000	600

		Overcurrent Protection Circuit Breaker Required			SCCR, RMS SYM Amps	Volts Max
Line	Load	Mfr	Type	Max Amp		
2/0 - 2	2/0 - 2	Square D	JLL36250	250	65,000	480

### Mechanical Ratings:

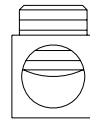
- Maximum insulator base temperature: 125°C (257°F) UL RTI
  - Maximum insulator base plate temperature: 130°C (266°F) UL RTI
  - Flammability rating of insulator base: UL 94 V-0
- \* Use outside these ratings needs to be judged in the end-use application.

**Materials:**

- Connector: High conductivity aluminum, tin plated
- Insulator base: Glass filled polycarbonate (thermoplastic)
- Insulator base plate: Phenolic laminate
- Terminal set screws: Aluminum, tin plated
- Mounting screws: Steel, zinc plated
- Nuts: Steel, zinc plated
- Stud: Brass, tin plated

**Agency Approvals:**

- UL Listed, File No. QPQS.E309401
- Investigated to UL 1953
- UL 508A Feeder Circuit Terminal Spacing for up to 600 Volts
- CSA Certified, CSA C22.2 No. 158, File No LR 19766
- 600V Rating for Class 6228 01 – Use Groups A, B, C
- CE compliant to IEC 60947-7-1
- RoHS Compliant

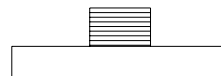
**Wire Approvals:****Line Side Wire Approvals:**

Wire Size	Torque		Copper Wire Stranding Classes - Number of Strands		
	N.m	in. lbs	Solid	Class B	Class C
2/0 AWG	13.6	120		19	37
1/0	13.6	120		19	37
1	13.6	120		19	37
2	13.6	120		7	19
4	13.6	120		7	19
6	13.6	120		7	19
8	4.5	40		7	19
10	4.0	35	1	7	19
12	4.0	35	1	7	19
14	4.0	35	1	7	19

Aluminum stranded wire range: 2/0 – 14 AWG

**Load Side Wire Approvals:**

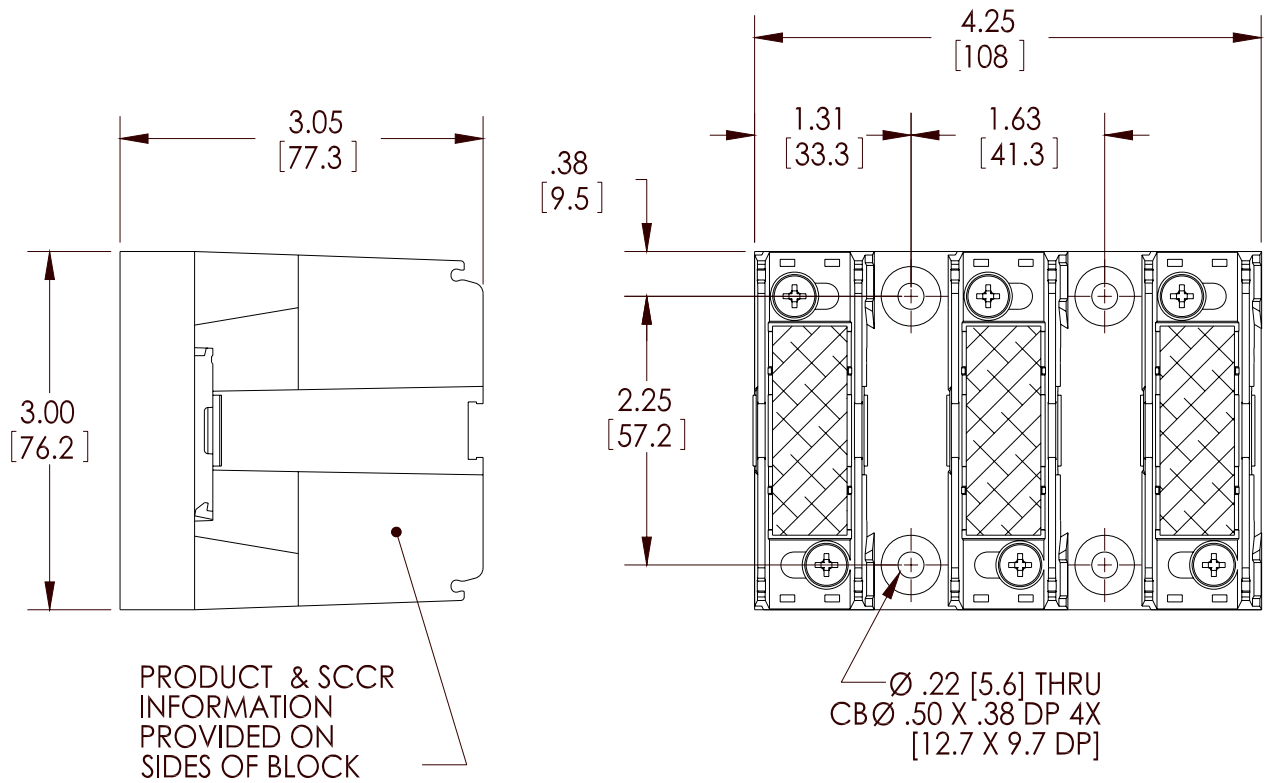
1/4 - 20 Threaded Stud: torque to 61 in. lbs.



- Wire strip length, line and load side taps – 11/16"
- Panel mountable: #10 (5 mm) fastener, torque to 25-30 in. lbs.
- Hex key needed: 5/16"

**Accessories:**

- Marker Strips to mark circuits. Printing available. Consult factory.



[WWW.MARATHONSP.COM](http://WWW.MARATHONSP.COM)  
 1-419-352-8441

PDS 0393 REV C 6/18/10