

Maximize short-circuit current rating up to 200 kA



with Bussmann series finger-safe power distribution fuse blocks

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## Simplify your panel design



To save panel space and reduce component count, Bussmann series power distribution fuse blocks combine circuit protection and power distribution into one unit. Available in Class H(K), and R up to 60 amps and Class J up to 400 amps, with up to a high 200 kA withstand rating. See these cost and space saving products in Section 8, *Fuse blocks and holders*.

## Selecting SCCR power distribution blocks and terminal blocks

### Short-circuit current rated power distribution blocks

Bussmann series power distribution blocks have three distinct styles to match different application needs. There are the PDBFS\_ and PDB\_ high short-circuit current rated power distribution blocks and the 16\_ power terminal blocks. The differences are whether the power distribution blocks are enclosed or not, and whether they are UL 1953 Listed power distribution blocks or UL 1059 Recognized power terminal blocks, which have different minimum spacing requirements. The table on this page will assist you in selecting which block is right for your application.

### Why these are important

Per the NEC and OSHA, equipment cannot be installed in an electrical system at a location where the available fault (short-circuit) current is greater than the equipment's SCCR.

Further, equipment SCCRs are required in the 2014 NEC and for UL 508A Listed control panels. Marking the equipment SCCR on control panels (NEC 409.110), industrial machinery electrical panels (NEC 670.3(A)), and HVAC equipment (NEC 440.4(B)) is required by the NEC.

Power distribution and terminal blocks not marked with a component SCCR are typically one of the weakest links in a control panel's equipment SCCR and may limit the equipment SCCR to no more than 10 kA. The PDBFS\_ and PDB\_ products have the increased spacing required for use in feeder circuits of equipment listed to UL 508A (UL 1059 terminal blocks must be evaluated for proper spacings). Also, for building wiring systems, the PDBFS\_ and PDB\_ power distribution blocks can be used to meet the 2014 NEC requirements in section 376.56(B) for power distribution blocks in wireways.

### Selection table

The table below provides an overview of the three Bussmann series power distribution and terminal blocks mentioned above. For details on the PDB\_ blocks, see data sheet number 10537. For the 16\_ blocks, see data sheet numbers 10533 (UL Recognized power distribution blocks), 10534 (splicer blocks) and 10535 (stud blocks).

| Catalog symbol | UL status                                | Enclosed | High SCCR* | Spacing ** 1" | UL 508A panel branch circuit | UL 508A panel feeder circuit | HVAC UL 1995 | Wireways NEC 376.56(B) (requires UL 1953) |
|----------------|--|----------|------------|---------------|------------------------------|------------------------------|--------------|---|
| PDBFS_         | UL 1953 Listed power distribution blocks | Yes***   | Yes        | Yes           | Yes                          | Yes                          | Yes          | Yes                                       |
| PDB_           | UL 1953 Listed power distribution blocks | No†      | Yes        | Yes           | Yes                          | Yes                          | Yes          | Yes, with optional cover                  |
| 16_            | UL 1059 Recognized terminal blocks       | No†      | Yes        | No††          | Yes                          | No††                         | Yes          | No  |

\* When protected by proper fuse class with maximum ampere rating specified or smaller.

\*\* For details, see PDB and TB minimum spacing requirements for equipment table below.

\*\*\* IP20 finger-safe under specific conditions, see data sheet 10536.

† Optional covers are available. Not IP20, but provide a safety benefit.

†† No, except if single pole units installed with proper spacings.

### Power distribution and terminal block minimum spacing requirements for equipment

| UL standard          | Spacing between live parts of opposite polarity |                      | Spacing between live parts and grounded parts or enclosure @ 600 V |
|----------------------|---|----------------------|--|
|                      | Through air @ 600 V                             | Over surface @ 600 V |  |
| 508A feeder circuits | 1"  | 2"                   | 1"   |
| 508A branch circuits | 3/8"  | 1/2"                 | 1/2"   |
| 1995 HVAC            | 3/8"  | 1/2"                 | 1/2"   |

Note: Refer to specific UL standards for complete spacing details.

## PDBFS UL Listed finger-safe, high SCCR power distribution blocks

These single pole, small footprint, high Short-Circuit Current Rating (SCCR) power distribution blocks provide IP20\* finger-safe protection in a modular design that permits dovetailing together the required number of poles and still meet the UL 1953 minimum 1" and 2" spacing required per UL 508A for feeder circuit applications and per NEC for field installations.

With SCCRs up to 200 kA, these blocks help achieve compliance with NEC and OSHA requirements by resolving a common SCCR "weak link" in industrial control panels.

To increase application flexibility, these blocks feature dual-wire rated ports that accept copper or aluminum conductors while retaining a UL Listed status.

With panel or 35mm DIN-Rail\*\* mounting these blocks are suitable for installation in wireways and industrial control panel feeder and branch circuits.

\* See table on page 9-5.

\*\*PDBFS504 panel mount only.



### Ratings

- Volts
  - 600 V (UL)
  - 690 V (IEC)
  - 1000 V (self-certified)
- Amps 175 to 760 A
- SCCR Up to 200 kA (see table for circuit protection details)

### Conductors†

- Stranded 75°C copper and aluminum
- Higher temperature rated conductors permitted with appropriate derating

† As specified in the catalog number table.

### Agency information

- UL 1953 Listed, Guide QPOS, File E256146
- CSA Certified, Class 6228-01, File 47235
- RoHS compliant
- CE

### Flammability rating

- UL 94 V0

### How to order

- From the catalog number table, select the catalog number that defines the desired lineside/loadside port and conductor characteristics
- Order one block per pole for the application
- Multiple single-pole blocks can be ganged together via the dovetailing feature to form multi-pole configurations

## Catalog number example — PDBFS204 is a 1-pole block

Where:

- The catalog symbol "PDBFS" defines the block as a finger-safe design
- The catalog number ending "204" in this example defines this block's lineside and loadside characteristics covering the amp rating, number of ports and wire sizes, etc.
- See the catalog number table for details on the available lineside/loadside characteristics.

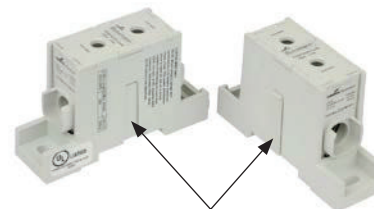
### Features

- IP20 finger-safe under specified conditions increases safety by isolating energized connections
- Wire-ready captive termination screws cannot be misplaced and are shipped "backed out" to save time on conductor installation
- Sliding DIN-Rail latch provides easy block mounting
- For multiple pole applications, all single-pole units can be gang mounted by using the interlocking dovetail pins that are pre-installed on the side of the blocks
- Elongated panel-mounting holes provide greater flexibility and installation ease when matching up with drilled panel holes

### Dual wire port application

- Rated for dual wire port application to increase the possible number of lineside and loadside connections. E.g., PDBFS220 can accept two wires into the lineside port (4 - 14 Cu, 4 - 8 Al) and two wires per port (eight connections total) on the loadside lug (8 - 14 Cu, 8 Al).
- Dual wire applications are only viable when using two wires of the same size, stranding, and insulating and conductor material.
- Ferrule terminal application
- Bussmann series PDBFS power distribution blocks are rated for use with UL Listed ferrules (see catalog number table for details).
- Ferrule applications allow for the use of a broader range of conductor stranding and simulate a more efficient, solid wire connection with the PDBFS terminal port.
- Always use UL Listed ferrules in accordance with the manufacturer's specifications and instructions.

### Multi-pole block ganging



Dovetail feature permits easy ganging for multi-pole applications

PDBFS blocks can be ganged for the required number of poles.

To gang two or more blocks for DIN-Rail or panel mounting, place them side-by-side and slide the dovetail pin of one block into the reciprocal slot on the other until fully seated and both blocks are coplanar.

**Note:** Dissimilar PDBFS blocks can be ganged. E.g., a PDBFS204 can be ganged with a PDBFS220. Ganging with a PDBFS504 (non-DIN Rail mount version) will prevent DIN-Rail mounting.

| Line/load port configuration |     | Current rating (A)         | Lineside                              |                            |                    |                            | Loadside                              |                          |                    |            | Max SCCR (kA)** | Catalog no.                |          |
|------------------------------|-----|----------------------------|---------------------------------------|----------------------------|--------------------|----------------------------|---------------------------------------|--------------------------|--------------------|------------|-----------------|----------------------------|----------|
|                              |     |                            | Wire size (Str/ferrule unless noted)* | Wires per port             | Torque N·m (lb-in) | Ports/pole                 | Wire size (Str/ferrule unless noted)* | Wires per port           | Torque N·m (lb-in) | Ports/pole |                 |                            |          |
|                              | 175 | 2/0 - 1 Cu/Al (Str)        | 1                                     | 12.4 (110) <sup>††</sup>   | 1                  | 2/0 - 1 Cu/Al (Str)        | 1                                     | 12.4 (110) <sup>††</sup> | 1                  | 200        | PDBFS204        |                            |          |
|                              |     | 2 - 3 Cu/Al                | 1                                     |                            |                    | 2 - 3 Cu/Al                | 1                                     |                          |                    |            |                 |                            |          |
|                              |     | 4 - 8 Cu/Al                | 1                                     |                            |                    | 4 - 8 Cu/Al                | 1                                     |                          |                    |            |                 |                            |          |
|                              |     | 10 - 12 Al (Str)           | 1                                     | 4.0 (35)                   |                    | 10 - 12 Al (Str)           | 1                                     | 4.0 (35)                 |                    |            |                 |                            |          |
|                              |     | 10 - 14 Cu                 | 1                                     |                            |                    | 10 - 14 Cu                 | 1                                     |                          |                    |            |                 |                            |          |
|                              |     | 4 - 8 Cu/Al                | 2                                     |                            |                    | 4 - 8 Cu/Al                | 2                                     |                          |                    |            |                 |                            |          |
|                              | 175 | 10 - 14 Cu                 | 2                                     | 13.6 (120)                 | 1                  | 10 - 14 Cu                 | 2                                     | 13.6 (120)               | 4                  | 200        | PDBFS220        |                            |          |
|                              |     | 2/0 - 1 Cu/Al (Str)        | 1                                     |                            |                    | 4 - 6 Cu/Al (Str)          | 1                                     |                          |                    |            |                 | 4.0 (35)                   |          |
|                              |     | 2 - 3 Cu/Al                | 1                                     |                            |                    | 8 Cu                       | 1                                     |                          |                    |            |                 | 2.8 (25)                   |          |
|                              |     | 4 - 8 Cu/Al                | 1-2                                   | 2.3 (20)                   |                    | 8 Al (Str)                 | 1-2                                   |                          |                    |            |                 |                            |          |
|                              |     | 10 - 14 Cu                 | 1-2                                   |                            |                    | 10 - 14 Cu                 | 1-2                                   |                          |                    |            |                 |                            |          |
|                              |     |                            | 310                                   | 350kcmil - 2/0 Cu/Al (Str) |                    | 1                          | 31.1 (275) <sup>†</sup>               | 1                        |                    |            |                 | 350kcmil - 2/0 Cu/Al (Str) | 1        |
| 1/0 Cu/Al (Str)              | 1-2 |                            |                                       | 1/0 Cu/Al (Str)            | 1-2                |                            |                                       |                          |                    |            |                 |                            |          |
| 1 - 6 Cu/Al                  | 1-2 |                            |                                       | 1 - 6 Cu/Al                | 1-2                |                            |                                       |                          |                    |            |                 |                            |          |
|                              | 380 | 500kcmil - 4/0 Cu/Al (Str) | 1                                     | 56.5 (500)                 | 1                  | 2 - 3 Cu/Al (Str)          | 1                                     | 5.6 (50)                 | 6                  | 200        | PDBFS330        |                            |          |
|                              |     | 3/0 - 1/0 Cu/Al (Str)      | 1-2                                   |                            |                    | 4 Cu/Al                    | 1                                     | 5.1 (45)                 |                    |            |                 |                            |          |
|                              |     | 1 - 6 Cu/Al                | 1-2                                   |                            |                    | 6 Cu/Al                    | 1-2                                   | 4.5 (40)                 |                    |            |                 |                            |          |
|                              |     |                            |                                       |                            |                    | 8 Cu/Al                    | 1-2                                   | 4.0 (35)                 |                    |            |                 |                            |          |
|                              |     |                            |                                       |                            |                    | 10 - 14 Cu                 | 1-2                                   | 4.0 (35)                 |                    |            |                 |                            |          |
|                              |     |                            |                                       |                            |                    | 4 - 6 Cu/Al (Str)          | 1                                     | 4.0 (35)                 |                    |            |                 |                            |          |
|                              | 570 | 300kcmil - 2/0 Cu/Al (Str) | 1                                     | 31.1 (275) <sup>†</sup>    | 2                  | 4 - 6 Cu/Al (Str)          | 1                                     | 31.1 (275) <sup>†</sup>  | 12                 | 200        | PDBFS377        |                            |          |
|                              |     | 1/0 Cu/Al (Str)            | 1-2                                   |                            |                    | 8 Cu                       | 1                                     |                          |                    |            |                 | 2.8 (25)                   |          |
|                              |     | 1 - 2 Cu/Al                | 1-2                                   |                            |                    | 8 Al (Str)                 | 1-2                                   |                          |                    |            |                 |                            | 2.3 (20) |
|                              |     | 4 Cu/Al (Str)              | 1-2                                   |                            |                    | 10 - 12 Al (Str)           | 1                                     |                          |                    |            |                 |                            |          |
|                              |     |                            |                                       |                            |                    | 10 - 14 Cu                 | 1-2                                   |                          |                    |            |                 | 10 - 14 Cu                 |          |
|                              |     |                            |                                       |                            |                    |                            |                                       |                          |                    |            |                 |                            |          |
|                              | 620 | 350kcmil - 2/0 Cu/Al (Str) | 1                                     | 31.1 (275) <sup>†</sup>    | 2                  | 350kcmil - 2/0 Cu/Al (Str) | 1                                     | 31.1 (275) <sup>†</sup>  | 2                  | 200        | PDBFS500        |                            |          |
|                              |     | 1/0 Cu/Al (Str)            | 1-2                                   |                            |                    | 1/0 Cu/Al (Str)            | 1-2                                   |                          |                    |            |                 |                            |          |
|                              |     | 1 - 4 Cu/Al                | 1-2                                   |                            |                    | 1 - 4 Cu/Al                | 1-2                                   |                          |                    |            |                 |                            |          |
|                              |     | 6 Cu/Al                    | 2                                     |                            |                    | 6 Cu/Al                    | 2                                     |                          |                    |            |                 |                            |          |
|                              | 760 | 500kcmil - 4/0 Cu/Al (Str) | 1                                     | 56.5 (500)                 | 2                  | 500kcmil - 4/0 Cu/Al (Str) | 1                                     | 56.5 (500)               | 2                  | 200        | PDBFS504        |                            |          |
|                              |     | 3/0 - 1/0 Cu/Al (Str)      | 1-2                                   |                            |                    | 3/0 - 1/0 Cu/Al (Str)      | 1-2                                   |                          |                    |            |                 |                            |          |
|                              |     | 1 - 6 Cu/Al                | 1-2                                   |                            |                    | 1 - 6 Cu/Al                | 1-2                                   |                          |                    |            |                 |                            |          |

\* 75°C wire (higher temperature rated wire acceptable with appropriate derating). Using a ferrule on a stranded conductor requires a correctly sized UL Listed ferrule (customer supplied) applied according to the manufacturer's specifications. Ferrule ratings apply to copper wire only.

\*\*See pages 9-4 and 9-5 for the tested upstream overcurrent protective devices necessary for achieving these SCCRs.

† Torque rating for dual wire and ferrule application is 30.5 N•m (270 lb-in).

††Torque rating for ferrule application is 13.6 N•m (120 lb-in).

### Upstream fusing for SCCR and minimum enclosure data

This table contains the tested SCCR levels for each PDBFS power distribution block using the specified lineside and loadside conductors and Bussmann series Class J, RK1, RK5 and T fuses. Using these tested SCCR levels also requires the power distribution block be installed in an enclosure with the minimum size indicated for each catalog number.

| Conductors (AWG/kcmil) |          |          | Fuse class and maximum amps* |  |                                       |                                 |           | Min. enclosure size (in) |
|------------------------|----------|----------|------------------------------|--|---------------------------------------|---------------------------------|-----------|--------------------------|
| Catalog no.            | Lineside | Loadside | J — LPJ                      | RK1 — LPN-RK (250 V)<br>LPS-RK (600 V) | RK5 — FRN-R (250 V),<br>FRS-R (600 V) | T — JJN (300 V),<br>JJS (600 V) | SCCR (kA) |                          |
| PDBFS204               | 2/0 - 8  | 2/0 - 8  | 200                          | 100                                    | 60                                    | 200                             | 200       | 16 x 16 x 6.75           |
| PDBFS220               | 2/0 - 8  | 4 - 12   | 200                          | 100                                    | 60                                    | 200                             | 200       | 16 x 16 x 6.75           |
|                        |          | 4 - 14   | 175                          | 100                                    | 30                                    | 175                             | 100       |                          |
|                        |          |          | 200                          | 100                                    | 60                                    | 200                             | 50        |                          |
| PDBFS303               | 350 - 6  | 350 - 6  | 400                          | 200                                    | 100                                   | 400                             | 200       | 36 x 30 x 12.625         |
| PDBFS330               | 500 - 6  | 2 - 6    | 400                          | 200                                    | 100                                   | 400                             | 200       | 24 x 20 x 6.75           |
|                        |          | 6 - 14   | 200                          | 100                                    | 60                                    | 200                             | 50        |                          |
|                        |          |          | 175                          | 100                                    | 30                                    | 175                             | 100       |                          |
| PDBFS377               | 300 - 4  | 4        | 600                          | 400                                    | 200                                   | 600                             | 200       | 24 x 20 x 6.75           |
|                        |          |          | 400                          | 200                                    | 100                                   | 400                             | 100       |                          |
|                        |          | 4 - 14   | 200                          | 100                                    | 60                                    | 200                             | 50        |                          |
| PDBFS500               | 350 - 4  | 4        | 600                          | 400                                    | 200                                   | 600                             | 50        | 36 x 30 x 12.625         |
|                        |          | 350      | 600                          | 400                                    | 200                                   | 600                             | 200       |                          |
|                        |          | 350 - 4  | 600                          | 400                                    | 200                                   | 600                             | 100       |                          |
| PDBFS504               | 500 - 6  | 500      | 600                          | 600                                    | 200                                   | 800**                           | 200       | 36 x 30 x 12.625         |
|                        |          | 500 - 6  | 600                          | 400                                    | 200                                   | 600                             | 100       |                          |

Ampacities 75°C per NEC® Table 310.16 and UL 508A Table 28.1.

\* Class G 60 A (SC-60) or less or Class CC 30 A (LP-CC-30, FNQ-R-30, KTK-R-30) or less are suitable for all SCCRs in this table.

\*\*Class L 800 A (KRP-C 800\_SP) or less fuses suitable for this particular SCCR case.

### Upstream circuit breakers for SCCR and minimum enclosure data

This table contains the tested SCCR levels for each PDBFS power distribution block using the specified lineside and loadside conductors and Eaton and General Electric circuit breakers. Using these tested SCCR levels also requires the power distribution block be installed in an enclosure with the minimum size indicated for each catalog number.

#### PDBFS SCCR as rated with Eaton circuit breakers

| Catalog no. | Suitable Cu conductors kcmil/AWG |          | SCCR, RMS<br>Sym. (kA) | Volts max | Overcurrent protection circuit breaker required |         | Min. enclosure size<br>(in.) |
|-------------|----------------------------------|----------|------------------------|-----------|---|---------|------------------------------|
|             | Lineside                         | Loadside |                        |           | Type  | Max amp |                              |
| PDBFS204    | 2/0 - 8                          | 2/0 - 8  | 65                     | 480       | EGC125, E125C, EGH125, E125H                    | 125     | 16 x 16 x 6.75               |
| PDBFS330    | 500 - 3                          | 2 - 8    | 14                     | 480       | LGH400, L400H, LGE400, L400E,<br>LGS400, L400S  | 400     | 24 x 20 x 6.75               |
|             |                                  |          | 25                     |           | LGC400, L400C, LGU400, L400U,<br>LGX400, L400X  |         |                              |
|             |                                  |          | 30                     |           | LGH600, L600H, LGE600, L600E,<br>LGS600, L600S  |         |                              |
| PDBFS377    | (2) 300 - 2                      | 4        | 18                     | 480       | LGC600, L600C, LGU600, L600U,<br>LGX600, L600X  | 600     | 24 x 20 x 6.75               |
|             |                                  |          | 14                     |           |   |         |                              |
|             |                                  |          | 42                     |           |   |         |                              |
|             |                                  |          | 35                     |           |   |         |                              |
|             |                                  |          | 14                     |           |   |         |                              |

#### PDBFS SCCR as rated with General Electric circuit breakers

|             | Suitable Cu conductors kcmil/AWG |          | SCCR, RMS |           | Overcurrent protection circuit breaker required |         | Min. enclosure size |
|-------------|----------------------------------|----------|-----------|-----------|---|---------|---------------------|
| Catalog no. | Lineside                         | Loadside | Sym. (kA) | Volts max | Type  | Max amp | (in.)               |
| PDBFS204    | 2/0 - 8                          | 2/0 - 8  | 65        | 480       | SELA  | 150     | 16 x 16 x 6.75      |
|             |                                  |          | 25        |           | SEHA  | 150     |                     |
| PDBFS220    | 2/0 - 8                          | 4 - 12   | 65        | 480       | SELA  | 150     | 16 x 16 x 6.75      |
|             |                                  |          | 25        |           | SEHA  | 150     |                     |
|             | 250 - 6                          | 350 - 6  | 65        |           | SFLA  | 250     |                     |
| PDBFS303    |                                  | 250 - 6  | 35        | 480       | SFHA  | 250     | 24 x 20 x 6.75      |
|             |                                  |          | 65        |           | SELA  | 150     |                     |
|             | 3/0 - 6                          | 350 - 6  | 25        |           | SEHA  | 150     |                     |
|             |                                  |          |           |           |   |         |                     |
|             | 250 - 6                          |          | 65        |           | SFLA  | 250     |                     |
| PDBFS330    |                                  | 2 - 12   | 35        | 480       | SFHA  | 250     | 24 x 20 x 6.75      |
|             |                                  |          | 65        |           | SELA  | 150     |                     |
|             | 3/0 - 6                          |          | 25        |           | SEHA  | 150     |                     |

#### Specified installation conditions for IP20 finger-safe ratings

This table contains the installed wire and trim lengths, and other conditions the PDBFS power distribution blocks need in order to be compliant with IP20 specifications. IP20 compliance status is indicated in the lineside and loadside wire port and terminal screw opening columns.

| Lineside    |                      |  |                      |                              | Loadside             |   |                      |                              |
|-------------|----------------------|--|----------------------|------------------------------|----------------------|---|----------------------|------------------------------|
| Catalog no. | Installed wire/state | Wire trim length -<br>in (mm)            | IP20 status          |                              | Installed wire/state | Wire trim length -<br>in (mm)                                       | IP20 status          |                              |
|             |                      |  | Wire port<br>opening | Terminal<br>screw<br>opening |                      |   | Wire port<br>opening | Terminal<br>screw<br>opening |
|             |                      |  |                      |                              |                      |   |                      |                              |
| PDBFS204    | 2/0 - 8              | 0.85 (22)                                | Yes                  | Yes                          | 2/0 - 8              | 0.97 (25)   | Yes                  | Yes                          |
| PDBFS220    | 2/0 - 8              | 0.75 (19)                                | Yes                  | Yes                          | 4 - 14               | Top row 0.55 (14),<br>Bottom row 0.85 (22)                          | Yes                  | Yes                          |
|             |                      |  |                      |                              | Screws fully opened  |   | N/A                  | Yes                          |
|             |                      |  |                      |                              | No wire in hole      |   | No                   | N/A                          |
| PDBFS303    | 350kcmil - 2/0       | 1.35 (34)                                | Yes                  | Yes                          | 350kcmil - 2/0       | 1.25 (32)   | Yes                  | Yes                          |
|             | 1/0 - 6              |  | No                   | Yes                          | 1/0 - 6              |   | No                   | Yes                          |
| PDBFS330    | 500 - 250kcmil       | 1.25 (32)                                | Yes                  | Yes                          | 2 - 14               | Top row 0.59 (15),<br>Bottom row 1.2 (30)                           | Yes                  | Yes                          |
|             | 4/0 - 6              |  | No                   | Yes                          | Screws fully opened  |   | N/A                  | Yes                          |
|             |                      |  |                      |                              |                      |   | No wire in hole      | Yes                          |
| PDBFS377    | 300kcmil - 4/0       | Top row 1.15 (29)<br>bottom row 1.4 (36) | Yes                  | Yes                          | 4 - 14               | Top row 0.55 (14),<br>Middle row 1.00 (35),<br>Bottom row 1.22 (31) | Yes                  | Yes                          |
|             | 3/0 - 4              |  | No                   | Yes                          | Screws fully open    |   | N/A                  | Yes                          |
|             | Screws fully open    |  | N/A                  | No                           | No wire in port      |   | Yes                  | N/A                          |
|             | No wire in port      |  | No                   | N/A                          |                      |   |                      |                              |
|             |                      |  |                      |                              |                      |   |                      |                              |
| PDBFS500    | 350kcmil - 2/0       | 1.25 (32)                                | No                   | Yes                          | 350kcmil - 2/0       | 1.25 (32)   | Yes                  | Yes                          |
|             | 1/0 - 4              |  | No                   | Yes                          | 1/0 - 4              |   | No                   | Yes                          |
|             | Screws fully opened  |  | N/A                  | No                           | Screws fully open    |   | N/A                  | No                           |
|             | No wire in port      |  | No                   | N/A                          | No wire in port      |   | No                   | N/A                          |
| PDBFS504    | 500 - 350kcmil       | 1.25 (32)                                | Yes                  | Yes                          | 500 - 350kcmil       | 1.25 (32)   | Yes                  | Yes                          |
|             | 300 - 6              |  | No                   | Yes                          | 300 - 6              |   | No                   | Yes                          |
|             | Screws fully open    |  | N/A                  | No                           | Screws fully opened  |   | N/A                  | No                           |
|             | No wire in port      |  | No                   | N/A                          | No wire in port      |   | No                   | N/A                          |



## PDB UL Listed high SCCR open power distribution blocks

High Short-Circuit Current Rating (SCCR) power distribution blocks provide up to 200 kA SCCR and help achieve compliance with NEC and OSHA requirements by resolving a common SCCR “weak link” in industrial control panels.



Available in 1-, 2- and 3-pole panel mount versions with popular lineside and loadside port configurations, these blocks are UL Listed with the requisite spacing between uninsulated opposite polarities or ground by meeting the UL 1953 1” through air and 2” over surface spacings required per UL 508A for feeder circuit applications and per NEC for field installations.

To increase application flexibility, these blocks feature dual-wire rated ports that accept copper or aluminum conductors while retaining a UL Listed status.

Optional covers are available to enhance electrical safety.

### Ratings

- Volts 600 V
- Amps 175 to 310 A
- SCCR 200 kA (see table for circuit protection details)

### Conductors†

- Stranded 75°C copper and aluminum
- Higher temperature rated conductors permitted with appropriate derating

† As specified in the catalog number table.

### Agency information

- UL 1953 Listed, Guide QPQS, File E256146
- CSA Certified, Class 6228-01, File 47235
- CE

### Flammability rating

- UL 94 V0

### How to order

From the catalog number table, select the catalog number that defines the desired lineside/loadside port and conductor characteristics.

Add to the catalog number the suffix that defines the desired pole configuration. Note, you must select from the available number of poles for each catalog number. These appear in the second column of the catalog number tables.

### Catalog number example — PDB323-3 is a 3-pole PDB323

Where:

- The prefix “PDB323” defines the block’s lineside characteristics (i.e., one conductor port per pole that accepts 350kcmil-6 Cu/Al conductors) and the loadside characteristics (i.e., six (6) conductor ports per pole that each accepts 4-14 Cu or 4-12 Al conductors)
- The suffix “3” in this example defines this as a three-pole block
- See the catalog number table for details on the available lineside/loadside characteristics

### Data sheet no. 10537

### Features

- High SCCRs up to 200 kA, assist in achieving high SCCR for a control panel per NEC and UL 508A requirements
- In compliance with UL 1953 minimum spacing requirements for industrial control panel feeder and branch circuits
- Optional covers available to reduce the risk of accidental contact with energized components

### Dual wire port application

- Rated for dual wire port application to increase the possible number of lineside and loadside connections. E.g., PDB220 can accept two wires into the lineside port (4-14 Cu, 4-8 Al) and two wires per port (eight connections per pole total) on the loadside lug (8-14 Cu, 8 Al).
- Dual wire applications are only viable when using two wires of the same size, stranding, and insulating and conductor material in the same port

### Ferrule terminal application

- Bussmann series PDB power distribution blocks are rated for use with UL Listed ferrules (see catalog number table for details)
- Ferrule applications allow for the use of a broader range of conductor stranding and simulate a more efficient, solid wire connection with the PDB terminal port
- Always use UL Listed ferrules in accordance with the manufacturer’s specifications and instructions


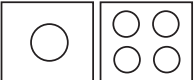
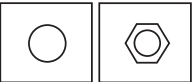
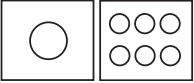


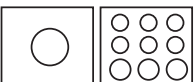
### Optional covers

Electrical safety can be enhanced by installing optional covers.

From the table below, order the cover catalog number that matches the block catalog number. Order the quantity indicated in the “order quantity” column. E.g., the 3-pole block PDB204-3 requires ordering three CPB162-1 covers (one cover for each pole).

| Block catalog no. | Poles | Cover catalog no. | Order quantity |
|-------------------|-------|-------------------|----------------|
| PDB204-1          | 1     | CPB162-1          | 1              |
| PDB204-3          | 3     | CPB162-1          | 3              |
| PDB220-1          | 1     | CPB162-1          | 1              |
| PDB220-3          | 3     | CPB162-1          | 3              |
| PDB280-1          | 1     | CPB162-1          | 1              |
| PDB280-3          | 3     | CPB162-1          | 3              |
| PDB323-1          | 1     | CPDB-1            | 1              |
| PDB323-3          | 3     | CPDB-1            | 3              |
| PDB370-1          | 1     | CPDB-1            | 1              |
| PDB370-3          | 3     | CPDB-1            | 3              |
| PDB371-1          | 1     | CPDB-1            | 1              |
| PDB371-3          | 3     | CPDB-1            | 3              |
| PDB321-1          | 1     | CPDB-1*           | 1              |
| PDB321-2          | 2     | CPDB-2*           | 1              |
| PDB321-3          | 3     | CPDB-3*           | 1              |

\* For the PDB321-\_ blocks, order one cover for each block (not per pole).

| Line/load port configuration  |      | No. of poles | Current rating (A)  | Lineside                              |                          |                    | Loadside            |                                       |                          |                    |            | Max SCCR (kA)**      | Catalog no.          |          |                      |   |                   |     |          |   |     |                      |          |
|---|------|--------------|---|---------------------------------------|--------------------------|--------------------|---------------------|---------------------------------------|--------------------------|--------------------|------------|----------------------|----------------------|----------|----------------------|---|-------------------|-----|----------|---|-----|----------------------|----------|
|   |      |              |   | Wire size (Str/ferrule unless noted)* | Wires per port           | Torque N·m (lb-in) | Ports/pole          | Wire size (Str/ferrule unless noted)* | Wires per port           | Torque N·m (lb-in) | Ports/pole |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|    | 1, 3 | 175          | 2/0 - 1 Cu/Al (Str)   | 1                                     | 12.4 (110) <sup>††</sup> | 1                  | 2/0 - 1 Cu/Al (Str) | 1                                     | 12.4 (110) <sup>††</sup> | 1                  | 200        | PDB204- <sub>—</sub> |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 2 - 3 Cu/Al   | 1                                     |                          |                    | 2 - 3 Cu/Al         | 1                                     |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 4 - 8 Cu/Al   | 1                                     |                          |                    | 4 - 8 Cu/Al         | 1                                     |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 10 - 12 Al (Str)  | 1                                     | 4.0 (35)                 |                    | 10 - 12 Al (Str)    | 1                                     | 4.0 (35)                 |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 10 - 14 Cu  | 1                                     |                          |                    | 10 - 14 Cu          | 1                                     |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 4 - 8 Cu/Al   | 2                                     |                          |                    | 4 - 8 Cu/Al         | 2                                     |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|    | 1, 3 | 175          | 2/0 - 1 Cu/Al (Str)   | 1                                     | 13.6 (120)               | 1                  | 4 - 6 Cu/Al (Str)   | 1                                     | 4.0 (35)                 | 4                  | 200        | PDB220- <sub>—</sub> |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 2 - 3 Cu/Al   | 1                                     |                          |                    | 8 Cu                | 1                                     |                          |                    |            |                      | 2.8 (25)             |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 4 - 8 Cu/Al   | 1-2                                   |                          |                    | 8 Al (Str)          | 1-2                                   |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 10 - 14 Cu  | 1-2                                   | 13.6 (120)               |                    | 10 - 14 Cu          | 1-2                                   | 2.3 (20)                 |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 2/0 - 1 Cu/Al (Str)   | 1                                     |                          |                    | 1/4-20 x 3/4" Stud  | —                                     |                          |                    |            |                      | —                    |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 2 - 3 Cu/Al   | 1                                     |                          |                    |                     |                                       |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|    | 1, 3 | 175          | 4 - 8 Cu/Al   | 1-2                                   | 13.6 (120)               | 1                  |                     |                                       | 1/4-20 x 3/4" Stud       | —                  | —          | 1                    |                      | 200      | PDB280- <sub>—</sub> |   |                   |     |          |   |     |                      |          |
|   |      |              | 10 - 14 Cu  | 1-2                                   |                          |                    |                     |                                       |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 2/0 - 1 Cu/Al (Str)   | 1                                     |                          |                    |                     |                                       |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              |  | 1, 2, 3                               | 175                      |                    | 2/0 - 1 Cu/Al (Str) | 1                                     |                          |                    |            |                      | 13.6 (120)           |          |                      | 1 | 4 - 6 Cu/Al (Str) | 1   | 4.0 (35) | 6 | 200 | PDB321- <sub>—</sub> |          |
|   |      |              |   |                                       |                          |                    | 2 - 3 Cu/Al         | 1                                     |                          |                    |            |                      |                      |          |                      |   | 8 Al (Str)        | 1-2 |          |   |     |                      | 2.8 (25) |
|   |      |              |   |                                       |                          |                    | 4 - 8 Cu/Al         | 1-2                                   |                          |                    |            |                      |                      |          |                      |   | 10 - 12 Al (Str)  | 1   |          |   |     |                      |          |
| 10 - 12 Al (Str)  | 1    | 10 - 14 Cu   |   |                                       |                          | 1-2                | 2.3 (20)            |                                       |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
| 10 - 14 Cu  | 1-2  |              |   |                                       |                          |                    |                     |                                       |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
| 350kcmil - 2/0 Cu/Al (Str)  | 1    |              |   |                                       |                          |                    |                     |                                       |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|    | 1, 3 | 310          | 1/0 Cu/Al (Str)   | 1-2                                   | 31.1 (275) <sup>†</sup>  | 1                  | 4 - 6 Cu/Al (Str)   | 1                                     | 4.0 (35)                 | 6                  | 200        | PDB323- <sub>—</sub> |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 1 - 6 Cu/Al   | 1-2                                   |                          |                    | 8 Al (Str)          | 1-2                                   |                          |                    |            |                      | 2.8 (25)             |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 350kcmil - 2/0 Cu/Al (Str)  | 1                                     |                          |                    | 10 - 12 Al (Str)    | 1                                     |                          |                    |            |                      |                      | 4.0 (35) |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 1/0 Cu/Al (Str)   | 1-2                                   | 10 - 12 Cu               |                    | 1                   | 2.3 (20)                              |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 1 - 6 Cu/Al   | 1-2                                   | 10 - 14 Cu               |                    | 2                   |                                       |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 350kcmil - 2/0 Cu/Al (Str)  | 1                                     |                          |                    |                     |                                       |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   | 1, 3 | 310          | 1/0 Cu/Al (Str)   | 1-2                                   | 31.1 (275) <sup>†</sup>  | 1                  | 4 - 6 Cu/Al (Str)   | 1                                     | 4.0 (35)                 | 12                 | 200        | PDB370- <sub>—</sub> |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 1 - 6 Cu/Al   | 1-2                                   |                          |                    | 8 Al (Str)          | 1-2                                   |                          |                    |            |                      | 2.8 (25)             |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 350kcmil - 2/0 Cu/Al (Str)  | 1                                     |                          |                    | 10 - 12 Al (Str)    | 1                                     |                          |                    |            |                      |                      | 4.0 (35) |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 1/0 Cu/Al (Str)   | 1-2                                   | 10 - 14 Cu               |                    | 1-2                 | 2.3 (20)                              |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 1 - 6 Cu/Al   | 1-2                                   | 2 - 3 Cu/Al (Str)        |                    | 1                   |                                       | 5.6 (50)                 |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 350kcmil - 2/0 Cu/Al (Str)  | 1                                     | 4 - 8 Al (Str)           |                    | 1                   |                                       |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|  | 1, 3 | 310          | 350kcmil - 2/0 Cu/Al (Str)  | 1                                     | 31.1 (275) <sup>†</sup>  | 1                  | 6 - 8 Al (Str)      | 2                                     |                          | 5.1 (45)           | 6          | 200                  | PDB371- <sub>—</sub> |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 1/0 Cu/Al (Str)   | 1-2                                   |                          |                    | 4 Cu                | 1                                     | 4.5 (40)                 |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              |   |                                       |                          |                    | 6 Cu                | 1-2                                   |                          |                    |            |                      |                      | 4.0 (35) |                      |   |                   |     |          |   |     |                      |          |
|   |      |              |   |                                       | 8 Cu                     |                    | 1-2                 |                                       |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 10 - 12 Cu  | 1-2                                   | 4.0 (35)                 |                    | 3                   |                                       |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 14 Cu   | 2                                     |                          |                    |                     |                                       |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 1/0 - 3 Cu/Al (Str)   | 1                                     |                          |                    |                     | 5.6 (50)                              |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 4 - 6 Cu/Al   | 1                                     | 5.1 (45) <sup>††</sup>   |                    |                     |                                       |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 8 Cu/Al   | 1                                     | 4.5 (40) <sup>††</sup>   |                    |                     |                                       |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 10 - 12 Cu  | 1                                     | 4.0 (35) <sup>††</sup>   |                    |                     |                                       |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 6 - 14 Cu   | 2                                     | 13.6 (120)               |                    |                     |                                       |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
|   |      |              | 4 - 6 Al (Str)  | 2                                     |                          |                    |                     |                                       |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |
| 1 - 6 Cu/Al   | 1-2  |              |   |                                       |                          |                    |                     |                                       |                          |                    |            |                      |                      |          |                      |   |                   |     |          |   |     |                      |          |

\* 75°C wire (higher temperature rated wire acceptable with appropriate derating). Using a ferrule on a stranded conductor requires a correctly sized UL Listed ferrule (customer supplied) applied according to the manufacturer's specifications. Ferrule ratings apply to copper wire only.

\*\*See page 9-8 for the tested upstream overcurrent protective devices necessary for achieving these SCCR's.

† Torque rating for dual wire and ferrule application is 30.5 N•m (270 lb-in).

††Torque rating for ferrule application is 13.6 N•m (120 lb-in).

## Upstream fusing for SCCR and minimum enclosure data

This table contains the tested SCCR levels for each PDBFS power distribution block using the specified lineside and loadside conductors and Busmann series Class J, RK1, RK5 and T fuses. Using these tested SCCR levels also requires the power distribution block be installed in an enclosure with the minimum size indicated for each catalog number.

| Catalog no.      | Conductors (AWG/kcmil) |          | Fuse class and maximum amps* |         |                                      |                                    |                              | SCCR (kA) | Min. enclosure size (in) |
|------------------|------------------------|----------|------------------------------|---------|--------------------------------------|------------------------------------|------------------------------|-----------|--------------------------|
|                  | Lineside               | Loadside | G — SC (480 V)               | J — LPJ | RK1 — LPN-RK (250 V), LPS-RK (600 V) | RK5 — FRN-R (250 V), FRS-R (600 V) | T — JJN (300 V), JJS (600 V) |           |                          |
| PDB204-1, -3     | 2/0 - 8                | 2/0 - 8  | —                            | 200     | 100                                  | 60                                 | 200                          | 200       | 16 x 16 x 6.75           |
| PDB220-1, -3     | 2/0 - 8                | 4 - 12   | —                            | 200     | 100                                  | 60                                 | 200                          | 200       | 16 x 16 x 6.75           |
|                  |                        | 4 - 14   | 60                           | 175     | 100                                  | 30                                 | 175                          | 100       |                          |
| PDB280-1, -3     | 2/0 - 8                | Stud     | —                            | 200     | 100                                  | 60                                 | 200                          | 200       | 16 x 16 x 6.75           |
| PDB321-1, -2, -3 | 2/0 - 8                | 4 - 12   | —                            | 400     | 200                                  | 100                                | 400                          | 200       | 24 x 20 x 6.75           |
|                  |                        | 4 - 14   | 60                           | 175     | 100                                  | 30                                 | 175                          | 100       |                          |
| PDB323-1, -3     | 350 - 4                | 4 - 8    | —                            | 400     | 200                                  | 100                                | 400                          | 200       | 24 x 20 x 6.75           |
|                  |                        | 4 - 12   | 60                           | 175     | 100                                  | 30                                 | 175                          | 100       |                          |
| PDB370-1, -3     | 350 - 4                | 4 - 8    | —                            | 400     | 200                                  | 100                                | 400                          | 200       | 24 x 20 x 6.75           |
|                  |                        | 4 - 14   | 60                           | 175     | 100                                  | 30                                 | 175                          | 100       |                          |
| PDB371-1, -3     | 350 - 4                | 1/0 - 6  | —                            | 400     | 200                                  | 100                                | 400                          | 200       | 24 x 20 x 6.75           |
|                  |                        | 1/0 - 12 | 60                           | 175     | 100                                  | 30                                 | 175                          | 100       |                          |

Ampacities 75°C per NEC Table 310.16 and UL 508A Table 28.1.

\* Class CC 30 A (LP-CC-30, FNQ-R-30, KTK-R-30) or less are suitable for all SCCR in this table.

## Upstream circuit breakers for SCCR and minimum enclosure data

This table contains the tested SCCR levels for each PDB power distribution block using the specified lineside and loadside conductors and Eaton circuit breakers. Using these tested SCCR levels also requires the power distribution block be installed in an enclosure with the minimum size indicated for each catalog number.

## PDB\_ SCCR as rated with Eaton circuit breakers

|             | Suitable Cu conductors kcmil/AWG |          |                     |           | Overcurrent protection circuit breaker required                           |         | Min. enclosure size (in.) |
|-------------|----------------------------------|----------|---------------------|-----------|---|---------|---------------------------|
| Catalog no. | Lineside                         | Loadside | SCCR, RMS Sym. (kA) | Volts max | Type  | Max amp |                           |
| PDB220      | 2/0 - 8                          | 4 - 10   | 65                  | 480       | EGC125, E125C, EGH125, E125H  | 125     | 16 x 16 x 6.75            |
|             | 2/0 - 8                          | 12       | 22                  | 480       | EGC125, E125C, EGE125, E125E, EGS125, E125S, EGH125, E125H                | 125     |                           |
|             | 2/0 - 8                          | 14       | 14                  | 480       | EGC125, E125C, EGB125, E125B, EGE125, E125E, EGS125, E125S, EGH125, E125H | 125     |                           |
| PDB321      | 2/0 - 8                          | 4 - 10   | 65                  | 480       | EGC125, E125C, EGH125, E125H  | 125     | 24 x 20 x 6.75            |
|             | 2/0 - 8                          | 12       | 22                  | 480       | EGC125, E125C, EGE125, E125E, EGS125, E125S, EGH125, E125H                | 125     |                           |
|             | 2/0 - 8                          | 14       | 14                  | 480       | EGC125, E125C, EGB125, E125B, EGE125, E125E, EGS125, E125S, EGH125, E125H | 125     |                           |
| PDB323      | 350 - 4                          | 4 - 6    | 65                  | 480       | JGH250, J250H   | 250     | 24 x 20 x 6.75            |
|             | 350 - 4                          | 8        | 42                  | 480       | JGH250, J250H   | 250     |                           |
|             | 350 - 4                          | 10       | 14                  | 480       | JGH250, J250H, JGE250, J250E, JGS250, J250S,                              | 250     |                           |
|             | 350 - 4                          | 4 - 6    | 65                  | 480       | JGC250, J250C, JGU250, J250U, JGX250, J250X                               | 250     |                           |
|             |                                  | 8        | 42                  |           |   |         |                           |
|             |                                  | 10       | 25                  |           |   |         |                           |
|             |                                  | 8        | 50                  |           |   |         |                           |
| PDB370      | 350 - 4                          | 10       | 25                  |           |   |         |                           |
|             | 350 - 4                          | 4 - 6    | 65                  | 480       | JGH250, J250H   | 250     | 24 x 20 x 6.75            |
|             | 350 - 4                          | 8        | 42                  | 480       | JGH250, J250H   | 250     |                           |
|             | 350 - 4                          | 10       | 14                  | 480       | JGH250, J250H, JGE250, J250E, JGS250, J250S,                              | 250     |                           |
|             | 350 - 4                          | 4 - 6    | 65                  | 480       | JGC250, J250C, JGU250, J250U, JGX250, J250X                               | 250     |                           |
| 8           |                                  | 42       |                     |           |   |         |                           |
| PDB371      | 350 - 4                          | 10       | 25                  |           |   |         |                           |
|             | 350 - 4                          | 4 - 6    | 65                  | 480       | JGH250, J250H   | 250     | 24 x 20 x 6.75            |
|             | 350 - 4                          | 8        | 42                  | 480       | JGH250, J250H   | 250     |                           |
|             | 350 - 4                          | 10       | 14                  | 480       | JGH250, J250H, JGE250, J250E, JGS250, J250S,                              | 250     |                           |
|             | 350 - 4                          | 4 - 6    | 65                  | 480       | JGC250, J250C, JGU250, J250U, JGX250, J250X                               | 250     |                           |
| 8           |                                  | 50       |                     |           |   |         |                           |
|             |                                  | 10       | 25                  |           |   |         |                           |



## 160, 162, 163, 164 and 165 UL Recognized open power distribution blocks

UL Recognized power distribution blocks offer a variety of lineside and loadside port configurations for greater flexibility in panel wiring and wire management.

These blocks are UL Recognized to UL 1059 and rated for use in UL 508A industrial control panels.

Blocks are factory configured in 1-, 2 and 3-pole versions, and have optional covers to enhance safety (order covers separately).



### Ratings

- Volts 600 V
- Amps 175 to 1520 A
- SCCR up to 200 kA\* (see table for SCCR by catalog number)

\* Maximum SCCR contingent upon the application of an upstream current-limiting overcurrent protective device. See table for fusing requirements.

### Conductors†

- Stranded 75°C copper and aluminum
- Higher temperature rated conductors permitted with appropriate derating

† As specified in the catalog number table.

### Agency information

- UL 1059 Recognized, Guide XCFR2, File E62622
- CSA Certified, Class 6228-01, File 15364

### Flammability rating

- UL 94 V0

### Optional covers

- See table for catalog numbers and ordering details

### How to order

From the catalog number tables, select the catalog number that defines the desired lineside/loadside port and conductor characteristics.

Add to the catalog number the suffix that defines the desired pole configuration. Note, you must select from the available number of poles for each catalog number. These appear in the second column of the catalog number tables.

### Catalog number example — 16220-3 is a 3-pole 16220

Where:

- The prefix “16220” defines the block’s lineside characteristics (i.e., one conductor port per pole that accepts 2/0 - 14 Cu, or 2/0 - 8 Al conductors) and the loadside characteristics (i.e., four conductor ports per pole that each accepts 4 - 14 Cu or 4 - 8 Al conductors)
- The suffix “3” in this example defines this as a three-pole block
- See the catalog number tables for details on the available lineside/loadside characteristics

### Dual wire port application

- Rated for dual wire port application to increase the possible number of lineside and loadside connections. E.g., 16220-1 can accept two wires into the lineside port (4 - 14 Cu, 4 - 8 Al) and two wires per port (eight connections total) on the loadside lug (8 - 14 Cu, 8 Al).
- Dual wire applications are only viable when using two wires of the same size, stranding, and insulating and conductor material.

### Ferrule terminal application

- Bussmann series UL Recognized power distribution blocks are rated for use with UL Listed ferrules (see catalog number table for details).
- Ferrule applications allow for the use of a broader range of conductor stranding and simulate a more efficient, solid wire connection with the terminal port.
- Always use UL Listed ferrules in accordance with the manufacturer’s specifications and instructions.

### Optional covers

| For block catalog number starting | Order cover catalog number |
|-----------------------------------|----------------------------|
| 160__                             | CPB160-(poles)*            |
| 162__                             | CPB162-(poles)*            |
| 163__                             | CPDB-(poles)*              |
| 165__                             | CPDB165**                  |

\* Order one cover for each block by specifying the number of poles in the catalog number suffix. E.g., For the block catalog number 16021-4, order the cover catalog number CPD160-4.

\*\*Order one cover for each of the block’s poles. E.g., For block catalog number 16530-3, order three of cover catalog number CPDB165.

| Line/load port configuration | No. of poles | Current rating (A) | Lineside                              |                |                    |            | Loadside                              |                |                    |            |                |                         |
|------------------------------|--------------|--------------------|---------------------------------------|----------------|--------------------|------------|---------------------------------------|----------------|--------------------|------------|----------------|-------------------------|
|                              |              |                    | Wire size (Sol/ferrule unless noted)* | Wires per port | Torque N•m (lb-in) | Ports/pole | Wire size (Sol/ferrule unless noted)* | Wires per port | Torque N•m (lb-in) | Ports/pole | Max SCCR (kA)† | Catalog no.             |
|                              | 2, 3, 4      | 175                | 2/0 - 1 Cu/Al (Str)                   | 1              | 13.6 (120)         | 1          | 4 - 6 Cu/Al (Str)                     | 1              | 4.0 (35)           | 6          | 10             | 16021-__                |
|                              |              |                    | 2 - 3 Cu/Al                           | 1              |                    |            | 8 Cu                                  | 1              | 2.8 (25)           |            |                |                         |
|                              |              |                    | 4 - 8 Cu/Al                           | 1-2            |                    |            | 8 Al (Str)                            | 1-2            | 2.3 (20)           |            |                |                         |
|                              |              |                    | 10 - 14 Cu                            | 1-2            |                    |            | 10 - 14 Cu                            | 1-2            | 2.3 (20)           |            |                |                         |
|                              | 1, 2, 3      | 175                | 2/0 - 1 Cu/Al (Str)                   | 1              | 13.6 (120)         | 1          | 4 - 6 Cu/Al (Str)                     | 1              | 4.0 (35)           | 4          | 200            | 16220-__                |
|                              |              |                    | 2 - 3 Cu/Al                           | 1              |                    |            | 8 Cu                                  | 1              | 2.8 (25)           |            |                |                         |
|                              |              |                    | 4 - 8 Cu/Al                           | 1-2            |                    |            | 8 Al (Str)                            | 1-2            | 2.3 (20)           |            |                |                         |
|                              |              |                    | 10 - 14 Cu                            | 1-2            |                    |            | 10 - 14 Cu                            | 1-2            | 2.3 (20)           |            |                |                         |
|                              | 1, 2, 3      | 175                | 2/0 - 1 Cu/Al (Str)                   | 1              | 13.6 (120)         | 1          | 4 - 6 Cu/Al (Str)                     | 1              | 4.0 (35)           | 4          | 200            | 16220- <sub>H</sub> ††† |
|                              |              |                    | 2 - 3 Cu/Al                           | 1              |                    |            | 8 Cu                                  | 1              | 2.8 (25)           |            |                |                         |
|                              |              |                    | 4 - 8 Cu/Al                           | 1-2            |                    |            | 8 Al (Str)                            | 1-2            | 2.3 (20)           |            |                |                         |
|                              |              |                    | 10 - 14 Cu                            | 1-2            |                    |            | 10 - 14 Cu                            | 1-2            | 2.3 (20)           |            |                |                         |
|                              | 1, 2, 3      | 175                | 2/0 - 1 Cu/Al (Str)                   | 1              | 13.6 (120)         | 1          | 4 - 6 Cu/Al (Str)                     | 1              | 4.0 (35)           | 6          | 200            | 16321-__                |
|                              |              |                    | 2 - 3 Cu/Al                           | 1              |                    |            | 8 Cu                                  | 1              | 2.8 (25)           |            |                |                         |
|                              |              |                    | 4 - 8 Cu/Al                           | 1-2            |                    |            | 8 Al (Str)                            | 1-2            | 2.3 (20)           |            |                |                         |
|                              |              |                    | 10 - 14 Cu                            | 1-2            |                    |            | 10 - 14 Cu                            | 1-2            | 2.3 (20)           |            |                |                         |
|                              | 2,3,4        | 310                | 350kcmil - 2/0 Cu/Al (Str)            | 1              | 31.1 (275)††       | 1          | 4 - 6 Cu/Al (Str)                     | 1              | 4.0 (35)           | 6          | 10             | 16023-__                |
|                              |              |                    | 1/0 Cu/Al (Str)                       | 1-2            |                    |            | 8 Cu                                  | 1              | 2.8 (25)           |            |                |                         |
|                              |              |                    | 1 - 6 Cu/Al                           | 1-2            |                    |            | 8 Al (Str)                            | 1-2            | 2.3 (20)           |            |                |                         |
|                              |              |                    |                                       |                |                    |            | 10 - 12 Al (Str)                      | 1              | 2.3 (20)           |            |                |                         |
|                              | 1, 2, 3      | 310                | 350kcmil - 2/0 Cu/Al (Str)            | 1              | 31.1 (275)††       | 1          | 4 - 6 Cu/Al (Str)                     | 1              | 4.0 (35)           | 6          | 200            | 16323-__                |
|                              |              |                    | 1/0 Cu/Al (Str)                       | 1-2            |                    |            | 8 Cu                                  | 1              | 2.8 (25)           |            |                |                         |
|                              |              |                    | 1 - 6 Cu/Al                           | 1-2            |                    |            | 8 Al (Str)                            | 1-2            | 2.3 (20)           |            |                |                         |
|                              |              |                    |                                       |                |                    |            | 10 - 12 Al (Str)                      | 1              | 2.3 (20)           |            |                |                         |
|                              | 1, 2, 3      | 310                | 350kcmil - 2/0 Cu/Al (Str)            | 1              | 31.1 (275)††       | 1          | 2 - 3 Cu/Al (Str)                     | 1              | 5.6 (50)           | 3          | 10             | 16332-__                |
|                              |              |                    |                                       |                |                    |            | 4 Cu/Al                               | 1              | 5.1 (45)           |            |                |                         |
|                              |              |                    |                                       |                |                    |            | 6 Cu/Al                               | 1-2            | 4.5 (40)           |            |                |                         |
|                              |              |                    |                                       |                |                    |            | 8 Cu/Al                               | 1-2            | 4.0 (35)           |            |                |                         |
|                              | 1, 2, 3      | 310                | 1/0 Cu/Al (Str)                       | 1-2            | 31.1 (275)††       | 1          | 10 - 14 Cu                            | 1-2            | 4.0 (35)           | 2          |                |                         |
|                              |              |                    | 1 - 6 Cu/Al                           | 1-2            |                    |            | 1/0 - 3 Cu/Al (Str)                   | 1              | 13.6 (120)         |            |                |                         |
|                              |              |                    |                                       |                |                    |            | 4 Cu                                  | 1              | 13.6 (120)         |            |                |                         |
|                              |              |                    |                                       |                |                    |            | 4 - 8 Al (Str)                        | 1-2            | 13.6 (120)         |            |                |                         |
|                              | 1, 2, 3      | 310                | 350kcmil - 2/0 Cu/Al (Str)            | 1              | 31.1 (275)††       | 1          | 6 - 14 Cu                             | 1-2            | 13.6 (120)         | 2          |                |                         |
|                              |              |                    |                                       |                |                    |            | 4 - 6 Cu/Al (Str)                     | 1              | 4.0 (35)           |            |                |                         |
|                              |              |                    |                                       |                |                    |            | 8 Cu                                  | 1              | 2.8 (25)           |            |                |                         |
|                              |              |                    |                                       |                |                    |            | 8 Al (Str)                            | 1-2            | 2.3 (20)           |            |                |                         |
|                              | 1, 2, 3      | 310                | 1/0 Cu/Al (Str)                       | 1-2            | 31.1 (275)††       | 1          | 10 - 12 Al (Str)                      | 1              | 2.3 (20)           | 12         | 200            | 16370-__                |
|                              |              |                    | 1 - 6 Cu/Al                           | 1-2            |                    |            | 10 - 14 Cu                            | 1-2            | 2.3 (20)           |            |                |                         |
|                              |              |                    |                                       |                |                    |            | 2 - 3 Cu/Al (Str)                     | 1              | 5.6 (50)           |            |                |                         |
|                              |              |                    |                                       |                |                    |            | 4 - 6 Cu/Al (Str)                     | 1              | 5.1 (45)           |            |                |                         |
|                              | 1, 2, 3      | 310                | 350kcmil - 2/0 Cu/Al (Str)            | 1              | 31.1 (275)††       | 1          | 8 Cu/Al (Str)                         | 1              | 4.5 (40)           | 6          | 200            | 16371-__                |
|                              |              |                    | 1/0 Cu/Al (Str)                       | 1-2            |                    |            | 10 - 14 Cu (Str)                      | 1              | 4.0 (35)           |            |                |                         |
|                              |              |                    |                                       |                |                    |            | 1/0 - 3 Cu/Al (Str)                   | 1              | 13.6 (120)         |            |                |                         |
|                              |              |                    |                                       |                |                    |            | 4 - 8 Cu/Al                           | 1              | 13.6 (120)         |            |                |                         |
|                              | 1, 2, 3      | 310                | 1/0 Cu/Al (Str)                       | 1-2            | 31.1 (275)††       | 1          | 10 - 14 Cu                            | 1              | 13.6 (120)         | 3          |                |                         |
|                              |              |                    | 1 - 6 Cu/Al                           | 1-2            |                    |            | 6 - 14 Cu                             | 2              | 13.6 (120)         |            |                |                         |
|                              |              |                    |                                       |                |                    |            | 4 - 8 Al (Str)                        | 2              | 13.6 (120)         |            |                |                         |
|                              |              |                    |                                       |                |                    |            | 10 Cu/Al                              | 1              | 13.6 (120)         |            |                |                         |
|                              | 1, 2, 3      | 310                | 350kcmil - 2/0 Cu/Al (Str)            | 1              | 31.1 (275)††       | 1          | 12 - 14 Cu                            | 1              | 0.8 (7)            | 21         | 10             | 16372-__                |
|                              |              |                    | 1/0 Cu/Al (Str)                       | 1-2            |                    |            |                                       |                |                    |            |                |                         |
|                              |              |                    | 1 - 6 Cu/Al                           | 1-2            |                    |            |                                       |                |                    |            |                |                         |
|                              |              |                    |                                       |                |                    |            |                                       |                |                    |            |                |                         |

\* 75°C wire (higher temperature rated wire acceptable with appropriate derating). Using a ferrule on a stranded conductor requires a correctly sized UL Listed ferrule (customer supplied) applied according to the manufacturer's specifications. Ferrule ratings apply to copper wire only.

\*\* Not covered by CSA certification.

† See Short-Circuit Current Ratings table for the tested upstream overcurrent protective devices necessary for achieving these SCCR's.

†† Torque rating for dual wire and ferrule application is 30.5 N•m (270 lb-in).

††† Configuration includes hex screws.

| Line/load port configuration | No. of poles | Current rating (A) | Lineside                              |                |                          | Loadside   |                                       |                |                    |            |    | Max SCCR (kA) <sup>†</sup> | Catalog no. |
|------------------------------|--------------|--------------------|---------------------------------------|----------------|--------------------------|------------|---------------------------------------|----------------|--------------------|------------|----|----------------------------|-------------|
|                              |              |                    | Wire size (Sol/ferrule unless noted)* | Wires per port | Torque N•m (lb-in)       | Ports/pole | Wire size (Sol/ferrule unless noted)* | Wires per port | Torque N•m (lb-in) | Ports/pole |    |                            |             |
|                              | 1, 2, 3      | 310                | 350kcmil - 2/0 Cu/Al (Str)            | 1              | 31.1 (275) <sup>††</sup> | 1          | 10 Cu/Al                              | 1              | 0.8 (7)            | 14         | 10 | 16373-                     | —           |
|                              |              |                    | 1/0 Cu/Al (Str)                       | 1-2            |                          |            | 12 - 14 Cu                            | 1              |                    |            |    |                            |             |
|                              |              |                    | 1 - 6 Cu/Al                           | 1-2            |                          |            | 1/0 - 3 Cu/Al (Str)                   | 1              |                    |            |    |                            |             |
|                              | 1, 2, 3      | 350                | 2/0 - 1 Cu/Al (Str)                   | 1              | 13.6 (120)               | 2          | 4 Cu                                  | 1              |                    |            | 10 | 16325-                     | —           |
|                              |              |                    | 2 - 3 Cu/Al                           | 1              |                          |            | 6 - 14 Cu                             | 1-2            | 13.6 (120)         | 3          |    |                            |             |
|                              |              |                    | 4 - 8 Cu/Al                           | 1-2            |                          |            | 4 - 8 Al (Str)                        | 1-2            |                    |            |    |                            |             |
|                              | 1, 2, 3      | 380                | 500kcmil - 4/0 Cu/Al (Str)            | 1              | 56.5 (500)               | 1          | 10 - 14 Cu                            | 1-2            | 2.3 (20)           |            | 10 | 16330-                     | —           |
|                              |              |                    | 3/0 - 1/0 Cu/Al (Str)                 | 1-2            |                          |            | 10 - 14 Al (Str)                      | 1              |                    |            |    |                            |             |
|                              |              |                    | 1 - 6 Cu/Al                           | 1-2            |                          |            | 2 - 3 Cu/Al (Str)                     | 1              | 5.6 (50)           |            |    |                            |             |
|                              | 1, 2, 3      | 380                | 500kcmil - 4/0 Cu/Al (Str)            | 1              | 56.5 (500)               | 1          | 4 Cu/Al                               | 1              | 5.1 (45)           |            | 10 | 16335-                     | —           |
|                              |              |                    | 3/0 - 1/0 Cu/Al (Str)                 | 1-2            |                          |            | 6 Cu/Al                               | 1-2            | 4.5 (40)           | 3          |    |                            |             |
|                              |              |                    | 1 - 6 Cu/Al                           | 1-2            |                          |            | 8 Cu/Al                               | 1-2            | 4.0 (35)           |            |    |                            |             |
|                              | 1, 2, 3      | 380                | 500kcmil - 4/0 Cu/Al (Str)            | 1              | 56.5 (500)               | 1          | 10 - 14 Cu                            | 1-2            | 2.3 (20)           |            | 10 | 16541-                     | —           |
|                              |              |                    | 3/0 - 1/0 Cu/Al (Str)                 | 1-2            |                          |            | 10 - 14 Al (Str)                      | 1              |                    |            |    |                            |             |
|                              |              |                    | 1 - 6 Cu/Al                           | 1-2            |                          |            | 4 - 6 Cu/Al (Str)                     | 1              | 4.0 (35)           |            |    |                            |             |
|                              | 1, 2, 3      | 420                | 600kcmil - 2 Cu/Al (Str)              | 1              | 56.5 (500)               | 1          | 8 Cu                                  | 1              | 2.8 (25)           |            | 12 | 16375-                     | —           |
|                              |              |                    |                                       |                |                          |            | 8 Al (Str)                            | 1-2            |                    |            |    |                            |             |
|                              |              |                    |                                       |                |                          |            | 10 - 12 Al (Str)                      | 1              | 2.3 (20)           |            |    |                            |             |

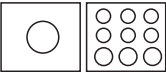
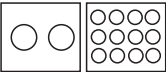
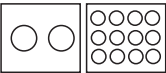

\* 75°C wire (higher temperature rated wire acceptable with appropriate derating). Using a ferrule on a stranded conductor requires a correctly sized UL Listed ferrule (customer supplied) applied according to the manufacturer's specifications. Ferrule ratings apply to copper wire only.

† See Short-Circuit Current Ratings table for the tested upstream overcurrent protective devices necessary for achieving these SCCR.

††Dual wire and ferrule application torque rating = 30.5 N•m (270 lb-in).

### Short-Circuit Current Rating (SCCR) data

| Catalog no. | No. of poles | Conductors (AWG/kcmil) |          | Fuse Class/Bussmann series symbol/amp rating |                       |                      |                 |           |
|-------------|--------------|------------------------|----------|--|-----------------------|----------------------|-----------------|-----------|
|             |              | Lineside               | Loadside | J — LPJ                                      | RK1 — LPN-RK (250 V), | RK5 — FRN-R (250 V), | T — JN (300 V), | SCCR (kA) |
|             |              |                        |          |  | LPS-RK (600 V)        | FRS-R (600 V)        | JJS (600 V)     |           |
| 16220-__    | 1, 2, 3      | 2/0 - 8                | 4 - 12   | 200  | 200                   | 60                   | 200             | 200       |
|             |              |                        | 4 - 14   | 175  | 100                   | 60                   | 175             | 100       |
| 16321-__    | 1, 2, 3      | 2/0 - 8                | 4 - 12   | 400  | 200                   | 100                  | 400             | 200       |
|             |              |                        |          | 175  | 100                   | 60                   | 175             | 100       |
| 16323-__    | 1, 2, 3      | 350 - 4                | 4 - 8    | 400  | 200                   | 100                  | 400             | 200       |
|             |              |                        | 4 - 12   | 175  | 100                   | 60                   | 175             | 100       |
| 16370-__    | 1, 2, 3      | 350 - 4                | 4 - 8    | 400  | 200                   | 100                  | 400             | 200       |
|             |              |                        | 4 - 14   | 175  | 100                   | 60                   | 175             | 100       |
| 16371-__    | 1, 2, 3      | 350 - 4                | 1/0 - 6  | 400  | 200                   | 100                  | 400             | 200       |
|             |              |                        | 1/0 - 12 | 175  | 100                   | 60                   | 175             | 100       |

| Line/load port configuration  | No. of poles | Current rating (A) | Lineside                              |                |                    |            | Loadside                              |                |                    |            |    | Max SCCR (kA)† | Catalog no. |
|---|--------------|--------------------|---------------------------------------|----------------|--------------------|------------|---------------------------------------|----------------|--------------------|------------|----|----------------|-------------|
|   |              |                    | Wire size (Str/ferrule unless noted)* | Wires per port | Torque N·m (lb-in) | Ports/pole | Wire size (Str/ferrule unless noted)* | Wires per port | Torque N·m (lb-in) | Ports/pole |    |                |             |
|   | 1, 2, 3      | 420                | 600kcmil - 2 Cu/Al (Str)              | 1              | 56.5 (500)         | 1          | 2 - 3 Cu/Al (Str)                     | 1              | 5.6 (50)           | 6          | 10 | 16376_         |             |
|   |              |                    |                                       |                |                    |            | 4 Cu/Al                               | 1              | 5.1 (45)           |            |    |                |             |
|   |              |                    |                                       |                |                    |            | 6 Cu/Al                               | 1-2            | 4.5 (40)           |            |    |                |             |
|   |              |                    |                                       |                |                    |            | 8 Cu/Al                               | 1-2            | 4.0 (35)           |            |    |                |             |
|   |              |                    |                                       |                |                    |            | 10 - 14 Cu                            | 1-2            | 4.0 (35)           | 3          |    |                |             |
|   |              |                    |                                       |                |                    |            | 1/0 - 3 Cu/Al (Str)                   | 1              | 13.6 (120)         |            |    |                |             |
|   | 1, 2, 3      | 570                | 300kcmil - 2/0 Cu/Al (Str)            | 1              | 31.1 (275)††       | 2          | 4 - 6 Cu/Al (Str)                     | 1              | 4.0 (35)           | 12         | 10 | 16377_         |             |
|   |              |                    | 1/0 Cu/Al (Str)                       | 1-2            |                    |            | 8 Cu                                  | 1              | 2.8 (25)           |            |    |                |             |
|   |              |                    | 1 - 2 Cu/Al                           | 1-2            |                    |            | 8 Al (Str)                            | 1-2            | 2.3 (20)           |            |    |                |             |
|   |              |                    | 4 Cu/Al (Str)                         | 1-2            |                    |            | 10 - 12 Al (Str)                      | 1              | 2.3 (20)           |            |    |                |             |
|   |              |                    | 500kcmil - 4/0 Cu/Al (Str)            | 1              |                    |            | 10 - 14 Cu                            | 1-2            | 4.0 (35)           |            |    |                |             |
|   |              |                    | 3/0 - 1/0 Cu/Al (Str)                 | 1-2            |                    |            | 4 - 6 Cu/Al (Str)                     | 1              | 4.0 (35)           |            |    |                |             |
|   | 1, 2, 3      | 760                | 1 - 6 Cu/Al                           | 1-2            | 56.5 (500)         | 2          | 8 Cu                                  | 1              | 2.8 (25)           | 12         | 10 | 16530_         |             |
|   |              |                    |                                       |                |                    |            | 8 Al (Str)                            | 1-2            | 2.3 (20)           |            |    |                |             |
|   |              |                    |                                       |                |                    |            | 10 - 14 Al (Str)                      | 1              | 2.3 (20)           |            |    |                |             |
|   |              |                    |                                       |                |                    |            | 10 - 14 Cu                            | 1-2            | 13.6 (120)         |            |    |                | 4           |
|   |              |                    |                                       |                |                    |            | 4 - 6 Cu/Al (Str)                     | 1              | 4.0 (35)           |            |    |                |             |
|   |              |                    |                                       |                |                    |            | 8 Cu                                  | 1              | 2.8 (25)           |            |    |                | 4           |
| 8 Al (Str)  | 1-2          | 2.3 (20)           |                                       |                |                    |            |                                       |                |                    |            |    |                |             |
| 10 - 14 Al (Str)  | 1            | 4.0 (35)           |                                       |                |                    |            |                                       |                |                    |            |    |                |             |
| 10 - 14 Cu  | 1-2          | 5.6 (50)           | 22                                    |                |                    |            |                                       |                |                    |            |    |                |             |
| 2 - 3 Cu/Al (Str)   | 1            | 5.1 (45)           |                                       |                |                    |            |                                       |                |                    |            |    |                |             |
| 4 Cu/Al   | 1-2          | 4.5 (40)           |                                       |                |                    |            |                                       |                |                    |            |    |                |             |
| 6 Cu/Al   | 1-2          | 4.0 (35)           |                                       |                |                    |            |                                       |                |                    |            |    |                |             |
|  | 1            | 1520               | 500kcmil - 4/0 Cu/Al (Str)            | 1              | 56.5 (500)         | 4          | 8 Cu/Al                               | 1-2            | 13.6 (120)         | 6          | 10 | 16400          |             |
|   |              |                    | 3/0 - 1/0 Cu/Al (Str)                 | 1-2            |                    |            | 1/0 - 3 Cu/Al (Str)                   | 1              | 4.0 (35)           |            |    |                |             |
|   |              |                    | 1 - 6 Cu/Al                           | 1-2            |                    |            | 4 Cu                                  | 1              | 5.1 (45)           |            |    |                |             |
|   |              |                    | 4 - 8 Al (Str)                        | 1-2            |                    |            | 4.5 (40)                              |                |                    |            |    |                |             |
|   |              |                    | 6 - 14 Cu                             | 1-2            |                    |            | 13.6 (120)                            |                |                    |            |    |                |             |
|   |              |                    | 4 - 8 Al (Str)                        | 1-2            |                    |            | 4.0 (35)                              |                |                    |            |    |                |             |

\* 75°C wire (higher temperature rated wire acceptable with appropriate derating). Using a ferrule on a stranded conductor requires a correctly sized UL Listed ferrule (customer supplied) applied according to the manufacturer's specifications. Ferrule ratings apply to copper wire only.

† See Short-Circuit Current Ratings table for the tested upstream overcurrent protective devices necessary for achieving these SCCRs.

††Dual wire and ferrule application torque rating = 30.5 N•m (270 lb-in).

## 162, 163 and 165 UL Recognized stud power terminal blocks

Port-to-stud and stud-to-stud power terminal blocks are available with current ratings up to 760 A. These blocks provide a convenient stud connection means for lug/ring wire terminals.

Factory configured from 1- to 3-poles (catalog number dependent) with optional covers to enhance safety (order covers separately), these blocks are UL Recognized to UL 1059 and rated for use in UL 508A industrial control panels.



### Ratings

- Volts 600 V
- Amps 150 up to 760 A
- SCCR up to 200 kA\* (see table for SCCR by catalog number)

\* Maximum SCCR contingent upon the application of an upstream current-limiting overcurrent protective device. See table for fusing requirements.

### Conductors†

- Stranded 75°C copper and aluminum
- Higher temperature rated conductors permitted with appropriate derating

† As specified in the catalog number table.

### Agency information

- UL 1059 Recognized, Guide XCFR2, File E62622
- CSA Certified, Class 6228-01, File 15364

### Flammability rating

- UL 94 V0

### Optional covers

- See table for catalog numbers specific to each block

### How to order

From the catalog number tables, select the catalog number that defines the desired lineside/loadside port and conductor characteristics.

Add to the catalog number the suffix that defines the desired pole configuration. Note, you must select from the available number of poles for each catalog number. These appear in the second column of the catalog number tables.

### Catalog number example — 16280-3 is a 3-pole 16280

Where:

- The prefix “16280” defines the block’s lineside characteristics (i.e., one conductor port per pole that accepts 2/0 - 14 Cu/Al conductors) and the loadside characteristics (i.e., 1/4-20 x 3/4” stud)
- The suffix “3” in this example defines this as a three-pole block
- See the catalog number tables for details on the available lineside/loadside characteristics

### Dual wire port application

- Rated for dual wire port application to increase the possible number of lineside and loadside connections. E.g., 16280-1 can accept two wires into the lineside port (#4 - #8 Cu/Al, #10 - #14 Cu).
- Dual wire applications are only viable when using two wires of the same size, stranding, and insulating and conductor material in the same port

### Ferrule terminal application

- Busmann series stud blocks are rated for use with UL Listed ferrules (see catalog number table for details). Ferrule ratings apply to copper wire only.
- Ferrule applications allow for the use of a broader range of conductor stranding and simulate a more efficient, solid wire connection with the terminal port
- Always use UL Listed ferrules in accordance with the manufacturer’s specifications and instructions

### Optional covers

Electrical safety can be enhanced by installing optional covers. From the table below, order the cover catalog number that matches the block catalog number.

| Block catalog no. | Poles | Cover catalog no. |
|-------------------|-------|-------------------|
| 16280-1           | 1     | CPB162-1*         |
| 16280-2           | 2     | CPB162-2*         |
| 16280-3           | 3     | CPB162-3*         |
| 16280-2-M         | 2     | CPB162-2*         |
| 16280-3-M         | 3     | CPB162-3*         |
| 16281-1           | 1     | CPB162-1*         |
| 16281-2           | 2     | CPB162-2*         |
| 16281-3           | 3     | CPB162-3*         |
| 16290-1           | 1     | CPB162-1*         |
| 16290-2           | 2     | CPB162-2*         |
| 16290-3           | 3     | CPD162-3*         |
| 16378-1           | 1     | CPDB-1*           |
| 16378-2           | 2     | CPDB-2*           |
| 16378-3           | 3     | CPDB-3*           |
| 16383-1           | 1     | CPDB-1*           |
| 16383-2           | 2     | CPDB-2*           |
| 16383-3           | 3     | CPDB-3*           |
| 16390-1           | 1     | CPDB-1*           |
| 16390-2           | 2     | CPDB-2*           |
| 16390-3           | 3     | CPDB-3*           |
| 16392-1-H         | 1     | CPDB-1*           |
| 16392-2-H         | 2     | CPDB-2*           |
| 16392-3-H         | 3     | CPDB-3*           |
| 16394-1           | 1     | CPDB-1*           |
| 16394-2           | 2     | CPDB-2*           |
| 16394-3           | 3     | CPDB-3*           |
| 16395-1           | 1     | CPDB-1*           |
| 16395-2           | 2     | CPDB-2*           |
| 16395-3           | 3     | CPDB-3*           |
| 16582-1           | 1     | CPDB165**         |
| 16582-2           | 2     | CPDB165**         |
| 16582-3           | 3     | CPDB165**         |
| 16591-1           | 1     | CPDB165**         |
| 16591-2           | 2     | CPDB165**         |
| 16591-3           | 3     | CPDB165**         |
| 16593-1           | 1     | CPDB165**         |
| 16593-2           | 2     | CPDB165**         |
| 16593-3           | 3     | CPDB165**         |

\* Cover catalog number provides one individual cover for each block.

\*\* Order one cover for each pole.

| Lineside   |   |                    |  |                            |                    |            | Loadside            |                       |           |                  |                         |
|--|---|--------------------|--|----------------------------|--------------------|------------|---------------------|-----------------------|-----------|------------------|-------------------------|
| Line/load configuration  | No. of poles  | Current rating (A) | Wire/stud size (Str/ferrule unless noted)* | Wires per port             | Torque N•m (lb-in) | Ports/pole | Stud/connector size | Studs/pole            | SCCR (kA) | Catalog no.      |                         |
| Connector - to - stud  |   |                    |  |                            |                    |            |                     |                       |           |                  |                         |
|    |    | 1, 2, 3            | 175  | 2/0 - 1 Cu/Al (Str)        | 1                  | 13.6 (120) | 1                   | 1/4-20 x 3/4" stud    | 1         | 200 <sup>†</sup> | 16280-_* **             |
|  |   |                    |  | 2 - 3 Cu/Al                |                    |            |                     |                       |           |                  |                         |
|  |   |                    |  | 4 - 8 Cu/Al                |                    |            |                     |                       |           |                  |                         |
|  |   |                    |  | 10 - 14 Cu                 |                    |            |                     |                       |           |                  |                         |
|    |    | 2, 3               | 175  | 2/0 - 1 Cu/Al (Str)        | 1                  | 13.6 (120) | 1                   | M6 x 1" stud          | 1         | 200 <sup>†</sup> | 16280-_-M               |
|  |   |                    |  | 2 - 3 Cu/Al                |                    |            |                     |                       |           |                  |                         |
|  |   |                    |  | 4 - 8 Cu/Al                |                    |            |                     |                       |           |                  |                         |
|  |   |                    |  | 10 - 14 Cu                 |                    |            |                     |                       |           |                  |                         |
|    |    | 1, 2, 3            | 175  | 2/0 - 1 Cu/Al (Str)        | 1                  | 13.6 (120) | 1                   | 1/4-20 tapped hole    | 1         | 10               | 16281-_* **             |
|  |   |                    |  | 2 - 3 Cu/Al                |                    |            |                     |                       |           |                  |                         |
|  |   |                    |  | 4 - 8 Cu/Al                |                    |            |                     |                       |           |                  |                         |
|  |   |                    |  | 10 - 14 Cu                 |                    |            |                     |                       |           |                  |                         |
|    |    | 1, 2, 3            | 380  | 500kcmil - 4/0 Cu/Al (Str) | 1                  | 56.5 (500) | 1                   | 1/4-20 x 1" stud      | 2         | 10               | 16378-_-                |
|  |   |                    |  | 3/0 - 1/0 Cu/Al (Str)      |                    |            |                     |                       |           |                  |                         |
|  |   |                    |  | 1 - 6 Cu/Al                |                    |            |                     |                       |           |                  |                         |
|  |   |                    |  |                            |                    |            |                     |                       |           |                  |                         |
|    |    | 1, 2, 3            | 380  | 500kcmil - 4/0 Cu/Al (Str) | 1                  | 56.5 (500) | 1                   | 3/8-16 x 1" stud      | 1         | 10               | 16383-_-                |
|  |   |                    |  | 3/0 - 1/0 Cu/Al (Str)      |                    |            |                     |                       |           |                  |                         |
|  |   |                    |  | 1 - 6 Cu/Al                |                    |            |                     |                       |           |                  |                         |
|  |   |                    |  |                            |                    |            |                     |                       |           |                  |                         |
|    |    | 1, 2, 3            | 760  | 500kcmil - 4/0 Cu/Al (Str) | 1                  | 56.5 (500) | 2                   | 3/8-16 x 1-5/8" stud  | 2         | 10               | 16582-_-                |
|  |   |                    |  | 3/0 - 1/0 Cu/Al (Str)      |                    |            |                     |                       |           |                  |                         |
|  |   |                    |  | 1 - 6 Cu/Al                |                    |            |                     |                       |           |                  |                         |
|  |   |                    |  |                            |                    |            |                     |                       |           |                  |                         |
| Stud - to - stud   |   |                    |  |                            |                    |            |                     |                       |           |                  |                         |
|   |   | 1, 2, 3            | 175  | 1/4-20 x 3/4" stud         |                    |            | 1                   | 1/4-20 x 3/4" stud    | 1         | 10               | 16290-_* **             |
|  |  | 1, 2, 3            | 250  | 3/8-16 x 1-1/8" stud       |                    |            | 1                   | 3/8-16 x 1-1/8" stud  | 1         | 10               | 16390-_-                |
|  |  | 1, 2, 3            | 310  | 3/8-16 x 1-7/16" stud      |                    |            | 1                   | 1/4-20 x 9/16" stud   | 2         | 10               | 16395-_-                |
|  |  | 1, 2, 3            | 400  | 3/8-16 x 1-1/8" stud       |                    |            | 1                   | 3/8-16 x 1-1/8" stud  | 1         | 10               | 16392-_-H <sup>††</sup> |
|  |  | 1, 2, 3            | 400  | 1/2-13 x 1-1/16" stud      |                    |            | 1                   | 1/2-13 x 1-1/16" stud | 1         | 10               | 16394-_-                |
|  |  | 1, 2, 3            | 400  | 3/8-16 x 1-7/16" stud      |                    |            | 1                   | 3/8-16 x 1-7/16" stud | 2         | 10               | 16591-_* **             |
|  |  | 1, 2, 3            | 600  | 1/2-13 x 1" stud           |                    |            | 1                   | 1/2-13 x 1" stud      | 1         | 10               | 16593-_-                |

\* 75°C wire (higher temperature rated wire acceptable with appropriate derating). Using a ferrule on a stranded conductor requires a correctly sized UL Listed ferrule (customer supplied) applied according to the manufacturer's specifications. Ferrule ratings apply to copper wire only.

\*\*Not covered by CSA certification.

† See table below for the tested upstream overcurrent protective devices necessary for achieving this SCCR.

††Configuration includes washers and hex nuts for each stud.

#### Short-Circuit Current Rating (SCCR) data for block 16280-\_-

| Catalog no. | No. of poles | Conductors (AWG) |                 | Fuse class/Bussmann series symbol/amp rating |                                  |                                |                            |     | SCCR (kA) |
|-------------|--------------|------------------|-----------------|--|----------------------------------|--------------------------------|----------------------------|-----|-----------|
|             |              | Lineside         | Loadside        | Class J LPJ                                  | Class RK1                        | Class RK5                      | Class T                    |     |           |
|             |              |                  |                 |  | LPN-RK (250 V)<br>LPS-RK (600 V) | FRN-R (250 V)<br>FRS-R (600 V) | JJN (300 V)<br>JJS (600 V) |     |           |
| 16280-      | 1, 2, 3      | 2/0 - 8          | 1/4-20x3/4 stud | 200  | 200                              | 60                             | 200                        | 200 |           |



## 160, 162, 163 and 165 UL Recognized power splicer blocks

Splicer blocks allow for increasing or decreasing wire size within a circuit to accommodate different connections from the power source to the branch load.

These blocks are factory configured from 1- to 4-poles (catalog number dependent) for wire sizes up to 500kcmil and amp ratings up to 760 A. Optional covers are available to enhance safety (order covers separately).

These blocks are UL Recognized to UL 1059 and rated for use in UL 508A industrial control panels.

### Ratings

- Volts 600 V
- Amps 115 to 760 A
- SCCR up to 200 kA\* (see table for SCCR by catalog number)

\* Maximum SCCR contingent upon the application of an upstream current-limiting overcurrent protective device. See table for fusing requirements.

### Conductors†

- Stranded 75°C copper and aluminum
- Higher temperature rated conductors permitted with appropriate derating

† As specified in the catalog number table.

### Agency information

- UL 1059 Recognized, Guide XCFR2, File E62622
- CSA® Certified, Class 6228-01, File 15364

### Flammability rating

- UL 94 V0

### Optional covers

- See table for catalog numbers specific to each block

### How to order

From the catalog number tables, select the catalog number that defines the desired lineside/loadside port and conductor characteristics.

Add to the catalog number the suffix that defines the desired pole configuration. Note, you must select from the available number of poles for each catalog number. These appear in the second column of the catalog number tables.

### Catalog number example — 16204-3 is a 3-pole 16204

Where:

- The prefix “16204” defines the block’s lineside and loadside characteristics (i.e., conductor port per pole that accepts 2/0 - #14 Cu, or 2/0 - #12 Al conductors)
- The suffix “3” in this example defines this as a three-pole block
- See the catalog number tables for details on the available lineside/loadside characteristics



### Dual wire port application

- Rated for dual wire port application to increase the possible number of lineside and loadside connections. E.g., 16303-1 can accept two wires into the lineside port (1/0 - #6 Cu/Al) and two wires per port (2 connections per pole total) on the loadside lug (1/0 - #6 Cu/Al).
- Dual wire applications are only viable when using two wires of the same size, stranding, and insulating and conductor material in the same port.

### Ferrule terminal application

- Bussmann series splicer blocks are rated for use with UL Listed ferrules (see catalog number table for details). Ferrule ratings apply to copper wire only.
- Ferrule applications allow for the use of a broader range of conductor stranding and simulate a more efficient, solid wire connection with the PDB terminal port
- Always use UL Listed ferrules in accordance with the manufacturer’s specifications and instructions

### Optional covers

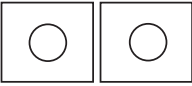
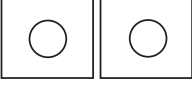
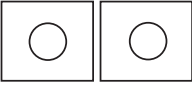







Electrical safety can be enhanced by installing optional covers. From the table below, order the cover catalog number that matches the block catalog number.

| Block catalog no. | Poles | Cover catalog no. |
|-------------------|-------|-------------------|
| 16000-2           | 2     | CPB160-2*         |
| 16000-3           | 3     | CPB160-3*         |
| 16000-4           | 4     | CPB160-4*         |
| 16003-2           | 2     | CPB160-2*         |
| 16003-3           | 3     | CPB160-3*         |
| 16003-4           | 4     | CPB160-4*         |
| 16005-2           | 2     | CPB160-2*         |
| 16005-3           | 3     | CPB160-3*         |
| 16005-4           | 4     | CPB160-4*         |
| 16200-1           | 1     | CPB162-1*         |
| 16200-2           | 2     | CPB162-2*         |
| 16200-3           | 3     | CPB162-3*         |
| 16201-1           | 1     | CPB162-1*         |
| 16201-2           | 2     | CPB162-2*         |
| 16201-3           | 3     | CPB162-3*         |
| 16204-1           | 1     | CPB162-1*         |
| 16204-2           | 2     | CPB162-2*         |
| 16204-3           | 3     | CPD162-3*         |
| 16301-1           | 1     | CPDB-1*           |
| 16301-2           | 2     | CPDB-2*           |
| 16301-3           | 3     | CPDB-3*           |
| 16303-1           | 1     | CPDB-1*           |
| 16303-2           | 2     | CPDB-2*           |
| 16303-3           | 3     | CPDB-3*           |
| 16306-1           | 1     | CPDB-1*           |
| 16306-2           | 2     | CPDB-2*           |
| 16306-3           | 3     | CPDB-3*           |
| 16500-1           | 1     | CPDB165**         |
| 16500-2           | 2     | CPDB165**         |
| 16500-3           | 3     | CPDB165**         |
| 16504-1           | 1     | CPDB165**         |
| 16504-2           | 2     | CPDB165**         |
| 16504-3           | 3     | CPDB165**         |

\* Cover catalog number provides one individual cover for each block.

\*\* Order one cover for each pole.

Data sheet no. 10534

| Line/load port configuration   | No. of poles | Current rating (A) | Lineside                              |                |                          |            | Loadside                              |                |                          |            |                  |                      |
|--|--------------|--------------------|---------------------------------------|----------------|--------------------------|------------|---------------------------------------|----------------|--------------------------|------------|------------------|----------------------|
|  |              |                    | Wire size (Str/ferrule unless noted)* | Wires per port | Torque N•m (lb-in)       | Ports/Pole | Wire size (Str/ferrule unless noted)* | Wires per port | Torque N•m (lb-in)       | Ports/pole | SCCR (kA)        | Catalog no.          |
|    | 1, 2, 3      | 115                | 2 - 3 Cu/Al (Str)                     | 1              | 5.6 (50)                 | 1          | 2 - 3 Cu/Al (Str)                     | 1              | 5.6 (50)                 | 1          | 10               | 16200- <sup>**</sup> |
|  |              |                    | 4 - 6 Cu/Al (Str)                     | 1              | 5.1 (45)                 |            | 4 - 6 Cu/Al (Str)                     | 1              | 5.1 (45)                 |            |                  |                      |
|  |              |                    | 8 Cu/Al (Str)                         | 1              | 4.5 (40)                 |            | 8 Cu/Al (Str)                         | 1              | 4.5 (40)                 |            |                  |                      |
|  |              |                    | 10 - 14 Cu (Str)                      | 1              | 4.0 (35)                 |            | 10 - 14 Cu (Str)                      | 1              | 4.0 (35)                 |            |                  |                      |
|    | 1, 2, 3      | 150                | 1/0 - 3 Cu (Str)                      | 1              | 5.6 (50)                 | 1          | 1/0 - 3 Cu (Str)                      | 1              | 5.6 (50)                 | 1          | 10               | 16201- <sub>-</sub>  |
|  |              |                    | 4 - 6 Cu (Str)                        | 1              | 5.1 (45)                 |            | 4 - 6 Cu (Str)                        | 1              | 5.1 (45)                 |            |                  |                      |
|  |              |                    | 8 Cu (Str)                            | 1              | 4.5 (40)                 |            | 8 Cu (Str)                            | 1              | 4.5 (40)                 |            |                  |                      |
|  |              |                    | 10 - 14 Cu (Str)                      | 1              | 4.0 (35)                 |            | 10 - 14 Cu (Str)                      | 1              | 4.0 (35)                 |            |                  |                      |
|    | 2, 3, 4      | 175                | 2/0 - 1 Cu/Al (Str)                   | 1              | 12.4 (110)               | 1          | 2/0 - 1 Cu/Al (Str)                   | 1              | 12.4 (110)               | 1          | 10               | 16000- <sup>**</sup> |
|  |              |                    | 2 - 8 Cu/Al                           | 1              |                          |            | 2 - 8 Cu/Al                           | 1              |                          |            |                  |                      |
|  |              |                    | 10 - 12 Al (Str)                      | 1              | 4.0 (35)                 |            | 10 - 12 Al (Str)                      | 1              | 4.0 (35)                 |            |                  |                      |
|  |              |                    | 10 - 14 Cu                            | 1              |                          |            | 10 - 14 Cu                            | 1              |                          |            |                  |                      |
|  |              |                    | 4 - 8 Cu/Al                           | 2              | 13.6 (120)               |            | 4 - 8 Cu/Al                           | 2              | 13.6 (120)               |            |                  |                      |
|    | 1, 2, 3      | 175                | 10 - 14 Cu                            | 2              |                          | 1          | 10 - 14 Cu                            | 2              |                          | 1          | 200 <sup>†</sup> | 16204- <sub>-</sub>  |
|  |              |                    | 2/0 - 1 Cu/Al (Str)                   | 1              | 12.4 (110)               |            | 2/0 - 1 Cu/Al (Str)                   | 1              | 12.4 (110)               |            |                  |                      |
|  |              |                    | 2 - 8 Cu/Al                           | 1              |                          |            | 2 - 8 Cu/Al                           | 1              |                          |            |                  |                      |
|  |              |                    | 10 - 12 Al (Str)                      | 1              | 4.0 (35)                 |            | 10 - 12 Al (Str)                      | 1              | 4.0 (35)                 |            |                  |                      |
|  |              |                    | 10 - 14 Cu                            | 1              |                          |            | 10 - 14 Cu                            | 1              |                          |            |                  |                      |
|    | 1, 2, 3      | 175                | 4 - 8 Cu/Al                           | 2              | 13.6 (120)               | 1          | 4 - 8 Cu/Al                           | 2              | 13.6 (120)               | 1          | 200 <sup>†</sup> | 16204- <sub>-</sub>  |
|  |              |                    | 10 - 14 Cu                            | 2              |                          |            | 10 - 14 Cu                            | 2              |                          |            |                  |                      |
|  |              |                    | 250kcmil - 6 Cu                       | 1              | 42.4 (375)               |            | 250kcmil - 6 Cu                       | 1              | 42.4 (375)               |            |                  |                      |
|  |              |                    | 250kcmil - 6 Cu                       | 1              | 42.4 (375)               |            | 250kcmil - 6 Cu                       | 1              | 42.4 (375)               |            |                  |                      |
|  |              |                    | 250kcmil - 6 Cu                       | 1              | 42.4 (375)               |            | 250kcmil - 6 Cu                       | 1              | 42.4 (375)               |            |                  |                      |
|    | 2, 3, 4      | 310                | 350kcmil - 2/0 Cu/Al (Str)            | 1              |                          | 1          | 350kcmil - 2/0 Cu/Al (Str)            | 1              |                          | 1          | 10               | 16005- <sup>**</sup> |
|  |              |                    | 1/0 Cu/Al (Str)                       | 1-2            | 31.1 (275) <sup>††</sup> |            | 1/0 Cu/Al (Str)                       | 1-2            | 31.1 (275) <sup>††</sup> |            |                  |                      |
|  |              |                    | 1 - 6 Cu/Al                           | 1-2            |                          |            | 1 - 6 Cu/Al                           | 1-2            |                          |            |                  |                      |
|   | 1, 2, 3      | 310                | 350kcmil - 2/0 Cu/Al (Str)            | 1              |                          | 1          | 350kcmil - 2/0 Cu/Al (Str)            | 1              |                          | 1          | 10               | 16303- <sub>-</sub>  |
|  |              |                    | 1/0 Cu/Al (Str)                       | 1-2            | 31.1 (275) <sup>††</sup> |            | 1/0 Cu/Al (Str)                       | 1-2            | 31.1 (275) <sup>††</sup> |            |                  |                      |
|  |              |                    | 1 - 6 Cu/Al                           | 1-2            |                          |            | 1 - 6 Cu/Al                           | 1-2            |                          |            |                  |                      |
|  | 1, 2, 3      | 380                | 500kcmil - 4/0 Cu/Al (Str)            | 1              |                          | 1          | 500kcmil - 4/0 Cu/Al (Str)            | 1              |                          | 1          | 10               | 16306- <sub>-</sub>  |
|  |              |                    | 3/0 - 1/0 Cu/Al (Str)                 | 1-2            | 56.5 (500)               |            | 3/0 - 1/0 Cu/Al (Str)                 | 1-2            | 56.5 (500)               |            |                  |                      |
|  |              |                    | 1 - 6 Cu/Al                           | 1-2            |                          |            | 1 - 6 Cu/Al                           | 1-2            |                          |            |                  |                      |
|  | 1, 2, 3      | 620                | 350kcmil - 2/0 Cu/Al (Str)            | 1              |                          | 2          | 350kcmil - 2/0 Cu/Al (Str)            | 1              |                          | 2          | 10               | 16500- <sub>-</sub>  |
|  |              |                    | 1/0 Cu/Al (Str)                       | 1-2            | 31.1 (275) <sup>††</sup> |            | 1/0 Cu/Al (Str)                       | 1-2            | 31.1 (275) <sup>††</sup> |            |                  |                      |
|  |              |                    | 1 - 4 Cu/Al                           | 1-2            |                          |            | 1 - 4 Cu/Al                           | 1-2            |                          |            |                  |                      |
|  |              |                    | 6 Cu/Al                               | 2              |                          |            | 6 Cu/Al                               | 2              |                          |            |                  |                      |
|  | 1, 2, 3      | 760                | 500kcmil - 4/0 Cu/Al (Str)            | 1              |                          | 2          | 500kcmil - 4/0 Cu/Al (Str)            | 1              |                          | 2          | 10               | 16504- <sub>-</sub>  |
|  |              |                    | 3/0 - 1/0 Cu/Al (Str)                 | 1-2            | 56.5 (500)               |            | 3/0 - 1/0 Cu/Al (Str)                 | 1-2            | 56.5 (500)               |            |                  |                      |
|  |              |                    | 1 - 6 Cu/Al                           | 1-2            |                          |            | 1 - 6 Cu/Al                           | 1-2            |                          |            |                  |                      |

\* 75°C wire (higher temperature rated wire acceptable with appropriate derating). Using a ferrule on a stranded conductor requires a correctly sized UL Listed ferrule (customer supplied) applied according to the manufacturer's specifications. Ferrule ratings apply to copper wire only.

\*\*Not covered by CSA certification.

† See table below for the tested upstream overcurrent protective devices necessary for achieving this SCCR.

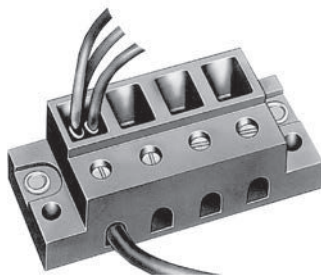
††Torque rating for dual wire and ferrule application is 30.5 N•m (270 lb-in).

### Short-Circuit Current Rating (SCCR) data for block 16204-<sub>-</sub>

| Catalog no.         | No. of poles | Conductors (AWG) |          | Fuse class/Bussmann series symbol/amp rating |                          |                         |                     | SCCR (kA) | Min. enclosure size |
|---------------------|--------------|------------------|----------|--|--------------------------|-------------------------|---------------------|-----------|---------------------|
|                     |              | Lineside         | Loadside | Class J LPJ                                  | Class RK1 LPN-RK (250 V) | Class RK5 FRN-R (250 V) | Class T JJN (300 V) |           |                     |
|                     |              |                  |          |  | LPS-RK (600 V)           | FRS-R (600 V)           | JJS (600 V)         |           |                     |
| 16204- <sub>-</sub> | 1, 2, 3      | 2/0 - 8          | 2/0 - 8  | 200  | 200                      | 60                      | 200                 | 200       | 16 x 16 x 6.75      |

## 11675 250 V screw/quick connect power terminal block

Lineside screw connection, loadside 0.250" quick-connect (3 per pole) power terminal block available from 2 to 6 poles (see catalog number table).



### Ratings

- Volts 250 Vac/dc
- Amps Up to 40 A
- SCCR 10 kA per UL 508A, Table SB4.1

### Agency information

- UL Recognized, Guide XCFR2, File E62622, CSA 47235, CE

### Conductors/torque ratings

- 8-14 AWG Cu.
- 9 lb-in (1.0 N•m) max.

#### Catalog no. (poles)

|         |         |         |         |
|---------|---------|---------|---------|
| 11675-2 | 11675-3 | 11675-4 | 11675-6 |
|---------|---------|---------|---------|

## 14002 600 V barrier terminal block

Barrier terminal block available from 2 to 6 poles with box lug terminals. 2- and 3-pole versions available with loadside 0.25" quick-connect terminals (4 per pole). See catalog numbers table.



### Ratings

- Volts 600 Vac/dc
- Amps 115 A
- SCCR 10 kA per UL 508A Table SB4.1

### Agency information

- UL Recognized, Guide XCFR2, File E62622, CSA 47235, CE

### Conductors/torque ratings\*

- Wire; 2 – 14 AWG Cu, 8 AWG Al.
- Torque; 2-3 AWG 50 (5.6 N•m), 4-6 AWG 45 (5.1 N•m), 8 AWG 40 (4.5 N•m), 10-14 AWG 35 (3.9 N•m)

\* Consult factory for torque ratings on "Q" quick-connect terminal option.

### Marking

- Marking strip optional on 2- and 3-pole configurations. See catalog numbers table.

#### Catalog no. (poles)

| Standard | Loadside quick-connect terminals | Standard with marking strip |
|----------|----------------------------------|-----------------------------|
| 14002-2  | 14002-5                          | Q14002-2                    |
| 14002-3  | 14002-6                          | Q14002-3                    |
| 14002-4  |                                  |                             |

## 11725 600 V screw/quick connect power terminal block

Lineside screw connection, loadside 0.250" quick-connect (4 per pole) power terminal block available in 2, 3 or 4 poles (see catalog number table).



### Ratings

- Volts 600 Vac/dc
- Amps up to 70 A
- SCCR 10 kA per UL 508A Table SB4.1

### Agency Information

- UL Recognized, Guide XCFR2, File E62622, CSA 47235, CE

### Conductors/torque ratings

- 2 – 14 AWG Cu
- 8 AWG Al.
- 45 lb-in (5.1 N•m) max.

#### Catalog no. (poles)

|         |         |         |
|---------|---------|---------|
| 11725-2 | 11725-3 | 11725-4 |
|---------|---------|---------|

## 14004 600 V dead front terminal block

Dead front terminal block available from 2 to 12 poles (see catalog number table).



### Ratings

- Volts 600 Vac/dc
- Amps 90 A
- SCCR 10 kA per UL 508A Table SB4.1

### Agency information

- UL Recognized, Guide XCFR2, File E62600, CSA 47235, CE

### Conductors

- 4 – 14 AWG Cu
- 8 AWG Al

### Marking

- Numeral marking molded into the top of the block is standard

#### Catalog no. (poles)

|         |         |          |          |
|---------|---------|----------|----------|
| 14004-2 | 14004-5 | 14004-8  | 14004-12 |
| 14004-3 | 14004-6 | 14004-9  |          |
| 14004-4 | 14004-7 | 14004-10 |          |