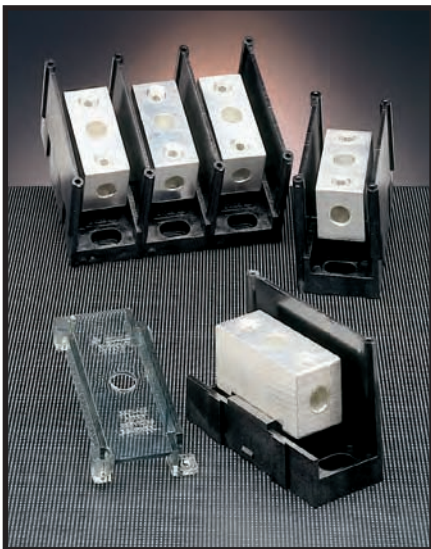


62000-69000 SERIES POWER DISTRIBUTION BLOCKS



VERSATILE POWER DISTRIBUTION BLOCKS FOR CABLE TERMINATIONS

Ferraz Shawmut Power Distribution Blocks afford a safe, convenient way of splicing cables, splitting primary power into a variety of secondary circuits or providing a fixed junction tap-off point. Power block options include single or dual primary connections with up to 30 secondary connections.

Features/Benefits

- **Adder Poles**
All series have optional adder poles which snap onto the 1, 2 or 3- pole blocks and lock together to form as many poles as required. Adder poles with a variety of terminations can be combined to match special wire size combinations.
- **Wire Connectors**
Standard aluminum box connectors accommodate aluminum or copper wire, 1 conductor per opening. Standard copper box connections are for copper wire only, 1 conductor per opening. Connectors are all 1 piece and tin plated.
- **Insulators**
Insulators are virtually unbreakable, glass-filled polycarbonate on all series. "See-Through" Safety Covers are available which give greater safety and provide Service Entrance ratings for large and intermediate series blocks.

Ratings

- Ampere ratings from 90 to 2660
- 600V rated
- Short Circuit current rating 100kA with proper fuse. Contact technical services for sizing table.

Approvals

- Most sizes are UL Recognized Component - Guide XCFR2, File E73571
- Most sizes are CSA Certified:
Series 62, 63, 66, 68 - Class 6228, File 69363
Series 67, 69 - Class 3211, File 15469

HIGHLIGHTS:

- **Mini -**
62000 and 63000 Series
- **Intermediate -**
66000 and 67000 Series
- **Large -**
68000 and 69000 Series

APPLICATIONS:

- Box, stud and quick-connect terminations for copper and/or aluminum cables



LARGE 68000-69000 SERIES/POWER DISTRIBUTION BLOCKS

Sizes, Ratings, Catalog Numbers – Large Series 68000 and 69000

Ampere rating based on NEC Table 310-16 for 75° copper wire.



| PRIMARY | | SECONDARY | | AMPERE RATING | CATALOG NUMBER | | | | | | | | SHORT CIRCUIT CURRENT RATING |
|-------------------------|----------------------|---|------------------------|---------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|------------------------------|
| WIRE RANGE AWG/kcmil | OPENINGS PER POLE | WIRE RANGE AWG/kcmil | OPENINGS PER POLE | | ALUMINUM (90° C Cu/Al wire) | | | | COPPER (75° C Cu wire only) | | | | |
| | | | | | ADDER | 1 POLE | 2 POLE | 3 POLE | ADDER | 1 POLE | 2 POLE | 3 POLE | |
| Box to Box | | | | | | | | | | | | | |
| 350-#6 | 1 | 2/0-#14 #4-14 #10-14* | 6 12 20 | 310 | 69170 69150 69630** | 69171 69151 69631** | 69172 69152 69632** | 69173 69153 69633** | 68170 68150 68630** | 68171 68151 68631** | 68172 68152 68632** | 68173 68153 68633** | • • |
| 500-#4 | 1 | 500-#4 350-#6 | 1 2 | 380 | 69050 69060 | 69051 69061 | 69052 69062 | 69053 69063 | 68050 68060 | 68051 68061 | 68052 68062 | 68053 68063 | • • |
| | | 4/0-#6 4/0-#10 | 4 4 | | 69510** - | 69511** - | 69512** - | 69513** - | - 68510** | - 68511** | - 68512** | - 68513** | |
| | | 2/0-#14 #4-14 | 6 12 | | 69070 69080 | 69071 69081 | 69072 69082 | 69073 69083 | 68070 68080 | 68071 68081 | 68072 68082 | 68073 68083 | • • |
| 600-#2 | 1 | 600-#2 | 1 | 420 | 69640 | 69641 | 69642 | 69643 | 68640 | 68641 | 68642 | 68643 | • |
| 1000-250 | 1 | 1000-250 500-#4 350-#6 4/0-#6 | 1 2 2 4 | 545 | 69000 69010 69020 69300** | 69001 69011 69021 69301** | 69002 69012 69022 69302** | 69003 69013 69023 69303** | 68000 68010 68020 - | 68001 68011 68021 - | 68002 68012 68022 - | 68003 68013 68023 - | • • • |
| | | 4/0-#10 2/0-#14 #2-14 #4-14 | 4 6 10 12 | | - 69030 69530** 69040 | - 69031 69531** 69041 | - 69032 69532** 69042 | - 69033 69533** 69043 | 68300** 68030 68530** 68040 | 68301** 68031 68531** 68041 | 68302** 68032 68532** 68042 | 68303** 68033 68533** 68043 | • • |
| #4-14 | 2 | #4-14 | 12 | 170 | 69180 | 69181 | 69182 | 69183 | 68180 | 68181 | 68182 | 68183 | • |
| 2/0-#14 | 2 | #4-14 #10-14* | 12 20 | 350 | 69160 69600 | 69161 69601 | 69162 69602 | 69163 69603 | 68160 68600 | 68161 68601 | 68162 68602 | 68163 68603 | • • |
| 350-#6 | 2 | 350-#6 4/0-#6 4/0-#10 2/0-#14 #4-14 | 2 4 4 6 12 | 620 | 69120 69320** - | 69121 69321** - | 69122 69322** - | 69123 69323** - | 68120 - 68320** | 68121 - 68321** | 68122 - 68322** | 68123 - 68383** | • • • |
| | | 69130 69140 | 69131 69141 | | 69132 69142 | 69133 69143 | 68130 68140 | 68131 68141 | 68132 68142 | 68133 68143 | | | |
| 500-#4 | 2 | 500-#4 4/0-#6 4/0-#10 2/0-#14 #4-14 | 2 4 4 6 12 | 760 | 69090 69310 - | 69091 69311 - | 69092 69312 - | 69093 69313 - | 68090 - 68310 | 68091 - 68311 | 68092 - 68312 | 68093 - 68313 | • • • • |
| | | 69100 69110 | 69101 69111 | | 69102 69112 | 69103 69113 | 68100 68110 | 68101 68111 | 68102 68112 | 68103 68113 | | | |
| 600-#2 | 2 | 600-#2 #14-4 & 3/0-#10 | 2 4 | 840 | 69650 69540 | 69651 69541 | 69652 69542 | 69653 69543 | - 68540** | - 68541** | - 68542** | - 68543** | |
| 1000-250 | 2 | 500-#4 | 4 | 1090 | - | 69561**† | - | - | - | 68561**† | - | - | |
| 600-#2 | 3 | 600-#2 | 3 | 1260 | - | 69331**† | - | - | - | - | - | - | |
| 500-#4 | 4 | #6-14 #6-14 & 2/0-#14 | 30 22 4 | 1520 | - | 69191**† | - | - | - | 68191**† | - | - | |
| | | | | | - | 69521**† | - | - | - | 68521**† | - | - | |
| 600-#2 | 4 | 600-#2 | 4 | 1680 | - | 69341**† | - | - | - | - | - | - | |
| 500-#4 | 3 | 4/0-#10 | 6 | 1140 | - | - | - | - | - | 800011**† | - | - | |
| 500-#4 | 7 | 500-#4 | 7 | 2660 | - | - | - | - | - | 800061*** | - | - | |
| 500-#4 | 3 | 2/0-#14 | 8 | 1140 | - | 900061**† | - | - | - | - | - | - | |
| 500-#4 | 4 | 500-#4 | 4 | 1520 | - | 900071**† | - | - | - | 800031**† | - | - | |
| 500-#4 | 4 | 2/0-#12 | 6 | 1050 | - | 900121† | - | - | - | 800121**† | - | - | |

*Copper wire only

**Not UL Recognized or CSA Certified

***These pole blocks are triple width (7.81")

†These 1 pole blocks are double width (5.31")

• Short Circuit current rating with correctly sized fuse 100kA except adder block. Contact Ferraz technical services for fuse type and maximum ampere required.

LARGE

68000-69000 SERIES/POWER DISTRIBUTION BLOCKS

Sizes, Ratings, Catalog Numbers – Large Series 68000 and 69000 (continued)

Ampere rating based on NEC Table 310-16 for 75° copper wire.

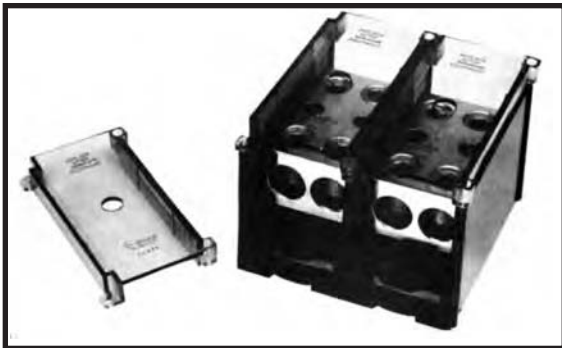


| PRIMARY | | SECONDARY | | AMPERE RATING | CATALOG NUMBER | | | | | | | |
|------------------------------------|----------------------------|-----------------------------------|----------------------------|---------------|-----------------------------|---------|--------|--------|-----------------------------|---------|---------|---------|
| WIRE RANGE AWG/kcmil or STUD SIZE* | OPENINGS or STUDS PER POLE | WIRE RANGE AWG/kcmil or STUD SIZE | OPENINGS or STUDS PER POLE | | ALUMINUM (90° C Cu/Al wire) | | | | COPPER (75° C Cu wire only) | | | |
| | | | | | ADDER | 1 POLE | 2 POLE | 3 POLE | ADDER | 1 POLE | 2 POLE | 3 POLE |
| Box to Stud | | | | | | | | | | | | |
| 500-#4 | 1 | 3/8-16 x 1 | 1 | Cu 380 | 69210 | 69211 | 69212 | 69213 | 68210 | 68211 | 68212 | 68213 |
| 500-#4 | 2 | 3/8-16 x 1 | 2 | Al 310 | 69270 | 69271 | 69272 | 69273 | 68270 | 68271 | 68272 | 68273 |
| 500-#4 | 2 | 3/8-16 x 1 | 2 | Cu 380 | - | 69221 | 69222 | 69223 | - | 68221 | - | - |
| 500-#4 | 2 | 3/8-16 x 1 | 2 | Al 310 | - | - | - | - | - | - | - | - |
| 1000-250 | 1 | 1/2-13 x 1-3/16 | 1 | Cu 545 | 69280 | 69281 | 69282 | 69283 | 68280 | 68281 | 68282 | 68283 |
| 1000-250 | 1 | 3/8-16 x 1 | 2 | Al 445 | 69240 | 69241 | 69242 | 69243 | 68240 | 68241 | 68242 | 68243 |
| 1/2-13 x 1 | 1 | 2/0-#14 | 4 | 545 | 69260 | 69261 | 69262 | 69263 | - | - | - | - |
| | | | 12 | 545 | 69290 | 69291 | 69292 | 69293 | - | - | - | - |
| | | | 4 | 1000 | - | - | - | - | 68260 | 68261 | 68262 | 68263 |
| | | | 12 | 1000 | - | - | - | - | 68290 | 68291 | 68292 | 68293 |
| 500-#4 | 4 | 3/8-16 x 1 | 4 | 1520 | - | 900091† | - | - | - | - | - | |
| Stud to Stud | | | | | | | | | | | | |
| 1/2-13 x 1-3/8 | 1 | 1/2-13 x 1-3/8 | 1 | 400 | - | - | - | - | 68200** | 68201** | 68202** | 68203** |

*Stud type connectors are furnished with nuts and washers. Recommended stud torque: (3/8-16) - 228 in.-lbs; (1/2-13) - 496 in.-lbs.

**Not UL Recognized or CSA Certified

† These 1 pole blocks are double width (5.31")



08590 cover and 69092 PDB with 2-08590 covers installed

SAFETY COVER - Catalog number 08590

Polycarbonate safety cover provides dead-front protection to 68000 and 69000 series power distribution blocks. One cover is needed for each pole (1-pole block requires 1 cover, 3-pole requires 3 covers, etc.) Each cover has a test prod hole in the center for circuit checking and each is marked with the reminder "REPLACE AFTER SERVICING EQUIPMENT". Mounting screws are supplied with cover.

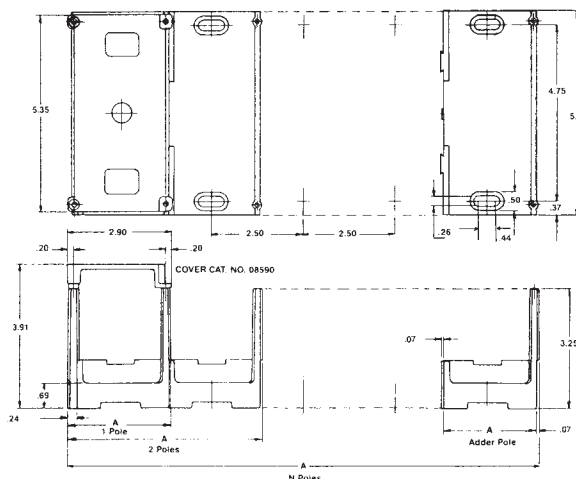
To order, simply determine the total number of poles to be protected and specify the same number of 08590 safety covers.

Recommended mounting screws for all 68000-69000 series: 1/4" (.250 dia.).

For double wide blocks use 08592W safety cover.

END BARRIER - Catalog number U09911

Polycarbonate end barriers snap on to PDB Adder blocks to form 1-pole blocks. Use one barrier per block.



Dimensions – 68000 and 69000 Series PDB

| NUMBER OF POLES | DIMENSION A (Inches) |
|-----------------|----------------------|
| ADDER | 2.50 |
| 1 | 2.81 |
| 2 | 5.31 |
| 3 | 7.81 |
| N | (2.50 x N) + .31 |

Example for 10 poles:

$$A = (2.50 \times 10) + .31 = 25.31$$