# POWERBUS™ 225
## Busway and Plug-In Units

Class 5600

**CONTENTS**



Merlin Gerin
Modicon
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## PRODUCT DESCRIPTIONS

POWERBUS™ 225 is the latest in a long line of successful high-quality busway systems manufactured by Schneider Electric. This new plug-in busway was designed specifically to address the low power distribution needs of industrial and commercial customers. We have applied our 50 years of experience in the busway business to develop a reliable low power distribution system that will reduce installation time and cost, as well as provide the flexibility to make future modifications quickly and easily to processes and facilities.

## POWERBUS 225 BUSWAY SYSTEM

### General Information

POWERBUS 225 construction consists of a light-weight electrical grade all-aluminum housing with silver-plated copper conductor bars for maximum electrical efficiency. The total product offering includes straight sections, fittings, accessories, and plug-in units for a total installation. This new busway is available in two power ratings: 225 A (240 V) and 100 A (600 V).

Straight sections of busway are offered in 4 and 10 ft (48 and 120 in.) lengths. Fittings include left and right elbows, tap boxes, and crosses, with accessory items such as hangers, end closures, and wall flanges completing the basic system. There are 10 plug-in openings per 10 ft (120 in.) of straight section of busway, with each opening rated IP2x against solid object ingress (International Standards IP Protection Classification). Plug-in units are available in a wide variety of ready-to-assemble and factory-assembled devices.

### Sprinkler-Proof Busway System

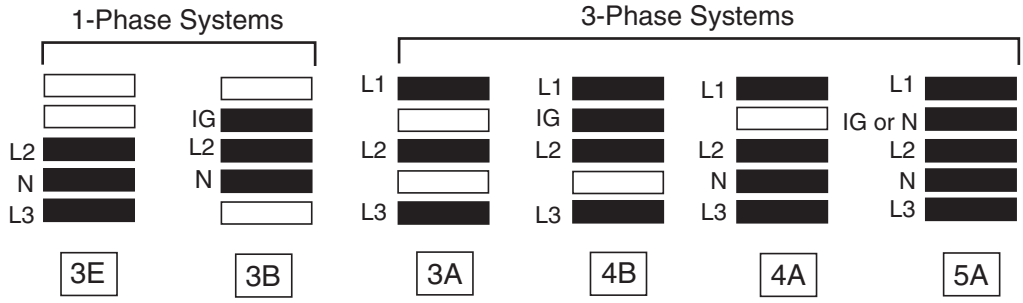
System reliability and zero downtime is a major concern to busway users. We have designed POWERBUS 225 to meet the stringent requirements of the International Standard IEC-60529 to ensure that failures because of contamination, especially water, are avoided.

The straight sections and fittings are all protected to IP-54 as standard. This means they are protected from dust that would interfere with the operation of the equipment, as well as water sprayed or splashed from all around the busway at a rate of 2.64 gal/minute (10 L/min).

POWERBUS 225 plug-in units are protected to IP-40 as standard. This means they are protected from entry of solid objects with a diameter or thickness of 0.039 in. (1 mm) or greater. The system degree of protection can be increased to IP-43 (PBPQOR only) or IP-54 with the installation of an optional sealing boot accessory. IP-43 provides protection from water sprayed at up to 60° from the vertical, while IP-54 provides dust and water protection to match the busway.

### Busbar Configuration

POWERBUS 225 can be supplied with up to five (5) conductor bars to accommodate a wide range of electrical systems. This includes 200% neutral capability to address applications where harmonic currents are a concern. In applications where 200% neutrals are not required, POWERBUS 225 can provide an isolated ground for electrical systems that require a “clean” ground, in addition to the standard integral ground.



### Maintenance-Free Joint

For maximum reliability, the POWERBUS 225 joint employs a high-pressure, spring-type copper connection that requires no maintenance after installation.

### Physical and Electrical Data

Short-Circuit Rating

| Product | Short-Circuit Current Rating KA, RMS Symmetrical | | Impedance ‡ Line-to-Neutral (milliohms / 100 ft) | | | DC Resistance ‡ of Aluminum Housing Ground (milliohms / 100 ft) |
|---|---|---|---|---|---|---|
| | UL Three-Cycle Test | Series-Connected with Fuse † | R | X60 Hz | X50 Hz | |
| 225 A | 22 KA | 200 KA | 6.40 | 4.00 | 3.33 | 1.15 |
| 100 A | 14 KA | 200 KA | 15.34 | 7.59 | 6.32 | 1.25 |

† Busway connected in series with a Class J or Class T fuse
‡ Busway impedance and housing ground resistance are at 80 °C (176 °F) operating temperature

Voltage Drop

| Product | Voltage Drop (60 Hz @ Rated Load) (Average Phase Line-to-Line Voltage Drop in Volts / 100 ft for Varying Power Factors) | | | | | |
|---|---|---|---|---|---|---|
| | 100% | 90% | 80% | 70% | 60% | 50% |
| 225 A | 2.494 | 2.923 | 2.929 | 2.858 | 2.742 | 2.596 |
| 100 A | 2.657 | 2.964 | 2.914 | 2.799 | 2.646 | 2.467 |

**Notes:**
- Values shown are based on single concentrated load at the end of a busway run. For distributed loading, divide the values shown by two (2).
- For balanced 3-phase line-to-line voltage drop of 4-wire busway, use values from the table above.
- For balanced 3-phase line-to-neutral voltage drop, multiply values by 0.577.
- For single-phase voltage drop, multiply values by 1.15.
- For other than rated current, multiply values by the ratio of: $\frac{\text{Actual Current}}{\text{Rated Current}}$
- For total voltage drop, multiply values by the ratio of: $\frac{\text{Actual Length}}{\text{100 ft}}$
- Voltage drop calculations for 50 Hz can be made by substituting the appropriate value from Table 1. For other frequency values, contact Square D / Schneider Electric at 1-888-778-2733.

Physical Data

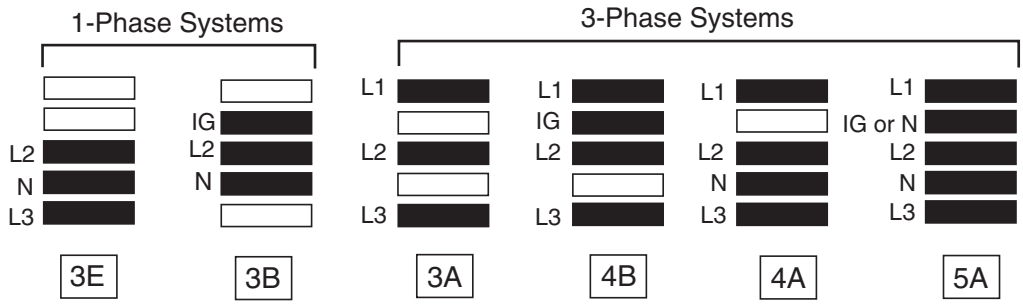
| Product | Weights (Based on Busbar Configuration) | | | | | | Busbar Size |
|---|---|---|---|---|---|---|---|
| | 3 bar | | | 4 bar | | 5 bar | |
| |  |  |  |  |  |  | (The same bar size is used for all configurations.) |
| | 3E | 3B | 3A | 4B | 4A | 5A | |
| 225 A | 4.5 lb/ft | | | 5.1 lb/ft | | 5.8 lb/ft | .125 x 1.375 inches (3 x 35 mm) |
| 100 A | 2.9 lb/ft | | | 3.2 lb/ft | | 3.4 lb/ft | .125 x 0.500 inches (3 x 13 mm) |

## Catalog Numbering System

Busway Catalog Numbering System

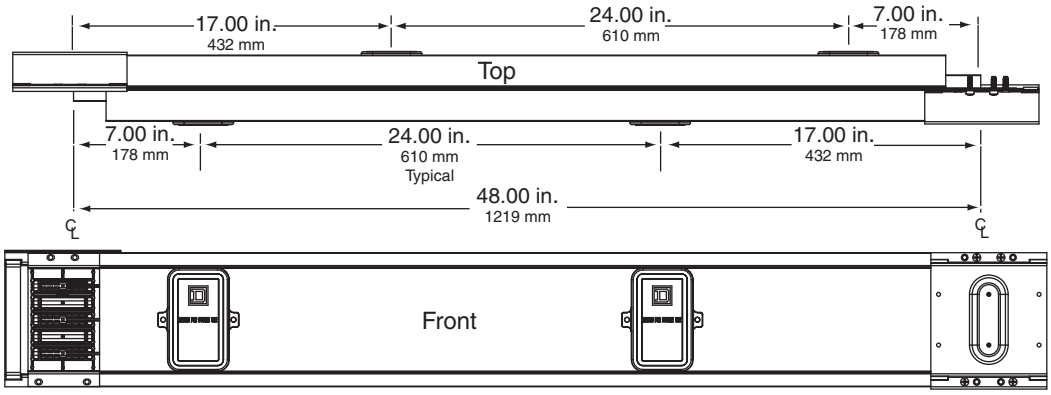
| PB | CP | 4A<br>Busbar Configuration | 225<br>Amperage Rating | ST<br>Type of Device | 120<br>Length |
|---|---|---|---|---|---|
| PB = POWERBUS | CP = Copper Plug-In<br>CF = Copper Fitting | Refer to the "Busbar Configuration Table" below. | 100 = 100 A<br>225 = 225 A | ST = Straight Length<br>LL = Elbow Left<br>LR = Elbow Right<br>CR = Cross<br>TB = End Tap Box | 120 = 10 ft<br>48 = 4 ft |

Busbar Configuration Table



### Dimensions—Straight Lengths, Fittings, and Accessories

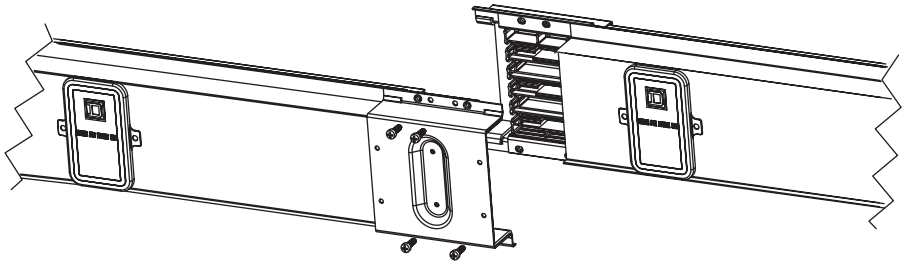
Straight Lengths



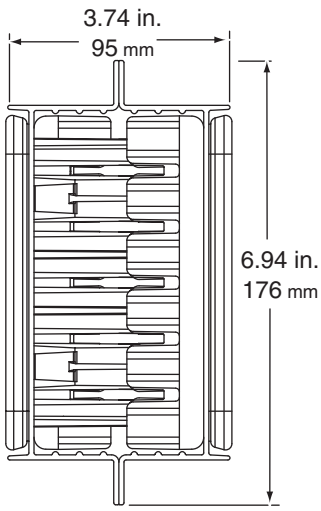

**Catalog Number: PBCP[‡]225ST048**

‡ To complete the catalog number, insert the configuration type from the "Busbar Configuration Table" on page 5.
*NOTE: Four-foot straight length shown for clarity. Ten-foot straight length is similar.*

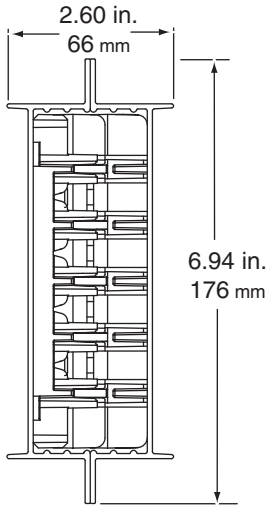
Joint Detail



Cross Sections

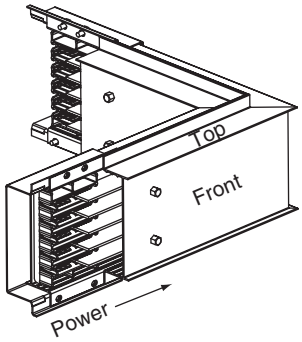



**225 Amp**



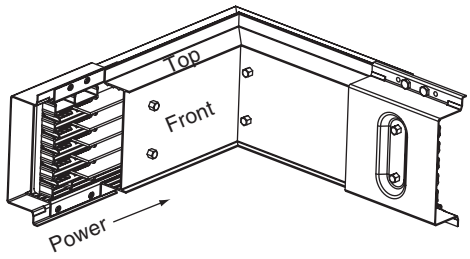

**100 Amp**

Elbow Left



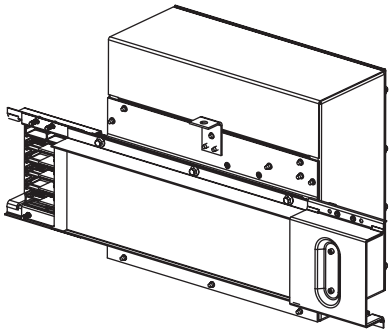

**Catalog Number:**
**225 A = PBCF[‡]225LL**
**100 A = PBCF[‡]100LL**

Elbow Right



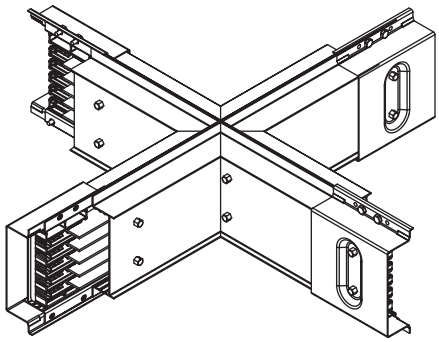

**Catalog Number:**
**225 A = PBCF[‡]225LR**
**100 A = PBCF[‡]100LR**

Tap Box



**Catalog Number:**
**225 A = PBCF[‡]225TB**
**100 A = PBCF[‡]100TB**

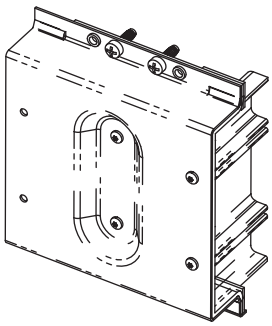
Cross



**Catalog Number:**
**225 A = PBCF[‡]225CR**
**100 A = PBCF[‡]100CR**

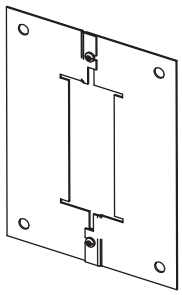
‡ To complete the catalog number, insert the configuration type from the “Busbar Configuration Table” on page

End Closure



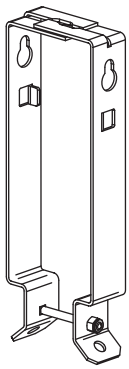
**Catalog Number:**
**225 A = PB225EC**
**100 A = PB100EC**

Wall Flange



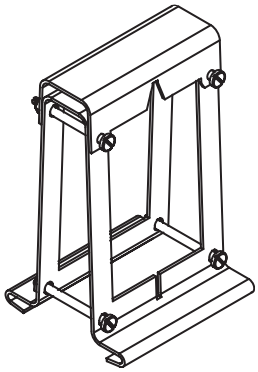
**Catalog Number:**
**225 A = PB225WF**
**100 A = PB100WF**

Drop Rod



**Catalog Number:**
**225 A = PB225FH**
**100 A = PB100FH**

Support Clamp



**Catalog Number:**
**PB225SC_**
**(Suitable for 225 A and 100 A busway. Insert 4 or 6 for fastening clamp to 4-inch or 6-inch I-Beam)**

5.POWERBUS™ 225 Plug-In Units

## General Information

POWERBUS 225 plug-in units provide a safe, reliable, and easy-to-use method for tapping power off the busway exactly where it is needed. FA units are rated maximum of 100 A / 600 V, and QO/QOR units are rated 100 A / 240 V. All units are ingress/dust and water protected to IP-40. An optional kit can raise the level of protection to IP-54 on FA and QO units; the same kit raises a receptacle-type unit (QOR) to IPX3.

Ready-to-assemble (“enclosure only”) devices have provisions for field-mounting of a variety of FA or QO type circuit breakers and receptacles if required:

- Tap Box (Plug-In): For cabling power from busway
- FA Plug-In Unit: With provisions to accommodate field-installed FA circuit breakers
- QO Plug-In Unit: With provisions to accommodate field-installed QO circuit breakers
- QOR Plug-In Units: With provisions to accommodate field-installed QO circuit breakers plus receptacles

As a convenient option, Square D will factory-install the circuit breakers (and receptacles, if desired) into the enclosure and completely wire them so the units are ready for immediate installation onto the busway as soon as they arrive in the field.

Circuit Breakers

| Circuit Breaker | Ampere Rating | Number of Poles |
|---|---|---|
| QO | 10–100 ‡ | 1, 2, or 3 |
| QOB | | |
| QOGFI | 15–60 | |
| QOBGFI | | |
| FA | 15–100 | 3 |

‡ QO/QOB is 70 ampere maximum on single-pole circuit breakers

Receptacles

| Receptacle | Ampere Rating | Number of Poles |
|---|---|---|
| Duplex—Commercial | 10–30 | 1, 2, or 3 |
| Duplex—Industrial | | |
| Duplex—Isolated Ground | | |
| Locking | | |
| Locking—240 V | | |

IP Ratings

| Plug-In Device | Standard Rating | Optional Rating |
|---|---|---|
| Tap Box | IP-54 | Same |
| QOR | IP-40 | IP-43 using optional kit, IP-54 using optional kit, and IP-54 rated receptacles and plugs |
| QOB | IP-40 | |
| FA | IP-40 | |

### Catalog Numbering System

Ready-to-Assemble Plug-In Unit Catalog Numbering System ‡

| PB | P | QOR<br>Type of Device | 5A<br>Plug-In Jaw Configuration | 100<br>Maximum Amperage Rating | P43<br>IP Rating |
|---|---|---|---|---|---|
| PB = POWERBUS | P = Plug-In Device | QO = QO circuit breaker only<br>QOR = QO circuit breaker and receptacle<br>FA = FA circuit breaker<br>TB = Tap Box | Refer to the "Busbar Configuration Table" below. | 100 | P43 = IP-43<br>P54 = IP-54 |

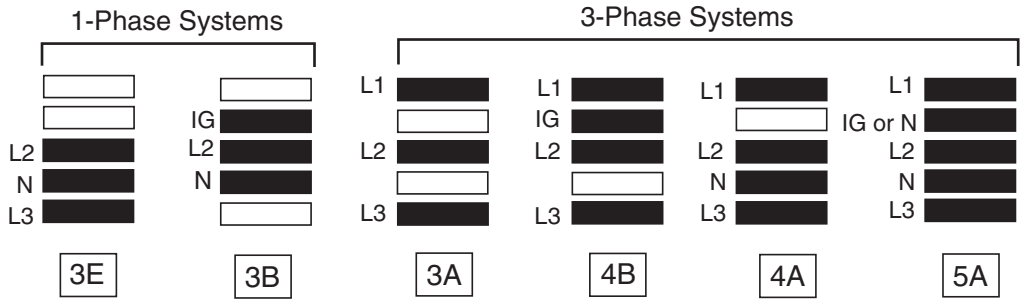
‡ Circuit breakers and receptacles provided by others

Factory-Assembled Plug-In Unit Catalog Numbering System ‡

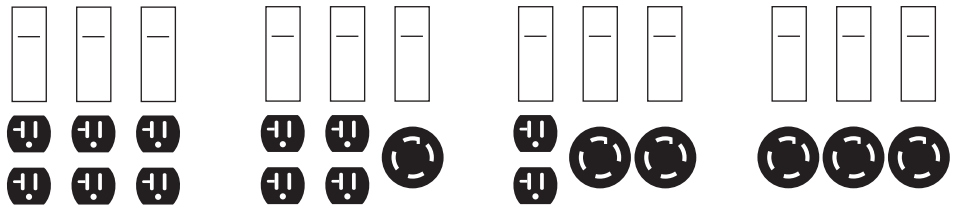
| PB | P | QOR<br>Type of Device | 5A<br>Plug-In Jaw Configuration | 100<br>Maximum Amperage Rating | P40<br>IP Rating | M1<br>Receptacle Configuration | 15B<br>Circuit Breaker and Rating |
|---|---|---|---|---|---|---|---|
| PB = POWERBUS | P = Plug-In Device | QO = QO circuit breaker only<br>QOR = QO circuit breaker and receptacle<br>FA = FA circuit breaker<br>TB = Tap Box | Refer to the "Busbar Configuration Table" below. | 100 | P40 = IP40<br>P54 = IP-54 | Refer to the "Receptacle/Circuit Breaker Type Configuration" Table below and the "Plug-In Units (Factory-Assembled)"Tables on page 11. | 15 = 15 Amp QO<br>15B = 15 Amp QOB<br>20 = 20 Amp QO<br>20B = 20 Amp QOB |

‡ Circuit breakers and receptacles provided by others

Busbar Configuration Table

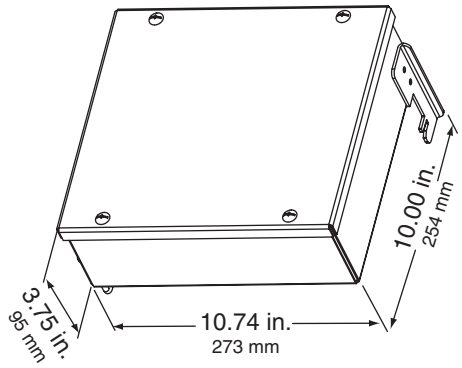



Receptacle/Circuit Breaker Type Configuration



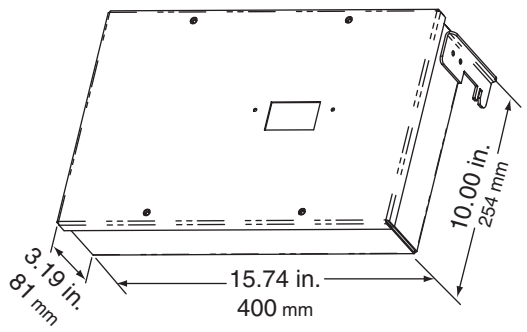
### Plug-In Units (Ready-to-Assemble)

Tap Box (For Conduit-Cable)



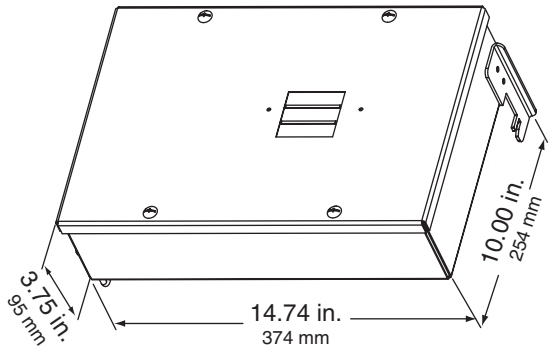

| Busbar Configurations | Catalog Number |
|---|---|
| 3E | PBP TB 3E 100 |
| 3B | PBP TB 3B 100 |
| 3A | PBP TB 3A 100 |
| 4B | PBP TB 4B 100 |
| 4A | PBP TB 4A 100 |
| 5A | PBP TB 5A 100 |

FA Unit (Provision for One 3-Phase FAP Breaker)



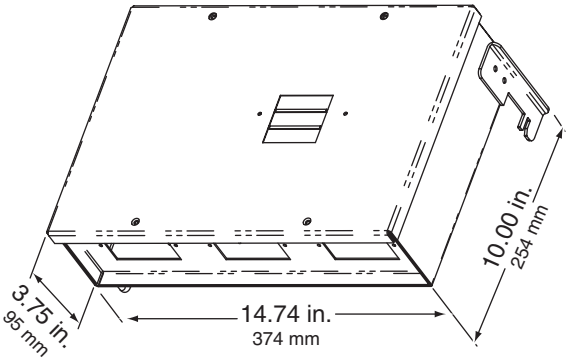

| Busbar Configurations | Catalog Number |
|---|---|
| 3E | 3-phase systems only |
| 3B | 3-phase systems only |
| 3A | PBP FA 3A 100 |
| 4B | PBP FA 4B 100 |
| 4A | PBP FA 4A 100 |
| 5A | PBP FA 5A 100 |

QO Unit (Provision for Three QO/QOB Breakers)




| Busbar Configurations | Catalog Number |
|---|---|
| 3E | PBP QO 3E 100 |
| 3B | PBP QO 3B 100 |
| 3A | PBP QO 3A 100 |
| 4B | PBP QO 4B 100 |
| 4A | PBP QO 4A 100 |
| 5A | PBP QO 5A 100 |

QOR Unit (Provision for Three QO/QOB Breakers and Three Receptacles)

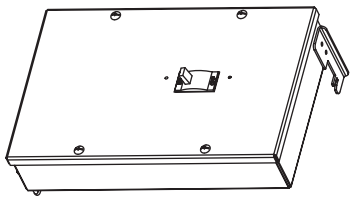



| Busbar Configurations | Catalog Number |
|---|---|
| 3E | PBP QOR 3E 100 |
| 3B | PBP QOR 3B 100 |
| 3A | PBP QOR 3A 100 |
| 4B | PBP QOR 4B 100 |
| 4A | PBP QOR 4A 100 |
| 5A | PBP QOR 5A 100 |

## Plug-In Units (Factory-Assembled)

### FA Unit with Circuit Breaker—600 V Maximum

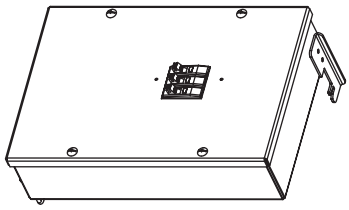
**FA Unit with Circuit Breaker**



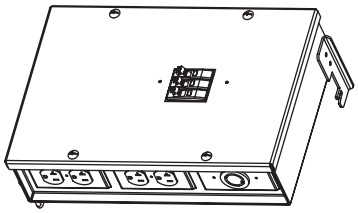
| Circuit Breaker Rating | Catalog Number | | | |
|---|---|---|---|---|
| | 3A Configuration | 4B Configuration | 4A Configuration | 5A Configuration |
| 15 | PBPFA3A100A015 | PBPFA4B100A015 | PBPFA4A100A015 | PBPFA5A100A015 |
| 20 | PBPFA3A100A020 | PBPFA4B100A020 | PBPFA4A100A020 | PBPFA5A100A020 |
| 30 | PBPFA3A100A030 | PBPFA4B100A030 | PBPFA4A100A030 | PBPFA5A100A030 |
| 40 | PBPFA3A100A040 | PBPFA4B100A040 | PBPFA4A100A040 | PBPFA5A100A040 |
| 50 | PBPFA3A100A050 | PBPFA4B100A050 | PBPFA4A100A050 | PBPFA5A100A050 |
| 60 | PBPFA3A100A060 | PBPFA4B100A060 | PBPFA4A100A060 | PBPFA5A100A060 |
| 70 | PBPFA3A100A070 | PBPFA4B100A070 | PBPFA4A100A070 | PBPFA5A100A070 |
| 80 | PBPFA3A100A080 | PBPFA4B100A080 | PBPFA4A100A080 | PBPFA5A100A080 |
| 90 | PBPFA3A100A090 | PBPFA4B100A090 | PBPFA4A100A090 | PBPFA5A100A090 |
| 100 | PBPFA3A100A100 | PBPFA4B100A100 | PBPFA4A100A100 | PBPFA5A100A100 |

### QO/QOR Units with Circuit Breakers and Receptacles—120 V

**QO Unit with Circuit Breaker**



**QOR Unit with Circuit Breaker and Receptacles**



| Circuit Breaker | | Catalog Number | | |
|---|---|---|---|---|
| Rating | Type | 3E Configuration ‡ | 4A Configuration | 5A Configuration |
| **Type 1—Three (3) Circuit Breakers Plus (3) Duplex Receptacles** | | | | |
| 15 | QO | PBPQOR3E100M115 | PBPQOR4A100M115 | PBPQOR5A100M115 |
| 15 | QOB | PBPQOR3E100M115B | PBPQOR4A100M115B | PBPQOR5A100M115B |
| 20 | QO | PBPQOR3E100M120 | PBPQOR4A100M120 | PBPQOR5A100M120 |
| 20 | QOB | PBPQOR3E100M120B | PBPQOR4A100M120B | PBPQOR5A100M120B |
| **Type 2—Three (3) Circuit Breakers Plus (2) Duplex Receptacles and (1) Single Locking Receptacle** | | | | |
| 15 | QO | PBPQOR3E100M215 | PBPQOR4A100M215 | PBPQOR5A100M215 |
| 15 | QOB | PBPQOR3E100M215B | PBPQOR4A100M215B | PBPQOR5A100M215B |
| 20 | QO | PBPQOR3E100M220 | PBPQOR4A100M220 | PBPQOR5A100M220 |
| 20 | QOB | PBPQOR3E100M220B | PBPQOR4A100M220B | PBPQOR5A100M220B |
| **Type 3—Three (3) Circuit Breakers Plus (1) Duplex Receptacle and (2) Single Locking Receptacles** | | | | |
| 15 | QO | PBPQOR3E100M315 | PBPQOR4A100M315 | PBPQOR5A100M315 |
| 15 | QOB | PBPQOR3E100M315B | PBPQOR4A100M315B | PBPQOR5A100M315B |
| 20 | QO | PBPQOR3E100M320 | PBPQOR4A100M320 | PBPQOR5A100M320 |
| 20 | QOB | PBPQOR3E100M320B | PBPQOR4A100M320B | PBPQOR5A100M320B |
| **Type 4—Three (3) Circuit Breakers and (3) Single Locking Receptacles** | | | | |
| 15 | QO | PBPQOR3E100M415 | PBPQOR4A100M415 | PBPQOR5A100M415 |
| 15 | QOB | PBPQOR3E100M415B | PBPQOR4A100M415B | PBPQOR5A100M415B |
| 20 | QO | PBPQOR3E100M420 | PBPQOR4A100M420 | PBPQOR5A100M420 |
| 20 | QOB | PBPQOR3E100M420B | PBPQOR4A100M420B | PBPQOR5A100M420B |

‡ 3E Configuration includes two circuit breakers plus two receptacles (in left and center positions, as depicted in the receptacle type drawings at left). See Digest page 1-2 for QO circuit breaker information. Additional circuit breakers include QO-GFI, QO-HID, QO-K, and QO-EPD. Other factory-assembled units available using receptacles shown below. Consult your nearest Square D/Schneider Electric sales office.

### Non-Locking Devices—Acceptable NEMA Receptacles

| Wiring | Voltage | 15 A | 20 A |
|---|---|---|---|
| 2-Pole,2-Wire | 120 | 1-15R | — |
| 2-Pole,2-Wire | 240 | — | 2-20R |
| 2-Pole,3 Wire, Grounding | 120 | 5-15R | 5-20R |
| 2-Pole,3 Wire, Grounding | 240 | 6-15R | 6-20R |
| 3-Pole, 3-Wire | 120 / 240 | — | 10-20R |
| 3-Pole, 3-Wire | 3Ø 240 | 11-15R | 11-20R |
| 3-Pole, 3-Wire, Grounding | 120 / 240 | 14-15R | 14-20R |
| 3-Pole, 3-Wire, Grounding | 3Ø 240 | 15-15R | 15-20R |

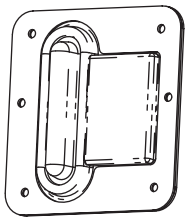
Plug-in units have 1.82 in. x 2.82 in. (46 mm x 72 mm) openings for receptacle bodies and 3.28 in. (83 mm) spacing between #6-32 mounting holes

### Locking Devices—Acceptable NEMA Receptacles

| Wiring | Voltage | 15 A | 20 A | 30 A |
|---|---|---|---|---|
| 2-Pole,2-Wire | 120 | L1-15R | — | — |
| 2-Pole,2-Wire | 240 | — | L2-20R | — |
| 2-Pole, 3-Wire, Grounding | 120 | L5-15R | L5-20R | L5-30R |
| 2-Pole, 3-Wire, Grounding | 240 | L6-15R | L6-20R | L6-30R |
| 3-Pole, 3-Wire | 120 / 240 | — | L10-20R | L10-30R |
| 3-Pole, 3-Wire | 3Ø 240 | L11-15R | L11-20R | L11-30R |
| 3-Pole, 4-Wire, Grounding | 120 / 240 | — | L14-20R | L14-30R |
| 3-Pole, 4-Wire, Grounding | 3Ø 240 | — | L15-20R | L15-30R |
| 4-Pole, 4-Wire | 3ØY 120/208 | — | L18-20R | L18-30R |
| 4-Pole, 5-Wire, Grounding | 3ØY 120/208 | — | L21-20R | L21-30R |

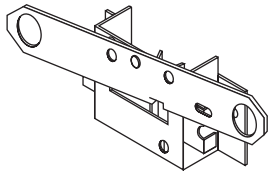
### Plug-In Unit Accessories

IP-54 Kit



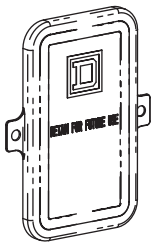
**Catalog Number:**
**FA Unit = PBP54100FA**
**QO Unit = PBP54100QO**

Floor Operator Attachment



**Catalog Number:**
**FA Unit = PBFO100FA**
**QO Unit = PBFO100QO**

Plug-In Opening Cover



**Catalog Number:**
**PBPIOCVR**

### Additional Accessories

| Description | Catalog Number |
|---|---|
| Reverse Feed Label Kit | PBRFLKIT |
| Joint Compound | PJC7201 |
| Hookstick 8 ft (2440 mm) | 51568 |
| Hookstick 14 ft (4265 mm) | 515614 |

**POWERBUS 225 Busway Suggested Specifications**

1.0 GENERAL

1.1 Quality:

All busway products shall be manufactured in a facility which is Quality Systems Registered by Underwriters Laboratories® (UL®) to ISO9001.

1.2 Regulatory Requirements:

a. All busway products shall be listed to Underwriters Laboratories Standard of Safety 857, which is jointly issued by UL (U.S.), CSA (Canada), and ANCE (Mexico).
b. U.L. listing shall include mounting of the busway in any position without derating.
c. Busway shall be constructed and installed in accordance with all applicable current sections of NEMA, ANSI, NOM, IEEE, and NFPA codes.

1.3 Storage, Handling, and Maintenance:

Refer to NEMA Publication BU1.1, which is a guide for proper installation, operation, and maintenance of busway products.

2.0 PRODUCTS

2.1 Manufacturers:

All busway shall be Square D POWERBUS™ 225 brand as manufactured by Schneider Electric.

2.2 Manufactured Units:

a. Furnish and install a complete prefabricated plug-in busway power distribution system as shown on the plans.
b. The approximate footage, fittings, plug-in units, and accessories are shown on the plans. The electrical contractor shall be responsible for routing the busway to coordinate with other trades. The contractor prior to ordering of the busway components shall make final field measurements.
c. Plug-in busway shall be rated 225 Amp at 240 Volts or 100 Amp at 600 Volts and be of the configuration as required by application (single-phase, three-phase; with 100 percent or 200 percent neutral or without neutral; housing or isolated ground). Short-circuit ratings shall be 22,000 RMS symmetrical for 225 Amp busway or 14,000 RMS symmetrical for 100 Amp busway.

2.3 Busway Construction:

Housing:

a. Busway shall be of the totally enclosed type for protection against mechanical damage and resistance to dust and water. Standard level of protection for the busway shall be to International Standards IP Protection Classification IP-54. Plug-In units shall be to Classification IP-40 with an optional kit available to provide an IP-54 rating. Plug-In units and Plug-in busway rated at IP-54 shall maintain this rating as a completely installed busway system.
b. Housing material shall be natural finish electrical-grade extruded aluminum alloy 6063 for light weight and ease of handling in the field.
c. Each plug-in opening accessible by the removal of a plastic cover which shall be retained for future use. Replacement covers shall be available as standard parts from the manufacturer.

Joints:

a. Electrical connection shall be made at the joints by high-pressure spring type silver plated copper connectors. Mechanical connection shall utilize integral tie channels to fasten one section of busway to the next.

b. All hardware required for joining sections shall be captive. Loose hardware will not be permitted.

Busbars:

a. For maximum reliability and conductivity, all conductor bars shall be of silver plated alloy 110 copper.

b. Busbars shall be firmly supported in the housing by molded insulators on alternate sides of the busway housing.

c. Busbar insulators shall be of a type that isolates the jaws of a plug-in device from each other.

Plug-In Openings:

a. Busway shall include a minimum of (10) plug-in openings for each 10 ft. length.

b. All plug-in openings shall be usable simultaneously.

c. Plug-in openings shall provide ingress protection to IP-2X standard.

2.4 Plug-In Units:

a. Units shall be of the circuit breaker type with provisions for mounting and options for factory-installation of circuit breakers and related wiring devices.

b. Plug-in units shall offer suitable means for hookstick operation.

c. Units shall include a means of securely fastening the device to the busway housing with a bolted clamp.

d. Plug-In unit short circuit rating should be 10K AIC or greater.

e. Plug-In unit enclosures should rated IP-40 as standard and have optional IP-54 capability.

2.5 Busway Support:

Hanger spacing shall not exceed 10 ft in length. Manufacturer's standard hangers shall be used whenever possible.

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