

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

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

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

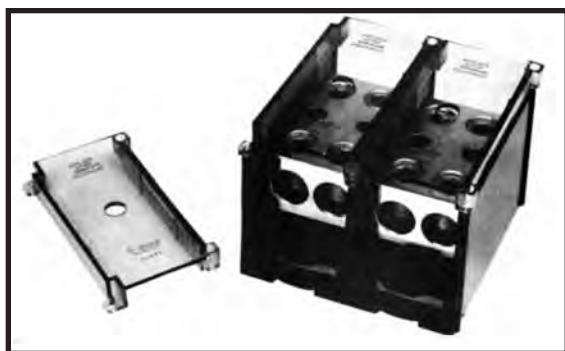


| PRIMARY                                  |                                  | SECONDARY                               |                                  | AMPERE<br>RATING | CATALOG NUMBER              |                |                |                |                             |                |                |                |
|------------------------------------------|----------------------------------|-----------------------------------------|----------------------------------|------------------|-----------------------------|----------------|----------------|----------------|-----------------------------|----------------|----------------|----------------|
| WIRE RANGE<br>AWG/kcmil<br>or STUD SIZE* | OPENINGS<br>or STUDS<br>PER POLE | WIRE RANGE<br>AWG/kcmil<br>or STUD SIZE | OPENINGS<br>or STUDS<br>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         |
| <b>Box to Stud</b>                       |                                  |                                         |                                  |                  |                             |                |                |                |                             |                |                |                |
| 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          |
|                                          |                                  |                                         |                                  | Cu 380<br>Al 310 | -                           | 69221          | 69222          | 69223          | -                           | 68221          | -              | -              |
| 1000-250                                 | 1                                | 1/2-13 x 1-3/16<br>3/8-16 x 1           | 1<br>2                           | Cu 545<br>Al 445 | 69280<br>69240              | 69281<br>69241 | 69282<br>69242 | 69283<br>69243 | 68280<br>68240              | 68281<br>68241 | 68282<br>68242 | 68283<br>68243 |
| 1/2-13 x 1                               | 1                                | 2/0-#14                                 | 4                                | 545              | 69260                       | 69261          | 69262          | 69263          | -                           | -              | -              | -              |
|                                          |                                  | #4-14                                   | 12                               | 545              | 69290                       | 69291          | 69292          | 69293          | -                           | -              | -              | -              |
|                                          |                                  | 2/0-#14                                 | 4                                | 1000             | -                           | -              | -              | -              | 68260                       | 68261          | 68262          | 68263          |
|                                          |                                  | #4-14                                   | 12                               | 1000             | -                           | -              | -              | -              | 68290                       | 68291          | 68292          | 68293          |
| 500-#4                                   | 4                                | 3/8-16 x 1                              | 4                                | 1520             | -                           | 900091†        | -              | -              | -                           | -              | -              | -              |
| <b>Stud to Stud</b>                      |                                  |                                         |                                  |                  |                             |                |                |                |                             |                |                |                |
| 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.

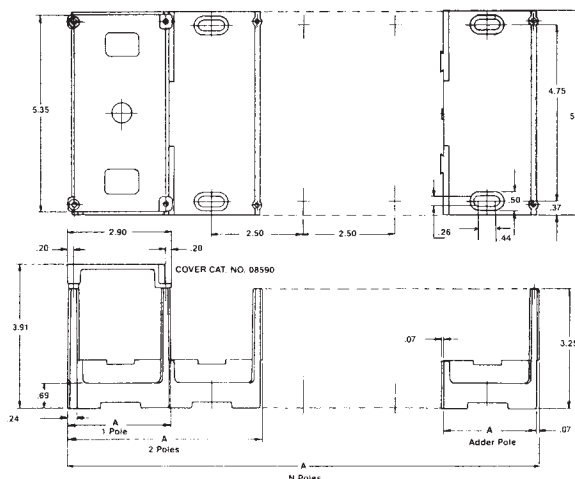
To order, simply determine the total number of poles to be protected and specify the same number of 08590 safety covers.

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               | $(2.50 \times N) + .31$ |

Example for 10 poles:

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