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Scan to connect online to the most up-to-date version of this Section of SPEEDFAX.



## A. Footage Pricing

1. Sentron and XL-U base pricing is listed on a per foot charge. When calculating the footage charge, fractions are figured to the next larger number of whole feet (i.e., a linear run totaling 66'3" would be priced at 67 feet.
2. BD and XJ-L HD base pricing is listed on a per section charge.

## B. Accessories

Some busway accessories are listed as complete device prices while others are listed under accessory charges.

1. Complete device price includes all material and accessory charges for a standard device. (Busway footage included if applicable).
2. Accessory Charge includes fabrication and any miscellaneous fittings for the standard device. (No busway footage included).

**C. End Cable Tap Boxes** are designed to be installed at the beginning or end of a busway run. The busway rating determines the tap box list price. Mechanical lugs are standard. For compression lugs add 30% to tap box list price.

**D. Elbows** with an angle other than 90 degrees, the accessory charge is to be doubled.

**E. Flange Ends (Switchboard Connections / Stubs)** accessory prices are for connection to Siemens equipment. For connection to other manufacturer's equipment, multiply the flange end list price by 2.5. Standard list price includes eight inches of bus extension into equipment from mounting flange, if more than 8 inches required consult factory for pricing. Sentron Switchboards can be assembled with the Busway Flanged End pre-installed, eliminating the labor to connect the Busway to the switchboard at the job site.

**F. Service Heads** are specially constructed tap boxes suitable for outdoor use and are equipped to accept service cables through a removable insulated bottom plate. The busway should be priced through the end of the run.

**G. Phase Transpositions** can be built into a busway section to provide better voltage balance on long runs. To price, use the "Expansion Section" accessory charge for the appropriate ampere rating.

## H. Hangers

Sentron and XL-U busway are UL listed for standard hanger spacing of ten feet (on center). Purchasing busway hangers for horizontal installations is optional. Unistrut/Kindorf is commonly used by contractors as an approved alternative.

Two hangers are furnished free of charge with every straight section of BD and XJ-L HD. Self compensating "Spring" hangers required for vertical installations are designed to be field installed by the installer and are shipped separately. These are also used as intermediate supports where floor-to-floor height is greater than 16 feet.

**I. Ceiling, Floor And Wall Flanges** are used when busway passes through a floor or wall and are intended to cover that portion of the opening around the outside of the busway. **They are not to be used to support the busway.**

**J. Reducers** price is determined by the rating of the larger busway. Fused reducers do not include fuses.

**K. Special Paint — Busway Sections, Accessories And Bus Plugs** Standard finish is ASA #61 light gray. For other than standard color, add 20% and consult factory for availability. XJL HD Busway is offered in ASA#61 Gray and Graphite Gray.

**L. For Silver Finishing of Copper Bus Bars**, add 10%.

**M. Roof Flanges** are specially constructed collars and plates built onto a section of 3R busway which passes through a flat or angled roof. Roof pitch must be given for angled roof.

**N. Circuit Breaker Type Bus Plugs** for Sentron Busways are priced as "complete devices" with circuit breakers factory installed. Circuit Breaker plugs for BD, XL-U and XL-X busways are priced "enclosure only." XJ-L HD may or may not have a circuit breaker and receptacle installed, depending upon the bus plug type.

**O. Fusible Type Bus Plugs** do not include fuses. Adapter kits for Class R, T & J fuses are available for field installation.

**P. Cubicle** list prices include labor and material for a single frame device with enclosure including line side internal bussing for connection to busway and protective device. Fuses and load side bussing are not included in the base price.

**Q.** Sentron Busway has been tested in accordance with UL1479 and offers a certified two hour fire rating for gypsum wall board construction, and a three hour fire rating for concrete slab or block penetrations. These ratings were achieved using standard busway installed with SpecSeal® sealant from Specified Technologies Inc. This material is available through Electrical Distribution.

## R. Expansion Section

Qty (1) Expansion Section should be used for every 200ft of continuous Busway run length, at every transition to a vertical run, and for each building expansion joint. The Busway run must be positioned accordingly to accommodate the Expansion Section(s).

# Busway Systems Overview

I-T-E (previously known as Bulldog Electric) was the first manufacturer to make a Busway System. Since its introduction in 1932, Busway Systems have improved and expanded into several designs to meet

the ever changing needs of the electrical industry. The Busway Selection Chart below will help you in selecting the proper product to fit your requirements.

## Busway Selector Chart

100-6500 Ampere

600 Volts or Less

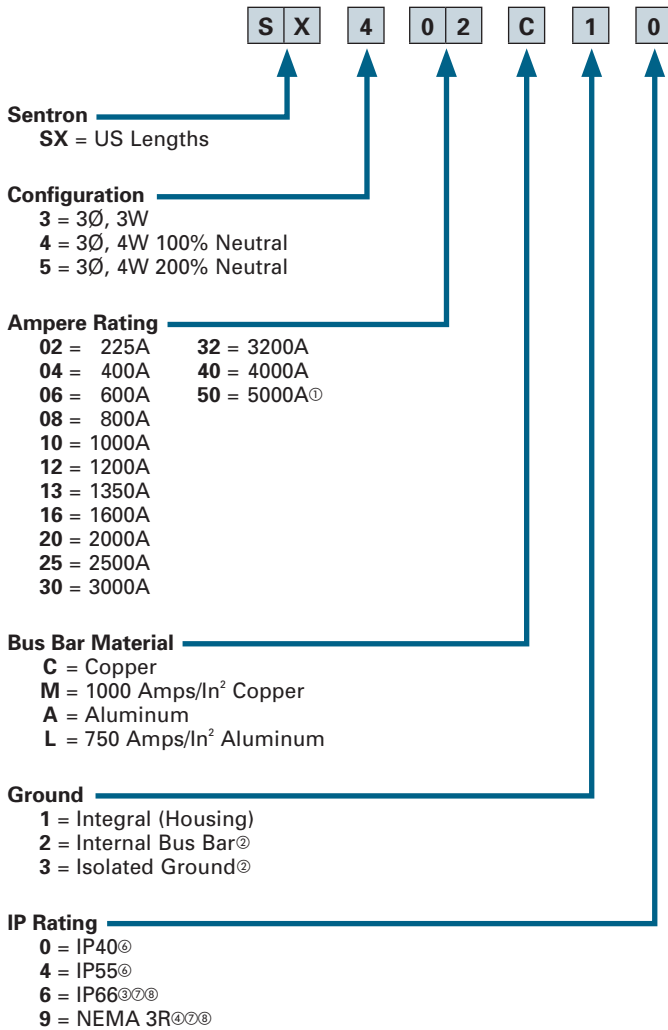
| Feature                                      |                            | Product                   |                        |                    |               |
|--|----------------------------|---------------------------|------------------------|--------------------|---------------|
|  |                            | Plug-in and Feeder Busway |                        |                    |               |
|  |                            | Sentron<br>Plug-in/Feeder | XL-U<br>Plug-in/Feeder | XJ-L HD<br>Plug-in | BD<br>Plug-in |
| Ampere<br>Rating                             | 100                        |                           |                        | ✓                  |               |
|  | 150                        |                           |                        |                    |               |
|  | 200                        |                           |                        |                    |               |
|  | 225                        | ✓                         | ✓                      | ✓                  | ✓             |
|  | 400                        | ✓                         | ✓                      | ✓                  | ✓             |
|  | 600                        | ✓                         | ✓                      |                    | ✓             |
|  | 800                        | ✓                         | ✓                      |                    | ✓             |
|  | 1000                       | ✓                         | ✓                      |                    | ✓             |
|  | 1200                       | ✓                         | ✓                      |                    | ✓             |
|  | 1350                       | ✓                         | ✓                      |                    | ✓             |
|  | 1600                       | ✓                         | ✓                      |                    | ✓             |
|  | 2000                       | ✓                         | ✓                      |                    |               |
|  | 2500                       | ✓                         | ✓                      |                    |               |
|  | 3000                       | ✓                         | ✓                      |                    |               |
|  | 3200                       | ✓                         |                        |                    |               |
|  | 4000                       | ✓                         | ✓                      |                    |               |
|  | 5000                       | ✓                         | ✓                      |                    |               |
| 6000, 6500                                   |                            | ✓                         |                        |                    |               |
| Conductor                                    | Copper                     | ✓                         | ✓                      | ✓                  | ✓             |
|  | Aluminum                   | ✓                         | ✓                      |                    | ✓             |
| Use  | Indoor                     | ✓                         | ✓                      | ✓                  | ✓             |
|  | Outdoor                    | ✓                         | ✓                      |                    |               |
| AC Service<br>50-60 Hz<br>400Hz <sup>①</sup> | 2W                         |                           |                        |                    |               |
|  | 1Ø3W                       |                           |                        | ✓                  |               |
|  | 3Ø3W                       | ✓                         | ✓                      | ✓                  | ✓             |
|  | 3Ø4W 100% N                | ✓                         | ✓                      | ✓                  | ✓             |
|  | 3Ø4W 200% N                | ✓                         |                        | ✓                  |               |
| Voltage                                      | 600 volts or less          | ✓                         | ✓                      | ✓                  | ✓             |
| Construction                                 | Ventilated                 |                           | ✓                      |                    |               |
|  | Non-Ventilated             | ✓                         | ✓                      | ✓                  | ✓             |
| Meets<br>Electrical<br>Standard              | <b>UL</b> 857              | ✓                         | ✓                      | ✓                  | ✓             |
|  | <b>NEMA</b> BU1            | ✓                         | ✓                      | ✓                  | ✓             |
|  | <b>CSA/CUL</b> C22.2 NO 27 | ✓                         | ✓                      | ✓                  | ✓             |
|  | <b>ANCE</b> NMX-J-148ANCE  | ✓                         | ✓                      | ✓                  | ✓             |

① Consult factory for information.

# Sentron® Busway Systems

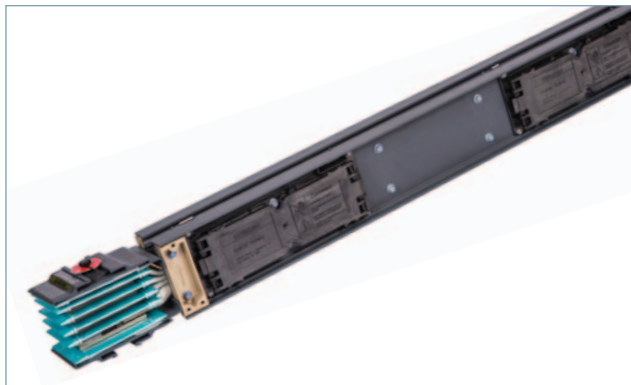
Catalog Numbering System

Selection



- ⓐ Copper only
- ⓑ Copper or aluminum ground bar
- ⓒ IEC Markets
- ⓓ NEMA Markets
- ⓔ For odd degree angle (other than 90°) specify the degree angle of the turn.
- ⓕ Indoor only (Plug-in and Feeder)
- ⓖ Outdoor use (Feeder only)
- ⓗ Elbow Stack (IP40 and IP55 only)

• Catalog Numbers for Hangers can be found on page 15-43.



## Suffix part of Catalog Numbers

|                           | P  | L  | 0  | 6 |
|---------------------------|--|--|--|---|
| Feeder                    |  |  | Length in Inches, ex.: 2'3" = 027<br>Feeder lengths available from 2'0" (024 Inches) up to 10'0" (120 inches)                        |   |
| Plug-in                   | L  | Length   | 04 = 4'0"<br>06 = 6'0"<br>08 = 8'0"<br>10 = 10'0"  |   |
| One-sided plug-in (Riser) | I  | Length   | 04 = 4'0"<br>06 = 6'0"<br>08 = 8'0"<br>10 = 10'0"  |   |
| Elbows                    | S = Stack®<br>L = 90°<br>O = Odd degree angle <sup>ⓐ</sup> | Edge   | Up<br>Down   |   |
|                           |  | Flat   | Right<br>Left  |   |
| Tees                      | E  | Edge   | Up<br>Down   |   |
|                           |  | Flat   | Right<br>Left  |   |
| Offsets                   | F  | Edge   | Up<br>Down   |   |
|                           |  | Flat   | Right<br>Left  |   |
| Combinations              | O  | Edge Up  | Flat Left  |   |
|                           |  | Edge Down  | Flat Left  |   |
|                           |  | Edge Up  | Flat Right   |   |
|                           |  | Edge Down  | Flat Right   |   |
|                           |  | Flat Left  | Edge Up  |   |
|                           |  | Flat Right   | Edge Down  |   |
| EXpansion Fittings        | P  | F  | T  |   |
| Center Cable Tap Boxes    | T  | B  | Standard<br>EXpanded   |   |
| End Cable Tap Boxes       | T  | Vertical<br>Horizontal                                     | Standard<br>EXpanded   |   |
| End Closers               | C  | L  | S  |   |
| FlanGe                    | Roof<br>Wall   | F  | L  |   |
| Joint Stacks              | Standard<br>Isolation                                      | S  | T  |   |
| SerVice Heads             | 1 = 1-Phase<br>3 = 3-Phase<br>T = Throat                   | Transformer  | H  |   |
|                           |  | Utility  | Florida Pwr/Light<br>Houston Pwr/Light<br>Commonwealth ED<br>Pacific Gas/Electric<br>Detroit Edison<br>San Diego<br>Seattle<br>Other |   |
| Reducers                  | Fused  | R  | F  |   |
|                           | Non-fused  | R  | N  |   |
| Flanged End               | E = Int'l Standard   | N  | D  |   |
|                           | R = U.S. Standard  | N  | D  |   |
|                           | O = Other  |  |  |   |
| Transposition             | R  | PG = Phase & Ground<br>PO = Phase only<br>GO = Ground only |  |   |



# Sentron® Straight Section Busway

Copper (225-5000 Ampere) and Aluminum (225-4000 Ampere)

Selection

## Copper (225 - 5000Ampere)

| Base Catalog Number Guide |         |                        |                        |         |                     |                        |                                     |                        |                                     |
|---------------------------|---------|------------------------|------------------------|---------|---------------------|------------------------|-------------------------------------|------------------------|-------------------------------------|
| Ampere                    | 3-Pole  | 3-Pole Internal Ground | 3-Pole Isolated Ground | 4-Pole  | 4-Pole 200% Neutral | 4-Pole Internal Ground | 4-Pole 200% Neutral Internal Ground | 4-Pole Isolated Ground | 4-Pole 200% Neutral Isolated Ground |
| 225                       | SX302C1 | SX302C2                | SX302C3                | SX402C1 | SX502C1             | SX402C2                | SX502C2                             | SX402C3                | SX502C3                             |
| 400                       | SX304C1 | SX304C2                | SX304C3                | SX404C1 | SX504C1             | SX404C2                | SX504C2                             | SX404C3                | SX504C3                             |
| 600                       | SX306C1 | SX306C2                | SX306C3                | SX406C1 | SX506C1             | SX406C2                | SX506C2                             | SX406C3                | SX506C3                             |
| 800                       | SX308C1 | SX308C2                | SX308C3                | SX408C1 | SX508C1             | SX408C2                | SX508C2                             | SX408C3                | SX508C3                             |
| 1000                      | SX310C1 | SX310C2                | SX310C3                | SX410C1 | SX510C1             | SX410C2                | SX510C2                             | SX410C3                | SX510C3                             |
| 1200                      | SX312C1 | SX312C2                | SX312C3                | SX412C1 | SX512C1             | SX412C2                | SX512C2                             | SX412C3                | SX512C3                             |
| 1350                      | SX313C1 | SX313C2                | SX313C3                | SX413C1 | SX513C1             | SX413C2                | SX513C2                             | SX413C3                | SX513C3                             |
| 1600                      | SX316C1 | SX316C2                | SX316C3                | SX416C1 | SX516C1             | SX416C2                | SX516C2                             | SX416C3                | SX516C3                             |
| 2000                      | SX320C1 | SX320C2                | SX320C3                | SX420C1 | SX520C1             | SX420C2                | SX520C2                             | SX420C3                | SX520C3                             |
| 2500                      | SX325C1 | SX325C2                | SX325C3                | SX425C1 | SX525C1             | SX425C2                | SX525C2                             | SX425C3                | SX525C3                             |
| 3000                      | SX330C1 | SX330C2                | SX330C3                | SX430C1 | SX530C1             | SX430C2                | SX530C2                             | SX430C3                | SX530C3                             |
| 3200                      | SX332C1 | SX332C2                | SX332C3                | SX432C1 | SX532C1             | SX432C2                | SX532C2                             | SX432C3                | SX532C3                             |
| 4000                      | SX340C1 | SX340C2                | SX340C3                | SX440C1 | SX540C1             | SX440C2                | SX540C2                             | SX440C3                | SX540C3                             |

## Aluminum (225 - 4000Ampere)

| Base Catalog Number Guide |         |                        |                        |         |                     |                        |                                     |                        |                                     |
|---------------------------|---------|------------------------|------------------------|---------|---------------------|------------------------|-------------------------------------|------------------------|-------------------------------------|
| Ampere                    | 3-Pole  | 3-Pole Internal Ground | 3-Pole Isolated Ground | 4-Pole  | 4-Pole 200% Neutral | 4-Pole Internal Ground | 4-Pole 200% Neutral Internal Ground | 4-Pole Isolated Ground | 4-Pole 200% Neutral Isolated Ground |
| 225                       | SX302A1 | SX302A2                | SX302A3                | SX402A1 | SX502A1             | SX402A2                | SX502A2                             | SX402A3                | SX502A3                             |
| 400                       | SX304A1 | SX304A2                | SX304A3                | SX404A1 | SX504A1             | SX404A2                | SX504A2                             | SX404A3                | SX504A3                             |
| 600                       | SX306A1 | SX306A2                | SX306A3                | SX406A1 | SX506A1             | SX406A2                | SX506A2                             | SX406A3                | SX506A3                             |
| 800                       | SX308A1 | SX308A2                | SX308A3                | SX408A1 | SX508A1             | SX408A2                | SX508A2                             | SX408A3                | SX508A3                             |
| 1000                      | SX310A1 | SX310A2                | SX310A3                | SX410A1 | SX510A1             | SX410A2                | SX510A2                             | SX410A3                | SX510A3                             |
| 1200                      | SX312A1 | SX312A2                | SX312A3                | SX412A1 | SX512A1             | SX412A2                | SX512A2                             | SX412A3                | SX512A3                             |
| 1350                      | SX313A1 | SX313A2                | SX313A3                | SX413A1 | SX513A1             | SX413A2                | SX513A2                             | SX413A3                | SX513A3                             |
| 1600                      | SX316A1 | SX316A2                | SX316A3                | SX416A1 | SX516A1             | SX416A2                | SX516A2                             | SX416A3                | SX516A3                             |
| 2000                      | SX320A1 | SX320A2                | SX320A3                | SX420A1 | SX520A1             | SX420A2                | SX520A2                             | SX420A3                | SX520A3                             |
| 2500                      | SX325A1 | SX325A2                | SX325A3                | SX425A1 | SX525A1             | SX425A2                | SX525A2                             | SX425A3                | SX525A3                             |
| 3000                      | SX330A1 | SX330A2                | SX330A3                | SX430A1 | SX530A1             | SX430A2                | SX530A2                             | SX430A3                | SX530A3                             |
| 3200                      | SX332A1 | SX332A2                | SX332A3                | SX432A1 | SX532A1             | SX432A2                | SX532A2                             | SX432A3                | SX532A3                             |
| 4000                      | SX340A1 | SX340A2                | SX340A3                | SX440A1 | SX540A1             | SX440A2                | SX540A2                             | SX440A3                | SX540A3                             |

## Suffix Numbers

| Busway Type       | Base Catalog Number Suffix |      |      |         |
|-------------------|----------------------------|------|------|---------|
|                   | IP40                       | IP55 | IP66 | Nema 3R |
| Feeder            | 0F                         | 4F   | 6F   | 9F      |
| Plug-in           | 0P                         | 4P   | —    | —       |
| One-sided Plug-in | 0R                         | 4R   | —    | —       |

The following table identifies the feeder footage that is included in busway fittings.

| Ampere Rating                | Elbow Stack | Elbow | Tee | Cross | Tap Box End | Tap Box Center | Flanged End Swbd. Conn. | XFMR Throat | Expansion Section | Reducer Fusible | Reducer Unfused |
|------------------------------|-------------|-------|-----|-------|-------------|----------------|-------------------------|-------------|-------------------|-----------------|-----------------|
| 225–1350 Al<br>225–1600 Cu   | 1'          | 2'    | 3'  | 4'    | 1'          | 4'             | 1'                      | 4'          | 4'                | 4'              | 4'              |
| 1600–3200 Al<br>2000–4000 Cu | 2'          | 3'    | 5'  | 6'    | 1'          | 4'             | 1'                      | 4'          | 4'                | 4'              | 4'              |
| 4000 Al<br>5000 Cu           | 3'          | 4'    | 6'  | 8'    | 1'          | 4'             | 1'                      | 4'          | 4'                | 4'              | 4'              |

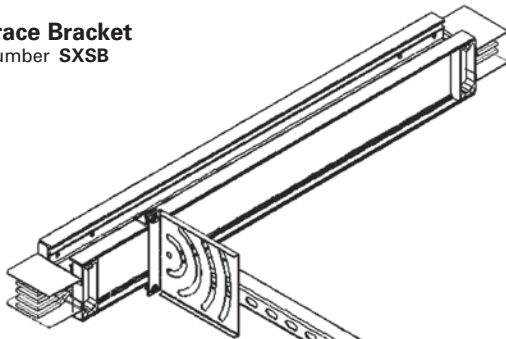
**"M" Rating / Standard Rating Conversion Table**

| 1000/A Square Inch "M" Rating | Standard Rating Equivalent Sentron |
|-------------------------------|------------------------------------|
| 225                           | 600                                |
| 400                           | 800                                |
| 600                           | 1200                               |
| 800                           | 1350                               |
| 1000                          | 1600                               |
| 1200                          | 2000                               |
| 1350                          | 2000                               |
| 1600                          | —                                  |
| 2000                          | 2500                               |
| 2500                          | 4000                               |
| 3000                          | 4000                               |
| 3200                          | 4000                               |
| 4000                          | 5000                               |

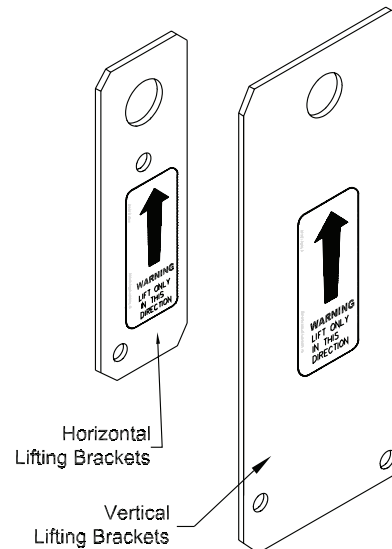
**"L" Rating / Standard Rating Conversion Table**

| 750/A Square Inch "L" Rating | Standard Rating Equivalent Sentron |
|------------------------------|------------------------------------|
| 225                          | 600                                |
| 400                          | 800                                |
| 600                          | 1000                               |
| 800                          | 1200                               |
| 1000                         | 1350                               |
| 1200                         | 1600                               |
| 1350                         | 2000                               |
| 1600                         | 2000                               |
| 2000                         | 2500                               |
| 2500                         | 3000                               |
| 3000                         | 4000                               |
| 3200                         | 4000                               |

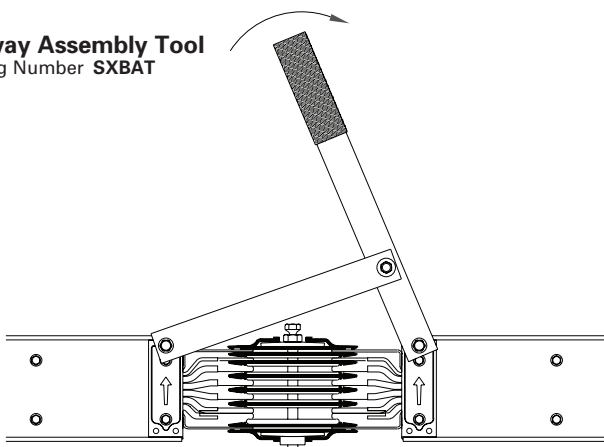
**Sway Brace Bracket**  
Catalog Number **SXSB**



**Lifting Kit**  
Catalog Number **SXLK**



**Busway Assembly Tool**  
Catalog Number **SXBAT**



# Sentron® Busway Systems

Fusible Cubicles, Molded Case Circuit Breaker Cubicles

Selection

## Fusible Cubicles<sup>①③</sup>

3-Pole, 600V/4-Pole, 480/277V

| Ampere Ratings: |
|-----------------|
| 200             |
| 400             |
| 600             |
| 800             |
| 1200            |

## Bolted Pressure Switches<sup>③</sup>

3-Pole 480V, 4-Pole 480V,  
3-Pole 600V or 4-Pole 600V

| Ampere Ratings: |
|-----------------|
| 800             |
| 1200            |
| 1600            |
| 2000            |
| 2500            |
| 3000            |
| 4000            |

## Solid State Molded Case Circuit Breaker Cubicles<sup>③</sup>

3-Pole, 600V or 4-Pole 480/277V

| Breaker Frame                          | Ampere Rating |
|--|---------------|
| SJD6<br>SJD6G<br>SJD6NT<br>SJD6NGT     | 200-400       |
| SLD6<br>SLD6G<br>SLD6NT<br>SLD6NGT     | 300-600       |
| SMD6A<br>SMD6AG<br>SMD6ANT<br>SMD6ANGT | 600-800       |
| SND6A<br>SND6AG<br>SND6ANT<br>SND6ANGT | 800-1200      |
| SPD6<br>SPD6G<br>SPD6NT<br>SPD6NGT     | 1400-1600     |

## Molded Case Circuit Breaker Cubicles

3-Pole, 600V or 4-Pole 480/277V

| Breaker Frame | Ampere Rating |
|---------------|---------------|
| JD6           | 200-400       |
| LD6           | 300-600       |
| MD6           | 600-800       |
| ND6           | 800-1200      |
| PD6           | 1400-1600     |
| RD6           | 1800-2000     |

## Current-Limiting

3-Phase, 600V AC or 120/280V AC,  
277/480V AC

| Breaker Type | Ampere Rating          |
|--------------|------------------------|
| CJD6         | 150-225<br>250-400     |
| CLD6         | 450-600                |
| CMD6         | 400-800<br>800<br>1000 |
| CPD6         | 1200<br>1400<br>1600   |
| CRD6         | 1800<br>2000           |

## Power Circuit Breaker<sup>②③</sup>

3-Pole or 3-Phase, 4-Wire

| Breaker Frame Type                     | Maximum Ampere Rating | Interrupting current frame Ics (kAIR RMS) 50/60 Hz |         |         |          |         |         |          |        |         |
|--|-----------------------|--|---------|---------|----------|---------|---------|----------|--------|---------|
|  |                       | 240 Volt   |         |         | 480 Volt |         |         | 600 Volt |        |         |
| <b>Type WL</b>                         |                       |  |         |         |          |         |         |          |        |         |
| Frame Size 1<br>(S, H, L Rating Class) | 2000A                 | 65,000   | 85,000  | 100,000 | 65,000   | 85,000  | 100,000 | 65,000   | 65,000 | 65,000  |
| Frame Size 2<br>(S, L, C Rating Class) | 3000A                 | 65,000   | 100,000 | 150,000 | 65,000   | 100,000 | 150,000 | 65,000   | 85,000 | 100,000 |
| Frame Size 3<br>(L and C Rating Class) | 5000A                 | —  | 100,000 | 150,000 | —        | 100,000 | 150,000 | —        | 85,000 | 100,000 |

① Fuses not included.

② For electrically operated, specify control voltage.

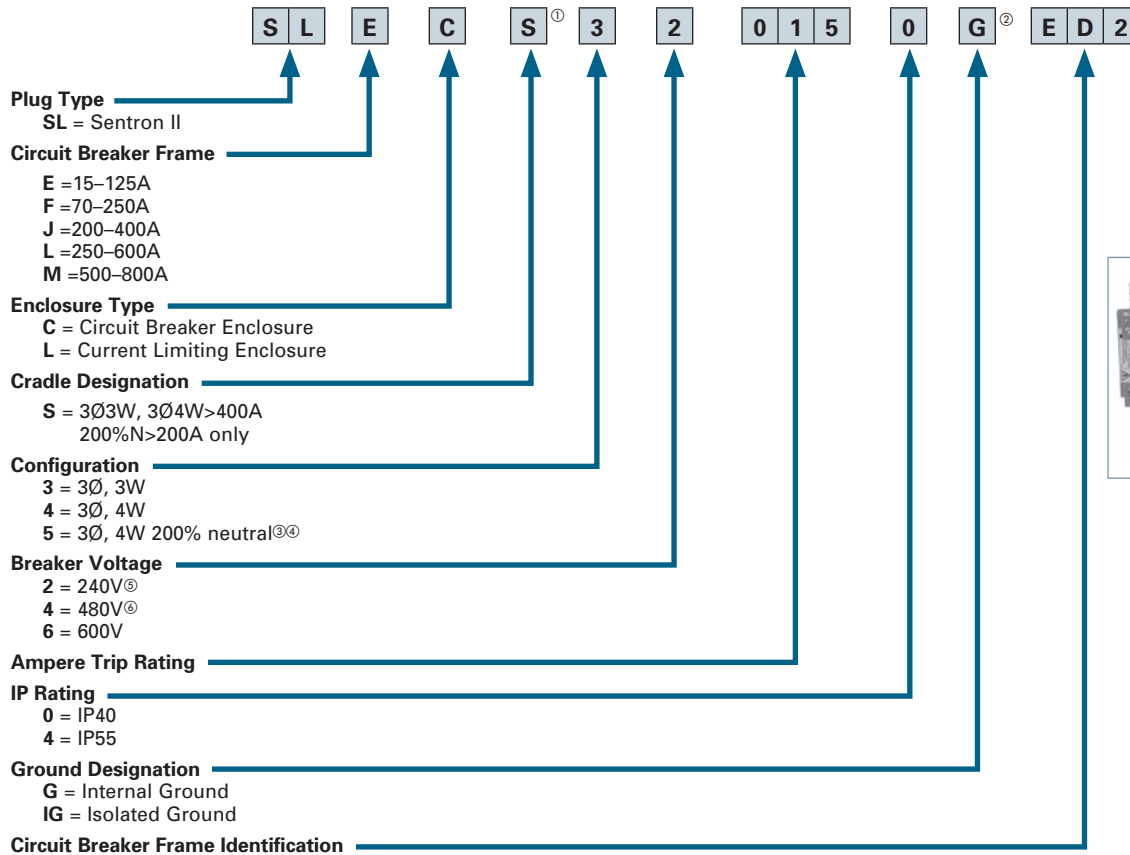
③ IP40 and IP55

# Sentron® Bus Plugs

Catalog Numbering System

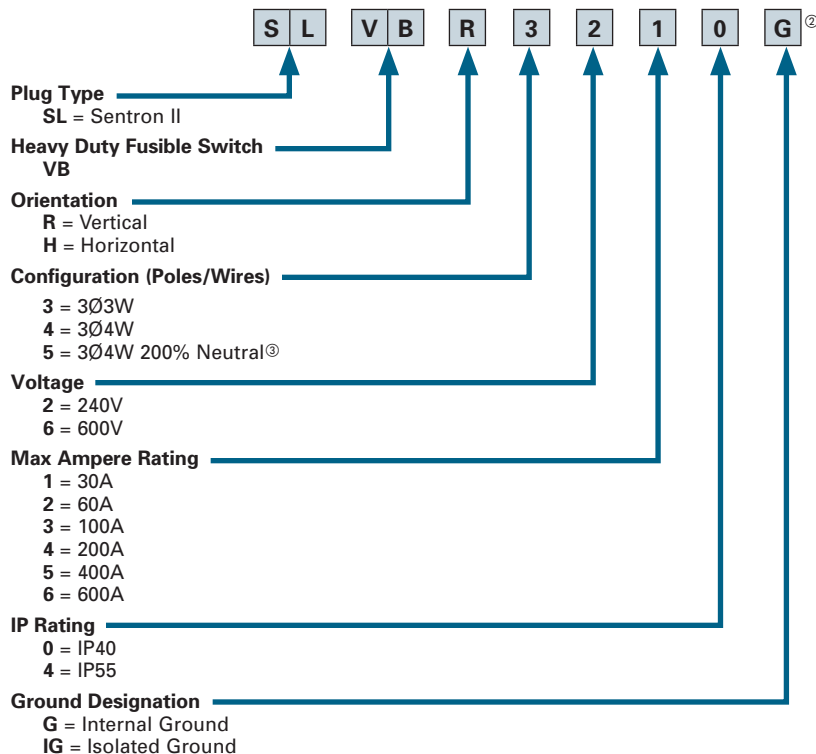
Selection / Application

## Sentron Bus Plugs—Circuit Breaker (Installed)



BUSWAY SYSTEMS 15

## Sentron SLVB Bus Plugs—Fusible



① The S digit is only used on 3- and 4-wire (100%N) plugs that are greater than 400A and 200%N plugs greater than 200A. Lower amperage plugs do not require this digit. (Ex. SLID3610, SLEEC32060ED2)

② The G and IG digits are used to specify internal and isolated ground respectively. Integral (housing) ground plugs do not require this digit. (Ex. SLID3610, SLEEC360150ED6)

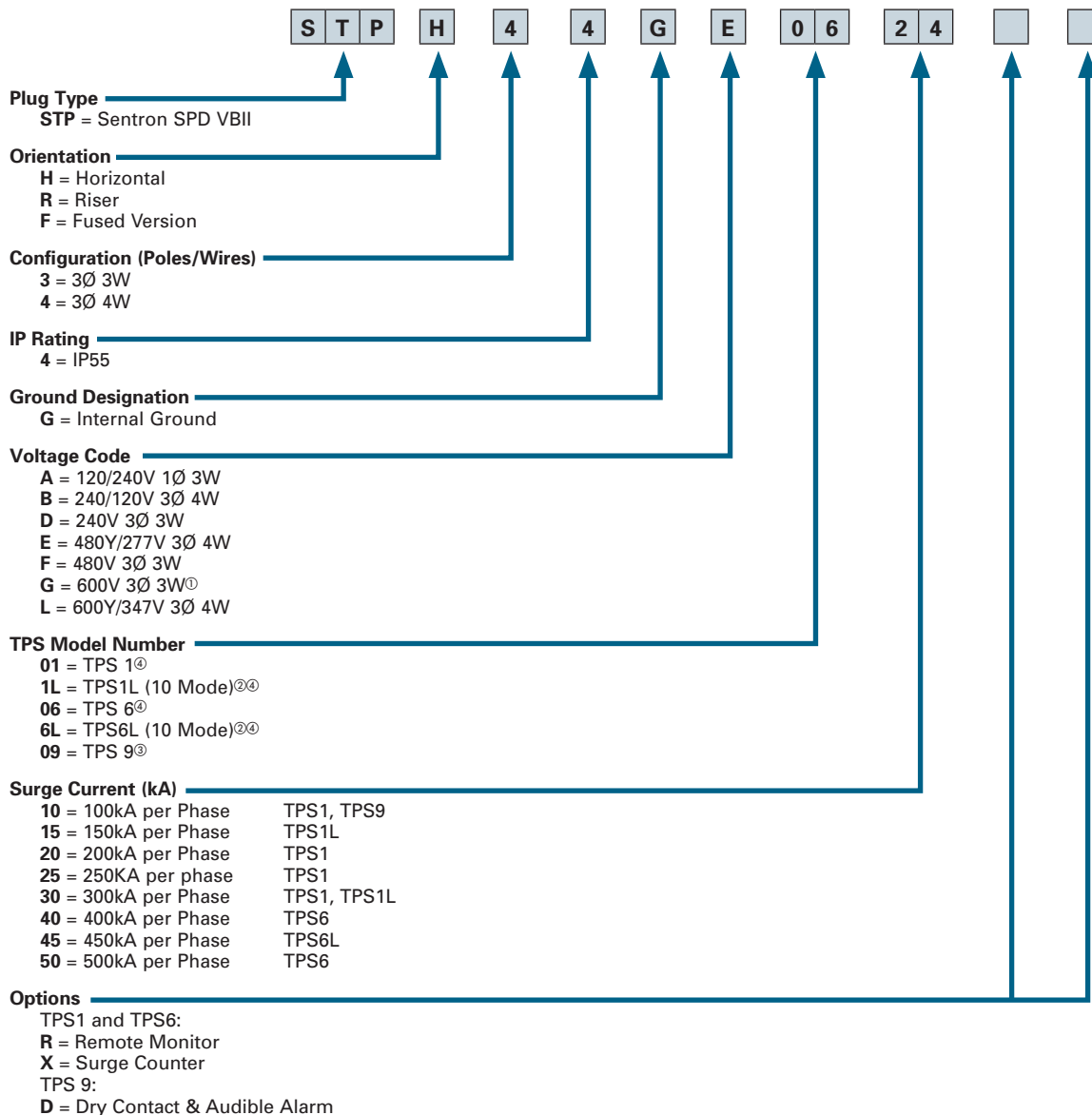
③ Available through 400A only.

④ Available with E, F and J Frame breakers only.

⑤ Available with ED2 breakers only.

⑥ Available with ED4 and HHED6 breakers only.

## Sentron SPD Bus Plug Numbering System



**Notes:**

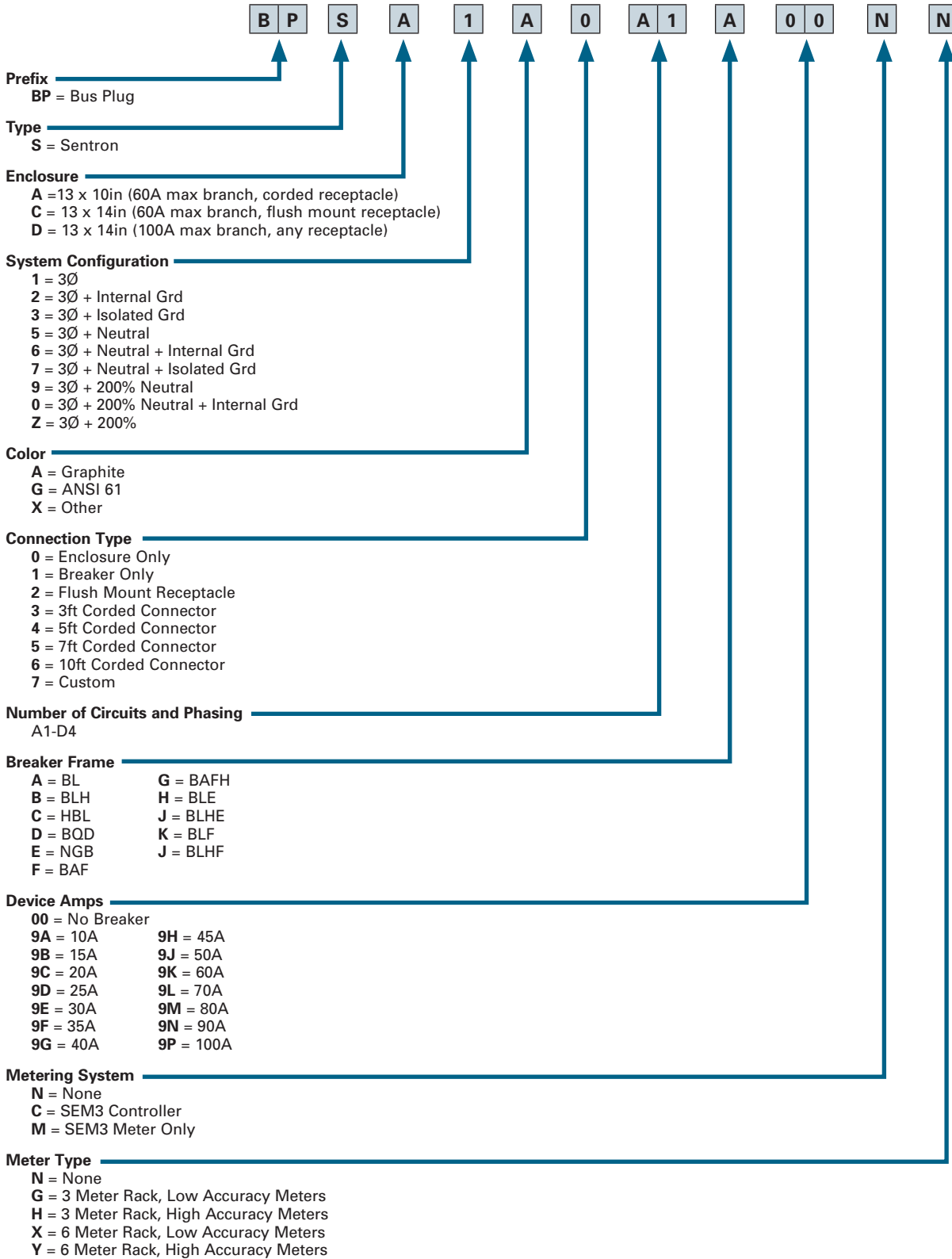
- ① Available in 100kA & 150kA for TPS1 and 100kA, 150kA, 200kA & 250kA for TPS6.
- ② The 10 mode devices provide additional circuit protection for Line to Neutral and Neutral to Ground. The 10 modes of protection are: L1-G, L2-G, L3-G, L1-L2, L2-L3, L1-L3, L1-N, L2-N, L3-N, N-G.
- ③ Standard features: indicator lights.
- ④ Standard features: indicator lights, dry contacts, audible alarm with silence switch, test button.

# Sentron® Bus Plugs

Catalog Numbering System

Selection / Application

## Sentron 3/6 Bus Plugs—Circuit Breaker (Installed)





# Sentron® SLVB Bus Plugs

Bus Plugs / Fusible Plugs

Selection

| Ampere Rating | Catalog Number |
|---------------|----------------|
|---------------|----------------|

### 3-Pole, 250 Volt<sup>①</sup>

|                   |  |
|-------------------|--|
| 30A               | SLVB*3210<br>SLVB*3210G<br>SLVB*3210IG |
| 60A               | SLVB*3220<br>SLVB*3220G<br>SLVB*3220IG |
| 100A              | SLVB*3230<br>SLVB*3230G<br>SLVB*3230IG |
| 200A              | SLVB*3240<br>SLVB*3240G<br>SLVB*3240IG |
| 400A <sup>②</sup> | SLVB*3250<br>SLVB*3250G<br>SLVB*3250IG |
| 600A <sup>②</sup> | SLVB*3260<br>SLVB*3260G<br>SLVB*3260IG |

| Ampere Rating | Catalog Number |
|---------------|----------------|
|---------------|----------------|

### 3-Pole, 600 Volt<sup>①</sup>

|                   |  |
|-------------------|--|
| 30A               | SLVB*3610<br>SLVB*3610G<br>SLVB*3610IG |
| 60A               | SLVB*3620<br>SLVB*3620G<br>SLVB*3620IG |
| 100A              | SLVB*3630<br>SLVB*3630G<br>SLVB*3630IG |
| 200A              | SLVB*3640<br>SLVB*3640G<br>SLVB*3640IG |
| 400A <sup>②</sup> | SLVB*3650<br>SLVB*3650G<br>SLVB*3650IG |
| 600A <sup>②</sup> | SLVB*3660<br>SLVB*3660G<br>SLVB*3660IG |

| Ampere Rating | Catalog Number | Catalog Number |
|---------------|----------------|----------------|
|---------------|----------------|----------------|

### 4-Pole, 250 Volt,<sup>①</sup>

200% Neutral<sup>①</sup>

|                   |  |  |
|-------------------|--|--|
| 30A               | SLVB*4210<br>SLVB*4210G<br>SLVB*4210IG | SLVB*5210<br>SLVB*5210G<br>SLVB*5210IG |
| 60A               | SLVB*4220<br>SLVB*4220G<br>SLVB*4220IG | SLVB*5220<br>SLVB*5220G<br>SLVB*5220IG |
| 100A              | SLVB*4230<br>SLVB*4230G<br>SLVB*4230IG | SLVB*5230<br>SLVB*5230G<br>SLVB*5230IG |
| 200A              | SLVB*4240<br>SLVB*4240G<br>SLVB*4240IG | SLVB*5240<br>SLVB*5240G<br>SLVB*5240IG |
| 400A <sup>②</sup> | SLVB*4250<br>SLVB*4250G<br>SLVB*4250IG | SLVB*5250<br>SLVB*5250G<br>SLVB*5250IG |
| 600A <sup>②</sup> | SLVB*4260<br>SLVB*4260G<br>SLVB*4260IG |  |

| Ampere Rating | Catalog Number | Catalog Number |
|---------------|----------------|----------------|
|---------------|----------------|----------------|

### 4-Pole, 600 Volt,<sup>①</sup>

200% Neutral<sup>①</sup>

|                   |  |  |
|-------------------|--|--|
| 30A               | SLVB*4610<br>SLVB*4610G<br>SLVB*4610IG | SLVB*5610<br>SLVB*5610G<br>SLVB*5610IG |
| 60A               | SLVB*4620<br>SLVB*4620G<br>SLVB*4620IG | SLVB*5620<br>SLVB*5620G<br>SLVB*5620IG |
| 100A              | SLVB*4630<br>SLVB*4630G<br>SLVB*4630IG | SLVB*5630<br>SLVB*5630G<br>SLVB*5630IG |
| 200A              | SLVB*4640<br>SLVB*4640G<br>SLVB*4640IG | SLVB*5640<br>SLVB*5640G<br>SLVB*5640IG |
| 400A <sup>②</sup> | SLVB*4650<br>SLVB*4650G<br>SLVB*4650IG | SLVB*5650<br>SLVB*5650G<br>SLVB*5650IG |
| 600A <sup>②</sup> | SLVB*4660<br>SLVB*4660G<br>SLVB*4660IG |  |

Note: Replace \* in catalog number with "H" for horizontal applications and "R" for riser applications.

## Ground Detector And Potentializer Plug

| Description                               | Catalog Number |
|---|----------------|
| For 2 or 3-pole 240 and 480 volt service. | SLPGR3140G     |

Note: Available in IP40 construction only.

| Description | Catalog Number |
|-------------|----------------|
| Spring Kit  | SXSK           |

Note: Used on 400A and larger bus plugs that require auxiliary support and that are mounted on vertical/riser busway. Kit contains two springs (part number 32-9909-04). One kit required per bus plug. Spring kits are automatically included when 400A and larger bus plug is selected.

## Fuse Adapter Kits

| Switch Rating | Std Fuse Class | Class R Catalog Number | Class T Catalog Number | Class J Catalog Number |
|---------------|----------------|------------------------|------------------------|------------------------|
|---------------|----------------|------------------------|------------------------|------------------------|

### 250V

|                   |         |         |         |         |
|-------------------|---------|---------|---------|---------|
| 30A <sup>③</sup>  | H, K    | SLR2030 |         |         |
| 60A <sup>③</sup>  | H, K    | SLR2060 |         |         |
| 100A <sup>③</sup> | H, K    | SLR2100 | SLT2100 |         |
| 200A <sup>③</sup> | H, K    | SLR2200 | SLT2200 |         |
| 400A <sup>②</sup> | H, K, J | SLR2400 | SLT2400 |         |
| 600A <sup>②</sup> | H, K, J | SLR2600 | SLT2600 | SLJ2600 |

### 600V

|                   |         |         |         |         |
|-------------------|---------|---------|---------|---------|
| 30A <sup>③</sup>  | H, K, J | SLR6030 |         |         |
| 60A <sup>③</sup>  | H, K, J | SLR6060 |         |         |
| 100A <sup>③</sup> | H, K, J | SLR6100 | SLT6100 |         |
| 200A <sup>③</sup> | H, K, J | SLR6200 | SLT6200 |         |
| 400A <sup>②</sup> | H, K, J | SLR6400 | SLT6400 |         |
| 600A <sup>②</sup> | H, K, J | SLR6600 | SLT6600 | SLJ6600 |

① All plugs shown are rated IP40; if IP55 rating is desired, substitute a "4" for "0" in position 8.  
 ② 400A and larger bus plugs require auxiliary support. See also SXSK Spring Kit.

③ Fuse kits per page 4-18, General and Heavy Duty Safety Switch Accessories.

# Sentron® Bus Plugs

Bus Plugs with Standard Circuit Breakers<sup>①②③④</sup>

Selection

| Ampere Rating                                | Catalog Number                                     |
|--|--|
| <b>E Frame 3-Pole, 240 Volt, ED2 Breaker</b> |  |
| 15-60A                                       | SLEC32***0ED2<br>SLEC32***0GED2<br>SLEC32***0IGED2 |
| 70-100A                                      | SLEC32***0ED2<br>SLEC32***0GED2<br>SLEC32***0IGED2 |

| Ampere Rating                                | Catalog Number                                     |
|--|--|
| <b>E Frame 3-Pole, 480 Volt, ED4 Breaker</b> |  |
| 15-60A                                       | SLEC34***0ED4<br>SLEC34***0GED4<br>SLEC34***0IGED4 |
| 70-100A                                      | SLEC34***0ED4<br>SLEC34***0GED4<br>SLEC34***0IGED4 |
| 110-125A                                     | SLEC34***0ED4<br>SLEC34***0GED4<br>SLEC34***0IGED4 |

| Ampere Rating                                | Catalog Number                                     |
|--|--|
| <b>E Frame 3-Pole, 600 Volt, ED6 Breaker</b> |  |
| 15-60A                                       | SLEC36***0ED6<br>SLEC36***0GED6<br>SLEC36***0IGED6 |
| 70-100A                                      | SLEC36***0ED6<br>SLEC36***0GED6<br>SLEC36***0IGED6 |
| 110-125A                                     | SLEC36***0ED6<br>SLEC36***0GED6<br>SLEC36***0IGED6 |

| Ampere Rating                                 | Catalog Number  |
|---|---|
| <b>F Frame 3-Pole, 600 Volt, FXD6 Breaker</b> |   |
| 70-225A                                       | SLFC36***0FXD6<br>SLFC36***0GFXD6<br>SLFC36***0IGFXD6 |
| 250A  | SLFC362500FXD6<br>SLFC362500GFXD6<br>SLFC362500IGFXD6 |

| Ampere Rating                                 | Catalog Number  |
|---|---|
| <b>J Frame 3-Pole, 600 Volt, JXD6 Breaker</b> |   |
| 200-400A <sup>④</sup>                         | SLJC36***0JXD6<br>SLJC36***0GJXD6<br>SLJC36***0IGJXD6 |

| Ampere Rating                                 | Catalog Number  |
|---|---|
| <b>L Frame 3-Pole, 600 Volt, LXD6 Breaker</b> |   |
| 450-600A <sup>④</sup>                         | SL LCS36***0LXD6<br>SL LCS36***0GLXD6<br>SL LCS36***0IGLXD6 |

| Ampere Rating                                 | Catalog Number   |
|---|--|
| <b>M Frame 3-Pole, 600 Volt, MXD6 Breaker</b> |  |
| 500-800A <sup>④</sup>                         | SLMCS36***0MXD6<br>SLMCS36***0GMXD6<br>SLMCS36***0IGMXD6 |

| Ampere Rating                                | Catalog Number                                     | Ampere Rating | Catalog Number                                     |
|--|--|---------------|--|
| <b>E Frame 4-Pole, 240 Volt, ED2 Breaker</b> |  |               |  |
| 15-60A                                       | SLEC42***0ED2<br>SLEC42***0GED2<br>SLEC42***0IGED2 | 15-60A        | SLEC52***0ED2<br>SLEC52***0GED2<br>SLEC52***0IGED2 |
| 70-100A                                      | SLEC42***0ED2<br>SLEC42***0GED2<br>SLEC42***0IGED2 | 70-100A       | SLEC52***0ED2<br>SLEC52***0GED2<br>SLEC52***0IGED2 |

| Ampere Rating                                | Catalog Number                                     | Ampere Rating | Catalog Number                                     |
|--|--|---------------|--|
| <b>E Frame 4-Pole, 480 Volt, ED4 Breaker</b> |  |               |  |
| 15-60A                                       | SLEC44***0ED4<br>SLEC44***0GED4<br>SLEC44***0IGED4 | 15-60A        | SLEC54***0ED4<br>SLEC54***0GED4<br>SLEC54***0IGED4 |
| 70-100A                                      | SLEC44***0ED4<br>SLEC44***0GED4<br>SLEC44***0IGED4 | 70-100A       | SLEC54***0ED4<br>SLEC54***0GED4<br>SLEC54***0IGED4 |
| 110-125A                                     | SLEC44***0ED4<br>SLEC44***0GED4<br>SLEC44***0IGED4 | 110-125A      | SLEC54***0ED4<br>SLEC54***0GED4<br>SLEC54***0IGED4 |

| Ampere Rating                                | Catalog Number                                     | Ampere Rating | Catalog Number                                     |
|--|--|---------------|--|
| <b>E Frame 4-Pole, 600 Volt, ED6 Breaker</b> |  |               |  |
| 15-60A                                       | SLEC46***0ED6<br>SLEC46***0GED6<br>SLEC46***0IGED6 | 15-60A        | SLEC56***0ED6<br>SLEC56***0GED6<br>SLEC56***0IGED6 |
| 70-100A                                      | SLEC46***0ED6<br>SLEC46***0GED6<br>SLEC46***0IGED6 | 70-100A       | SLEC56***0ED6<br>SLEC56***0GED6<br>SLEC56***0IGED6 |
| 110-125A                                     | SLEC46***0ED6<br>SLEC46***0GED6<br>SLEC46***0IGED6 | 110-125A      | SLEC56***0ED6<br>SLEC56***0GED6<br>SLEC56***0IGED6 |

| Ampere Rating                                 | Catalog Number  | Ampere Rating | Catalog Number  |
|---|---|---------------|---|
| <b>F Frame 4-Pole, 600 Volt, FXD6 Breaker</b> |   |               |   |
| 70-225A                                       | SLFC46***0FXD6<br>SLFC46***0GFXD6<br>SLFC46***0IGFXD6 | 70-200A       | SLFC56***0FXD6<br>SLFC56***0GFXD6<br>SLFC56***0IGFXD6 |
| 250A  | SLFC462500FXD6<br>SLFC462500GFXD6<br>SLFC462500IGFXD6 | 225-250A      | SLFC56***0FXD6<br>SLFC56***0GFXD6<br>SLFC56***0IGFXD6 |

| Ampere Rating                                 | Catalog Number  | Ampere Rating         | Catalog Number   |
|---|---|-----------------------|--|
| <b>J Frame 4-Pole, 600 Volt, JXD6 Breaker</b> |   |                       |  |
| 200-400A <sup>④</sup>                         | SLJC46***0JXD6<br>SLJC46***0GJXD6<br>SLJC46***0IGJXD6 | 200A <sup>④</sup>     | SLJCS62000JXD6<br>SLJCS62000GJXD6<br>SLJCS62000IGJXD6    |
|   |   | 225-400A <sup>④</sup> | SLJCS56***0JXD6<br>SLJCS56***0GJXD6<br>SLJCS56***0IGJXD6 |

| Ampere Rating                                 | Catalog Number  |
|---|---|
| <b>L Frame 4-Pole, 600 Volt, LXD6 Breaker</b> |   |
| 450-600A <sup>④</sup>                         | SL LCS46***0LXD6<br>SL LCS46***0GLXD6<br>SL LCS46***0IGLXD6 |

| Ampere Rating                                 | Catalog Number   |
|---|--|
| <b>M Frame 4-Pole, 600 Volt, MXD6 Breaker</b> |  |
| 500-800A <sup>④</sup>                         | SLMCS46***0MXD6<br>SLMCS46***0GMXD6<br>SLMCS46***0IGMXD6 |

| Description | Catalog Number |
|-------------|----------------|
| Spring Kit  | SXSK           |

NOTE: Used on 400A and larger bus plugs that require auxiliary support and that are mounted on vertical/riser busway. Kit contains two springs (part number 32-9909-04). One kit required per bus plug. Spring kits are automatically included when 400A and larger bus plug is selected.

① Replace "\*\*\*\*" with breaker trip rating. Example: SLEC36060ED6, for 60A trip.

② All plugs shown have an IP40 rating, if IP54/55 is desired substitute "4" for "0" in position 10 (or 11 for cradle plugs):

E Frame: Ex. SLEC360604ED6  
F Frame: Ex. SLFC360704FXD6  
J Frame: Ex. SLJC361004JXD6  
L Frame: Ex. SL LCS365004LXD6  
M Frame: Ex. SLMCS368004MXD6

③ For the following breaker charges, change the catalog number suffix:

15-60A: HHED6 Ex. SLEC36\*\*\*0HHED6  
70-100A: HHED6 Ex. SLEC36\*\*\*0HHED6  
110-125A: HHED6 Ex. SLEC36\*\*\*0HHED6  
F Frame: FD6 Ex. SLFC36\*\*\*0FD6  
F Frame: HFD6 Ex. SLFC36\*\*\*0HFD6  
J Frame: JD6 Ex. SLJC36\*\*\*0JD6  
J Frame: HJD6 Ex. SLJC36\*\*\*0HJD6  
L Frame: LD6 Ex. SL LCS36\*\*\*0LD6  
L Frame: HLD6 Ex. SL LCS36\*\*\*0HLD6  
M Frame: MD6 Ex. SLMCS36\*\*\*0MD6  
M Frame: HMD6 Ex. SLMCS36\*\*\*0HMD6

④ 400A and larger bus plugs that require auxiliary support. See also SXSK Spring Kit.

# Sentron® Bus Plugs

Bus Plugs with Current Limiting Circuit Breakers<sup>①②</sup>

Selection

| Ampere Rating | Catalog Number |
|---------------|----------------|
|---------------|----------------|

### E Frame 3-Pole, 600 Volt, CED6 Breaker

|          |   |
|----------|---|
| 15-60A   | SLEL36***0CED6<br>SLEL36***0GCED6<br>SLEL36***0IGCED6 |
| 70-100A  | SLEL36***0CED6<br>SLEL36***0GCED6<br>SLEL36***0IGCED6 |
| 110-125A | SLEL36***0CED6<br>SLEL36***0GCED6<br>SLEL36***0IGCED6 |

### F Frame 3-Pole, 600 Volt, CFD6 Breaker

|          |   |
|----------|---|
| 100-225A | SLFL36***0CFD6<br>SLFL36***0GCFD6<br>SLFL36***0IGCFD6 |
| 250A     | SLFL362500CFD6<br>SLFL362500GCFD6<br>SLFL362500IGCFD6 |

### J Frame 3-Pole, 600 Volt, CJD6 Breaker

|                       |  |
|-----------------------|--|
| 200-400A <sup>③</sup> | SLJL36***0CJD6<br>SLJL36***0GCJD6<br>SLJL36***0IGJD6 |
|-----------------------|--|

### L Frame 3-Pole, 600 Volt, CLD6 Breaker

|                       |   |
|-----------------------|---|
| 450-600A <sup>③</sup> | SLLS36***0CLD6<br>SLLS36***0GCLD6<br>SLLS36***0IGCLD6 |
|-----------------------|---|

| Ampere Rating | Catalog Number | Ampere Rating | Catalog Number |
|---------------|----------------|---------------|----------------|
|---------------|----------------|---------------|----------------|

### E Frame 4-Pole, 600 Volt, CED6 Breaker

|          |   |
|----------|---|
| 15-60A   | SLEL46***0CED6<br>SLEL46***0GCED6<br>SLEL46***0IGCED6 |
| 70-100A  | SLEL46***0CED6<br>SLEL46***0GCED6<br>SLEL46***0IGCED6 |
| 110-125A | SLEL46***0CED6<br>SLEL46***0GCED6<br>SLEL46***0IGCED6 |

### F Frame 4-Pole, 600 Volt, CFD6 Breaker

|          |   |
|----------|---|
| 100-225A | SLFL46***0CFD6<br>SLFL46***0GCFD6<br>SLFL46***0IGCFD6 |
| 250A     | SLFL462500CFD6<br>SLFL462500GCFD6<br>SLFL462500IGCFD6 |

### J Frame 4-Pole, 600 Volt, CJD6 Breaker

|                       |  |
|-----------------------|--|
| 200-400A <sup>③</sup> | SLJL46***0CJD6 —<br>SLJL46***0GCJD6 —<br>SLJL46***0IGJD6 — |
|-----------------------|--|

### L Frame 4-Pole, 600 Volt, CLD6 Breaker

|                       |   |
|-----------------------|---|
| 450-600A <sup>③</sup> | SLLS46***0CLD6<br>SLLS46***0GCLD6<br>SLLS46***0IGCLD6 |
|-----------------------|---|

### E Frame 200% Neutral

|          |   |
|----------|---|
| 15-60A   | SLEL56***0CED6<br>SLEL56***0GCED6<br>SLEL56***0IGCED6 |
| 70-100A  | SLEL56***0CED6<br>SLEL56***0GCED6<br>SLEL56***0IGCED6 |
| 110-125A | SLEL56***0CED6<br>SLEL56***0GCED6<br>SLEL56***0IGCED6 |

### F Frame 200% Neutral

|          |   |
|----------|---|
| 70-200A  | SLFL56***0CFD6<br>SLFL56***0GCFD6<br>SLFL56***0IGCFD6 |
| 225-250A | SLFL56***0CFD6<br>SLFL56***0GCFD6<br>SLFL56***0IGCFD6 |

### J Frame 200% Neutral

|                       |   |
|-----------------------|---|
| 200A <sup>③</sup>     | SLJL562000CJD6<br>SLJL562000GCJD6<br>SLJL562000IGJD6    |
| 225-400A <sup>③</sup> | SLJLS56***0CJD6<br>SLJLS56***0GCJD6<br>SLJLS56***0IGJD6 |

① Replace "\*\*\*\*" with breaker trip rating.  
Example: SLEC36060ED6, for 60A trip.

② All plugs shown have an IP40 rating, if IP54/55 is desired, substitute "4" for "0" in position 10 (or 11 for cradle plugs):

E Frame: Ex. SLEC360604ED6  
F Frame: Ex. SLFC360704FXD6  
J Frame: Ex. SLJC361004JXD6  
L Frame: Ex. SLLCS365004LXD6  
M Frame: Ex. SLMCS368004MXD6

③ 400A and larger bus plugs that require auxiliary support. See also SXSX Spring Kit.

# Sentron® Bus Plugs

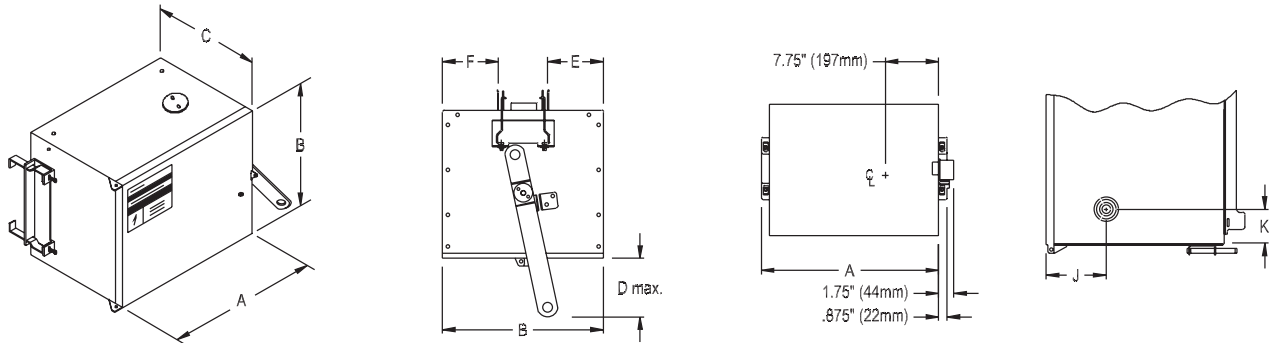
## Circuit Breaker Bus Plugs Dimensions and Weights

Selection

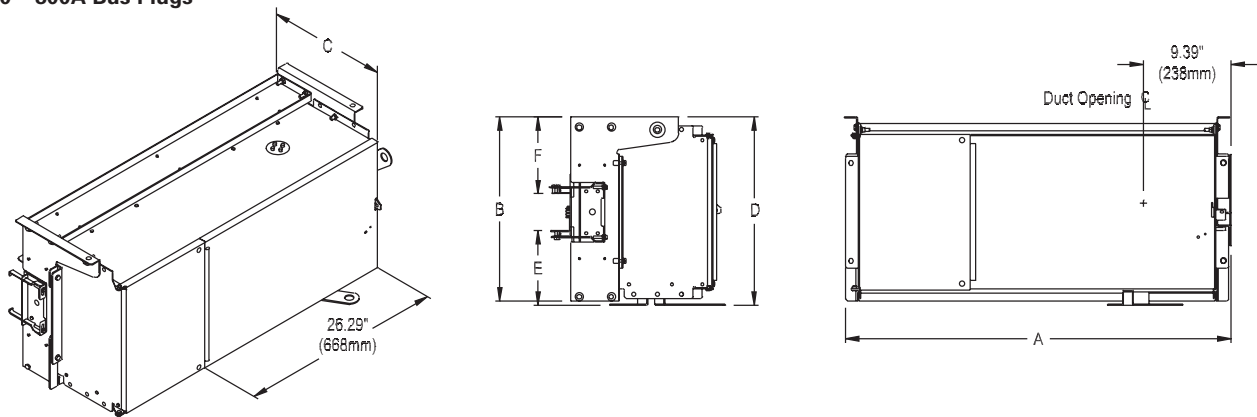
### Circuit Breaker Bus Plugs, Dimensions and Weights (Enclosure only)

| Ampere Rating | Dimensions Inches (mm) |             |             |           |            |            |            |           | Weight lbs (kg) |
|---------------|------------------------|-------------|-------------|-----------|------------|------------|------------|-----------|-----------------|
|               | "A" <sup>①</sup>       | "B"         | "C"         | "D" max.  | "E"        | "F"        | "J"        | "K"       |                 |
| 125           | 15.13 (384)            | 10.18 (259) | 9.75 (248)  | 1.60 (41) | 2.50 (64)  | 2.50 (64)  | 3.50 (89)  | 2.25 (57) | 35 (15.87)      |
| 250           | 20.25 (514)            | 10.18 (259) | 9.75 (248)  | 1.60 (41) | 2.50 (64)  | 2.50 (64)  | 3.25 (83)  | 3.25 (83) | 50 (22.68)      |
| 400           | 21.75 (552)            | 16.75 (425) | 11.75 (298) | 1.60 (41) | 5.75 (146) | 5.75 (146) | 4.00 (102) | 3.25 (83) | 83 (37.64)      |
| 600           | 41.50 (1054)           | 19.75 (502) | 15.75 (400) | 2.31 (59) | 7.00 (178) | 7.75 (197) | —          | —         | 130 (58.97)     |
| 800           | 41.50 (1054)           | 19.75 (502) | 15.75 (400) | 2.31 (59) | 7.00 (178) | 7.75 (197) | —          | —         | 177 (80.29)     |

#### 125 – 400A Bus Plugs



#### 600 – 800A Bus Plugs

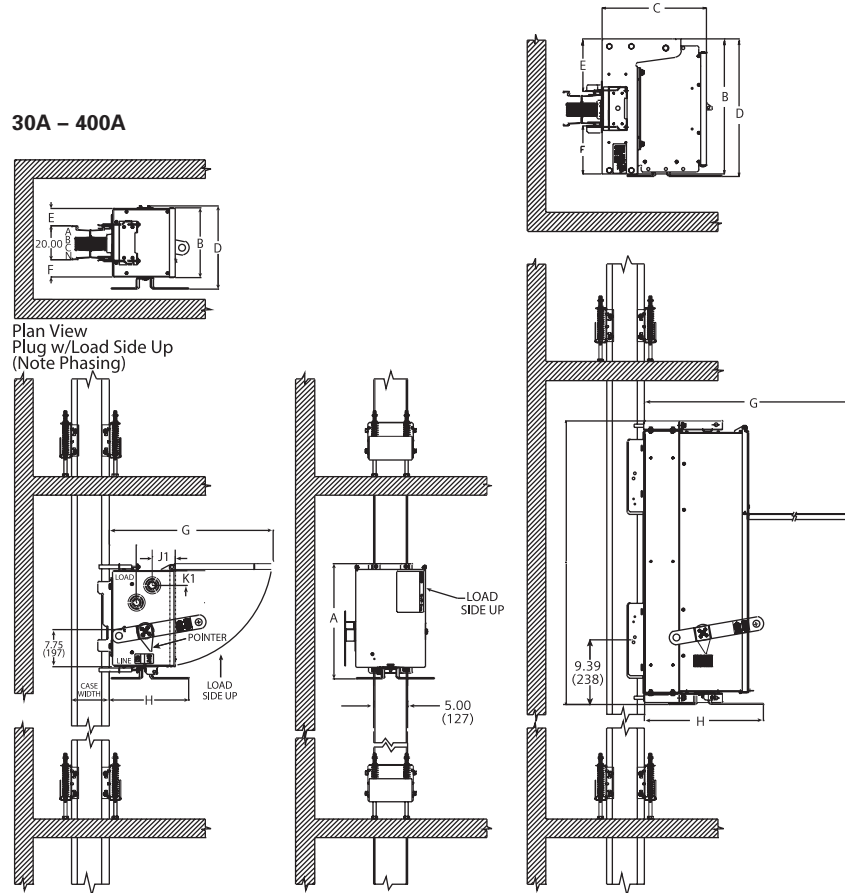


### Circuit Breaker Bus Plugs, Load Lugs and Knockouts

| Frame Size | Ground Lug Cu/Al | Neutral Lug Cu/Al | Phase Lug Cu/Al   | Knockout Sizes In. (mm) |
|------------|------------------|-------------------|-------------------|-------------------------|
| E Frame    | #14-2            | #14-2             | #14-1/0           | 7/8 (22)                |
| F Frame    | #14-2            | #6-350 kcmil      | #6-350 kcmil      | 7/8 (22)                |
| J Frame    | #14-2            | (2) #4-500 kcmil  | (2) 3/0-500 kcmil | 7/8 (22)                |

① Current limiting breakers add 5-7 inches to dimension A, depending upon breaker amperage.

### 600A and 800A Cradle Mounted



| Dim. Legend | Circuit Breaker Plugs No Cradle |             |                              |             |                              |              | Circuit Breaker Plugs w/Cradle |              |                 |              |
|-------------|---------------------------------|-------------|------------------------------|-------------|------------------------------|--------------|--------------------------------|--------------|-----------------|--------------|
|             | E Frame Current                 |             | F Frame <sup>Ⓞ</sup> Current |             | J Frame <sup>Ⓞ</sup> Current |              | L Frame Current                |              | M Frame Current |              |
|             | Standard                        | Limiting    | Standard                     | Limiting    | Standard                     | Limiting     | Standard                       | Limiting     | Standard        | Limiting     |
| A           | 17.00 (432)                     | 22.00 (559) | 22.00 (559)                  | 27.00 (686) | 23.50 (597)                  | 30.50 (775)  | 41.50 (1054)                   | 41.50 (1054) | 41.50 (1054)    | 41.50 (1054) |
| B           | 10.25 (260)                     | 10.25 (260) | 10.25 (260)                  | 10.25 (260) | 16.75 (425)                  | 16.75 (425)  | 19.75 (502)                    | 19.75 (502)  | 19.75 (502)     | 19.75 (502)  |
| C           | 9.75 (248)                      | 9.75 (248)  | 9.75 (248)                   | 9.75 (248)  | 11.75 (298)                  | 11.75 (298)  | 15.75 (400)                    | 15.75 (400)  | 15.75 (400)     | 15.75 (400)  |
| D           | 12.25 (311)                     | 12.25 (311) | 12.25 (311)                  | 12.25 (311) | 18.75 (476)                  | 18.75 (476)  | 20.25 (514)                    | 20.25 (514)  | 20.25 (514)     | 20.25 (514)  |
| E           | 2.50 (64)                       | 2.50 (64)   | 2.50 (64)                    | 2.50 (64)   | 5.75 (146)                   | 5.75 (146)   | 7.75 (197) <sup>Ⓞ</sup>        | 7.75 (197)   | 7.75 (197)      | 7.75 (197)   |
| F           | 2.50 (64)                       | 2.50 (64)   | 2.50 (64)                    | 2.50 (64)   | 5.75 (146)                   | 5.75 (146)   | 7.00 (178)                     | 7.00 (178)   | 7.00 (178)      | 7.00 (178)   |
| G           | 24.00 (610)                     | 29.00 (737) | 29.00 (737)                  | 29.00 (737) | 32.50 (826)                  | 39.50 (1003) | 41.50 (1054)                   | 41.50 (1054) | 41.50 (1054)    | 41.50 (1054) |
| H           | 11.25 (286)                     | 11.25 (286) | 11.25 (286)                  | 11.25 (286) | 13.50 (343)                  | 13.50 (343)  | 18.00 (457)                    | 18.00 (457)  | 18.00 (457)     | 18.00 (457)  |
| J1          | 3.50 (89)                       | 3.50 (89)   | 3.25 (83)                    | 3.25 (83)   | 4.00 (102)                   | 4.00 (102)   | —                              | —            | —               | —            |
| K1          | 2.25 (57)                       | 2.25 (57)   | 3.25 (83)                    | 3.25 (83)   | 3.25 (83)                    | 3.25 (83)    | —                              | —            | —               | —            |

**Legend:**

- A = Length of enclosure including handle
- B = Height of enclosure
- C = Depth of enclosure
- D = Height of enclosure including optional handle location
- E = Extension of plug above top of busway
- F = Extension of plug below bottom of busway
- G = Cover (depth) clearance for enclosure
- H = Depth of enclosure from handle to edge of busway
- J = Knockout/ pilot hole location (horizontal)
- K = Knockout/ pilot hole location (vertical)

**Ⓞ 200%N Applications**

- for F-Frame Rated <200A use L-Frame Dims.
- for J-Frame Rated <400A use L-Frame Dims.
- for 400A Fusible switch use 600A Switch Dims.

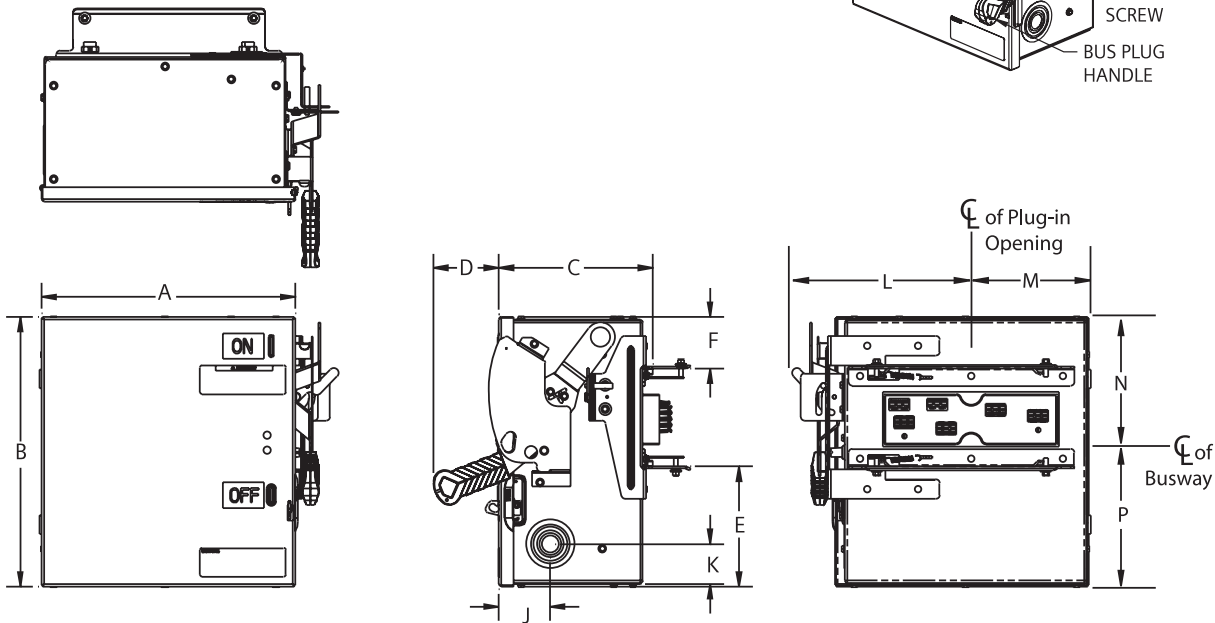
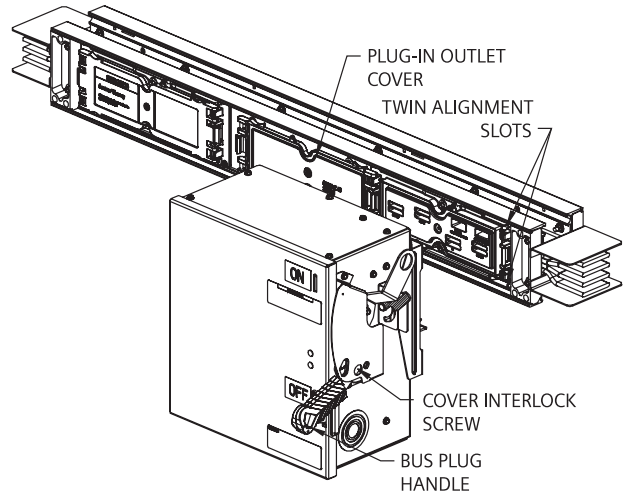
# Sentron® Bus Plugs

## Fusible Bus Plugs Dimensions and Weights

Selection

### Horizontal Fusible Bus Plug Dimensions and Weights (Enclosure Only)

| Ampere Rating | Dimensions Inches (mm) |                |                |               |                |               |                |              |                |               |                |                | Weight lbs (kg) |
|---------------|------------------------|----------------|----------------|---------------|----------------|---------------|----------------|--------------|----------------|---------------|----------------|----------------|-----------------|
|               | "A"                    | "B"            | "C"            | "D max."      | "E"            | "F"           | "J"            | "K"          | "L"            | "M"           | "N"            | "P"            |                 |
| 30            | 13.13<br>(333)         | 13.86<br>(352) | 7.96<br>(202)  | 2.60<br>(66)  | 6.18<br>(156)  | 2.66<br>(67)  | 2.65<br>(67)   | 2.06<br>(52) | 9.81<br>(249)  | 6.22<br>(157) | 5.30<br>(134)  | 8.63<br>(219)  | 23.5 (10.66)    |
| 60            | 13.13<br>(333)         | 14.86<br>(377) | 7.96<br>(202)  | 2.60<br>(66)  | 7.18<br>(182)  | 2.66<br>(67)  | 2.65<br>(67)   | 2.06<br>(52) | 9.81<br>(249)  | 6.22<br>(157) | 5.30<br>(134)  | 9.63<br>(244)  | 25.5 (11.56)    |
| 100           | 13.13<br>(333)         | 15.86<br>(402) | 7.96<br>(202)  | 2.60<br>(66)  | 8.18<br>(207)  | 2.66<br>(67)  | 2.65<br>(67)   | 2.06<br>(52) | 9.81<br>(249)  | 6.22<br>(157) | 5.30<br>(134)  | 10.53<br>(267) | 28.0 (12.70)    |
| 200           | 14.88<br>(377)         | 22.86<br>(580) | 10.58<br>(268) | 2.60<br>(66)  | 15.88<br>(403) | 2.66<br>(67)  | 3.40<br>(86)   | 3.06<br>(78) | 9.81<br>(249)  | 7.95<br>(201) | 5.27<br>(134)  | 17.59<br>(447) | 49.0 (22.22)    |
| 400           | 18.63<br>(473)         | 25.48<br>(647) | 15.67<br>(398) | 5.50<br>(140) | 12.67<br>(322) | 7.67<br>(195) | 12.15<br>(309) | 3.06<br>(78) | 11.80<br>(299) | 9.43<br>(239) | 11.91<br>(303) | 15.14<br>(385) | 100.0 (254)     |
| 600           | 18.63<br>(473)         | 25.48<br>(647) | 15.67<br>(398) | 5.50<br>(140) | 12.67<br>(322) | 7.67<br>(195) | 12.15<br>(309) | 3.06<br>(78) | 11.80<br>(299) | 9.43<br>(239) | 11.91<br>(303) | 15.14<br>(385) | 100.0 (254)     |





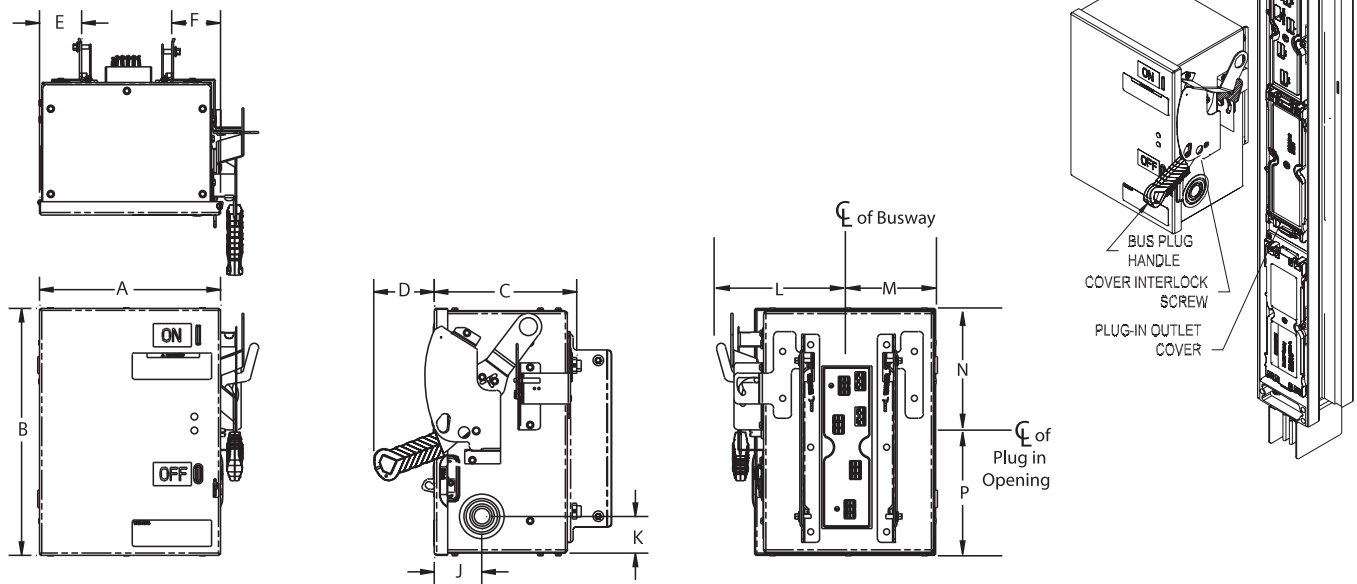
# Sentron® Bus Plugs

## Fusible Bus Plugs Dimensions and Weights

Selection

### Riser Fusible Bus Plug Dimensions and Weights (Enclosure Only)

| Ampere Rating | Dimensions Inches (mm) |             |             |            |            |            |             |           |             |            |             |             | Weight lbs (kg) |
|---------------|------------------------|-------------|-------------|------------|------------|------------|-------------|-----------|-------------|------------|-------------|-------------|-----------------|
|               | "A"                    | "B"         | "C"         | "D max."   | "E"        | "F"        | "J"         | "K"       | "L"         | "M"        | "N"         | "P"         |                 |
| 30            | 10.13 (257)            | 13.86 (352) | 7.96 (202)  | 5.25 (133) | 2.74 (69)  | 2.36 (59)  | 2.65 (67)   | 2.06 (52) | 8.06 (204)  | 5.08 (129) | 7.8 (198)   | 6.06 (154)  | 23.5 (10.66)    |
| 60            | 10.13 (257)            | 14.86 (377) | 7.96 (202)  | 5.25 (133) | 2.74 (69)  | 2.36 (59)  | 2.65 (67)   | 2.06 (52) | 8.06 (204)  | 2.08 (52)  | 7.8 (198)   | 7.06 (179)  | 25.5 (11.56)    |
| 100           | 11.13 (282)            | 15.86 (402) | 7.96 (202)  | 5.25 (133) | 7.74 (196) | 3.36 (85)  | 2.65 (67)   | 2.06 (52) | 8.06 (204)  | 6.08 (154) | 7.8 (198)   | 8.06 (205)  | 28.0 (12.70)    |
| 200           | 14.88 (377)            | 22.86 (580) | 10.58 (268) | 5.90 (149) | 5.11 (129) | 4.74 (120) | 3.40 (86)   | 3.06 (78) | 10.42 (264) | 7.35 (186) | 9.05 (230)  | 13.81 (351) | 49.0 (22.22)    |
| 400           | 18.63 (473)            | 25.48 (647) | 15.67 (398) | 5.50 (140) | 6.60 (167) | 7.10 (180) | 12.15 (309) | 3.06 (78) | 11.97 (304) | 9.25 (234) | 13.56 (344) | 13.49 (342) | 100.0 (2540)    |
| 600           | 18.63 (473)            | 25.48 (647) | 15.67 (398) | 5.50 (140) | 6.60 (167) | 7.10 (180) | 12.15 (309) | 3.06 (78) | 11.97 (304) | 9.25 (234) | 13.56 (344) | 13.49 (342) | 100.0 (2540)    |



15 BUSWAY SYSTEMS

### Fusible Switch Plug, Load Lugs, and Knockouts

| Ampere Rating | Ground Lug Cu/Al | Neutral Lug Cu/Al                | Phase Lug Cu/Al                  | Knockout Sizes Inches (mm) |
|---------------|------------------|----------------------------------|----------------------------------|----------------------------|
| 30            | #14-1/0          | #14-2                            | #14-2                            | 7/8 (22)                   |
| 60            | #14-1/0          | #14-1/0                          | #14-2                            | 7/8 (22)                   |
| 100           | #14-1/0          | #14-1/0                          | #14-1/0                          | 7/8 (22)                   |
| 200           | #14-1/0          | #6-300MCM                        | #6-300MCM                        | 7/8 (22)                   |
| 400           | (2)#6-350MCM     | (2) 1/0-250MCM or (1) 1/0-750MCM | (2) 1/0-250MCM or (1) 1/0-750MCM | 7/8 (22)                   |
| 600           | (2)#6-350MCM     | (4) 1/0-250MCM or (2) 1/0-750MCM | (4) 1/0-250MCM or (2) 1/0-750MCM | 7/8 (22)                   |

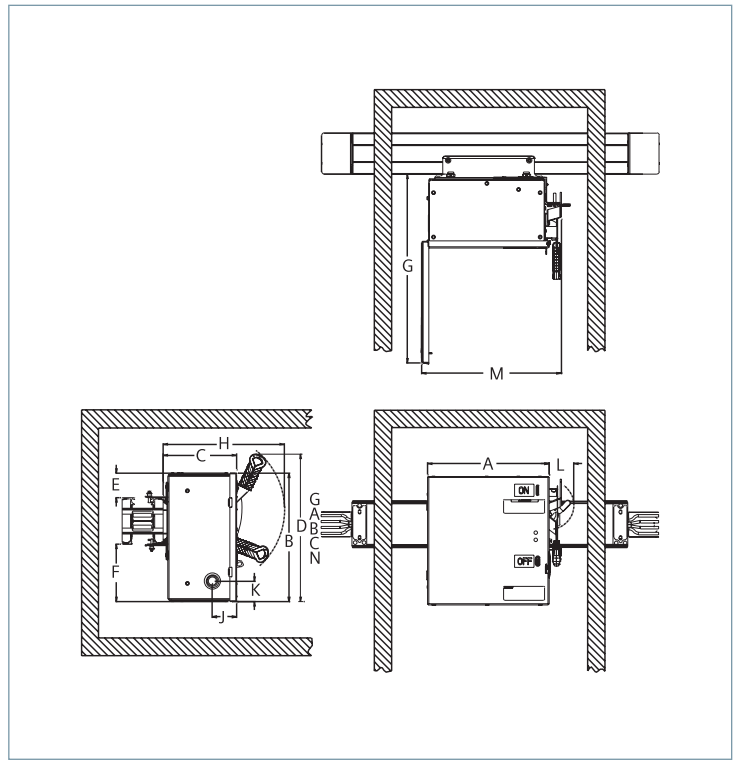
# Sentron® Bus Plugs

## Wall Clearance and Fusible Bus Plug Dimensions

Dimensions

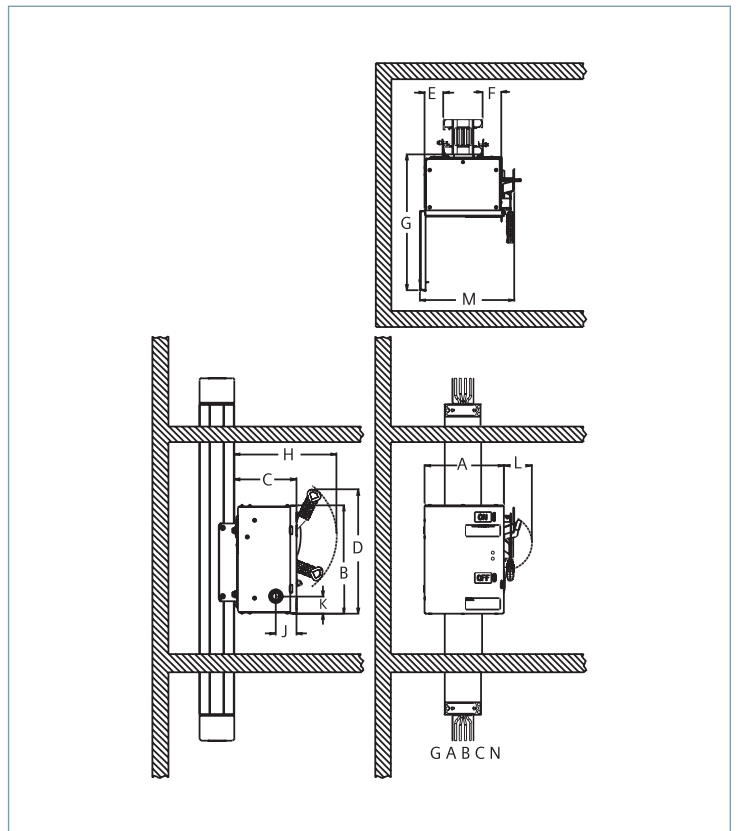
### Wall Clearance and Bus Plug Dimensions Horizontal (Inches/mm)

| Dim. | No Cradle      |                |                |                |                |                |
|------|----------------|----------------|----------------|----------------|----------------|----------------|
|      | 30             | 60             | 100            | 200            | 400            | 600            |
| A    | 13.13<br>(333) | 13.13<br>(333) | 13.13<br>(333) | 14.88<br>(377) | 18.63<br>(473) | 18.63<br>(473) |
| B    | 13.86<br>(352) | 14.86<br>(377) | 15.86<br>(402) | 22.86<br>(580) | 27.00<br>(686) | 27.00<br>(686) |
| C    | 7.96<br>(202)  | 7.96<br>(202)  | 7.96<br>(202)  | 10.58<br>(268) | 15.67<br>(398) | 15.67<br>(398) |
| D    | 15.89<br>(403) | 16.68<br>(423) | 17.68<br>(449) | 24.66<br>(626) | 20.00<br>(508) | 20.00<br>(508) |
| E    | 6.19<br>(157)  | 7.19<br>(182)  | 8.19<br>(208)  | 15.19<br>(385) | 12.67<br>(322) | 12.67<br>(322) |
| F    | 2.67<br>(67)   | 2.67<br>(67)   | 2.67<br>(67)   | 2.67<br>(67)   | 7.67<br>(195)  | 7.67<br>(195)  |
| G    | 20.39<br>(517) | 20.39<br>(517) | 20.39<br>(517) | 24.76<br>(628) | 33.75<br>(857) | 33.75<br>(857) |
| H    | 13.09<br>(332) | 13.09<br>(332) | 13.09<br>(332) | 16.55<br>(420) | 21.17<br>(538) | 21.17<br>(538) |
| J    | 2.65<br>(67)   | 2.65<br>(67)   | 2.65<br>(67)   | 3.40<br>(86)   | 12.15<br>(309) | 12.15<br>(309) |
| K    | 2.06<br>(52)   | 2.06<br>(52)   | 2.06<br>(52)   | 3.06<br>(78)   | 3.06<br>(78)   | 3.06<br>(78)   |
| L    | 2.65<br>(67)   | 2.65<br>(67)   | 2.65<br>(67)   | 2.65<br>(67)   | 2.65<br>(67)   | 2.65<br>(67)   |
| M    | 15.07<br>(382) | 15.07<br>(382) | 15.07<br>(382) | 16.82<br>(427) | 21.00<br>(533) | 21.00<br>(533) |



### Wall Clearance and Bus Plug Dimensions Riser (Inches/mm)

| Dim. | No Cradle      |                |                |                |                |                |
|------|----------------|----------------|----------------|----------------|----------------|----------------|
|      | 30             | 60             | 100            | 200            | 400            | 600            |
| A    | 10.13<br>(237) | 10.13<br>(257) | 11.13<br>(282) | 14.68<br>(372) | 18.63<br>(473) | 18.63<br>(473) |
| B    | 13.86<br>(352) | 14.86<br>(377) | 15.86<br>(402) | 22.86<br>(580) | 27.00<br>(686) | 27.00<br>(686) |
| C    | 7.96<br>(202)  | 7.96<br>(202)  | 7.96<br>(202)  | 10.58<br>(268) | 15.67<br>(398) | 15.67<br>(398) |
| D    | 15.89<br>(403) | 16.68<br>(423) | 17.68<br>(449) | 24.66<br>(626) | 20.00<br>(508) | 20.00<br>(508) |
| E    | 2.74<br>(69)   | 2.74<br>(69)   | 7.74<br>(196)  | 5.11<br>(129)  | 6.60<br>(167)  | 6.60<br>(167)  |
| F    | 2.36<br>(59)   | 2.36<br>(59)   | 3.36<br>(85)   | 4.74<br>(120)  | 7.10<br>(180)  | 7.10<br>(180)  |
| G    | 17.39<br>(441) | 17.39<br>(441) | 18.39<br>(467) | 24.76<br>(628) | 33.75<br>(857) | 33.75<br>(857) |
| H    | 13.09<br>(332) | 13.09<br>(332) | 13.09<br>(332) | 16.55<br>(420) | 21.17<br>(538) | 21.17<br>(538) |
| J    | 2.65<br>(67)   | 2.65<br>(67)   | 2.65<br>(67)   | 3.40<br>(86)   | 12.15<br>(309) | 12.15<br>(309) |
| K    | 2.06<br>(52)   | 2.06<br>(52)   | 2.06<br>(52)   | 3.06<br>(78)   | 3.06<br>(78)   | 3.06<br>(78)   |
| L    | 3.55<br>(90)   | 3.55<br>(90)   | 3.55<br>(90)   | 3.55<br>(90)   | 2.65<br>(67)   | 2.65<br>(67)   |
| M    | 12.07<br>(306) | 12.07<br>(306) | 13.07<br>(331) | 16.82<br>(427) | 21.00<br>(533) | 21.00<br>(533) |



## The Siemens advantage...

Siemens history of innovation and safety continues with our line of UL 1449 4th Edition SPD's. The TPS Series utilizes thermally protected MOV's specifically designed for safe operation in high fault current or sustained overvoltage conditions that can cause other SPD's to fail in an unsafe manner and damage other equipment in the distribution system. Every MOV, including N-G, is monitored. Indicator lights for each phase provide indication of loss of protection and phase loss protection. The direct bus, integral design reduces circuit impedance resulting in the lowest possible let-through voltages providing maximum protection to facility equipment and systems.

### All TPS Series SPD's:

- UL 1449 4th Edition Listed, CUL, CE Mark
- Designed, tested, manufactured to ANSI/IEEE C62.42.1 – 2002, C62.41.2 – 2002, C62.45 – 2002
- Provide indication of loss of protection on each phase and phase loss
- Include all UL-required over current protection and safety coordination inside
- Prevent internally generated surges from propagating throughout a facility and externally generated surges from reaching sensitive loads

### Low Exposure Applications - TPS9

- 100kA per phase
- 200kA SCCR
- 20kA nominal discharge current
- Indicator lights standard
- Individually fused, thermally protected MOV's
- Dry contacts and audible alarm optional

### Medium Exposure Applications - TPS1

- 100kA – 300kA per phase
- 200kA SCCR
- 20kA nominal discharge current
- Indicator lights, audible alarm and dry contacts standard
- Individually fused, thermally protected MOV's
- EMI/RFI filtering
- Surge counter optional

### High Exposure Applications - TPS6

- 400kA – 500kA per phase
- 200kA SCCR
- 20kA nominal discharge current
- Indicator lights, audible alarm and dry contacts standard
- Individually fused, thermally protected MOV's
- EMI/RFI filtering
- Surge counter optional



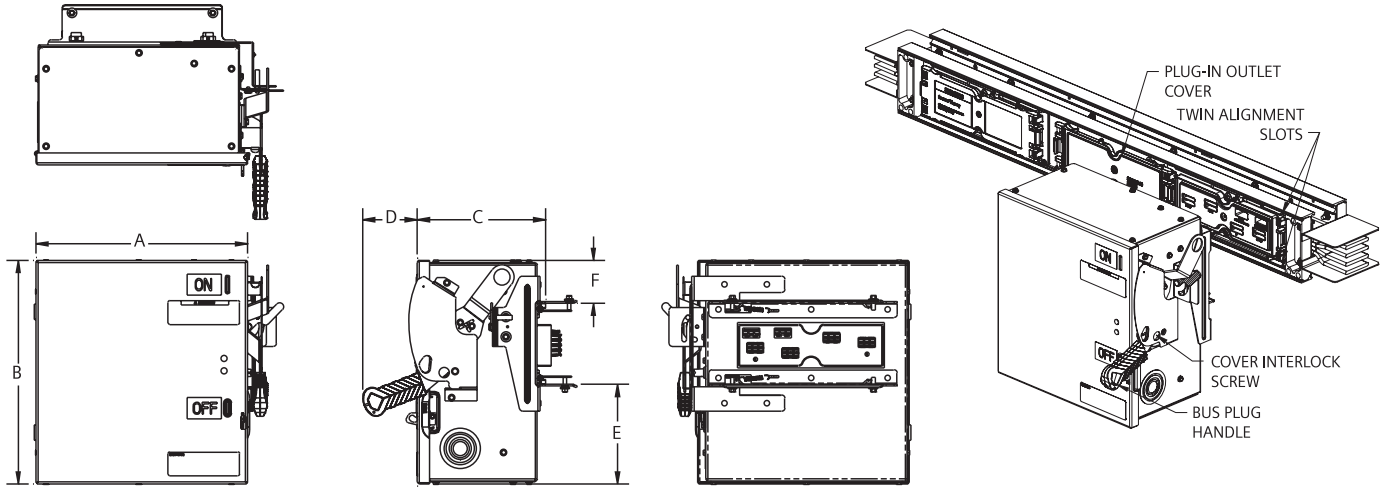
# Sentron® Bus Plugs

Sentron SPD Bus Plugs

Technical

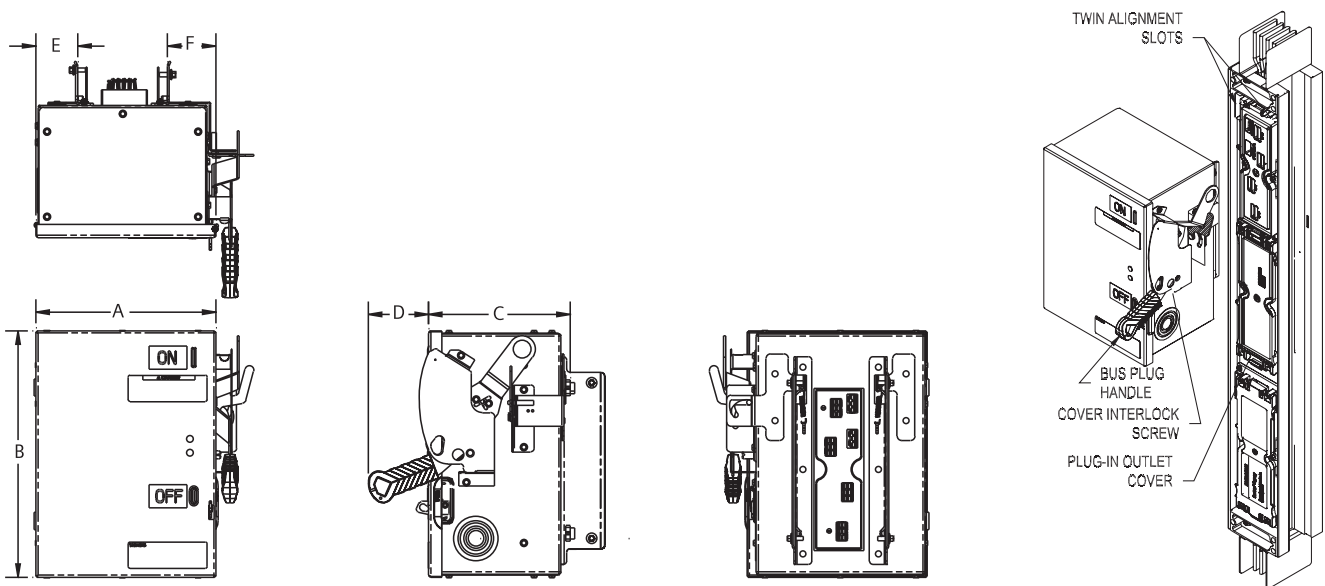
## Horizontal SPD bus plugs dimensions and weights

| Plug type | Dimensions inches (mm) |             |            |           |             |           | Weight lbs. (kgs) |
|-----------|------------------------|-------------|------------|-----------|-------------|-----------|-------------------|
|           | "A"                    | "B"         | "C"        | "D" max.  | "E"         | "F"       |                   |
| TPS 9     | 13.25 (336)            | 13.86 (352) | 7.96 (202) | 2.60 (66) | 6.18 (156)  | 2.66 (67) | 30 (13.63)        |
| TPS 1     | 13.25 (336)            | 15.86 (402) | 7.96 (202) | 2.60 (66) | 8.18 (207)  | 2.66 (67) | 35 (15.90)        |
| TPS 6     | 13.25 (336)            | 19.86 (504) | 7.96 (202) | 2.60 (66) | 12.18 (372) | 2.66 (67) | 38 (17.27)        |



## Riser SPD bus plugs dimensions and weights

| Plug type | Dimensions inches (mm) |             |             |            |            |            | Weight lbs. (kgs) |
|-----------|------------------------|-------------|-------------|------------|------------|------------|-------------------|
|           | "A"                    | "B"         | "C"         | "D" max.   | "E"        | "F"        |                   |
| TPS 9     | 10.25 (260)            | 13.86 (352) | 7.96 (202)  | 5.25 (133) | 2.74 (69)  | 2.36 (59)  | 25 (11.36)        |
| TPS 1     | 11.25 (286)            | 19.36 (492) | 7.96 (202)  | 5.25 (133) | 7.74 (196) | 3.36 (85)  | 35 (15.90)        |
| TPS 6     | 15.00 (381)            | 22.86 (580) | 10.58 (268) | 5.25 (133) | 5.11 (129) | 4.74 (120) | 45 (20.45)        |

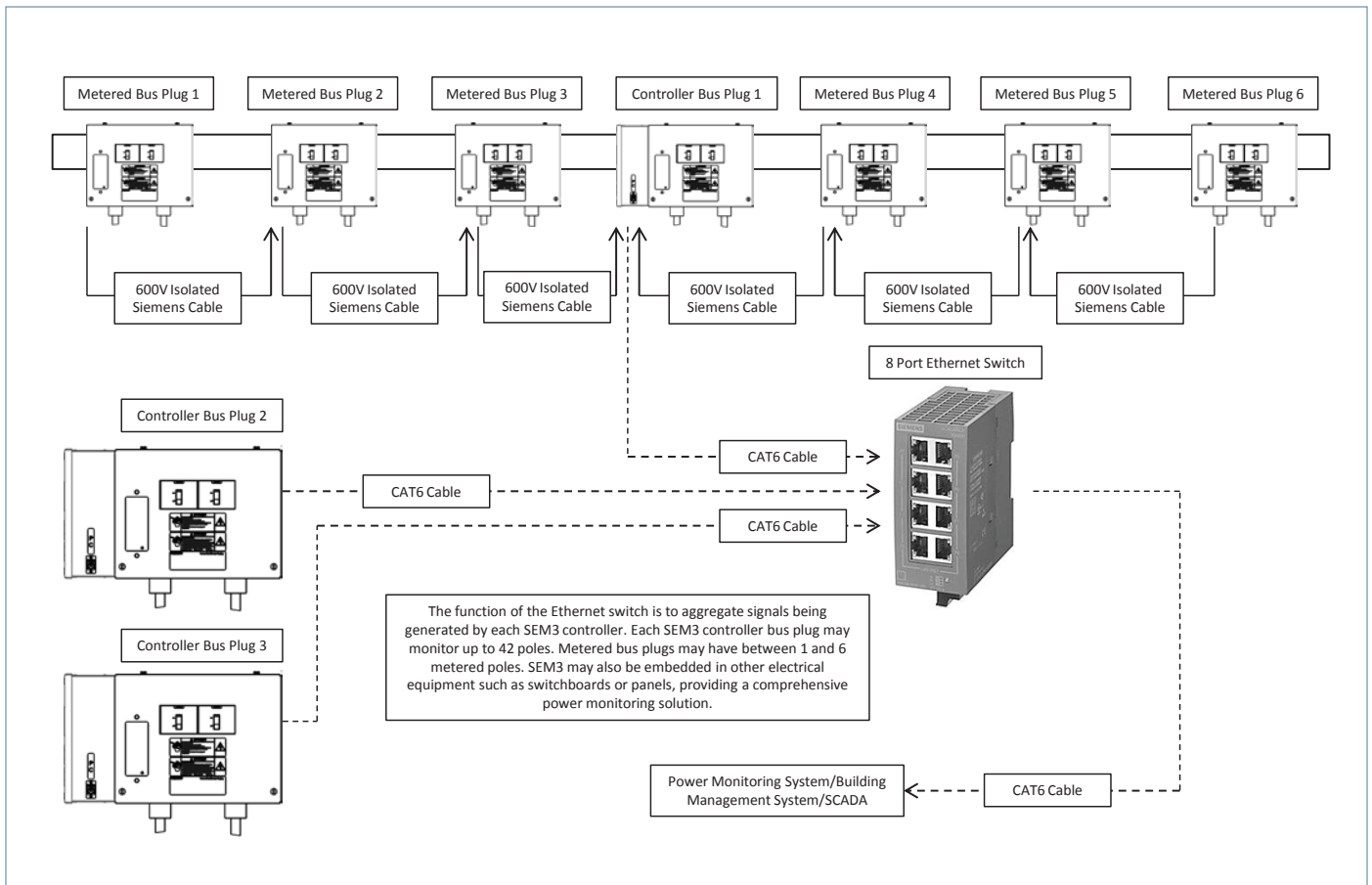


## Product Overview

The Sentron 3/6 bus plug is designed for light industrial, commercial, and datacenter applications. Factory installed receptacles range from 10 to 100A per pole, and the bus plug allows for anywhere between 1 and 6 poles of distribution (i.e. two 3Ø receptacles per plug). This product combines plug-and-play capabilities, minimizing installation time and cost, with the option for preconfigured embedded branch circuit metering utilizing SEM3™.

## Product Application

Building your metered network of Sentron 3/6 bus plugs is easy. There are two variations of metered bus plugs, simple meter plugs (child) and controller plugs (parent). Each SEM3™ controller can monitor 42 bus plug poles. Depending on the number of metered poles per bus plug in the network, one parent controller plug can monitor between 6 to 41 bus plugs. An example showing a network of seven 6-pole bus plugs is shown below (in this case there is one controller and six metered plugs). Upstream of the controller, outputs from multiple controller plugs may be consolidated at an Ethernet switch (shown below) or integrated directly into a building or site management system.



## Product Configurations

### Field Wire-able Bus Plug

- Enclosure height of 14.20"
- Customer supplied receptacle or corded connector
- Stocking program for specific variants

### Non-Metered Bus Plug

- Standard enclosure height of 10.18" at 60A (per pole) and below
- Enclosure height of 14.20" for all surface mounted receptacle variants
- Factory installed corded or surface mount receptacles/connectors

### Metered Bus Plug

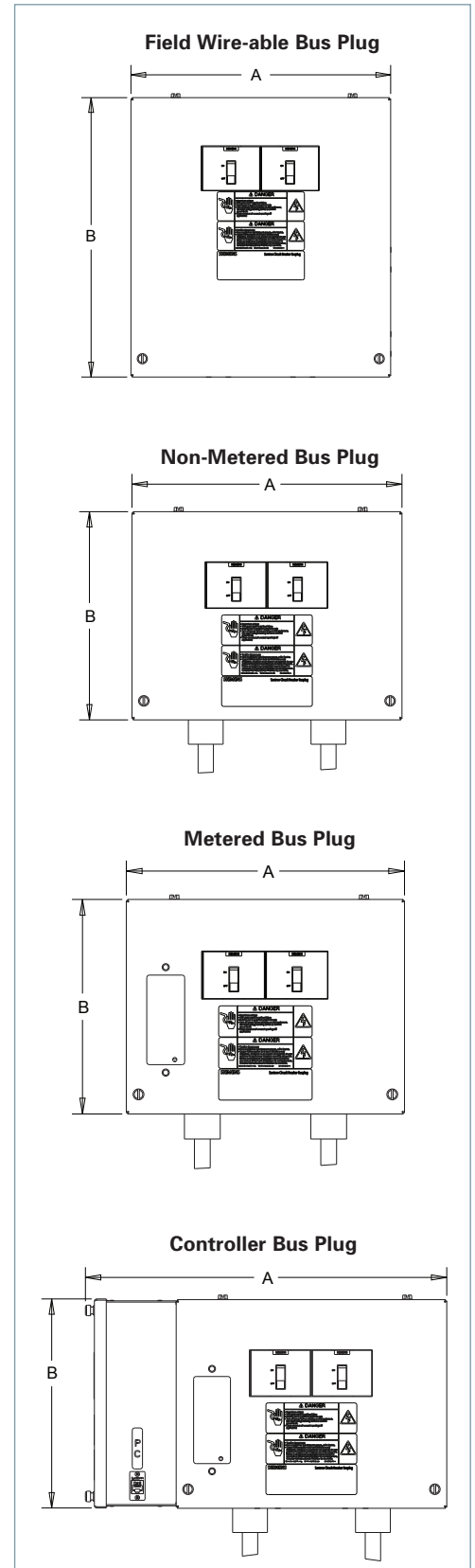
- Standard enclosure height of 10.18" at 60A (per pole) and below
- Enclosure height of 14.20" for all surface mounted receptacle variants
- Factory installed corded or surface mount receptacles/connectors
- Preconfigured SEM3 meter rack (slave)

### Controller Bus Plug

- Standard enclosure height of 10.18" at 60A (per pole) and below
- Enclosure height of 14.20" for all surface mounted receptacle variants
- Factory installed corded or surface mount receptacles/connectors
- Preconfigured SEM3 meter rack and controller (master)

## Product Configurations

|  |  |
|--|--|
| <b>Circuit</b>                         | <ul style="list-style-type: none"> <li>• 1-6 poles of distribution</li> <li>• 10-100A per pole</li> <li>• 100 and 200% neutral options</li> </ul>  |
| <b>Siemens Breaker Frames</b>          | BL, BLH, HBL, BQD, NGB, BAF, BAFH, BLE, BLHE, BLF, BLHF  |
| <b>Load Connection</b>                 | <ul style="list-style-type: none"> <li>• Field wired (with KO's), no receptacles</li> <li>• Surface or flush mount receptacles</li> <li>• Corded Connector(s) or receptacle(s) at 3, 5, 7, or 10 ft</li> </ul> |
| <b>Branch Circuit Metering (SEM3™)</b> | <ul style="list-style-type: none"> <li>• Meter only lug or meter and controller plug</li> <li>• 3 and 6 meter racks available</li> <li>• Low (1%) and high (.2%) accuracy meters available</li> </ul>          |

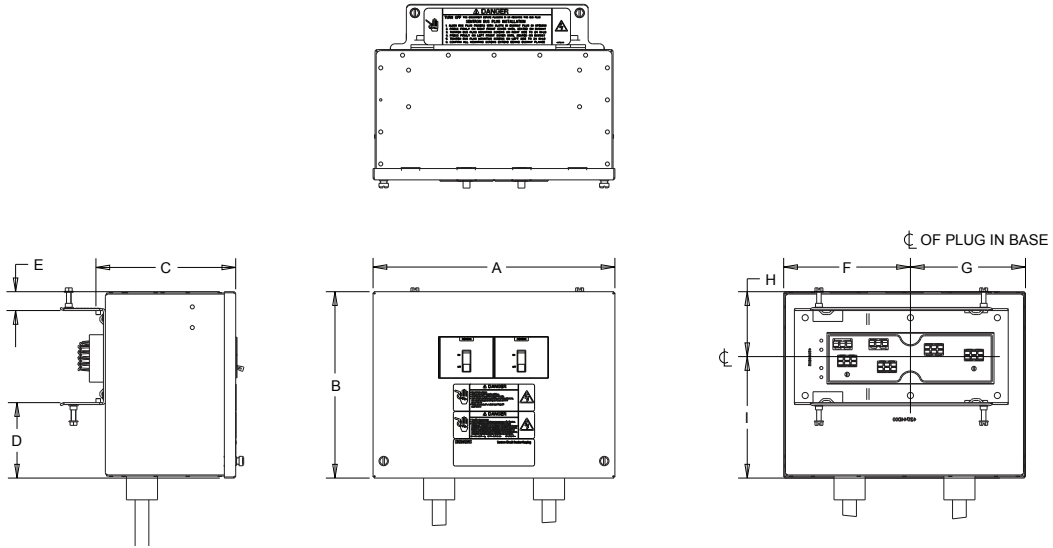




### Corded Bus Plug (Non-Metered and Metered) Dimensions and Weights

| Ampere Rating | Dimensions inches (mm) |             |            |            |           |            |            |           |             | Weight lbs. (kgs)* |
|---------------|------------------------|-------------|------------|------------|-----------|------------|------------|-----------|-------------|--------------------|
|               | "A"                    | "B"         | "C"        | "D"        | "E"       | "F"        | "G"        | "H"       | "I"         |                    |
| 10-60A        | 13.21 (336)            | 10.18 (259) | 7.64 (194) | 4.12 (105) | 1.03 (26) | 6.93 (176) | 6.29 (160) | 3.55 (90) | 6.64 (169)  | 21 (9.52)          |
| 70-100A       | 13.21 (336)            | 14.20 (361) | 7.64 (194) | 8.12 (206) | 1.03 (26) | 6.93 (176) | 6.29 (160) | 3.55 (90) | 10.64 (270) | 23 (10.43)         |

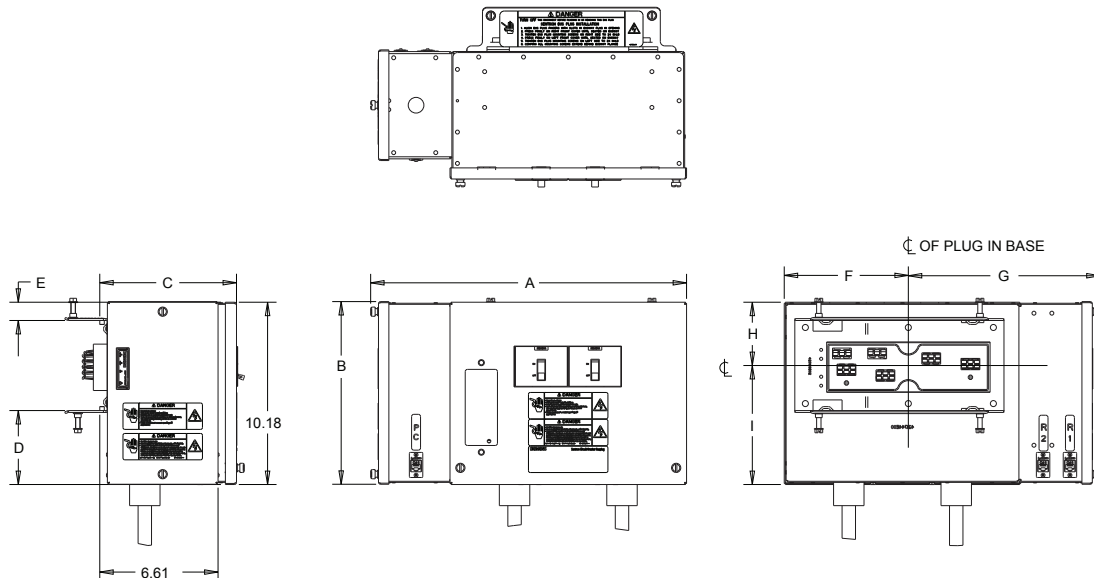
\*Approximate weight without cord of heaviest plug in amperage range.



### Corded Bus Plug (Controller) Dimensions and Weights

| Ampere Rating | Dimensions inches (mm) |             |            |            |           |            |             |           |             | Weight lbs. (kgs)* |
|---------------|------------------------|-------------|------------|------------|-----------|------------|-------------|-----------|-------------|--------------------|
|               | "A"                    | "B"         | "C"        | "D"        | "E"       | "F"        | "G"         | "H"       | "I"         |                    |
| 10-60A        | 17.64 (448)            | 10.20 (259) | 7.64 (194) | 4.12 (105) | 1.03 (26) | 6.93 (176) | 10.71 (272) | 3.55 (90) | 6.64 (169)  | 29 (13.15)         |
| 70-100A       | 17.64 (448)            | 14.20 (361) | 7.64 (194) | 8.12 (206) | 1.03 (26) | 6.93 (176) | 10.71 (272) | 3.55 (90) | 10.64 (270) | 31 (14.06)         |

\*Approximate weight without cord of heaviest plug in amperage range.



# Sentron® Bus Plugs

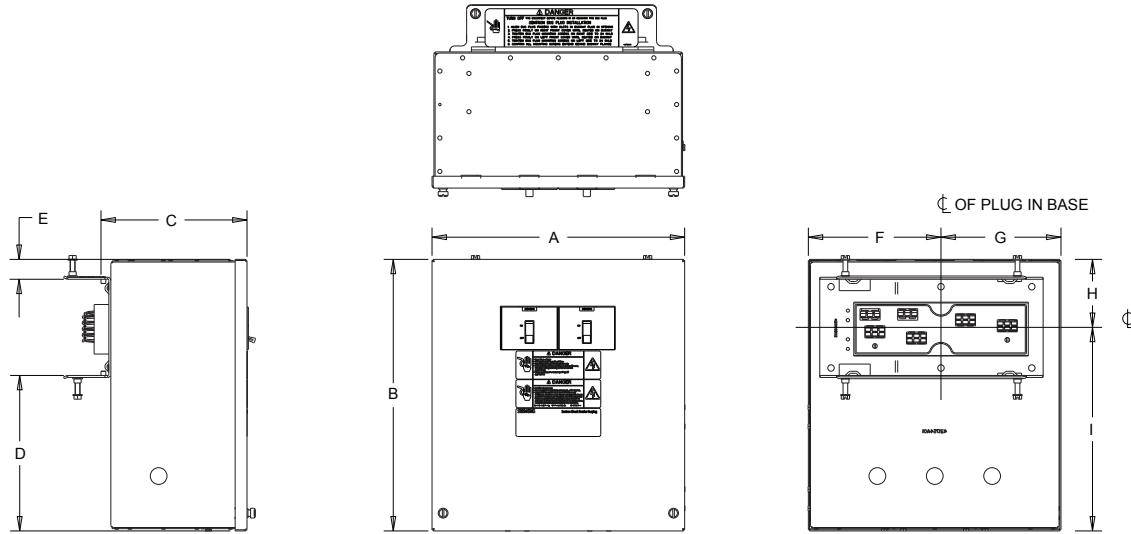
## Sentron 3/6 Bus Plugs

Technical

### Surface Mount Receptacle Bus Plug (Non-Metered and Metered) Dimensions and Weights

| Ampere Rating | Dimensions inches (mm) |             |            |            |           |            |            |           |             | Weight lbs. (kgs)* |
|---------------|------------------------|-------------|------------|------------|-----------|------------|------------|-----------|-------------|--------------------|
|               | "A"                    | "B"         | "C"        | "D"        | "E"       | "F"        | "G"        | "H"       | "I"         |                    |
| 10-100A       | 13.21 (336)            | 14.20 (361) | 7.64 (194) | 8.12 (206) | 1.03 (26) | 6.93 (176) | 6.29 (160) | 3.55 (90) | 10.64 (270) | 23 (10.43)         |

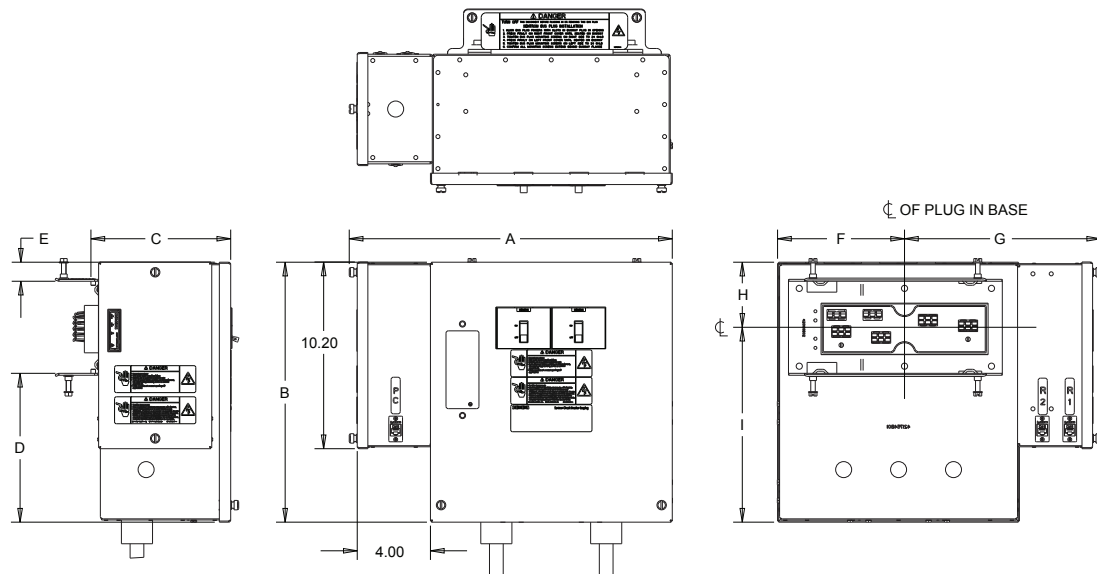
\*Approximate weight without cord of heaviest plug in amperage range.



### Surface Mount Receptacle Bus Plug (Controller) Dimensions and Weights

| Ampere Rating | Dimensions inches (mm) |             |            |            |           |            |             |           |             | Weight lbs. (kgs)* |
|---------------|------------------------|-------------|------------|------------|-----------|------------|-------------|-----------|-------------|--------------------|
|               | "A"                    | "B"         | "C"        | "D"        | "E"       | "F"        | "G"         | "H"       | "I"         |                    |
| 10-100A       | 17.64 (448)            | 14.20 (361) | 7.64 (194) | 8.12 (206) | 1.03 (26) | 6.93 (176) | 10.71 (272) | 3.55 (90) | 10.64 (270) | 33 (14.97)         |

\*Approximate weight without cord of heaviest plug in amperage range.



## Sentron Busway for Global Power Distribution Applications

Building on a solid foundation of advanced products for the construction industry, the Siemens Sentron name is recognized worldwide as synonymous with quality and consistent performance. Sentron Busway delivers impressive features and benefits that make it ideal for many types of industrial and construction implementations.

Engineered to ensure the safe and efficient distribution of power in industrial, commercial and institutional environments world-wide, Sentron ampacities range from 225A to 5000A UL. Thanks to an innovative design, you benefit from labor-saving installation and a flexible, compact bus system that is an ideal fit for most applications. In fact, Sentron Busway is one of the industry's least labor-intensive systems.

Sentron Busway installs with minimal hardware and often costs less than cable and conduit installations. The lightweight aluminum housing acts as an integral ground, joint stacks connect with splice plates featuring a single-bolt design, and bus plugs and cable tap boxes offer the industry's largest wire bending space. An optional 200% neutral within the bus bar housing accommodates harmonics common in today's power systems.

Sentron Busway conductors are insulated with a state-of-the-art epoxy insulation system, which is applied using an electrostatic spray process for optimal insulation integrity.

Exemplifying the spirit of continuing innovation, Sentron Busway is now available with economical and convenient elbow stacks for changing left, right, up or down directions at 90 degrees.

And, of course, Sentron Busway is certified to design standards worldwide, including UL, NEMA, IEC, CSA, VDE and BS.

Siemens Busway Business uses industry leading technology in all its manufacturing processes. From bus bar fabrication to Electrostatic Spray Epoxy insulation, all the processes used in the manufacturing of Siemens Sentron Busway are electronically controlled to provide for consistent, high quality results, making Sentron Busway products best in its class.

### Housing

Sentron Busway incorporates an all aluminum housing. This lightweight totally enclosed, non-ventilated housing resists rust and other elements, distributes heat away from the conductors, and provides an excellent ground path. The totally enclosed design also eliminates the need for derating of the system regardless of installation orientation. The housing is covered with an electrostatically applied light gray ANSI 61 polyester urethane powder paint that is scratch resistant and has a 1,000-hour salt spray resistance rating.

### Conductors

Sentron Busway conductors have a compact construction and can be configured as 3-phase 3-wire, 3-phase 4-wire or 3-phase 4-wire with 200% neutral. The conductors may be ordered in copper (98% conductivity), 1000A/in<sup>2</sup> M-Rated Copper, Aluminum (58% conductivity) and 750A/in<sup>2</sup> L-Rated Aluminum. The optional 200% neutral helps to handle harmonic conditions that may exist. This system is especially useful with discharge lighting (fluorescent) and computer installations. This will help to minimize overheating and prolong the life cycle of your power distribution equipment.

### Ground

Sentron Busway offers ground options to meet your specifications: standard integral aluminum housing ground and optional internal grounding bars. An optional isolated ground is also available which is especially useful in applications where a clean ground is needed (such as hospitals or high tech).

### Plating

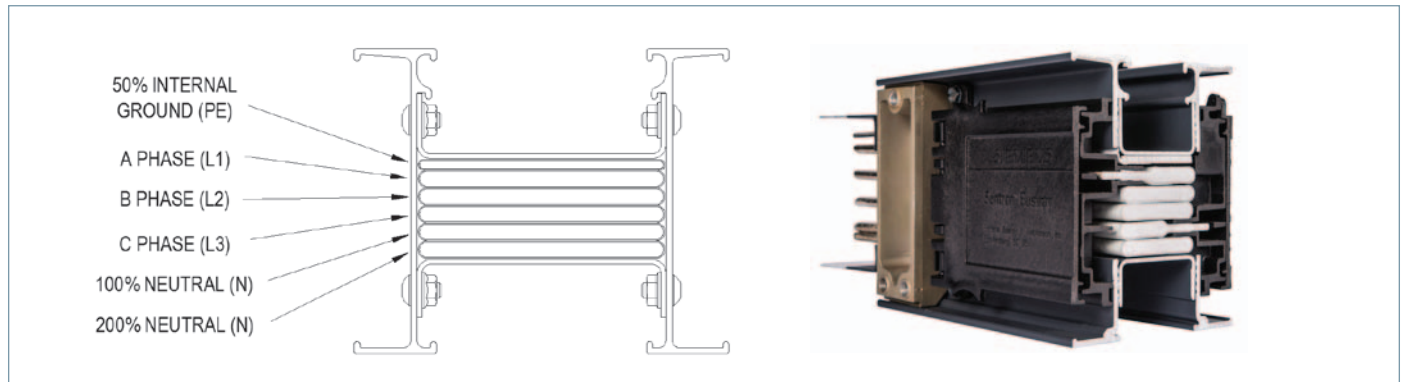
All bus bars are electroplated with tin. This unique tin plating provides excellent conductivity and prevents impurities from attaching to the bars. Optional silver plating is also available.

### Insulation

Sentron Busway is insulated with an Epoxy Powder Coating system designed by Siemens Engineers, Epoxy System Engineers and Epoxy Powder Specialists, specifically for Siemens Busway products.

The Siemens exclusive Electrostatic Spray insulation process produces uniform application of Epoxy powder over the entire conductor bar. This is further enhanced by the inline filter process and magnetic separator that helps to eliminate contaminants common to fluidized bed systems. The electrostatic application also provides a better coating consistency than that of the older fluidized bed process. The combination of electrostatic spray and lower oven temperatures produces a consistent coverage with fewer impurities and pinholes in the insulation. The lower oven temperatures reduce the risk of bar annealing, which affects the overall quality of the system.

Sentron Busway insulation is Class B, 130°C Rated. Every bus bar and completed assembly is dielectric tested to ensure the insulation is free of defects.



# Sentron® Busway Systems – Reference Information

## Joint Stack

Each Sentron Busway piece is shipped with a joint stack and joint covers installed at one end of the busway and a shipping end protector at the other end. The joint stacks feature a single bolt design and a special, torque indicating, double headed break-off bolt. This eliminates the need for torque wrenches and assures proper torque at installation of 50 ft.-lbs.(68 N-m).

When the proper torque value is achieved, the top bolt head will shear off. Each joint stack allows for +/- .625 inches (15.8mm) adjustability at each joint. Over adjustment is prevented by the joint covers, which will only allow a .625 inch (15.8mm) adjustment when the knockouts on the joint cover are removed.

It is possible to remove any joint connection assembly to allow electrical isolation or removal of a busway length without disturbing adjacent busway lengths. Isolation joint stacks are available and used to electrically isolate a busway section(s) within a busway run. For easy visual identification, isolation joint stack assemblies are painted white.

## Plug-in Opening

Sentron Busway offers plug-in style busway which feature plug-in openings rated for finger safety to IP2X in accordance with IEC 529 and BS EN 60439-1, -2 and BS EN 60529.

Each plug-in opening has a reversible hinged dead front designed to protect the contact surfaces from dirt, dust or moisture. Gasketing is used where applications require a splash proof (IP55) rating.

## IP Ratings

Sentron Busway is available in a variety of IP ratings. Use the chart below to determine the IP rating that best fits your application needs.

## Testing

Each piece of Sentron Busway is factory tested before shipping. Tests performed include dielectric tests, which are used to insure integrity of insulation. In addition, Sentron Busway is tested in accordance with both UL and IEC standards. All Sentron Busway is manufactured and inspected in an ISO 9001:2000 registered facility.

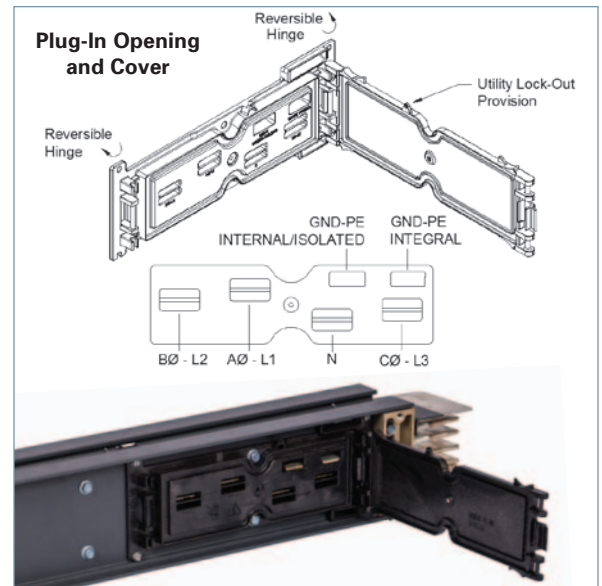
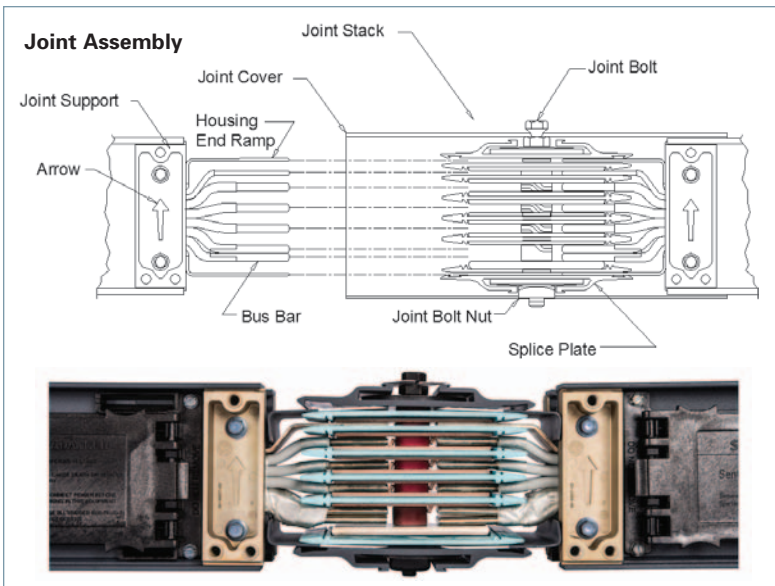
## Standards

All Sentron Busway products meet the following standards:

- UL 857
- NEMA BU1
- CSA C22.2
- IEC 60529 (2004)
- BS EN 60529
- BS EN 60439-1, 60439-2
- UL 1479
- DIN 4102 Parts 9&12
- BS 6387 Parts 11.1 and 11.2

## Labor Savings

Using Sentron Busway instead of cable and conduit can create savings of up to 20 - 30% on total installed costs. Sentron busway is lightweight, compact and takes half the time to install as cable and conduit. Siemens Busway Systems Cable Conversion Program will show you side by side comparisons of busway vs. cable/conduit. For more information, visit our web site at [www.sea.siemens.com](http://www.sea.siemens.com).



## Levels of Protection Description

| Code    | Description   | Sentron Busway |         |                   |
|---------|---|----------------|---------|-------------------|
|         |   | Feeder         | Plug-In | Sentron Bus Plugs |
| IP 2X   | Plug-In outlet protects against access to live parts by .472 in. (12 mm) test probe, even with cover opened. <b>Finger Safe</b> | •              | •       | •                 |
| IP 40   | Enclosure protects against entry of .039 in. (1.0 mm) test probe. <b>Indoor</b> (Typical UL Designation)                        | •              | •       | •                 |
| IP 55   | Enclosure protects against entry of dust and water jets. <b>Splash Proof</b>  | •              | •       | •                 |
| IP 66   | Enclosure is dust tight and protects against powerful water jets. <b>Outdoor</b> (International Only)                           | •              |         |                   |
| NEMA 3R | Enclosure protects against rain, sleet and damage from ice formation. <b>Outdoor</b>  | •              |         |                   |

# Sentron® Busway Systems – Reference Information

## Sentron Bus Plug Overview

Overview

SENTRON Bus Plugs are engineered with the installer and end user in mind. The installer will benefit from the numerous features, such as factory installed circuit breakers, compact footprint, generous wirebend space, and dual interlocks. The end user will appreciate the visible position indicator, as well as the spring loaded pad lockable latch which prevents access to unauthorized personnel.

SENTRON Bus Plugs are designed with an interlock device to prevent the door from being opened when the disconnect is on. This also prevents the disconnect from being turned on while the door is open. The interlock ensures that the protective device is "OFF" prior to installation or removal of the bus plug. Once the bus plug is properly installed, a spring-loaded, padlock latch provides additional security by preventing unauthorized access to the unit.

Alignment and interlock stabs are features of the Sentron Bus Plugs engineered to prevent improper

installation of the unit. Guide stabs prevent installing the bus plug 180 degrees out of rotation. In addition, the stabs provide vertical support for vertical applications. The bus plug ground stabs are designed to ensure positive contact with both the integral and optional internal busway grounds before the bus plug fingers contact the phase and neutral bars. Sentron Bus Plugs also feature bolt-on mounting to the busway housing for secure attachment.

Sentron Bus Plugs can be configured for horizontal or vertical applications. The following Bus Plugs can be mounted (side by side) five (5) per busway side channel (Total 10 per 10' Section).

- 30-600 SLVBH Fusible (Horizontal)<sup>Ⓞ</sup>
- 30-200 SLVBR Fusible (Riser)<sup>Ⓞ</sup>
- 30-400 Circuit Breaker<sup>Ⓞ</sup>

Sentron SLVB Fusible Bus Plugs feature a direct drive mechanism. The operating handle mounts directly to the switch mechanism for fewer moving parts.

Enclosure Ratings:

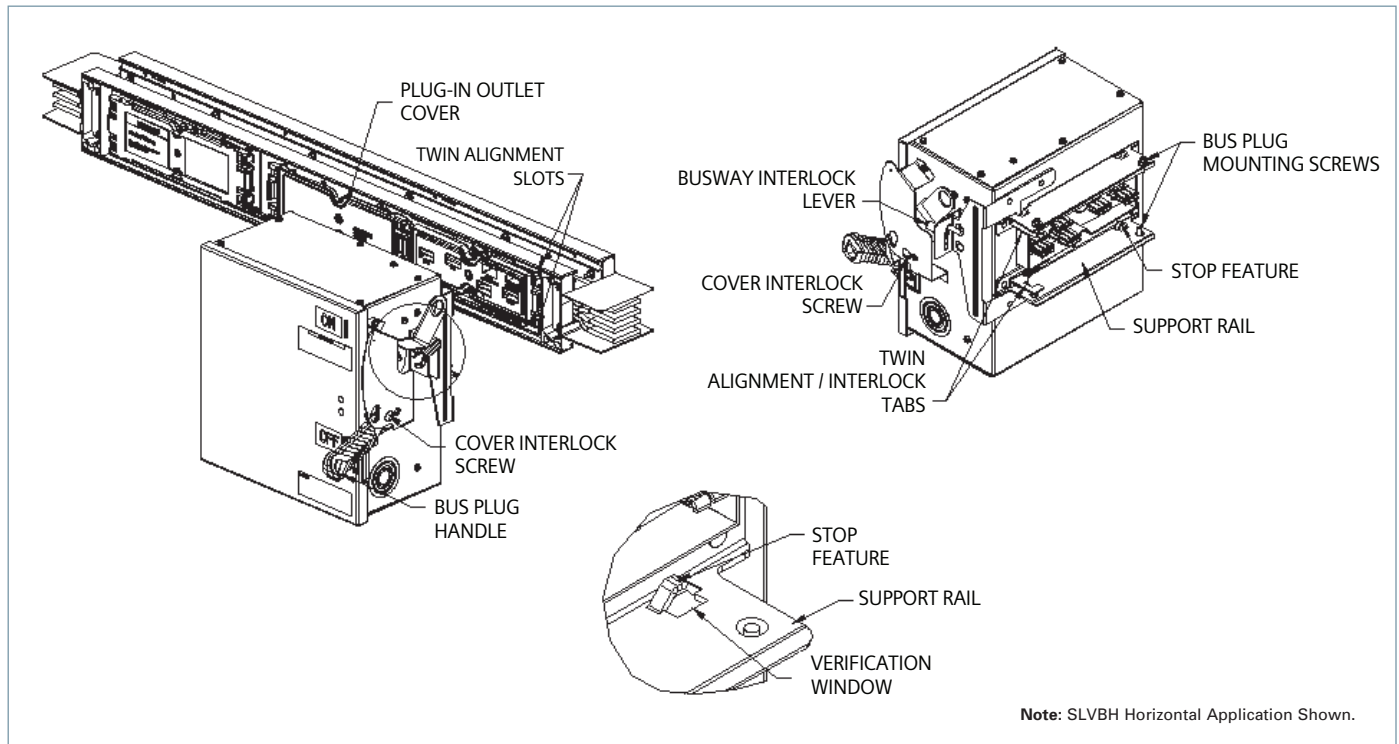
- IP40
- IP55

Conductors:

- 3-phase, 3-wire
- 3-phase, 4-wire
- 3-phase, 4-wire 200% neutral (400A and below)

Grounding:

- Integral (Housing)
- Internal
- Isolated



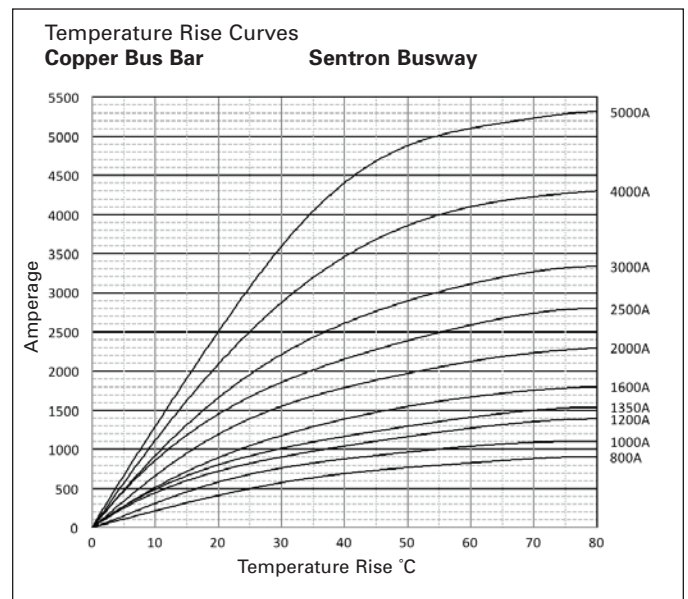
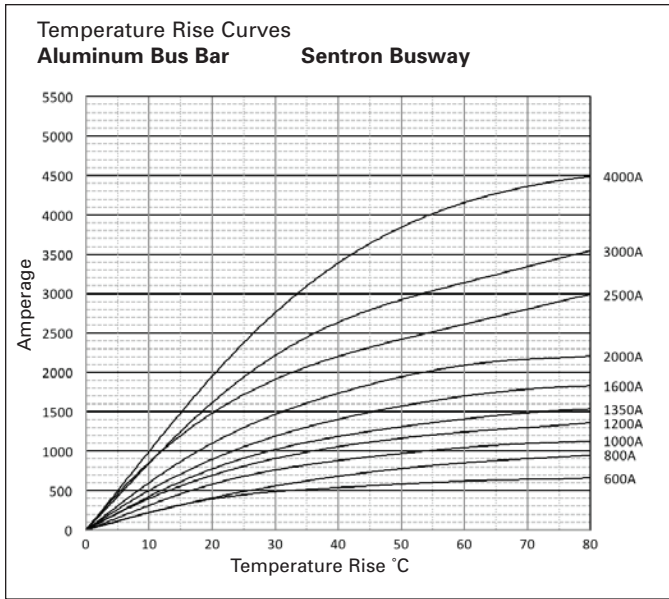
<sup>Ⓞ</sup> Contact Siemens for 200% Neutral Applications.



# Sentron® Busway Systems – Reference Information

Technical Data

Technical



BUSWAY SYSTEMS 15

## R, X, Z and Ohms, Voltage Drop

| Ampere Rating                 | Bus Bar Width<br>x 0.25 in.<br>(6.4mm) Thick | Ohms x 10 <sup>-3</sup> per 100 feet |      |      | Voltage Drop - Concentrated Loads, Line-to-Line per 100 feet at 100%<br>Rated Load, 35°C Ambient <sup>①③⑦</sup> |      |      |      |      |      |      |      |
|-------------------------------|--|--------------------------------------|------|------|---|------|------|------|------|------|------|------|
|                               |  | Line to Neutral<br>R                 | X    | Z    | Power Factor<br>0.3   | 0.4  | 0.5  | 0.6  | 0.7  | 0.8  | 0.9  | 1.0  |
| <b>AL L-Rated<sup>③</sup></b> |  |                                      |      |      |   |      |      |      |      |      |      |      |
| 225 —                         | 1.75 (44.5)                                  | 3.94                                 | 1.13 | 4.10 | 0.88  | 1.02 | 1.15 | 1.27 | 1.39 | 1.49 | 1.57 | 1.54 |
| 400 —                         | 1.75 (44.5)                                  | 4.08                                 | 1.23 | 4.26 | 1.66  | 1.91 | 2.15 | 2.38 | 2.58 | 2.77 | 2.91 | 2.83 |
| 600 —                         | 1.75 (44.5)                                  | 4.26                                 | 1.32 | 4.46 | 2.64  | 3.03 | 3.40 | 3.75 | 4.08 | 4.37 | 4.58 | 4.43 |
| 800 400                       | 2.38 (60.5)                                  | 3.42                                 | 1.06 | 3.58 | 2.82  | 3.24 | 3.64 | 4.02 | 4.36 | 4.67 | 4.90 | 4.74 |
| 1000 600                      | 3.25 (82.6)                                  | 2.45                                 | 0.74 | 2.56 | 2.50  | 2.88 | 3.24 | 3.57 | 3.89 | 4.17 | 4.38 | 4.24 |
| 1200 800                      | 4.38 (111.3)                                 | 1.86                                 | 0.59 | 1.95 | 2.32  | 2.66 | 2.99 | 3.29 | 3.58 | 3.82 | 4.01 | 3.87 |
| 1350 1000                     | 5.38 (138.7)                                 | 1.39                                 | 0.24 | 1.41 | 1.50  | 1.81 | 2.10 | 2.39 | 2.67 | 2.93 | 3.17 | 3.25 |
| 1600 1200                     | 6.50 (165.1)                                 | 1.21                                 | 0.48 | 1.29 | 2.19  | 2.48 | 2.75 | 3.00 | 3.23 | 3.43 | 3.56 | 3.35 |
| 2000 1350,1600                | 8.75 (222.3)                                 | 0.91                                 | 0.35 | 0.98 | 2.11  | 2.38 | 2.64 | 2.87 | 3.08 | 3.26 | 3.37 | 3.16 |
| 2500 2000                     | (2) 5.63 (143.0)                             | 0.68                                 | 0.29 | 0.74 | 2.09  | 2.34 | 2.57 | 2.78 | 2.97 | 3.12 | 3.21 | 2.95 |
| 3000 2500                     | (2) 6.75 (171.5)                             | 0.54                                 | 0.28 | 0.61 | 2.24  | 2.47 | 2.67 | 2.85 | 3.01 | 3.12 | 3.16 | 2.80 |
| 3200 2000                     | (2) 7.50 (190.5)                             | 0.48                                 | 0.33 | 0.58 | 2.53  | 2.73 | 2.91 | 3.06 | 3.17 | 3.23 | 3.20 | 2.68 |
| 4000 3000,3200                | (2) 9.00 (228.6)                             | 0.62                                 | 0.21 | 0.51 | 2.34  | 2.61 | 2.85 | 3.08 | 3.27 | 3.43 | 3.51 | 3.20 |
| <b>CU M-Rated<sup>③</sup></b> |  |                                      |      |      |   |      |      |      |      |      |      |      |
| 225 —                         | 1.75 (44.5)                                  | 2.34                                 | 1.13 | 2.60 | 0.69  | 0.77 | 0.84 | 0.90 | 0.95 | 0.99 | 1.01 | 0.91 |
| 400 —                         | 1.75 (44.5)                                  | 2.44                                 | 1.13 | 2.69 | 1.26  | 1.40 | 1.52 | 1.64 | 1.74 | 1.82 | 1.86 | 1.69 |
| 600 —                         | 1.75 (44.5)                                  | 2.58                                 | 1.16 | 2.83 | 1.96  | 2.18 | 2.39 | 2.58 | 2.74 | 2.87 | 2.94 | 2.68 |
| 800 400                       | 1.75 (44.5)                                  | 2.71                                 | 1.17 | 2.95 | 2.67  | 2.98 | 3.28 | 3.55 | 3.78 | 3.97 | 4.08 | 3.76 |
| 1000 —                        | 2.25 (67.2)                                  | 2.12                                 | 0.98 | 2.30 | 2.58  | 2.88 | 3.17 | 3.44 | 3.67 | 3.86 | 3.98 | 3.67 |
| 1200 600                      | 2.88 (73.2)                                  | 1.66                                 | 0.77 | 1.83 | 2.56  | 2.85 | 3.11 | 3.35 | 3.56 | 3.72 | 3.80 | 3.45 |
| 1350 800                      | 3.50 (88.9)                                  | 1.30                                 | 0.64 | 1.45 | 2.34  | 2.59 | 2.82 | 3.03 | 3.20 | 3.33 | 3.39 | 3.04 |
| 1600 1000                     | 4.50 (114.3)                                 | 1.06                                 | 0.56 | 1.20 | 2.37  | 2.60 | 2.66 | 3.01 | 3.17 | 3.29 | 3.32 | 2.94 |
| 2000 1200,1350                | 6.00 (152.4)                                 | 0.77                                 | 0.44 | 0.89 | 2.27  | 2.48 | 2.50 | 2.83 | 2.96 | 3.05 | 3.07 | 2.66 |
| — 1600                        | —  | —                                    | —    | —    | —   | —    | —    | —    | —    | —    | —    | —    |
| 2500 2000                     | 8.50 (215.9)                                 | 0.55                                 | 0.35 | 0.65 | 2.15  | 2.34 | 2.50 | 2.64 | 2.75 | 2.82 | 2.81 | 2.39 |
| 3000 —                        | (2) 4.75 (120.7)                             | 0.49                                 | 0.27 | 0.56 | 2.07  | 2.28 | 2.46 | 2.62 | 2.76 | 2.86 | 2.89 | 2.54 |
| 3200 —                        | (2) 5.50 (139.7)                             | 0.44                                 | 0.30 | 0.53 | 2.33  | 2.51 | 2.67 | 2.80 | 2.90 | 2.96 | 2.93 | 2.44 |
| 4000 2500,3000,3200           | (2) 6.50 (165.1)                             | 0.36                                 | 0.15 | 0.39 | 1.76  | 1.97 | 2.17 | 2.35 | 2.51 | 2.63 | 2.71 | 2.49 |
| 5000 4000                     | (2) 8.50 (215.9)                             | 0.30                                 | 0.21 | 0.37 | 2.49  | 2.69 | 2.86 | 3.00 | 3.11 | 3.17 | 3.15 | 2.63 |

**Notes:**

- ① For plug-in distributed loads, divide voltage drop values by 2.
- ② To determine voltage drop line-to-neutral, multiply line-to-line values by 0.577.
- ③ Actual voltage drop for different lengths and at loadings less than full rated current can be calculated using the formula:  

$$V_d(\text{actual}) = V_d(\text{table}) \times \frac{\text{actual load}}{\text{rated load}} \times \frac{\text{actual length (ft)}}{100 \text{ feet}}$$
- ④ For 50 Hz, multiply reactance (X) by 0.85 and resistance values do not change. For 400 Hz, multiply reactance by 3.75 and multiply resistance by 1.4. Calculate new voltage drop:  

$$V_d = \text{amps load} \times \sqrt{3(R\cos\theta + X\sin\theta)} \text{ per } 100 \text{ ft,}$$
 where  $\cos\theta = \text{Power Factor}$ .
- ⑤ For metric conversion R, X, Z values "in Ohms per meters Line to Neutral"  
 R x .0328  
 X x .0328  
 Z x .0328
- ⑥ For metric conversion "Line to Line per meter at 25° C ambient in mV/A/m" (Vd 32.8) / A. Divide Vd by 2 for distributed loads.
- ⑦ Voltage Drop will decrease in lower ambient temperature. Contact Siemens for Voltage Drop in other ambient conditions.



# Sentron® Busway Systems – Reference Information

Technical Data

Technical

## Ground Capacity

| Ampere Rating              | Bus Bar Width Inches (mm) | Bars per Pole | Min. CSA for Ground Bus per UL 857 Table 14 In2 (mm2) | Sectional Area 50% Internal Ground Bar In2 (mm2) | Integral (Hsg.) Ground In2 (mm2) | Effective Current Carrying Capacity of Housing |                | Grd. Circuit Characteristics under Fault Conditions Ohms x 10 <sup>-3</sup> per 100 ft |       |        |                |        |        |  |  |
|----------------------------|---------------------------|---------------|---|--|----------------------------------|--|----------------|--|-------|--------|----------------|--------|--------|--|--|
|                            |                           |               |   |  |                                  | % of UL Req                                    | % of Phase Bar | Internal Ground  |       |        | Housing Ground |        |        |  |  |
|                            |                           |               |   |  |                                  |  |                | R  | X     | Z      | R              | X      | Z      |  |  |
| <b>A</b>   <b>L-Rated</b>  |                           |               |   |  |                                  |  |                |  |       |        |                |        |        |  |  |
| 225 —                      | 1.75 (44.5)               | 1             | 0.08 (53.5)   | 0.22 (141.1)                                     | 2.30 (1485.1)                    | 1333   | 253            | 4.872  | 9.037 | 10.267 | 5.797          | 12.963 | 14.200 |  |  |
| 400 —                      | 1.75 (44.5)               | 1             | 0.17 (107.1)  | 0.22 (141.1)                                     | 2.30 (1485.1)                    | 667  | 253            | 4.872  | 9.037 | 10.267 | 5.797          | 12.963 | 14.200 |  |  |
| 600 —                      | 1.75 (44.5)               | 1             | 0.17 (107.1)  | 0.22 (141.1)                                     | 2.30 (1485.1)                    | 667  | 253            | 4.872  | 9.037 | 10.267 | 5.797          | 12.963 | 14.200 |  |  |
| 800 400                    | 2.38 (60.5)               | 1             | 0.17 (107.1)  | 0.30 (191.9)                                     | 2.40 (1550.1)                    | 688  | 192            | 3.351  | 7.333 | 8.063  | 4.932          | 10.000 | 11.150 |  |  |
| 1000 600                   | 3.25 (82.6)               | 1             | 0.20 (126.5)  | 0.41 (262.1)                                     | 2.54 (1639.9)                    | 607  | 147            | 2.833  | 6.628 | 7.208  | 3.662          | 8.442  | 9.202  |  |  |
| 1200 800                   | 4.38 (111.1)              | 1             | 0.23 (146.5)  | 0.55 (352.8)                                     | 2.72 (1756.6)                    | 552  | 115            | 2.487  | 5.852 | 6.358  | 3.189          | 6.926  | 7.625  |  |  |
| 1350 1000                  | 5.38 (136.5)              | 1             | 0.29 (189.7)  | 0.67 (433.5)                                     | 2.88 (1859.8)                    | 446  | 94             | 2.182  | 5.115 | 5.561  | 2.713          | 5.883  | 6.478  |  |  |
| 1600 1200                  | 6.50 (165.1)              | 1             | 0.29 (189.7)  | 0.81 (524.2)                                     | 3.06 (1975.4)                    | 467  | 84             | 1.801  | 4.489 | 4.837  | 2.289          | 5.206  | 5.687  |  |  |
| 2000 1350,1600             | 8.75 (222.3)              | 1             | 0.35 (227.7)  | 1.09 (705.6)                                     | 3.42 (2207.7)                    | 425  | 69             | 1.390  | 3.467 | 3.735  | 1.623          | 4.267  | 4.565  |  |  |
| 2500 2000                  | 5.63 (142.9)              | 2             | 0.52 (332.3)  | 1.41 (907.3)                                     | 3.85 (2480.7)                    | 320  | 59             | 1.145  | 2.955 | 3.169  | 1.526          | 3.837  | 4.129  |  |  |
| 3000 2500                  | 6.75 (171.5)              | 2             | 0.59 (380.0)  | 1.69 (1088.7)                                    | 4.20 (2711.9)                    | 301  | 53             | 0.954  | 2.683 | 2.848  | 1.221          | 3.635  | 3.835  |  |  |
| 3200 2000                  | 7.50 (190.5)              | 2             | 0.81 (522.6)  | 1.88 (1209.7)                                    | 4.44 (2866.8)                    | 229  | 51             | 0.894  | 2.493 | 2.648  | 1.144          | 3.428  | 3.614  |  |  |
| 4000 3000,3200             | 9.00 (228.6)              | 2             | 0.81 (522.6)  | 2.25 (1451.6)                                    | 4.92 (3176.5)                    | 250  | 50             | 0.715  | 2.339 | 2.446  | 0.916          | 3.378  | 3.500  |  |  |
| <b>CU</b>   <b>M-Rated</b> |                           |               |   |  |                                  |  |                |  |       |        |                |        |        |  |  |
| 225 —                      | 1.75 (44.5)               | 1             | 0.05 (33.5)   | 0.22 (141.1)                                     | 2.30 (1485.1)                    | 2128   | 261            | 3.803  | 6.330 | 7.380  | 5.183          | 10.083 | 11.338 |  |  |
| 400 —                      | 1.75 (44.5)               | 1             | 0.11 (67.7)   | 0.22 (141.1)                                     | 2.30 (1485.1)                    | 1054   | 261            | 3.803  | 6.330 | 7.380  | 5.183          | 10.083 | 11.338 |  |  |
| 600 —                      | 1.75 (44.5)               | 1             | 0.11 (67.7)   | 0.22 (141.1)                                     | 2.30 (1485.1)                    | 1054   | 261            | 3.803  | 6.330 | 7.380  | 5.183          | 10.083 | 11.338 |  |  |
| 800 400                    | 1.75 (44.5)               | 1             | 0.11 (67.7)   | 0.22 (141.1)                                     | 2.30 (1485.1)                    | 1054   | 261            | 3.803  | 6.330 | 7.380  | 5.183          | 10.083 | 11.338 |  |  |
| 1000 —                     | 2.25 (57.2)               | 1             | 0.13 (85.2)   | 0.28 (181.5)                                     | 2.38 (1536.7)                    | 860  | 207            | 3.029  | 5.993 | 6.715  | 4.409          | 9.191  | 10.194 |  |  |
| 1200 600                   | 2.88 (73.0)               | 1             | 0.18 (114.2)  | 0.36 (231.9)                                     | 2.48 (1601.8)                    | 661  | 166            | 2.460  | 5.676 | 6.186  | 3.674          | 8.212  | 8.996  |  |  |
| 1350 800                   | 3.50 (88.9)               | 1             | 0.24 (152.3)  | 0.44 (282.3)                                     | 2.58 (1665.8)                    | 510  | 140            | 2.188  | 5.267 | 5.704  | 2.807          | 7.492  | 8.000  |  |  |
| 1600 1000                  | 4.50 (114.3)              | 1             | 0.24 (152.3)  | 0.56 (362.9)                                     | 2.74 (1769.0)                    | 534  | 113            | 1.893  | 4.323 | 4.719  | 2.756          | 6.880  | 7.411  |  |  |
| 2000 1200,1350             | 6.00 (152.4)              | 1             | 0.29 (189.7)  | 0.75 (483.9)                                     | 2.98 (1923.8)                    | 457  | 90             | 1.476  | 3.181 | 3.507  | 2.205          | 6.032  | 6.422  |  |  |
| — 1600                     | 6.50 (165.1)              | 1             | 0.29 (189.7)  | 0.81 (524.2)                                     | 3.06 (1975.4)                    | 467  | 84             | 1.801  | 4.489 | 4.837  | 2.289          | 5.206  | 5.687  |  |  |
| 2500 2000                  | 8.50 (215.9)              | 1             | 0.35 (227.7)  | 1.06 (685.5)                                     | 3.38 (2181.9)                    | 421  | 70             | 1.087  | 2.020 | 2.294  | 1.764          | 5.419  | 3.072  |  |  |
| 3000 —                     | 4.75 (120.7)              | 2             | 0.41 (265.8)  | 1.19 (766.1)                                     | 3.56 (2290.0)                    | 376  | 66             | 0.984  | 1.874 | 2.117  | 1.470          | 4.631  | 4.859  |  |  |
| 3200 —                     | 5.50 (139.7)              | 2             | 0.59 (380.0)  | 1.38 (887.1)                                     | 3.80 (2453.9)                    | 277  | 60             | 0.947  | 1.691 | 1.938  | 1.378          | 4.129  | 4.353  |  |  |
| 4000 2500,3000,3200        | 6.50 (165.1)              | 2             | 0.59 (380.0)  | 1.63 (1048.4)                                    | 4.12 (2660.3)                    | 296  | 54             | 0.773  | 1.500 | 1.688  | 1.323          | 3.060  | 3.334  |  |  |
| 5000 4000                  | 8.50 (215.9)              | 2             | 0.71 (456.1)  | 2.13 (1371.0)                                    | 4.76 (3073.2)                    | 278  | 50             | 0.606  | 1.218 | 1.360  | 0.882          | 1.783  | 1.989  |  |  |

Note: Bus bar thickness = .25 in. (6.4mm), Ground bar thickness = .125 in.(3.18mm)

| UL Short Circuit Ratings |                |                      |        | UL Series Connected with Fuse |  |             |         |
|--------------------------|----------------|----------------------|--------|-------------------------------|--|-------------|---------|
| Ampere Rating            | L-Rated        | RMS Symmetrical (kA) |        |                               | Maximum Fuse Size for 200kA RMS Symmetrical Rating |             |         |
|                          |                | 6 cycle              | 1 sec. | 3 sec.                        | Class R  | Class J & T | Class L |
| <b>AL</b>                | <b>L-Rated</b> |                      |        |                               |  |             |         |
| 225 —                    |                | 85                   | 28     | 16                            | 600  | 600 J & T   | —       |
| 400 —                    |                | 85                   | 28     | 16                            | 600  | 600 J & T   | —       |
| 600 —                    |                | 85                   | 28     | 16                            | 600  | 600 J & T   | —       |
| 800 400                  |                | 100                  | 47     | 27                            | —  | 800 T       | 1200    |
| 1000 600                 |                | 100                  | 50     | 29                            | —  | —           | 3000    |
| 1200 800                 |                | 125                  | 60     | 35                            | —  | —           | 3000    |
| 1350 1000                |                | 150                  | 75     | 43                            | —  | —           | 3000    |
| 1600 1200                |                | 150                  | 90     | 52                            | —  | —           | 3000    |
| 2000 1350,1600           |                | 150                  | 110    | 64                            | —  | —           | 5000    |
| 2500 2000                |                | 200                  | 130    | 75                            | —  | —           | 5000    |
| 3000 2500                |                | 200                  | 160    | 92                            | —  | —           | —       |
| 3200 2000                |                | 200                  | 160    | 92                            | —  | —           | —       |
| 4000 3000,3200           |                | 200                  | 200    | 115                           | —  | —           | —       |
| <b>CU</b>                | <b>M-Rated</b> |                      |        |                               |  |             |         |
| 225 —                    |                | 85                   | 40     | 23                            | 600  | 600 J & T   | —       |
| 400 —                    |                | 85                   | 40     | 23                            | 600  | 600 J & T   | —       |
| 600 —                    |                | 85                   | 40     | 23                            | 600  | 600 J & T   | —       |
| 800 400                  |                | 85                   | 40     | 23                            | —  | 800 T       | 1600    |
| 1000 —                   |                | 100                  | 50     | 29                            | —  | —           | 3000    |
| 1200 600                 |                | 100                  | 65     | 38                            | —  | —           | 3000    |
| 1350 800                 |                | 100                  | 80     | 46                            | —  | —           | 3000    |
| 1600 1000                |                | 125                  | 95     | 55                            | —  | —           | 4000    |
| 2000 1200,1350           |                | 150                  | 115    | 66                            | —  | —           | 5000    |
| — 1600                   |                | 150                  | 90     | 52                            | —  | —           | 3000    |
| 2500 2000                |                | 150                  | 130    | 75                            | —  | —           | 5000    |
| 3000 —                   |                | 200                  | 175    | 101                           | —  | —           | —       |
| 3200 —                   |                | 200                  | 175    | 101                           | —  | —           | —       |
| 4000 2500,3000,3200      |                | 200                  | 200    | 115                           | —  | —           | —       |
| 5000 4000                |                | 200                  | 200    | 115                           | —  | —           | —       |

Sentron Busway has UL approved Series Ratings. By using the appropriate line side fuse, short circuit ratings can be enhanced to 200kA for lower amperage busway.

15 BUSWAY SYSTEMS

# Sentron® Busway Systems – Reference Information

## Straight Sections – Plug-In, One-Sided Plug-In and Feeder

Selection

### Straight Sections

Sentron Busway can be ordered with Aluminum or Copper bus bars. Aluminum bars are available in 225-4000 ampere sections. Copper bars are available in 225-5000 ampere sections. Sentron Busway includes an integral housing ground, and is available with an internal ground bar or an isolated ground bar in all ampere ratings. Sentron Busway housing is a four-piece aluminum design.

### Plug-In Sections

Sentron plug-in sections are designed with plug-in openings centered on 24 in. (610mm) intervals, and are located on both sides of the busway for optimum utilization. Plug-in sections are available in standard lengths of 4 ft. (1.22m), 6 ft. (1.83m), 8 ft. (2.44m) and 10 ft. (3.05m). Sentron plug-in sections meet IP40

(indoor) and IP55 (splash proof) requirements. One joint stack assembly is provided with each plug-in section.

### One-Sided Plug-In Sections

Sentron one-sided plug-in sections are designed with plug-in openings centered on 24 in. (610mm) intervals on one side of the busway only. This eliminates unusable plug-in outlets in vertical applications. Riser busway is available in standard lengths of 4 ft. (1.22m), 6 ft. (1.83m), 8 ft. (2.44m) and 10 ft. (3.05m). Sentron Riser Busway is available in IP40 (indoor) and IP55 (splash proof). One joint stack assembly is provided with each riser section.

### Plug-In Outlet Features

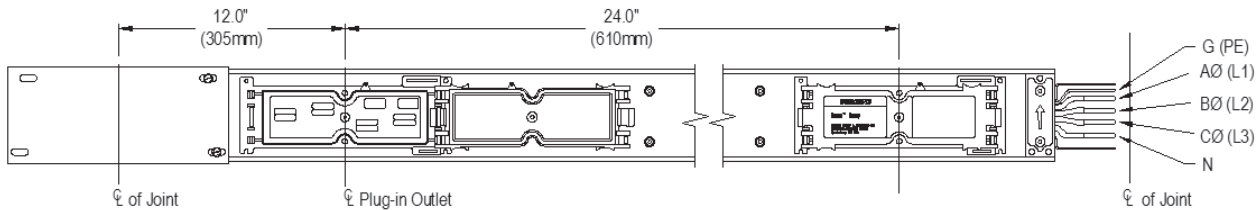
The plug-in outlet molded guard design prevents incidental finger contact with live conductors. Sentron plug-in outlets

are IP 2X rated (with the outlet cover open) which means a .472 in. (12mm) or larger probe is unable to enter a plug-in outlet. The outlet is IP40 Rated with the cover closed and IP55 Rated when configured with gaskets.

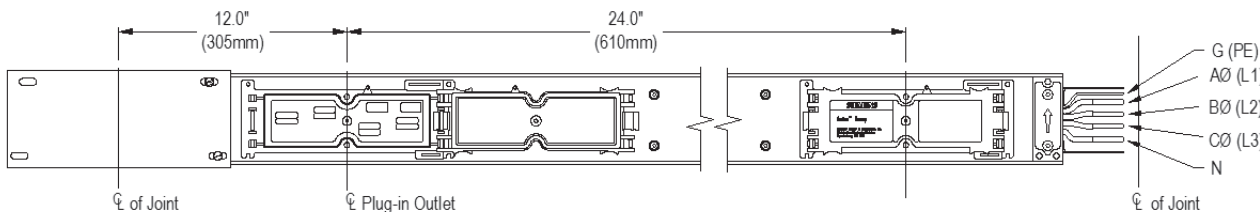
### Feeder Sections

Feeder busway carries the current of the busway system from the supply source. Feeder busway does not have plug-in outlets. Sentron Feeder busway is available in custom lengths from 2 ft. (.61m) to 10 ft. (3.05m). Feeder sections are rated as IP40 (Indoor), IP55 (Splash Proof), NEMA 3R (Outdoor), and IP66 (International Outdoor). One joint stack assembly is provided with each feeder section.

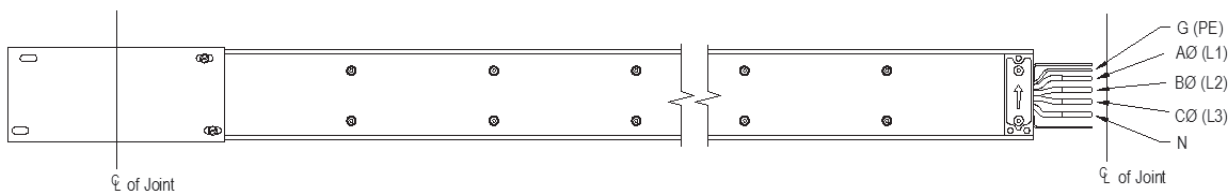
**Standard Plug-In Section (Standard plug-in outlets on both sides on 24 in. centers)**  
**Suffix PL04 (4 ft.), PL06 (6 ft.), PL08 (8 ft.), PL10 (10 ft.)**



**Standard One-Sided Plug-In Section (Standard Plug-In outlets on one side on 24 in. centers)**  
**Suffix RI04 (4 ft.), RI06 (6 ft.), RI08 (8 ft.), RI10 (10 ft.)**

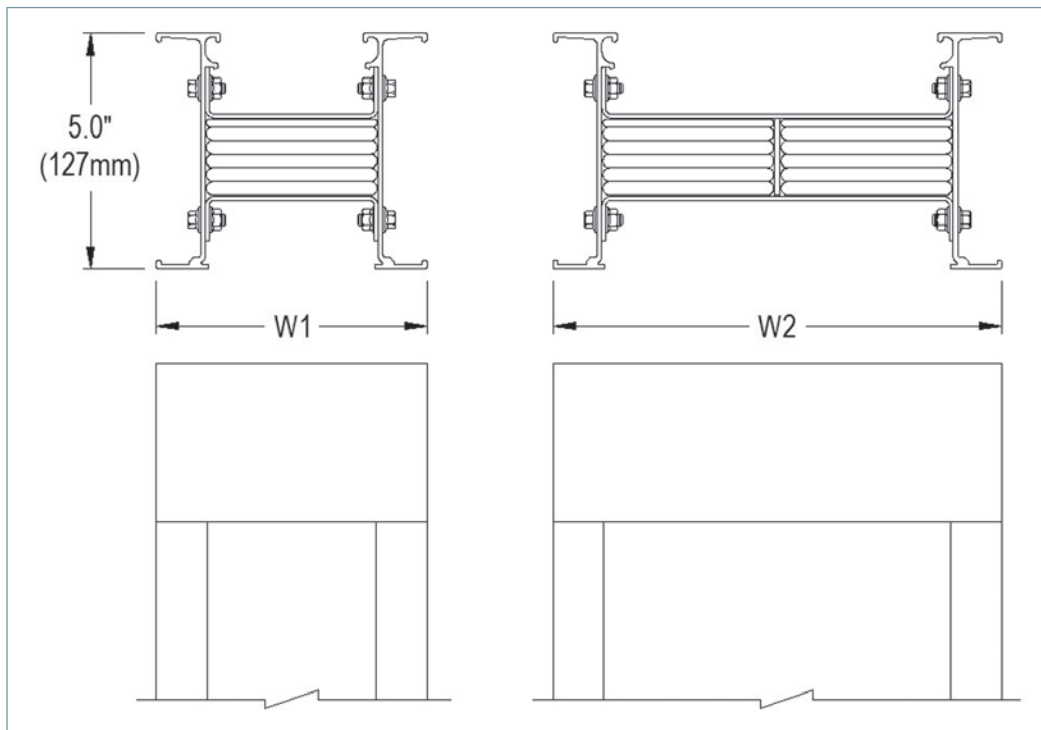


**Standard Feeder Section**  
**Suffix F024 - 120 (last 3 digits = length in Inches, 024=24 in., 120=120 in.)**



## Sentron Busway, Widths and Weights

| Ampere Rating | Dimension Inches (mm) | Approximate Weight - lbs per ft. (kg per meter) |                                 |            |                                 |                         |  |          |
|---------------|-----------------------|---|---------------------------------|------------|---------------------------------|-------------------------|--|----------|
|               |                       | 3Ø, 3-Wire                                      | 3Ø, 3-Wire with Internal Ground | 3Ø, 4-Wire | 3Ø, 4-Wire with Internal Ground | 3Ø, 4-Wire 200% Neutral | 3Ø, 4-Wire 200% Neutral with Internal Ground |          |
| <b>AL</b>     | <b>L-Rated</b>        |   |                                 |            |                                 |                         |  |          |
| 225           | —                     | "W1" 3.9 (99)                                   | 5 (8)                           | 5 (8)      | 6 (9)                           | 6 (9)                   | 7 (10)                                       | 7 (10)   |
| 400           | —                     | "W1" 3.9 (99)                                   | 5 (8)                           | 5 (8)      | 6 (9)                           | 6 (9)                   | 7 (10)                                       | 7 (10)   |
| 600           | —                     | "W1" 3.9 (99)                                   | 5 (8)                           | 5 (8)      | 6 (9)                           | 6 (9)                   | 7 (10)                                       | 7 (10)   |
| 800           | 400                   | "W1" 4.6 (117)                                  | 6 (9)                           | 6 (9)      | 7 (10)                          | 7 (10)                  | 7 (11)                                       | 8 (11)   |
| 1000          | 600                   | "W1" 5.4 (137)                                  | 7 (10)                          | 7 (11)     | 8 (12)                          | 8 (12)                  | 9 (13)                                       | 9 (14)   |
| 1200          | 800                   | "W1" 6.6 (168)                                  | 8 (12)                          | 9 (13)     | 9 (14)                          | 10 (15)                 | 11 (16)                                      | 11 (17)  |
| 1350          | 1000                  | "W1" 7.6 (193)                                  | 9 (13)                          | 10 (15)    | 11 (16)                         | 11 (17)                 | 12 (18)                                      | 13 (19)  |
| 1600          | 1200                  | "W1" 8.7 (221)                                  | 10 (15)                         | 11 (17)    | 12 (18)                         | 13 (19)                 | 14 (21)                                      | 15 (22)  |
| 2000          | 1250,1600             | "W1" 10.9 (277)                                 | 13 (19)                         | 14 (21)    | 15 (23)                         | 16 (24)                 | 18 (26)                                      | 19 (28)  |
| 2500          | 2000                  | "W2" 13.7 (348)                                 | 15 (22)                         | 17 (25)    | 18 (27)                         | 20 (30)                 | 22 (33)                                      | 23 (34)  |
| 3000          | 2500                  | "W2" 15.8 (402)                                 | 17 (25)                         | 19 (28)    | 21 (31)                         | 23 (34)                 | 25 (37)                                      | 27 (40)  |
| 3200          | 2000                  | "W2" 17.3 (439)                                 | 18 (27)                         | 20 (30)    | 23 (34)                         | 25 (37)                 | 27 (40)                                      | 29 (43)  |
| 4000          | 3000,3200             | "W2" 20.3 (516)                                 | 22 (33)                         | 25 (37)    | 27 (40)                         | 30 (44)                 | 32 (48)                                      | 35 (52)  |
| <b>CU</b>     | <b>M-Rated</b>        |   |                                 |            |                                 |                         |  |          |
| 225           | —                     | "W1" 3.9 (99)                                   | 9 (13)                          | 10 (14)    | 10 (16)                         | 11 (17)                 | 12 (18)                                      | 13 (19)  |
| 400           | —                     | "W1" 3.9 (99)                                   | 9 (13)                          | 10 (14)    | 10 (16)                         | 11 (17)                 | 12 (18)                                      | 13 (19)  |
| 600           | —                     | "W1" 3.9 (99)                                   | 9 (13)                          | 10 (14)    | 10 (16)                         | 11 (17)                 | 12 (18)                                      | 13 (19)  |
| 800           | 400                   | "W1" 3.9 (99)                                   | 9 (13)                          | 10 (14)    | 10 (16)                         | 11 (17)                 | 12 (18)                                      | 13 (19)  |
| 1000          | —                     | "W1" 4.4 (112)                                  | 10 (15)                         | 11 (17)    | 12 (19)                         | 14 (20)                 | 15 (22)                                      | 16 (23)  |
| 1200          | 600                   | "W1" 5.1 (130)                                  | 12 (18)                         | 14 (20)    | 15 (23)                         | 16 (24)                 | 18 (26)                                      | 19 (29)  |
| 1350          | 800                   | "W1" 5.7 (145)                                  | 14 (21)                         | 16 (24)    | 17 (26)                         | 19 (29)                 | 21 (31)                                      | 23 (34)  |
| 1600          | 1000                  | "W1" 6.7 (170)                                  | 17 (26)                         | 19 (29)    | 22 (32)                         | 24 (35)                 | 26 (38)                                      | 28 (42)  |
| 2000          | 1200,1350             | "W1" 8.2 (208)                                  | 22 (32)                         | 25 (37)    | 28 (41)                         | 30 (45)                 | 33 (50)                                      | 36 (54)  |
| —             | 1600                  | "W1" 8.7 (277)                                  | 13 (19)                         | 14 (21)    | 15 (23)                         | 16 (24)                 | 18 (26)                                      | 19 (28)  |
| 2500          | 2000                  | "W1" 10.7 (272)                                 | 30 (44)                         | 34 (50)    | 38 (56)                         | 42 (62)                 | 46 (68)                                      | 50 (74)  |
| 3000          | —                     | "W2" 11.8 (300)                                 | 33 (49)                         | 37 (55)    | 42 (63)                         | 47 (70)                 | 51 (76)                                      | 56 (83)  |
| 3200          | —                     | "W2" 13.3 (335)                                 | 37 (55)                         | 2 (63)     | 48 (72)                         | 53 (79)                 | 58 (86)                                      | 64 (95)  |
| 4000          | 2500,3000,3200        | "W2" 15.3 (389)                                 | 43 (64)                         | 50 (75)    | 56 (83)                         | 62 (92)                 | 68 (101)                                     | 75 (112) |
| 5000          | 4000                  | "W2" 19.3 (491)                                 | 56 (83)                         | 64 (95)    | 72 (107)                        | 80 (119)                | 89 (132)                                     | 97 (145) |



# Sentron® Busway Systems – Reference Information

## Elbows

## Selection

Sentron Busway elbows provide a simple, convenient method of changing the direction (left, right, up or down) of a busway run. Two elbow styles are offered: elbow stack and elbow section.

| Flatwise Elbow Stacks, Dimensions (standard/min.) |                |                               |
|---|----------------|-------------------------------|
| Ampere Rating                                     |                | Dimensions Inches (mm)<br>"A" |
| <b>AL</b>   | <b>L-Rated</b> |                               |
| 225   | —              | 1.00 (25)                     |
| 400   | —              | 1.00 (25)                     |
| 600   | —              | 1.00 (25)                     |
| 800   | 400            | 1.12 (28)                     |
| 1000  | 600            | 2.00 (51)                     |
| 1200  | 800            | 2.50 (64)                     |
| 1350  | 1000           | 3.00 (76)                     |
| 1600  | 1200           | 3.50 (89)                     |
| 2000  | 1350,1600      | 4.62 (117)                    |
| 2500  | 2000           | 5.75 (146)                    |
| 3000  | 2500           | 7.00 (178)                    |
| 3200  | 2000           | 7.75 (197)                    |
| 4000  | 3000,3200      | 9.35 (237)                    |
| <b>CU</b>   | <b>M-Rated</b> |                               |
| 225   | —              | 1.00 (25)                     |
| 400   | —              | 1.00 (25)                     |
| 600   | —              | 1.00 (25)                     |
| 800   | 400            | 1.00 (25)                     |
| 1000  | —              | 1.12 (28)                     |
| 1200  | 600            | 1.25 (33)                     |
| 1350  | 800            | 2.00 (50)                     |
| 1600  | 1000           | 2.50 (64)                     |
| 2000  | 1200,1350      | 3.25 (83)                     |
| —   | 1600           | 4.62 (117)                    |
| 2500  | 2000           | 4.50 (114)                    |
| 3000  | —              | 5.00 (127)                    |
| 3200  | —              | 5.75 (146)                    |
| 4000  | 2500,3000,3200 | 6.75 (171)                    |
| 5000  | 4000           | 8.87 (225)                    |

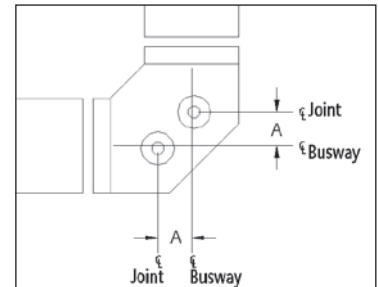
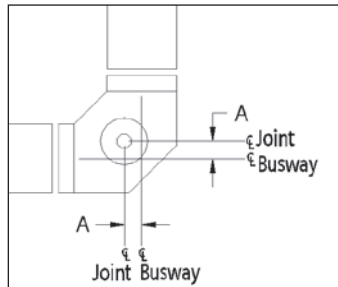
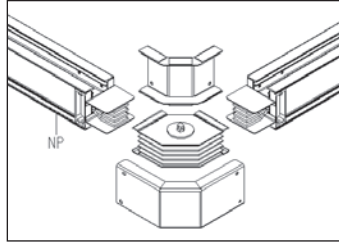
**Note:** Flatwise elbow stacks can be ordered as either right-hand (ESFR) or left-hand (ESFL) to follow the same nomenclature as an elbow section. The construction is identical and interchangeable.

### Flatwise Elbow Stacks

Flatwise elbow stacks are used for left and right directional changes. When the busway system is mounted flatwise in the horizontal plane (bus bars run parallel to the floor).

#### Flat

##### Suffix ESFR/ESFL

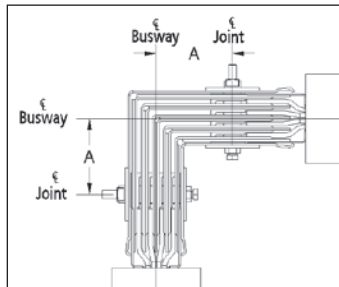


| Edgewise Elbow Stacks, Dimensions (standard/min.) |                |                               |
|---|----------------|-------------------------------|
| Ampere Rating                                     |                | Dimensions Inches (mm)<br>"A" |
| <b>AL</b>   | <b>L-Rated</b> |                               |
| 225   | —              | 4.25 (108)                    |
| 400   | —              | 4.25 (108)                    |
| 600   | —              | 4.25 (108)                    |
| 800   | 400            | 4.25 (108)                    |
| 1000  | 600            | 4.25 (108)                    |
| 1200  | 800            | 4.25 (108)                    |
| 1350  | 1000           | 4.25 (108)                    |
| 1600  | 1200           | 4.25 (108)                    |
| 2000  | 1350,1600      | 4.25 (108)                    |
| 2500  | 2000           | 4.25 (108)                    |
| 3000  | 2500           | 4.25 (108)                    |
| 3200  | 2000           | 4.25 (108)                    |
| <b>CU</b>   | <b>M-Rated</b> |                               |
| 225   | —              | 4.25 (108)                    |
| 400   | —              | 4.25 (108)                    |
| 600   | —              | 4.25 (108)                    |
| 800   | 400            | 4.25 (108)                    |
| 1000  | —              | 4.25 (108)                    |
| 1200  | 600            | 4.25 (108)                    |
| 1350  | 800            | 4.25 (108)                    |
| 1600  | 1000           | 4.25 (108)                    |
| 2000  | 1200,1350      | 4.25 (108)                    |
| —   | 1600           | 4.25 (108)                    |
| 2500  | 2000           | 4.25 (108)                    |
| 3000  | —              | 4.25 (108)                    |
| 3200  | —              | 4.25 (108)                    |
| 4000  | 2500,3000,3200 | 4.25 (108)                    |
| 5000  | 4000           | 4.25 (108)                    |

**Note:** Edge up and edge down elbow stacks are not interchangeable.

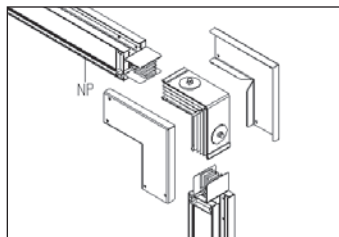
### Edgewise Elbow Stacks

Edgewise elbow stacks create up and down directional changes. The "A" phase is on the inside of the bend for edge up elbow stacks. The "A" phase is on the outside of the bend for edge down elbow stacks.



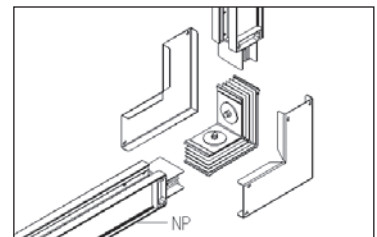
#### Edge Down

##### Suffix ESED



#### Edge Up

##### Suffix ESEU



# Sentron® Busway Systems – Reference Information

| Flatwise Elbow Sections, Dimensions (standard/min.) |                |                        |          |
|---|----------------|------------------------|----------|
| Ampere Rating                                       |                | Dimensions Inches (mm) |          |
|   |                | "A"                    | "B"      |
| <b>AL</b>   | <b>L-Rated</b> |                        |          |
| 225   | —              | 12 (305)               | 12 (305) |
| 400   | —              | 12 (305)               | 12 (305) |
| 600   | —              | 12 (305)               | 12 (305) |
| 800   | 400            | 12 (305)               | 12 (305) |
| 1000  | 600            | 12(305)                | 12 (305) |
| 1200  | 800            | 12 (305)               | 12 (305) |
| 1350  | 1000           | 12 (305)               | 12 (305) |
| 1600  | 1200           | 18 (457)               | 18 (457) |
| 2000  | 1350,1600      | 18 (457)               | 18 (457) |
| 2500  | 2000           | 18 (457)               | 18 (457) |
| 3000  | 2500           | 18 (457)               | 18 (457) |
| 3200  | 2000           | 18 (457)               | 18 (457) |
| 4000  | 3000,3200      | 24 (610)               | 24 (610) |
| <b>CU</b>   | <b>M-Rated</b> |                        |          |
| 225   | —              | 12 (305)               | 12 (305) |
| 400   | —              | 12 (305)               | 12 (305) |
| 600   | —              | 12 (305)               | 12 (305) |
| 800   | 400            | 12 (305)               | 12 (305) |
| 1000  | —              | 12 (305)               | 12 (305) |
| 1200  | 600            | 12 (305)               | 12 (305) |
| 1350  | 800            | 12 (305)               | 12 (305) |
| 1600  | 1000           | 12 (305)               | 12 (305) |
| 2000  | 1200,1350      | 12 (305)               | 12 (305) |
| —   | 1600           | 18 (457)               | 18 (457) |
| 2500  | 2000           | 18 (457)               | 18 (457) |
| 3000  | —              | 18 (457)               | 18 (457) |
| 3200  | —              | 18 (457)               | 18 (457) |
| 4000  | 2500,3000,3200 | 18 (457)               | 18 (457) |
| 5000  | 4000           | 24 (610)               | 24 (610) |

| Edgewise Elbow Sections, Dimensions (standard/min.) |                |                        |          |
|---|----------------|------------------------|----------|
| Ampere Rating                                       |                | Dimensions Inches (mm) |          |
|   |                | "A"                    | "B"      |
| <b>AL</b>   | <b>L-Rated</b> |                        |          |
| 225   | —              | 10 (254)               | 10 (254) |
| 400   | —              | 10 (254)               | 10 (254) |
| 600   | —              | 10 (254)               | 10 (254) |
| 800   | 400            | 10 (254)               | 10 (254) |
| 1000  | 600            | 10 (254)               | 10 (254) |
| 1200  | 800            | 10 (254)               | 10 (254) |
| 1350  | 1000           | 10 (254)               | 10 (254) |
| 1600  | 1200           | 10 (254)               | 10 (254) |
| 2000  | 1350,1600      | 10 (254)               | 10 (254) |
| 2500  | 2000           | 10 (254)               | 10 (254) |
| 3000  | 2500           | 10 (254)               | 10 (254) |
| 3200  | 2000           | 10 (254)               | 10 (254) |
| 4000  | 3000,3200      | 10 (254)               | 10 (254) |
| <b>CU</b>   | <b>M-Rated</b> |                        |          |
| 225   | —              | 10 (254)               | 10 (254) |
| 400   | —              | 10 (254)               | 10 (254) |
| 600   | —              | 10 (254)               | 10 (254) |
| 800   | 400            | 10 (254)               | 10 (254) |
| 1000  | —              | 10 (254)               | 10 (254) |
| 1200  | 600            | 10 (254)               | 10 (254) |
| 1350  | 800            | 10 (254)               | 10 (254) |
| 1600  | 1000           | 10 (254)               | 10 (254) |
| 2000  | 1200,1350      | 10 (254)               | 10 (254) |
| —   | 1600           | 10 (254)               | 10 (254) |
| 2500  | 2000           | 10 (254)               | 10 (254) |
| 3000  | —              | 10 (254)               | 10 (254) |
| 3200  | —              | 10 (254)               | 10 (254) |
| 4000  | 2500,3000,3200 | 10 (254)               | 10 (254) |
| 5000  | 4000           | 10 (254)               | 10 (254) |

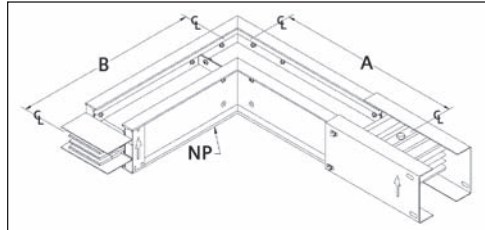
Note : Odd angle elbow flatwise and edgewise elbow sections are available for angles 95° - 175° in 5° increments.

## Flatwise Elbow Sections

Flatwise elbow sections are used for left and right directional changes when the busway system is mounted in the horizontal plane (bus bars run parallel to the floor). The joint stack assembly may be moved to the opposite leg to change the orientation from left to right/right to left.

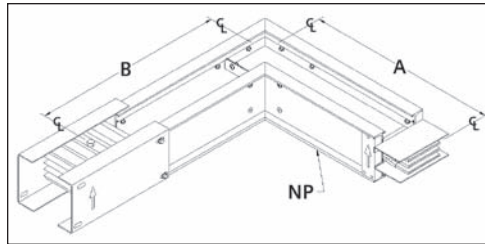
### Flat Left

#### Suffix ELEF



### Flat Right

#### Suffix ELFR

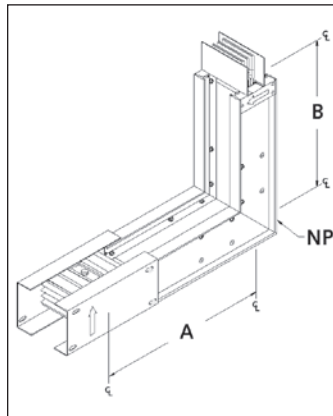


## Edgewise Elbow Sections

Edgewise elbow sections create up and down directional changes. The "A" phase bus bar lies on the inside of the bend for edge up elbows. The "A" phase bus bar lies on the outside of the bend for edge down elbows. The joint stack assembly on edgewise elbows can not be moved in order to change orientation from up to down/down to up. Sentron Busway elbow sections are shipped with a joint stack assembly on one end for direct connection to the busway system.

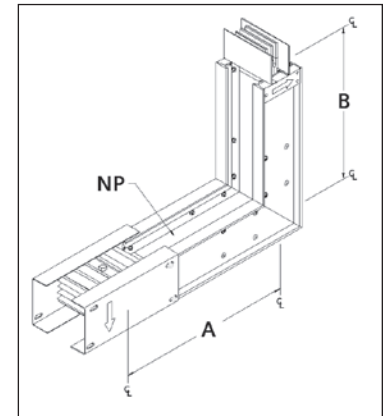
### Edge Up

#### Suffix ELEU



### Edge Down

#### Suffix ELED



# Sentron® Busway Systems – Reference Information

## Offsets

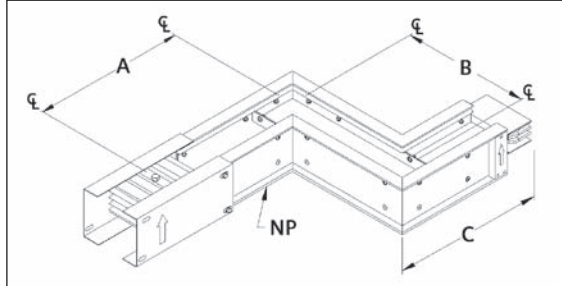
Selection

Offsets can be utilized to solve difficult contour problems and save space. In applications where space does not allow for two connected elbows, a single offset can bypass an obstruction. All offsets are supplied with one joint stack assembly.

| Flatwise Offsets, Dimensions (standard/min.) |                |                        |         |          |
|--|----------------|------------------------|---------|----------|
| Ampere Rating                                |                | Dimensions Inches (mm) |         |          |
|  |                | *"A"                   | "B"     | "C"      |
| <b>AL</b>                                    | <b>L-Rated</b> |                        |         |          |
| 225  | —              | 12 (305)               | 5 (127) | 12 (305) |
| 400  | —              | 12 (305)               | 5 (127) | 12 (305) |
| 600  | —              | 12 (305)               | 5 (127) | 12 (305) |
| 800  | 400            | 12 (305)               | 5 (127) | 12 (305) |
| 1000   | 600            | 12 (305)               | 5 (127) | 12 (305) |
| 1200   | 800            | 12 (305)               | 5 (127) | 12 (305) |
| 1350   | 1000           | 12 (305)               | 5 (127) | 12 (305) |
| 1600   | 1200           | 18 (457)               | 5 (127) | 18 (457) |
| 2000   | 1350,1600      | 18 (457)               | 5 (127) | 18 (457) |
| 2500   | 2000           | 18 (457)               | 5 (127) | 18 (457) |
| 3000   | 2500           | 18 (457)               | 5 (127) | 18 (457) |
| 3200   | 2000           | 18 (457)               | 5 (127) | 18 (457) |
| 4000   | 3000,3200      | 24 (610)               | 8 (203) | 24 (610) |
| <b>CU</b>                                    | <b>M-Rated</b> |                        |         |          |
| 225  | —              | 12 (305)               | 5 (127) | 12 (305) |
| 400  | —              | 12 (305)               | 5 (127) | 12 (305) |
| 600  | —              | 12 (305)               | 5 (127) | 12 (305) |
| 800  | 400            | 12 (305)               | 5 (127) | 12 (305) |
| 1000   | —              | 12 (305)               | 5 (127) | 12 (305) |
| 1200   | 600            | 12 (305)               | 5 (127) | 12 (305) |
| 1350   | 800            | 12 (305)               | 5 (127) | 12 (305) |
| 1600   | 1000           | 12 (305)               | 5 (127) | 12 (305) |
| 2000   | 1200,1350      | 12 (305)               | 5 (127) | 12 (305) |
| —  | 1600           |                        |         |          |
| 2500   | 2000           | 18 (457)               | 5 (127) | 18 (457) |
| 3000   | —              | 18 (457)               | 5 (127) | 18 (457) |
| 3200   | —              | 18 (457)               | 5 (127) | 18 (457) |
| 4000   | 2500,3000,3200 | 18 (457)               | 5 (127) | 18 (457) |
| 5000   | 4000           | 24 (610)               | 8 (203) | 24 (610) |

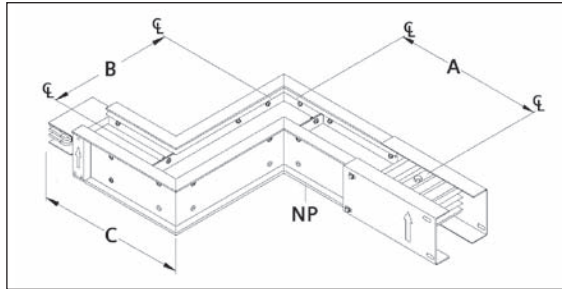
### Flat Right

#### Suffix OFFR



### Flat Left

#### Suffix OFFL

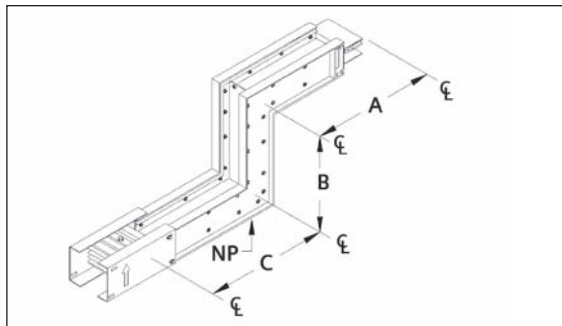


| Edgewise Offsets, Dimensions (standard/min.) |                |                        |         |          |
|--|----------------|------------------------|---------|----------|
| Ampere Rating                                |                | Dimensions Inches (mm) |         |          |
|  |                | *"A"                   | "B"     | "C"      |
| <b>AL</b>                                    | <b>L-Rated</b> |                        |         |          |
| 225  | —              | 10 (254)               | 6 (152) | 10 (254) |
| 400  | —              | 10 (254)               | 6 (152) | 10 (254) |
| 600  | —              | 10 (254)               | 6 (152) | 10 (254) |
| 800  | 400            | 10 (254)               | 6 (152) | 10 (254) |
| 1000   | 600            | 10 (254)               | 6 (152) | 10 (254) |
| 1200   | 800            | 10 (254)               | 6 (152) | 10 (254) |
| 1350   | 1000           | 10 (254)               | 6 (152) | 10 (254) |
| 1600   | 1200           | 10 (254)               | 6 (152) | 10 (254) |
| 2000   | 1350,1600      | 10 (254)               | 6 (152) | 10 (254) |
| 2500   | 2000           | 10 (254)               | 6 (152) | 10 (254) |
| 3000   | 2500           | 10 (254)               | 6 (152) | 10 (254) |
| 3200   | 2000           | 10 (254)               | 6 (152) | 10 (254) |
| 4000   | 3000,3200      | 10 (254)               | 6 (152) | 10 (254) |
| <b>CU</b>                                    | <b>M-Rated</b> |                        |         |          |
| 225  | —              | 10 (254)               | 6 (152) | 10 (254) |
| 400  | —              | 10 (254)               | 6 (152) | 10 (254) |
| 600  | —              | 10 (254)               | 6 (152) | 10 (254) |
| 800  | 400            | 10 (254)               | 6 (152) | 10 (254) |
| 1000   | —              | 10 (254)               | 6 (152) | 10 (254) |
| 1200   | 600            | 10 (254)               | 6 (152) | 10 (254) |
| 1350   | 800            | 10 (254)               | 6 (152) | 10 (254) |
| 1600   | 1000           | 10 (254)               | 6 (152) | 10 (254) |
| 2000   | 1200,1350      | 10 (254)               | 6 (152) | 10 (254) |
| —  | 1600           |                        |         |          |
| 2500   | 2000           | 10 (254)               | 6 (152) | 10 (254) |
| 3000   | —              | 10 (254)               | 6 (152) | 10 (254) |
| 3200   | —              | 10 (254)               | 6 (152) | 10 (254) |
| 4000   | 2500,3000,3200 | 10 (254)               | 6 (152) | 10 (254) |
| 5000   | 4000           | 10 (254)               | 6 (152) | 10 (254) |

\*Note: Leg Dimensions A and C have been reversed from prior publications.

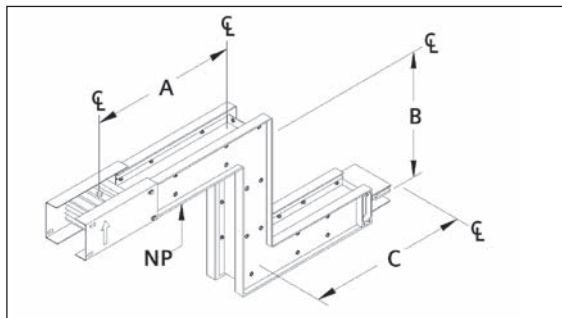
### Edge Up

#### Suffix OFEU



### Edge Down

#### Suffix OFED





# Sentron® Busway Systems – Reference Information

## Combinations

Selection

Combinations are used to create edge to flat and flat to edge changes in the busway run. One joint stack assembly is shipped with combination.

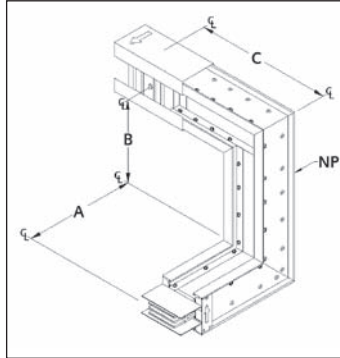
See drawings for minimum dimensions. Consult Busway Order Service for information on custom lengths.

| Combinations, Dimensions (standard/min.) |                | Dimensions Inches (mm) |          |          |
|--|----------------|------------------------|----------|----------|
| Ampere Rating                            |                | "A"                    | "B"      | "C"      |
| <b>AL</b>                                | <b>L-Rated</b> |                        |          |          |
| 225                                      | —              | 10 (254)               | 8 (203)  | 12 (305) |
| 400                                      | —              | 10 (254)               | 8 (203)  | 12 (305) |
| 600                                      | —              | 10 (254)               | 8 (203)  | 12 (305) |
| 800                                      | 400            | 10 (254)               | 8 (203)  | 12 (305) |
| 1000                                     | 600            | 10 (254)               | 8 (203)  | 12 (305) |
| 1200                                     | 800            | 10 (254)               | 8 (203)  | 12 (305) |
| 1350                                     | 1000           | 10 (254)               | 8 (203)  | 12 (305) |
| 1600                                     | 1200           | 10 (254)               | 12 (305) | 18 (457) |
| 2000                                     | 1350,1600      | 10 (254)               | 12 (305) | 18 (457) |
| 2500                                     | 2000           | 10 (254)               | 12 (305) | 18 (457) |
| 3000                                     | 2500           | 10 (254)               | 12 (305) | 18 (457) |
| 3200                                     | 2000           | 10 (254)               | 12 (305) | 18 (457) |
| 4000                                     | 3000,3200      | 10 (254)               | 16 (406) | 24 (610) |
| <b>CU</b>                                | <b>M-Rated</b> |                        |          |          |
| 225                                      | —              | 10 (254)               | 8 (203)  | 12 (305) |
| 400                                      | —              | 10 (254)               | 8 (203)  | 12 (305) |
| 600                                      | —              | 10 (254)               | 8 (203)  | 12 (305) |
| 800                                      | 400            | 10 (254)               | 8 (203)  | 12 (305) |
| 1000                                     | —              | 10 (254)               | 8 (203)  | 12 (305) |
| 1200                                     | 600            | 10 (254)               | 8 (203)  | 12 (305) |
| 1350                                     | 800            | 10 (254)               | 8 (203)  | 12 (305) |
| 1600                                     | 1000           | 10 (254)               | 8 (203)  | 12 (305) |
| 2000                                     | 1200,1350      | 10 (254)               | 8 (203)  | 12 (305) |
| —  | 1600           | 10 (254)               | 12 (305) | 18 (457) |
| 2500                                     | 2000           | 10 (254)               | 12 (305) | 18 (457) |
| 3000                                     | —              | 10 (254)               | 12 (305) | 18 (457) |
| 3200                                     | —              | 10 (254)               | 12 (305) | 18 (457) |
| 4000                                     | 2500,3000,3200 | 10 (254)               | 12 (305) | 18 (457) |
| 5000                                     | 4000           | 10 (254)               | 16 (406) | 24 (610) |

\*Note: Leg Dimensions A and C have been reversed from prior publications.

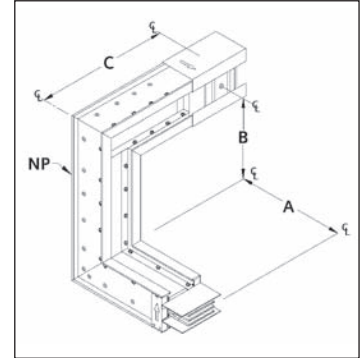
Flat Right - Edge Up

Suffix CORU



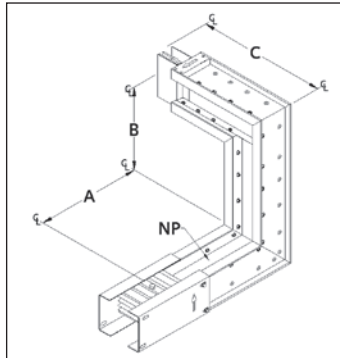
Flat Left - Edge Up

Suffix COLU



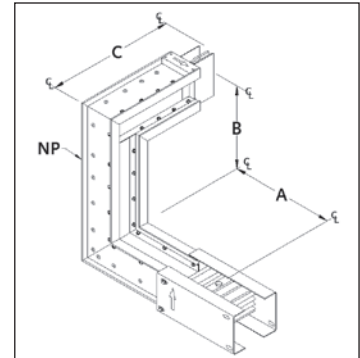
Edge Up - Flat Left

Suffix COUL



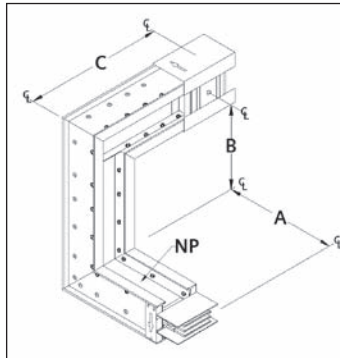
Edge Up - Flat Right

Suffix COUR



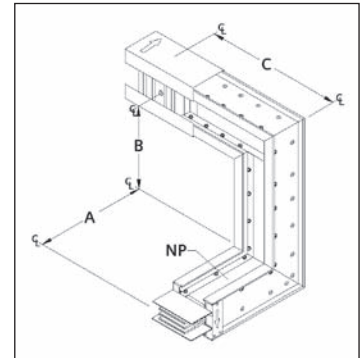
Flat Right - Edge Down

Suffix CORD



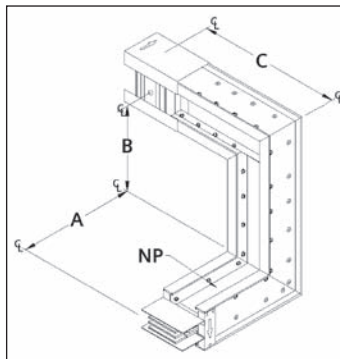
Flat Left - Edge Down

Suffix COLD



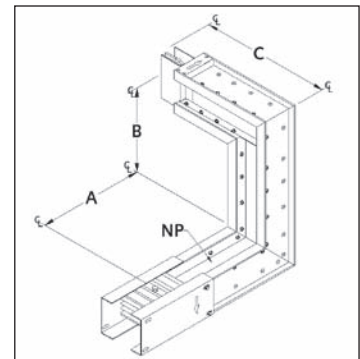
Edge Down - Flat Left

Suffix CODL



Edge Down - Flat Right

Suffix CODR



15

BUSWAY SYSTEMS

# Sentron® Busway Systems – Reference Information

Tees

Selection

Tees are used to simplify directional and plane orientation changes in a busway system. Tees can make 90° bends left or right, and up and down along the busway run. All tees are supplied with two joint stack assemblies.

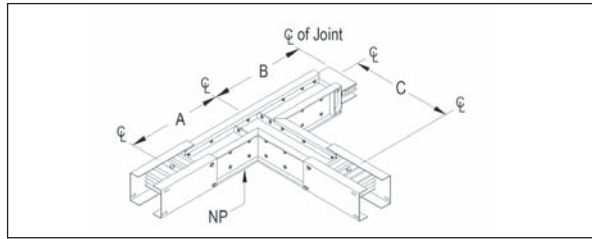
| Flatwise Tees, Dimensions (standard/min.) |                |   |
|---|----------------|---|
| Ampere Rating                             |                | Dimensions Inches (mm)<br>"A", "B", "C" |
| <b>AL</b>                                 | <b>L-Rated</b> |   |
| 225                                       | —              | 12 (305)                                |
| 400                                       | —              | 12 (305)                                |
| 600                                       | —              | 12 (305)                                |
| 800                                       | 400            | 12 (305)                                |
| 1000                                      | 600            | 12 (305)                                |
| 1200                                      | 800            | 12 (305)                                |
| 1350                                      | 1000           | 12 (305)                                |
| 1600                                      | 1200           | 18 (457)                                |
| 2000                                      | 1350,1600      | 18 (457)                                |
| 2500                                      | 2000           | 18 (457)                                |
| 3000                                      | 2500           | 18 (457)                                |
| 3200                                      | 2000           | 18 (457)                                |
| 4000                                      | 3000,3200      | 24 (610)                                |
| <b>CU</b>                                 | <b>M-Rated</b> |   |
| 225                                       | —              | 12 (305)                                |
| 400                                       | —              | 12 (305)                                |
| 600                                       | —              | 12 (305)                                |
| 800                                       | 400            | 12 (305)                                |
| 1000                                      | —              | 12 (305)                                |
| 1200                                      | 600            | 12 (305)                                |
| 1350                                      | 800            | 12 (305)                                |
| 1600                                      | 1000           | 12 (305)                                |
| 2000                                      | 1200,1350      | 12 (305)                                |
| —   | 1600           | 18 (457)                                |
| 2500                                      | 2000           | 18 (457)                                |
| 3000                                      | —              | 18 (457)                                |
| 3200                                      | —              | 18 (457)                                |
| 4000                                      | 2500,3000,3200 | 18 (457)                                |
| 5000                                      | 4000           | 24 (610)                                |

## Flatwise Tees

Flatwise tees are used to create left and right branches.

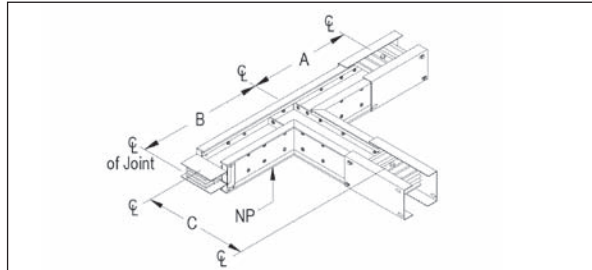
### Flat Right

#### Suffix TEFR



### Flat Left

#### Suffix TEFL



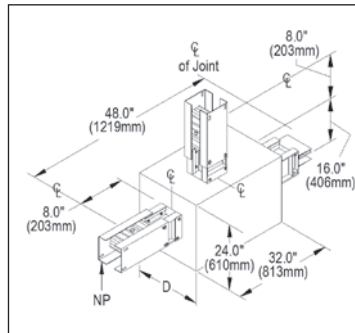
| Edgewise Tees, Dimensions (standard/min.) |                |                               |
|---|----------------|-------------------------------|
| Ampere Rating                             |                | Dimensions Inches (mm)<br>"D" |
| <b>AL</b>                                 | <b>L-Rated</b> |                               |
| 225                                       | —              | 13 (330)                      |
| 400                                       | —              | 13 (330)                      |
| 600                                       | —              | 13 (330)                      |
| 800                                       | 400            | 13 (330)                      |
| 1000                                      | 600            | 13 (330)                      |
| 1200                                      | 800            | 18 (457)                      |
| 1350                                      | 1000           | 18 (457)                      |
| 1600                                      | 1200           | 18 (457)                      |
| 2000                                      | 1350,1600      | 18 (457)                      |
| 2500                                      | 2000           | 27 (686)                      |
| 3000                                      | 2500           | 27 (686)                      |
| 3200                                      | 2000           | 27 (686)                      |
| 4000                                      | 3000,3200      | 29 (737)                      |
| <b>CU</b>                                 | <b>M-Rated</b> |                               |
| 225                                       | —              | 13 (330)                      |
| 400                                       | —              | 13 (330)                      |
| 600                                       | —              | 13 (330)                      |
| 800                                       | 400            | 13 (330)                      |
| 1000                                      | —              | 13 (330)                      |
| 1200                                      | 600            | 13 (330)                      |
| 1350                                      | 800            | 13 (330)                      |
| 1600                                      | 1000           | 18 (457)                      |
| 2000                                      | 1200,1350      | 18 (457)                      |
| —   | 1600           | 18 (457)                      |
| 2500                                      | 2000           | 18 (457)                      |
| 3000                                      | —              | 27 (686)                      |
| 3200                                      | —              | 27 (686)                      |
| 4000                                      | 2500,3000,3200 | 27 (686)                      |
| 5000                                      | 4000           | 29 (737)                      |

## Edgewise Tees

Edgewise tees are used to create branches that stem up or down from the busway run.

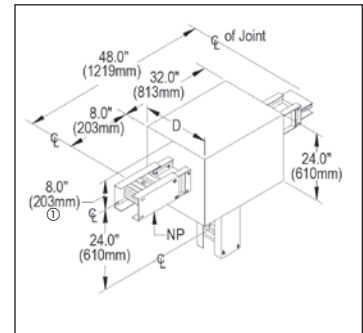
### Edge Up

#### Suffix TEEU



### Edge Down

#### Suffix TEED



© 12.0" (305mm) For Isolated Ground.



# Sentron® Busway Systems – Reference Information

## End Tap Boxes

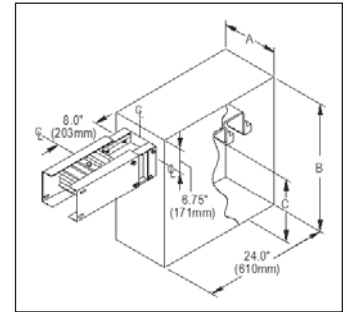
Selection

End tap boxes are non-fusible devices used to connect cable and conduit to the end of a busway run or where busway runs connect without the need for over-current protection. End tap boxes may be installed at the end or beginning of a run. Vertical end tap boxes and horizontal end tap boxes can be installed in both horizontal and vertical applications. Extended end tap boxes are available if the application requires additional wire bending space. One joint stack assembly is shipped with each end tap box.

| Standard and Extended Horizontal End Tap Boxes, Dimensions |                        |          |          |                 |          |                                |      |                          |
|--|------------------------|----------|----------|-----------------|----------|--------------------------------|------|--------------------------|
| Ampere Rating  | Dimensions Inches (mm) |          |          | Wire Bend Space |          | Cable Lugs Per Phase & Neutral |      | Ground Lugs <sup>①</sup> |
|  | "A"                    | "B" Std. | "B" Ext. | "C" Std.        | "C" Ext. | Qty.                           | Size |                          |
| <b>AL L-Rated</b>  |                        |          |          |                 |          |                                |      |                          |
| 225 —  | 13 (330)               | 30 (762) | 34 (863) | 17 (432)        | 21 (533) | 1                              | ①    | 1                        |
| 400 —  | 13 (330)               | 30 (762) | 34 (863) | 17 (432)        | 21 (533) | 1                              | ②    | 1                        |
| 600 —  | 13 (330)               | 30 (762) | 34 (863) | 17 (432)        | 21 (533) | 2                              | ②    | 1                        |
| 800 400  | 13 (330)               | 30 (762) | 34 (863) | 17 (432)        | 21 (533) | 3                              | ②    | 1                        |
| 1000 600   | 13 (330)               | 30 (762) | 34 (863) | 17 (432)        | 21 (533) | 4                              | ②    | 1                        |
| 1200 800   | 18 (457)               | 32 (813) | 37 (940) | 20 (508)        | 24 (610) | 4                              | ②    | 1                        |
| 1350 1000  | 18 (457)               | 33 (838) | 37 (940) | 20 (508)        | 24 (610) | 4                              | ②    | 1                        |
| 1600 1200  | 18 (457)               | 33 (838) | 37 (940) | 20 (508)        | 24 (610) | 6                              | ②    | 2                        |
| 2000 1350,1600   | 18 (457)               | 33 (838) | 37 (940) | 20 (508)        | 24 (610) | 6                              | ②    | 2                        |
| 2500 2000  | 27 (686)               | 33 (838) | 37 (940) | 20 (508)        | 24 (610) | 8                              | ②    | 2                        |
| 3000 2500  | 27 (686)               | 33 (838) | 37 (940) | 20 (508)        | 24 (610) | 9                              | ②    | 2                        |
| 3200 2000  | 27 (686)               | 33 (838) | 37 (940) | 20 (508)        | 24 (610) | 9                              | ②    | 2                        |
| 4000 3000,3200   | 29 (737)               | 33 (838) | 37 (940) | 20 (508)        | 24 (610) | 12                             | ②    | 3                        |
| <b>CU M-Rated</b>  |                        |          |          |                 |          |                                |      |                          |
| 225 —  | 13 (330)               | 30 (762) | 34 (863) | 17 (432)        | 21 (533) | 1                              | ①    | 1                        |
| 400 —  | 13 (330)               | 30 (762) | 34 (863) | 17 (432)        | 21 (533) | 1                              | ②    | 1                        |
| 600 —  | 13 (330)               | 30 (762) | 34 (863) | 17 (432)        | 21 (533) | 2                              | ②    | 1                        |
| 800 400  | 13 (330)               | 30 (762) | 34 (863) | 17 (432)        | 21 (533) | 3                              | ②    | 1                        |
| 1000 —   | 13 (330)               | 30 (762) | 34 (863) | 17 (432)        | 21 (533) | 4                              | ②    | 1                        |
| 1200 600   | 13 (330)               | 33 (838) | 37 (940) | 20 (508)        | 24 (610) | 4                              | ②    | 1                        |
| 1350 800   | 13 (330)               | 33 (838) | 37 (940) | 20 (508)        | 24 (610) | 4                              | ②    | 1                        |
| 1600 1000  | 18 (457)               | 33 (838) | 37 (940) | 20 (508)        | 24 (610) | 5                              | ②    | 1                        |
| 2000 1200,1350   | 18 (457)               | 33 (838) | 37 (940) | 20 (508)        | 24 (610) | 6                              | ②    | 2                        |
| — 1600   | 18 (457)               | 33 (838) | 37 (940) | 20 (508)        | 24 (610) | 5                              | ②    | 1                        |
| 2500 2000  | 18 (457)               | 33 (838) | 37 (940) | 20 (508)        | 24 (610) | 8                              | ②    | 2                        |
| 3000 —   | 27 (686)               | 33 (838) | 37 (940) | 20 (508)        | 24 (610) | 9                              | ②    | 2                        |
| 3200 —   | 27 (686)               | 33 (838) | 37 (940) | 20 (508)        | 24 (610) | 9                              | ②    | 2                        |
| 4000 2500,3000,3200  | 27 (686)               | 33 (838) | 37 (940) | 20 (508)        | 24 (610) | 12                             | ②    | 3                        |
| 5000 4000  | 29 (737)               | 33 (838) | 37 (940) | 20 (508)        | 24 (610) | 15                             | ②    | 4                        |

### Horizontal End Tap Box

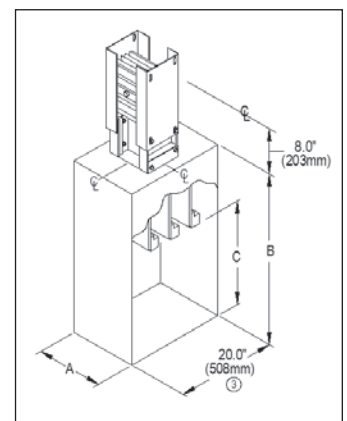
Suffix ETHS (Standard)  
Suffix ETHX (Extended)



| Standard and Extended Vertical End Tap Boxes, Dimensions |                        |          |          |                 |          |                                |      |                          |
|--|------------------------|----------|----------|-----------------|----------|--------------------------------|------|--------------------------|
| Ampere Rating  | Dimensions Inches (mm) |          |          | Wire Bend Space |          | Cable Lugs Per Phase & Neutral |      | Ground Lugs <sup>①</sup> |
|  | "A"                    | "B" Std. | "B" Ext. | "C" Std.        | "C" Ext. | Qty.                           | Size |                          |
| <b>AL L-Rated</b>  |                        |          |          |                 |          |                                |      |                          |
| 225 —  | 13 (330)               | 25 (635) | 29 (737) | 17 (432)        | 21 (533) | 1                              | ①    | 1                        |
| 400 —  | 13 (330)               | 25 (635) | 29 (737) | 17 (432)        | 21 (533) | 1                              | ②    | 1                        |
| 600 —  | 13 (330)               | 25 (635) | 29 (737) | 17 (432)        | 21 (533) | 2                              | ②    | 1                        |
| 800 400  | 13 (330)               | 25 (635) | 29 (737) | 17 (432)        | 21 (533) | 3                              | ②    | 1                        |
| 1000 600   | 13 (330)               | 25 (635) | 29 (737) | 17 (432)        | 21 (533) | 4                              | ②    | 1                        |
| 1200 800   | 18 (457)               | 32 (813) | 32 (813) | 20 (508)        | 24 (610) | 4                              | ②    | 1                        |
| 1350 1000  | 18 (457)               | 28 (711) | 32 (813) | 20 (508)        | 24 (610) | 4                              | ②    | 1                        |
| 1600 1200  | 18 (457)               | 28 (711) | 32 (813) | 20 (508)        | 24 (610) | 6                              | ②    | 2                        |
| 2000 1350,1600   | 18 (457)               | 28 (711) | 32 (813) | 20 (508)        | 24 (610) | 6                              | ②    | 2                        |
| 2500 2000  | 27 (686)               | 28 (711) | 32 (813) | 20 (508)        | 24 (610) | 8                              | ②    | 2                        |
| 3000 2500  | 27 (686)               | 28 (711) | 32 (813) | 20 (508)        | 24 (610) | 9                              | ②    | 2                        |
| 3200 2000  | 29 (737)               | 28 (711) | 32 (813) | 20 (508)        | 24 (610) | 9                              | ②    | 2                        |
| 4000 3000,3200   | 29 (737)               | 28 (711) | 32 (813) | 20 (508)        | 24 (610) | 12                             | ②    | 3                        |
| <b>CU M-Rated</b>  |                        |          |          |                 |          |                                |      |                          |
| 225 —  | 13 (330)               | 25 (635) | 29 (737) | 17 (432)        | 21 (533) | 1                              | ①    | 1                        |
| 400 —  | 13 (330)               | 25 (635) | 29 (737) | 17 (432)        | 21 (533) | 1                              | ②    | 1                        |
| 600 —  | 13 (330)               | 25 (635) | 29 (737) | 17 (432)        | 21 (533) | 2                              | ②    | 1                        |
| 800 400  | 13 (330)               | 25 (635) | 29 (737) | 17 (432)        | 21 (533) | 3                              | ②    | 1                        |
| 1000 —   | 13 (330)               | 25 (635) | 29 (737) | 17 (432)        | 21 (533) | 4                              | ②    | 1                        |
| 1200 600   | 13 (330)               | 28 (711) | 32 (813) | 20 (508)        | 24 (610) | 4                              | ②    | 1                        |
| 1350 800   | 13 (330)               | 28 (711) | 32 (813) | 20 (508)        | 24 (610) | 4                              | ②    | 1                        |
| 1600 1000  | 18 (457)               | 28 (711) | 32 (813) | 20 (508)        | 24 (610) | 5                              | ②    | 1                        |
| 2000 1200,1350   | 18 (457)               | 28 (711) | 32 (813) | 20 (508)        | 24 (610) | 6                              | ②    | 2                        |
| — 1600   | 18 (457)               | 28 (711) | 32 (813) | 20 (508)        | 24 (610) | 5                              | ②    | 1                        |
| 2500 2000  | 18 (457)               | 28 (711) | 32 (813) | 20 (508)        | 24 (610) | 8                              | ②    | 2                        |
| 3000 —   | 27 (686)               | 28 (711) | 32 (813) | 20 (508)        | 24 (610) | 9                              | ②    | 2                        |
| 3200 —   | 27 (686)               | 28 (711) | 32 (813) | 20 (508)        | 24 (610) | 9                              | ②    | 2                        |
| 4000 2500,3000,3200                                      | 27 (686)               | 28 (711) | 32 (813) | 20 (508)        | 24 (610) | 12                             | ②    | 3                        |
| 5000 4000  | 29 (737)               | 28 (711) | 32 (813) | 20 (508)        | 24 (610) | 15                             | ②    | 4                        |

### Vertical End Tap Box

Suffix ETVS (Standard)  
Suffix ETVX (Extended)



① #6 AWG -350 kcmil, Cu/Al.

② #4 AWG -600 kcmil, Cu/Al.

③ 24.0" (610mm) for isolated ground.

# Sentron® Busway Systems – Reference Information

## Center Tap Boxes

Selection

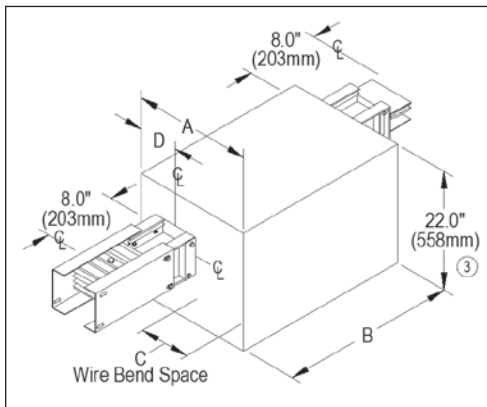
Center tap boxes are non-fusible devices utilized to feed to or take off power from the busway run. When loads served by the busway run do not require over-current protection, center tap boxes may be used. If the application requires additional wiring bending space, extended center tap boxes are available. One joint stack assembly is provided with each center tap box.

| Standard and Extended Center End Tap Boxes, Dimensions |                        |          |            |                 |          |          |                                |      |                          |
|--|------------------------|----------|------------|-----------------|----------|----------|--------------------------------|------|--------------------------|
| Ampere Rating  | Dimensions Inches (mm) |          |            | Wire Bend Space |          |          | Cable Lugs Per Phase & Neutral |      | Ground Lugs <sup>①</sup> |
|  | "A" Std.               | "B"      | "D"        | "A" Ext..       | "C" Std. | "C" Ext. | Qty.                           | Size |                          |
| <b>AL L-Rated</b>                                      |                        |          |            |                 |          |          |                                |      |                          |
| 225 —  | 25 (635)               | 16 (406) | 3.9 (99)   | 29 (737)        | 17 (432) | 21 (533) | 1                              | ①    | 1                        |
| 225 —  | 25 (635)               | 16 (406) | 3.9 (99)   | 29 (737)        | 17 (432) | 21 (533) | 1                              | ②    | 1                        |
| 400 —  | 25 (635)               | 16 (406) | 3.9 (99)   | 29 (737)        | 17 (432) | 21 (533) | 1                              | ②    | 1                        |
| 600 —  | 25 (635)               | 16 (406) | 3.9 (99)   | 29 (737)        | 17 (432) | 21 (533) | 2                              | ②    | 1                        |
| 800 400  | 25 (635)               | 16 (406) | 4.2 (107)  | 29 (737)        | 17 (432) | 21 (533) | 3                              | ②    | 1                        |
| 1000 600   | 25 (635)               | 16 (406) | 4.6 (117)  | 29 (737)        | 17 (432) | 21 (533) | 4                              | ②    | 1                        |
| 1200 800   | 29 (737)               | 16 (406) | 5.2 (132)  | 33 (838)        | 20 (508) | 24 (610) | 4                              | ②    | 1                        |
| 1350 1000  | 29 (737)               | 16 (406) | 5.7 (145)  | 33 (838)        | 20 (508) | 24 (610) | 4                              | ②    | 1                        |
| 1600 1200  | 33 (838)               | 20 (508) | 6.3 (160)  | 37 (940)        | 20 (508) | 24 (610) | 5                              | ②    | 1                        |
| 2000 1350,1600   | 33 (838)               | 20 (508) | 7.4 (188)  | 37 (940)        | 20 (508) | 24 (610) | 6                              | ②    | 2                        |
| 2500 2000  | 37 (940)               | 24 (610) | 8.7 (221)  | 41 (1041)       | 20 (508) | 24 (610) | 8                              | ②    | 2                        |
| 3000 2500  | 37 (940)               | 24 (610) | 9.7 (246)  | 41 (1041)       | 20 (508) | 24 (610) | 9                              | ②    | 2                        |
| 3200 2000  | 37 (940)               | 24 (610) | 9.7 (246)  | 41 (1041)       | 20 (508) | 24 (610) | 9                              | ②    | 2                        |
| 4000 3000,3200   | 45 (1143)              | 28 (711) | 11.9 (302) | 49 (1245)       | 20 (508) | 24 (610) | 12                             | ②    | 3                        |
| <b>CU M-Rated</b>                                      |                        |          |            |                 |          |          |                                |      |                          |
| 225 —  | 25 (635)               | 16 (406) | 3.9 (99)   | 29 (737)        | 17 (432) | 21 (533) | 1                              | ②    | 1                        |
| 400 —  | 25 (635)               | 16 (406) | 3.9 (99)   | 29 (737)        | 17 (432) | 21 (533) | 1                              | ②    | 1                        |
| 600 —  | 25 (635)               | 16 (406) | 3.9 (99)   | 29 (737)        | 17 (432) | 21 (533) | 2                              | ②    | 1                        |
| 800 400  | 25 (635)               | 16 (406) | 4.2 (107)  | 29 (737)        | 17 (432) | 21 (533) | 3                              | ②    | 1                        |
| 1000 —   | 25 (635)               | 16 (406) | 4.2 (107)  | 29 (737)        | 18 (457) | 22 (559) | 4                              | ②    | 1                        |
| 1200 600   | 29 (737)               | 16 (406) | 4.5 (114)  | 33 (838)        | 22 (559) | 26 (660) | 4                              | ②    | 1                        |
| 1350 800   | 29 (737)               | 16 (406) | 4.8 (122)  | 33 (838)        | 21 (533) | 25 (635) | 4                              | ②    | 1                        |
| 1600 1000  | 29 (737)               | 20 (508) | 5.3 (135)  | 33 (838)        | 21 (533) | 25 (635) | 5                              | ②    | 1                        |
| 2000 1200,1350   | 29 (737)               | 20 (508) | 6.1 (155)  | 33 (838)        | 20 (508) | 24 (610) | 6                              | ②    | 2                        |
| — 1600   | 33 (838)               | 20 (508) | 6.3 (160)  | 37 (940)        | 20 (508) | 24 (610) | 5                              | ②    | 1                        |
| 2500 2000  | 33 (838)               | 24 (610) | 7.3 (185)  | 37 (940)        | 23 (584) | 17 (432) | 8                              | ②    | 2                        |
| 3000 —   | 33 (838)               | 24 (610) | 7.9 (201)  | 37 (940)        | 20 (508) | 24 (610) | 9                              | ②    | 2                        |
| 3200 —   | 33 (838)               | 24 (610) | 7.9 (201)  | 37 (940)        | 20 (508) | 24 (610) | 9                              | ②    | 2                        |
| 4000 2500,3000,3200                                    | 37 (940)               | 28 (711) | 9.4 (239)  | 41 (1041)       | 20 (508) | 24 (610) | 12                             | ②    | 3                        |
| 5000 4000  | 40(1016)               | 34 (863) | 11.7(297)  | 44 (1118)       | 19 (483) | 23 (584) | 15                             | ②    | 4                        |

### Center Tap Box

Suffix CTBS (Standard)

Suffix CTBX (Extended)



① #6 AWG -350 kcmil, Cu/Al.  
 ② #4 AWG -600 kcmil, Cu/Al.  
 ③ 24.0" (610mm) for isolated ground.

# Sentron® Busway Systems – Reference Information

## In-Line Disconnect Cubicles and Expansion Fittings

Selection

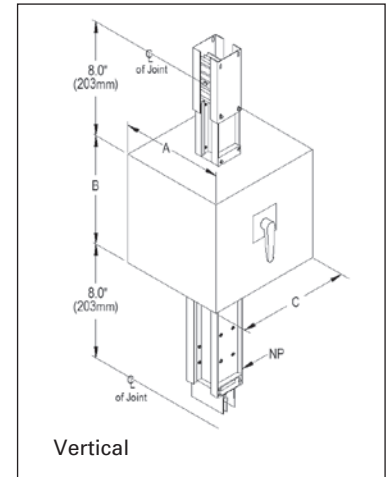
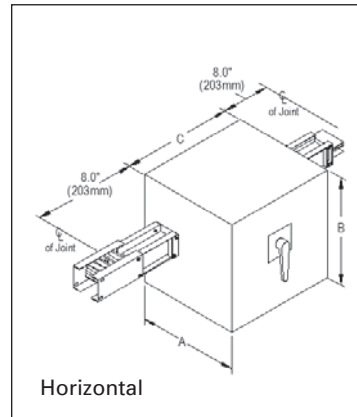
| In-Line Disconnect Cubicle, Dimensions ② |   |
|--|---|
| Description of Unit                      | Type of Disconnect                                |
| Fusible Switch                           | 400-600A FK Visible Blade<br>800-1200A Vacu-Break |
| Molded Case Circuit Breaker              | JD6, LD6, MD6, ND6<br>PD6, RD6                    |
| Digital Sentron Series MCCB's            | SJD6, SLD6, SMD6, SND6<br>SPD6 1600A Frame        |
| Power Circuit Breaker                    | 200-5000A WL ①                                    |
| Bolted Pressure Switch                   | 800A<br>1200-2500A<br>3000A<br>4000A              |
| ACCESS-compatible                        |   |

① Consult your local Siemens sales office for details on WL breakers.  
② Consult factory for dimensions.

### In-Line Disconnect Cubicles

Cubicles provide a means of mounting switches or circuit breakers where power feeds to or pulls from the busway system. When bolted connections are preferred, cubicles may be used in place of plug-in units. Cubicles can also be used at ampere ratings that exceed standard plug-in unit ratings. Modifications to cubicles can be made in order to accommodate key inter-locks, ground fault detector systems and power monitoring systems.

#### In-Line Disconnect Cubicle



| Expansion Fittings, Dimensions (standard/min.) |                | Dimensions Inches (mm)<br>"A" |
|--|----------------|-------------------------------|
| Ampere Rating                                  |                |                               |
| <b>AL</b>                                      | <b>L-Rated</b> |                               |
| 225  | —              | 13 (330)                      |
| 400  | —              | 13 (330)                      |
| 600  | —              | 13 (330)                      |
| 800  | 400            | 13 (330)                      |
| 1000   | 600            | 13 (330)                      |
| 1200   | 800            | 18 (457)                      |
| 1350   | 1000           | 18 (457)                      |
| 1600   | 1200           | 18 (457)                      |
| 2000   | 1350,1600      | 18 (457)                      |
| 2500   | 2000           | 23 (584)                      |
| 3000   | 2500           | 23 (584)                      |
| 3200   | 2000           | 23 (584)                      |
| 4000   | 3000,3200      | 25 (635)                      |
| <b>CU</b>                                      | <b>M-Rated</b> |                               |
| 225  | —              | 13 (330)                      |
| 400  | —              | 13 (330)                      |
| 600  | —              | 13 (330)                      |
| 800  | 400            | 13 (330)                      |
| 1000   | —              | 13 (330)                      |
| 1200   | 600            | 13 (330)                      |
| 1350   | 800            | 13 (330)                      |
| 1600   | 1000           | 18 (457)                      |
| 2000   | 1200,1350      | 18 (457)                      |
| —  | 1600           | 18 (457)                      |
| 2500   | 2000           | 18 (457)                      |
| 3000   | —              | 23 (584)                      |
| 3200   | —              | 23 (584)                      |
| 4000   | 2500,3000,3200 | 23 (584)                      |
| 5000   | 4000           | 25 (635)                      |

① 24.0" (610mm) for isolated ground.

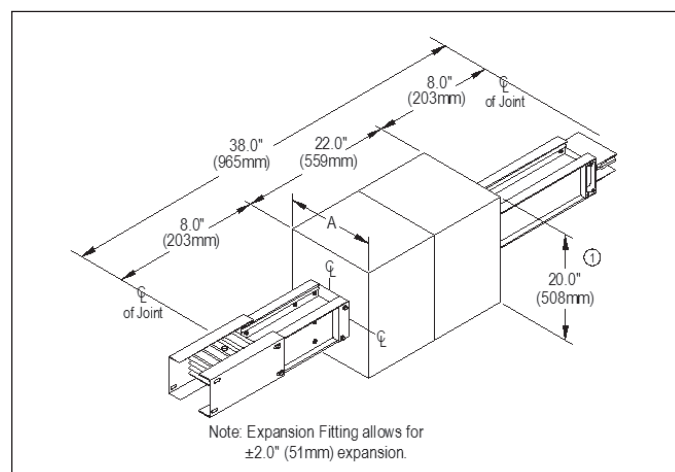
### Expansion Fittings

Expansion fittings accommodate for expansion and contraction of a busway run and building movement. Expansion fittings typically are installed in the center of long busway runs, and at the beginning of riser runs to minimize stress on the lower most device or where a busway run crosses an expansion joint of a building.

Qty (1) Expansion Section should be used for every 200ft of continuous Busway run length, at every transition to a vertical run, and at each building expansion joint. The Busway run must be positioned accordingly to accommodate the Expansion Section(s).

#### Expansion Fitting

##### Suffix XPFT



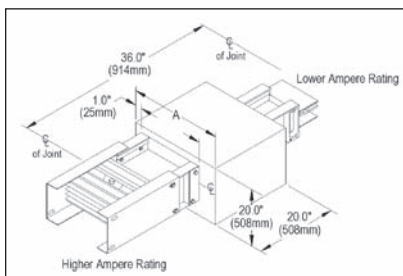
| Fused Reducers, Dimensions (standard/min.) |                |                               |
|--|----------------|-------------------------------|
| Ampere Rating                              |                | Dimensions Inches (mm)<br>"A" |
| <b>AL</b>                                  | <b>L-Rated</b> |                               |
| 225  | —              | 11.4 (289)                    |
| 400  | —              | 11.4 (289)                    |
| 600  | —              | 11.4 (289)                    |
| 800  | 400            | 11.4 (289)                    |
| 1000                                       | 600            | 11.4 (289)                    |
| 1200                                       | 800            | 12.5 (318)                    |
| 1350                                       | 1000           | 13.5 (343)                    |
| 1600                                       | 1200           | 14.6 (372)                    |
| 2000                                       | 1350,1600      | 16.9 (429)                    |
| 2500                                       | 2000           | 19.6 (498)                    |
| 3000                                       | 2500           | 21.3 (541)                    |
| 3200                                       | 2000           | 22.9 (582)                    |
| 4000                                       | 3000,3200      | 31.5 (800)                    |
| <b>CU</b>                                  | <b>M-Rated</b> |                               |
| 225  | —              | 10.4 (264)                    |
| 400  | —              | 10.4 (264)                    |
| 600  | —              | 10.4 (264)                    |
| 800  | 400            | 10.4 (264)                    |
| 1000                                       | —              | 10.4 (264)                    |
| 1200                                       | 600            | 11.0 (280)                    |
| 1350                                       | 800            | 11.6 (296)                    |
| 1600                                       | 1000           | 12.6 (321)                    |
| 2000                                       | 1200,1350      | 14.1 (359)                    |
| —  | 1600           | 14.6 (372)                    |
| 2500                                       | 2000           | 16.6 (423)                    |
| 3000                                       | —              | 17.9 (455)                    |
| 3200                                       | —              | 18.9 (480)                    |
| 4000                                       | 2500,3000,3200 | 20.9 (531)                    |
| 5000                                       | 4000           | 31.5 (800)                    |

### Fused Reducers

The National Electric Code requires over current protection when busway systems are reduced in ampacity. A fused reducer is used to reduce the allowable ampere rating in those sections of the busway that do not require a higher rating (i.e. at branch circuit junctures).

#### Fused Reducer

##### Suffix RFRF



### Non-Fused Reducers

Non-fused reducers are used in conjunction with the following exception to the Fused Reducer in the National Electric Code: "For industrial establishments only, omission of over current protection shall be permitted at points where busways are reduced in ampacity, provided that the length of the busway having the smaller ampacity does not exceed 50 ft. and has an ampacity of at least equal to one-third the rating or setting of the over current device next back on the line, and provided that such busway is free from contact with combustible material." Special joint stack connections are provided for non-fused reducer connections. Consult factory for specific design guidelines.

| Phase Rotation Fittings, Dimensions (standard/min.) |                |                               |
|---|----------------|-------------------------------|
| Ampere Rating                                       |                | Dimensions Inches (mm)<br>"A" |
| <b>AL</b>   | <b>L-Rated</b> |                               |
| 225   | —              | 7.9 (200)                     |
| 400   | —              | 7.9 (200)                     |
| 600   | —              | 7.9 (200)                     |
| 800   | 400            | 8.5 (216)                     |
| 1000  | 600            | 9.4 (239)                     |
| 1200  | 800            | 10.5 (267)                    |
| 1350  | 1000           | 11.5 (293)                    |
| 1600  | 1200           | 12.6 (321)                    |
| 2000  | 1350,1600      | 14.9 (376)                    |
| 2500  | 2000           | 17.6 (447)                    |
| 3000  | 2500           | 19.8 (503)                    |
| 3200  | 2000           | 21.3 (541)                    |
| 4000  | 3000,3200      | 24.3 (617)                    |
| <b>CU</b>   | <b>M-Rated</b> |                               |
| 225   | —              | 7.9 (200)                     |
| 400   | —              | 7.9 (200)                     |
| 600   | —              | 7.9 (200)                     |
| 800   | 400            | 7.9 (200)                     |
| 1000  | —              | 8.4 (213)                     |
| 1200  | 600            | 9.0 (229)                     |
| 1350  | 800            | 9.6 (245)                     |
| 1600  | 1000           | 10.6 (270)                    |
| 2000  | 1200,1350      | 12.1 (312)                    |
| —   | 1600           | 12.6 (321)                    |
| 2500  | 2000           | 14.6 (372)                    |
| 3000  | —              | 15.8 (402)                    |
| 3200  | —              | 17.3 (439)                    |
| 4000  | 2500,3000,3200 | 19.3 (490)                    |
| 5000  | 4000           | 23.3 (592)                    |

### Phase-Rotation Fittings

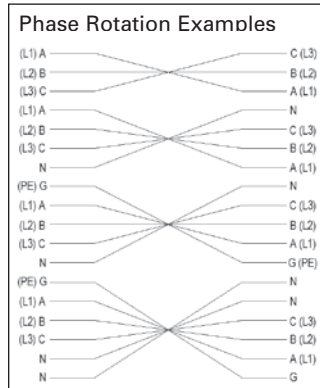
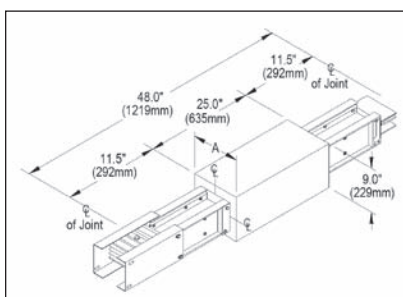
Phase-rotation fittings can be used when the application requires a phase rotation in the power supply. Phase rotation fittings can be ordered for "phase and ground", "phase only" and "ground only" rotations.

#### Phase Rotation Fitting

##### Suffix TRPG, Phase and Ground

##### TRPO, Phase Only

##### TRGO, Ground Only



# Sentron® Busway Systems – Reference Information

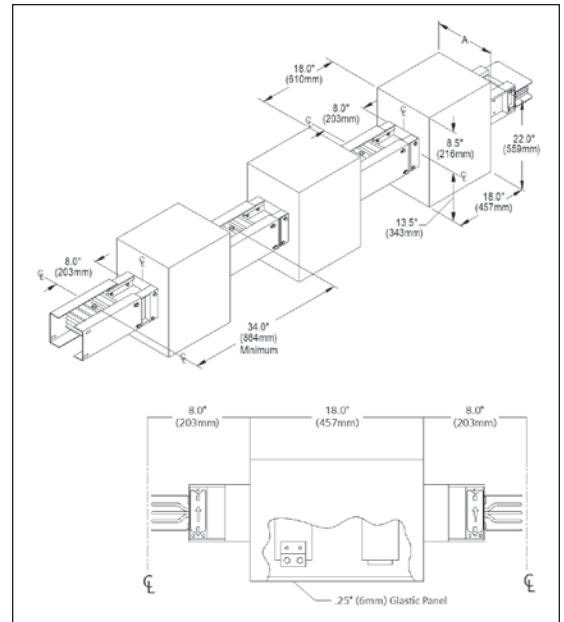
## Service Heads

## Selection

Service Heads are used to connect busway to a service entrance. In the Sentron Busway line, 3 single-phase service heads and 3-phase service head connections are available. The standard service entrance connection is the 3-phase service head which consists of one service head for all three phases. 3 single-phase service heads consist of three heads – one for each phase and may be used to meet the requirements of certain applications. To ensure ease of installation of incoming cables, both types of Sentron service heads are constructed so that the lugs face the Glastic bottom of the box. The Glastic bottom provides insulation and protection to the incoming cables.

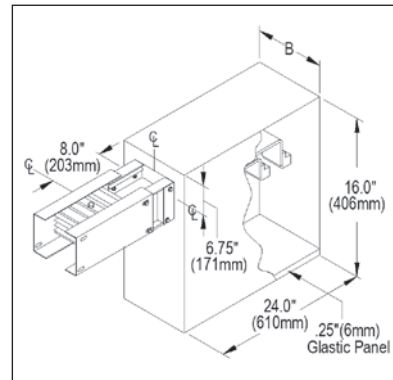
| Single-Phase Service Heads, Dimensions (standard/min.) |                |                        |  |                                  |      |                          |
|--|----------------|------------------------|--|----------------------------------|------|--------------------------|
| Ampere Rating  |                | Dimensions Inches (mm) |  | Cable Lugs per Phase and Neutral |      | Ground Lugs <sup>①</sup> |
|  |                | Single-Phase "A"       |  | Qty.                             | Size |                          |
| <b>AL L-Rated</b>                                      |                |                        |  |                                  |      |                          |
| 225  |                | 13 (330)               |  | 1                                | ①    | 1                        |
| 400  | 225            | 13 (330)               |  | 1                                | ②    | 1                        |
| 600  | —              | 13 (330)               |  | 2                                | ②    | 1                        |
| 800  | 400            | 13 (330)               |  | 3                                | ②    | 1                        |
| 1000   | 600            | 13 (330)               |  | 4                                | ②    | 1                        |
| 1200   | 800            | 18 (457)               |  | 4                                | ②    | 1                        |
| 1350   | 1000           | 18 (457)               |  | 4                                | ②    | 1                        |
| 1600   | 1200           | 18 (457)               |  | 5                                | ②    | 1                        |
| 2000   | 1350,1600      | 20 (508)               |  | 6                                | ②    | 2                        |
| 2500   | 2000           | 27 (686)               |  | 8                                | ②    | 2                        |
| 3000   | 2500           | 29 (737)               |  | 9                                | ②    | 2                        |
| 3200   | 2000           | 29 (737)               |  | 9                                | ②    | 2                        |
| 4000   | 3000,3200      | 29 (737)               |  | 12                               | ②    | 3                        |
| <b>CU M-Rated</b>                                      |                |                        |  |                                  |      |                          |
| 225  |                | 13 (330)               |  | 1                                | ①    | 1                        |
| 400  |                | 13 (330)               |  | 1                                | ②    | 1                        |
| 600  |                | 13 (330)               |  | 2                                | ②    | 1                        |
| 800  | 400            | 13 (330)               |  | 3                                | ②    | 1                        |
| 1000   | —              | 13 (330)               |  | 4                                | ②    | 1                        |
| 1200   | 600            | 13 (330)               |  | 4                                | ②    | 1                        |
| 1350   | 800            | 13 (330)               |  | 4                                | ②    | 1                        |
| 1600   | 1000           | 18 (457)               |  | 5                                | ②    | 1                        |
| 2000   | 1200,1350      | 20 (508)               |  | 6                                | ②    | 2                        |
| —  | 1600           | 18 (457)               |  | 5                                | ②    | 1                        |
| 2500   | 2000           | 20 (508)               |  | 8                                | ②    | 2                        |
| 3000   | —              | 27 (686)               |  | 9                                | ②    | 2                        |
| 3200   | —              | 27 (686)               |  | 9                                | ②    | 2                        |
| 4000   | 2500,3000,3200 | 27 (686)               |  | 12                               | ②    | 3                        |
| 5000   | 4000           | 29 (737)               |  | 15                               | ②    | 4                        |

### Three Single-Phase Service Heads Suffix V1TX



| Three-Phase Service Heads, Dimensions (standard/min.) |                |                        |  |                                  |      |                          |
|---|----------------|------------------------|--|----------------------------------|------|--------------------------|
| Ampere Rating   |                | Dimensions Inches (mm) |  | Cable Lugs per Phase and Neutral |      | Ground Lugs <sup>①</sup> |
|   |                | Three-Phase "B"        |  | Qty.                             | Size |                          |
| <b>AL L-Rated</b>                                     |                |                        |  |                                  |      |                          |
| 225   |                | 13 (330)               |  | 1                                | ①    | 1                        |
| 400   | 225            | 13 (330)               |  | 1                                | ②    | 1                        |
| 600   | —              | 13 (330)               |  | 2                                | ②    | 1                        |
| 800   | 400            | 13 (330)               |  | 3                                | ②    | 1                        |
| 1000  | 600            | 13 (330)               |  | 4                                | ②    | 1                        |
| 1200  | 800            | 18 (457)               |  | 4                                | ②    | 1                        |
| 1350  | 1000           | 18 (457)               |  | 4                                | ②    | 1                        |
| 1600  | 1200           | 18 (457)               |  | 5                                | ②    | 1                        |
| 2000  | 1350,1600      | 18 (457)               |  | 6                                | ②    | 2                        |
| 2500  | 2000           | 27 (686)               |  | 8                                | ②    | 2                        |
| 3000  | 2500           | 27 (686)               |  | 9                                | ②    | 2                        |
| 3200  | 2000           | 27 (686)               |  | 9                                | ②    | 2                        |
| 4000  | 3000,3200      | 29 (737)               |  | 12                               | ②    | 3                        |
| <b>CU M-Rated</b>                                     |                |                        |  |                                  |      |                          |
| 225   |                | 13 (330)               |  | 1                                | ①    | 1                        |
| 400   |                | 13 (330)               |  | 1                                | ②    | 1                        |
| 600   |                | 13 (330)               |  | 2                                | ②    | 1                        |
| 800   | 400            | 13 (330)               |  | 3                                | ②    | 1                        |
| 1000  | —              | 13 (330)               |  | 4                                | ②    | 1                        |
| 1200  | 600            | 13 (330)               |  | 4                                | ②    | 1                        |
| 1350  | 800            | 13 (330)               |  | 4                                | ②    | 1                        |
| 1600  | 1000           | 18 (457)               |  | 5                                | ②    | 1                        |
| 2000  | 1200,1350      | 18 (457)               |  | 6                                | ②    | 2                        |
| —   | 1600           | 18 (457)               |  | 5                                | ②    | 1                        |
| 2500  | 2000           | 18 (457)               |  | 8                                | ②    | 2                        |
| 3000  | —              | 27 (686)               |  | 9                                | ②    | 2                        |
| 3200  | —              | 27 (686)               |  | 9                                | ②    | 2                        |
| 4000  | 2500,3000,3200 | 27 (686)               |  | 12                               | ②    | 3                        |
| 5000  | 4000           | 29 (737)               |  | 15                               | ②    | 4                        |

### Three-Phase Service Head Suffix V3TX



① #6 AWG - 350 kcmil, Cu / Al.

② #4 AWG - 600 kcmil, Cu / Al.



# Sentron® Busway Systems – Reference Information

Hangers

Selection

## Trapeze Hanger—Aluminum (AL) and Copper (CU)

| Ampere Rating |                | "A" Dimensions |                             |
|---------------|----------------|----------------|-----------------------------|
|               |                | Inches (mm)    | Flat Mounted                |
|               |                |                | Catalog Number <sup>Ⓛ</sup> |
| <b>AL</b>     | <b>L-Rated</b> |                |                             |
| 225           | —              | 10.0 (254)     | <b>SXTH1</b>                |
| 400           | —              | 10.0 (254)     | <b>SXTH1</b>                |
| 600           | —              | 10.0 (254)     | <b>SXTH1</b>                |
| 800           | 400            | 10.0 (254)     | <b>SXTH1</b>                |
| 1000          | 600            | 10.0 (254)     | <b>SXTH1</b>                |
| 1200          | 800            | 10.0 (254)     | <b>SXTH1</b>                |
| 1350          | 1000           | 13.5 (343)     | <b>SXTH2</b>                |
| 1600          | 1200           | 13.5 (343)     | <b>SXTH2</b>                |
| 2000          | 1350,1600      | 13.5 (343)     | <b>SXTH2</b>                |
| 2500          | 2000           | 13.5 (343)     | <b>SXTH3</b>                |
| 3000          | 2500           | 13.5 (343)     | <b>SXTH3</b>                |
| 3200          | 2000           | 13.5 (343)     | <b>SXTH3</b>                |
| 4000          | 3000,3200      | 23.0 (584)     | <b>SXTH4</b>                |
| <b>CU</b>     | <b>M-Rated</b> |                |                             |
| 225           | —              | 10.0 (254)     | <b>SXTH1</b>                |
| 400           | —              | 10.0 (254)     | <b>SXTH1</b>                |
| 600           | —              | 10.0 (254)     | <b>SXTH1</b>                |
| 800           | 400            | 10.0 (254)     | <b>SXTH1</b>                |
| 1000          | —              | 10.0 (254)     | <b>SXTH1</b>                |
| 1200          | 600            | 10.0 (254)     | <b>SXTH1</b>                |
| 1350          | 800            | 10.0 (254)     | <b>SXTH1</b>                |
| 1600          | 1000           | 10.0 (254)     | <b>SXTH1</b>                |
| 2000          | 1200,1350      | 13.5 (343)     | <b>SXTH2</b>                |
| —             | 1600           | 13.5 (343)     | <b>SXTH2</b>                |
| 2500          | 2000           | 13.5 (343)     | <b>SXTH2</b>                |
| 3000          | —              | 18.5 (470)     | <b>SXTH3</b>                |
| 3200          | —              | 18.5 (470)     | <b>SXTH3</b>                |
| 4000          | 2500,3000,3200 | 18.5 (470)     | <b>SXTH3</b>                |
| 5000          | 4000           | 23.0 (584)     | <b>SXTH4</b>                |

Ⓛ Use SXTH1 for Edge Mounted.

## Spring Hanger—Aluminum (AL) and Copper (CU)

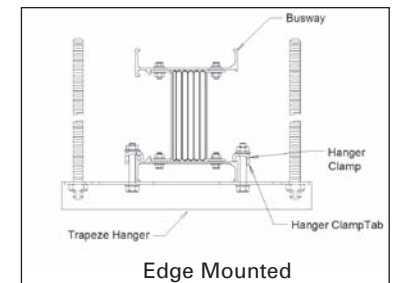
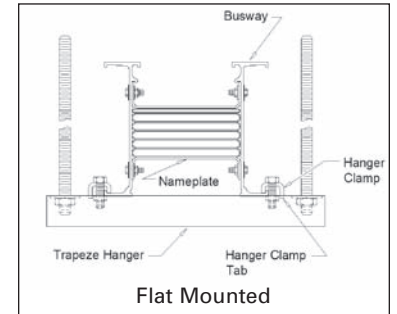
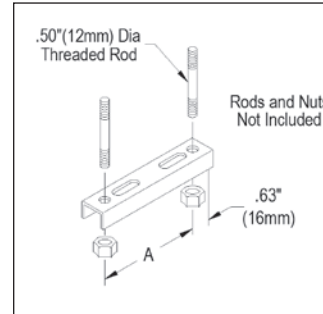
| Ampere Rating |                  | Floor to Ceiling Height (ft.) |                                     |                                     |                                     |                                     |
|---------------|------------------|-------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
|               |                  | 10                            | 12                                  | 14                                  | 16                                  | 18                                  |
| <b>AL</b>     | <b>L-Rated</b>   |                               |                                     |                                     |                                     |                                     |
| 225           | —                | SXSH4                         | SXSH4                               | SXSH4                               | SXSH4                               | SXSH4                               |
| 400           | —                | SXSH4                         | SXSH4                               | SXSH4                               | SXSH4                               | SXSH4                               |
| 600           | —                | SXSH4                         | SXSH4                               | SXSH4                               | SXSH4                               | SXSH4                               |
| 800           | 400              | SXSH4                         | SXSH4                               | SXSH4                               | SXSH6                               | SXSH6                               |
| 1000          | 600              | SXSH4                         | SXSH4                               | SXSH4                               | SXSH6                               | SXSH6                               |
| 1200          | 800              | SXSH4                         | SXSH4                               | SXSH4                               | SXSH6                               | SXSH6                               |
| 1350          | 1000             | SXSH4                         | SXSH4                               | SXSH6                               | SXSH6                               | SXSH6                               |
| 1600          | 1200             | SXSH8                         | SXSH8                               | SXSH8                               | SXSH8                               | SXSH8                               |
| 2000          | 1350,1600        | SXSH8                         | SXSH8                               | SXSH8                               | SXSH8                               | SXSH8                               |
| 2500          | 2000             | SXSH8                         | SXSH8                               | SXSH8                               | SXSH10                              | SXSH10                              |
| 3000          | 2500             | SXSH8                         | SXSH8                               | SXSH10                              | SXSH10                              | SXSH10                              |
| 3200          | 2000             | SXSH8                         | SXSH8                               | SXSH10                              | SXSH10                              | SXSH10                              |
| 4000          | 3000,3200        | SXSH8                         | SXSH10                              | SXSH10                              | SXSH10                              | SXSH12                              |
| <b>CU</b>     | <b>M-Rated</b>   |                               |                                     |                                     |                                     |                                     |
| 225           | —                | SXSH4                         | SXSH4                               | SXSH4                               | SXSH4                               | SXSH4                               |
| 400           | —                | SXSH4                         | SXSH4                               | SXSH4                               | SXSH4                               | SXSH4                               |
| 600           | —                | SXSH4                         | SXSH4                               | SXSH4                               | SXSH4                               | SXSH4                               |
| 800           | 400              | SXSH4                         | SXSH4                               | SXSH6                               | SXSH6                               | SXSH6                               |
| 1000          | —                | SXSH4                         | SXSH6                               | SXSH6                               | SXSH6                               | SXSH8                               |
| 1200          | 600              | SXSH6                         | SXSH6                               | SXSH6                               | SXSH8                               | SXSH8                               |
| 1350          | 800              | SXSH6                         | SXSH6                               | SXSH6                               | SXSH8                               | SXSH8                               |
| 1600          | 1000             | SXSH8                         | SXSH8                               | SXSH10                              | SXSH10                              | SXSH10                              |
| 2000          | 1200,1350        | SXSH8                         | SXSH10                              | SXSH10                              | SXSH10                              | SXSH12                              |
| 2500          | 2000             | SXSH10                        | SXSH12                              | SXSH12                              | SXSH12                              | SXSH14                              |
| 3000          | —                | SXSH10                        | SXSH12                              | SXSH12                              | SXSH14                              | SXSH14                              |
| 3200          | —                | SXSH12                        | SXSH12                              | SXSH14                              | SXSH14                              | SXSH12 + 1.25" Preload <sup>Ⓛ</sup> |
| 4000          | 2500, 3000, 3200 | SXSH12                        | SXSH14                              | SXSH14                              | SXSH16 <sup>Ⓛ</sup>                 | SXSH14 + 1.25" Preload <sup>Ⓛ</sup> |
| 5000          | 4000             | SXSH14                        | SXSH12 + 1.25" Preload <sup>Ⓛ</sup> | SXSH14 + 1.25" Preload <sup>Ⓛ</sup> | SXSH16 + 1.25" Preload <sup>Ⓛ</sup> | SXSH16 + 1.5" Preload <sup>Ⓛ</sup>  |

Ⓛ Not Documented

Assuming 3P4W busway with no additional busway-supported weight per floor. This information is confirmed during the quotation process, for additional information please contact your local Siemens Sales representative.

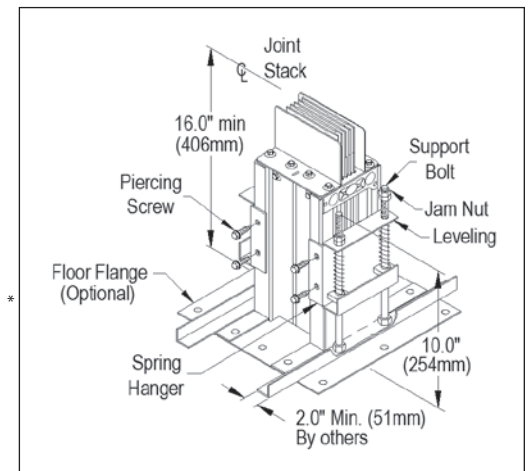
## Trapeze Hanger

A complete offering of hangers is available to support Sentron Busway in both vertical and horizontal applications. Standard trapeze hangers support Sentron Busway in horizontal applications on 10 ft. (3.05m) centers. Additional hangers may be used if structural requirements mandate their use. The contractor must supply drop rods to complete assembly for trapeze hangers.



## Spring Hanger

Spring hangers and floor support hangers must be used to provide secure mounting of the busway run in vertical applications. Spring hangers support the weight of the busway on each floor and also compensate for minimal building movement and thermal expansion. Maximum distance between spring hangers may not exceed 16 ft. (4.88m). When ordering 18 ft. (5.49m) floor to ceiling height assemblies, intermediate support hangers are necessary.



\*Note: Flanges do not offer support to the busway. Flanges provide a means of covering the hole created in the existing structure.

# Sentron® Busway Systems – Reference Information

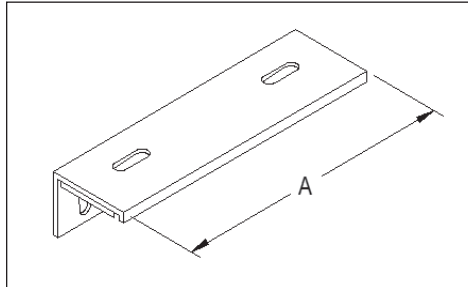
## Hangers

Selection

| Structural Steel Hanger, Dimensions and Catalog Numbers |                |                            |                |
|---|----------------|----------------------------|----------------|
| Ampere Rating   |                | "A" Dimensions Inches (mm) | Catalog Number |
| <b>AL</b>   | <b>L-Rated</b> |                            |                |
| 225   | —              | 10.0 (254)                 | <b>SXSS1</b>   |
| 400   | —              | 10.0 (254)                 | <b>SXSS1</b>   |
| 600   | —              | 10.0 (254)                 | <b>SXSS1</b>   |
| 800   | 400            | 10.0 (254)                 | <b>SXSS1</b>   |
| 1000  | 600            | 10.0 (254)                 | <b>SXSS1</b>   |
| 1200  | 800            | 10.0 (254)                 | <b>SXSS1</b>   |
| 1350  | 1000           | 13.5 (343)                 | <b>SXSS2</b>   |
| 1600  | 1200           | 13.5 (343)                 | <b>SXSS2</b>   |
| 2000  | 1350,1600      | 13.5 (343)                 | <b>SXSS2</b>   |
| 2500  | 2000           | 18.5 (470)                 | <b>SXSS3</b>   |
| 3000  | 2500           | 18.5 (470)                 | <b>SXSS3</b>   |
| 3200  | 2000           | 18.5 (470)                 | <b>SXSS3</b>   |
| 4000  | 3000,3200      | 23.0 (584)                 | <b>SXSS4</b>   |
| <b>CU</b>   | <b>M-Rated</b> |                            |                |
| 225   | —              | 10.0 (254)                 | <b>SXSS1</b>   |
| 400   | —              | 10.0 (254)                 | <b>SXSS1</b>   |
| 600   | —              | 10.0 (254)                 | <b>SXSS1</b>   |
| 800   | 400            | 10.0 (254)                 | <b>SXSS1</b>   |
| 1000  | —              | 10.0 (254)                 | <b>SXSS1</b>   |
| 1200  | 600            | 10.0 (254)                 | <b>SXSS1</b>   |
| 1350  | 800            | 10.0 (254)                 | <b>SXSS1</b>   |
| 1600  | 1000           | 10.0 (254)                 | <b>SXSS1</b>   |
| 2000  | 1200,1350      | 13.5 (343)                 | <b>SXSS2</b>   |
| —   | 1600           | 13.5 (343)                 | <b>SXSS2</b>   |
| 2500  | 2000           | 13.5 (343)                 | <b>SXSS2</b>   |
| 3000  | —              | 13.5 (343)                 | <b>SXSS2</b>   |
| 3200  | —              | 13.5 (343)                 | <b>SXSS2</b>   |
| 4000  | 2500,3000,3200 | 13.5 (343)                 | <b>SXSS2</b>   |
| 5000  | 4000           | 23.0 (584)                 | <b>SXSS4</b>   |

### Structural Steel Hanger

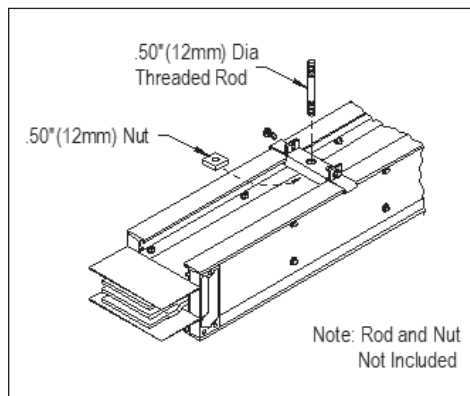
A complete offering of hangers is available to support Sentron Busway in both vertical and horizontal applications. Structural Steel hangers support Sentron Busway in horizontal applications on 10 ft. (3.05m) centers. Additional hangers may be used if structural requirements mandate their use.



| Single Drop Rod Hanger, Catalog Numbers |                |                |
|---|----------------|----------------|
| Ampere Rating                           |                | Catalog Number |
| <b>AL</b>                               | <b>L-Rated</b> |                |
| 225                                     | —              | <b>SXDRA1</b>  |
| 400                                     | —              | <b>SXDRA1</b>  |
| 600                                     | —              | <b>SXDRA1</b>  |
| 800                                     | 400            | <b>SXDRA2</b>  |
| 1000                                    | 600            | <b>SXDRA3</b>  |
| 1200                                    | 800            | <b>SXDRA4</b>  |
| 1350                                    | 1000           | <b>SXDRA5</b>  |
| 1600                                    | 1200           | <b>SXDRA6</b>  |
| 2000                                    | 1350,1600      | <b>SXDRA7</b>  |
| 2500                                    | 2000           | —              |
| 3000                                    | 2500           | —              |
| 3200                                    | 2000           | —              |
| 4000                                    | 3000,3200      | —              |
| <b>CU</b>                               | <b>M-Rated</b> |                |
| 225                                     | —              | <b>SXDRC1</b>  |
| 400                                     | —              | <b>SXDRC1</b>  |
| 600                                     | —              | <b>SXDRC1</b>  |
| 800                                     | 400            | <b>SXDRC1</b>  |
| 1000                                    | —              | <b>SXDRC2</b>  |
| 1200                                    | 600            | <b>SXDRC3</b>  |
| 1350                                    | 800            | <b>SXDRC4</b>  |
| 1600                                    | 1000           | <b>SXDRC5</b>  |
| 2000                                    | 1200,1350      | <b>SXDRC6</b>  |
| —                                       | 1600           | <b>SXDRC6</b>  |
| 2500                                    | 2000           | <b>SXDRC7</b>  |
| 3000                                    | —              | —              |
| 3200                                    | —              | —              |
| 4000                                    | 2500,3000,3200 | —              |
| 5000                                    | 4000           | —              |

### Single Drop Rod Hanger

A complete offering of hangers is available to support Sentron Busway in both vertical and horizontal applications. Single drop rod hangers support Sentron Busway in horizontal applications on 10 ft. (3.05m) centers. Additional hangers may be used if structural requirements mandate their use. The contractor must supply drop rods to complete assembly for single drop rod hangers.



Note: Drop rod hangers can only be used when phase arrows are pointing up.

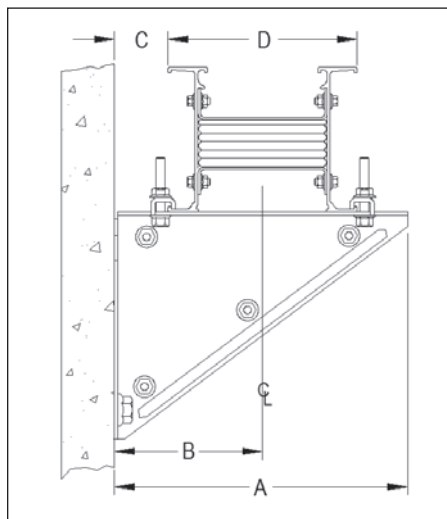
# Sentron® Busway Systems – Reference Information

| Wall Mounted Hanger, Dimensions and Catalog Numbers |                |                        |            |           |                |
|---|----------------|------------------------|------------|-----------|----------------|
| Ampere Rating                                       |                | Dimensions Inches (mm) |            |           | Catalog Number |
|   |                | "A"                    | "B"        | "C"       |                |
| <b>AL</b>   | <b>L-Rated</b> |                        |            |           |                |
| 225   | —              | 12.3 (311)             | 6.1 (156)  | 4.2 (107) | <b>SXWH1</b>   |
| 400   | —              | 12.3 (311)             | 6.1 (156)  | 4.2 (107) | <b>SXWH1</b>   |
| 600   | —              | 12.3 (311)             | 6.1 (156)  | 4.2 (107) | <b>SXWH1</b>   |
| 800   | 400            | 12.3 (311)             | 6.1 (156)  | 3.8 (97)  | <b>SXWH1</b>   |
| 1000  | 600            | 12.3 (311)             | 6.1 (156)  | 3.8 (97)  | <b>SXWH1</b>   |
| 1200  | 800            | 12.3 (311)             | 6.1 (156)  | 2.8 (72)  | <b>SXWH1</b>   |
| 1350  | 1000           | 16.3 (413)             | 8.1 (206)  | 4.4 (111) | <b>SXWH2</b>   |
| 1600  | 1200           | 16.3 (413)             | 8.1 (206)  | 3.9 (98)  | <b>SXWH2</b>   |
| 2000  | 1350,1600      | 16.3 (413)             | 8.1 (206)  | 2.8 (70)  | <b>SXWH2</b>   |
| 2500  | 2000           | 20.8 (527)             | 10.4 (264) | 3.6 (92)  | <b>SXWH3</b>   |
| 3000  | 2500           | 20.8 (527)             | 10.4 (264) | 2.5 (64)  | <b>SXWH3</b>   |
| 3200  | 2000           | 20.8 (527)             | 10.4 (264) | 1.8 (46)  | <b>SXWH3</b>   |
| 4000  | 3000,3200      | 25.3 (641)             | 12.6 (321) | 2.5 (64)  | <b>SXWH4</b>   |
| <b>CU</b>   | <b>M-Rated</b> |                        |            |           |                |
| 225   | —              | 12.3 (311)             | 6.1 (156)  | 4.2 (107) | <b>SXWH1</b>   |
| 400   | —              | 12.3 (311)             | 6.1 (156)  | 4.2 (107) | <b>SXWH1</b>   |
| 600   | —              | 12.3 (311)             | 6.1 (156)  | 4.2 (107) | <b>SXWH1</b>   |
| 800   | 400            | 12.3 (311)             | 6.1 (156)  | 3.8 (97)  | <b>SXWH1</b>   |
| 1000  | —              | 12.3 (311)             | 6.1 (156)  | 3.8 (97)  | <b>SXWH1</b>   |
| 1200  | 600            | 12.3 (311)             | 6.1 (156)  | 2.8 (72)  | <b>SXWH1</b>   |
| 1350  | 800            | 12.3 (311)             | 6.1 (156)  | 2.8 (72)  | <b>SXWH1</b>   |
| 1600  | 1000           | 12.3 (311)             | 6.1 (156)  | 2.8 (72)  | <b>SXWH1</b>   |
| 2000  | 1200,1350      | 16.3 (413)             | 8.1 (206)  | 4.4 (111) | <b>SXWH2</b>   |
| —   | 1600           | 16.3 (413)             | 8.1 (206)  | 3.9 (98)  | <b>SXWH2</b>   |
| 2500  | 2000           | 16.3 (413)             | 8.1 (206)  | 2.8 (70)  | <b>SXWH2</b>   |
| 3000  | —              | 20.8 (527)             | 10.4 (264) | 3.6 (92)  | <b>SXWH3</b>   |
| 3200  | —              | 20.8 (527)             | 10.4 (264) | 2.5 (64)  | <b>SXWH3</b>   |
| 4000  | 2500,3000,3200 | 20.8 (527)             | 10.4 (264) | 1.8 (46)  | <b>SXWH3</b>   |
| 5000  | 4000           | 25.3 (641)             | 12.6 (321) | 2.5 (64)  | <b>SXWH4</b>   |

## Wall Mounted Hanger

Wall Mounted Hangers are used for horizontal applications close to a wall. The busway can be mounted either edgewise or flatwise to the wall.

Wall Mounted Hanger ensures the minimum clearance between the wall and the busway run.



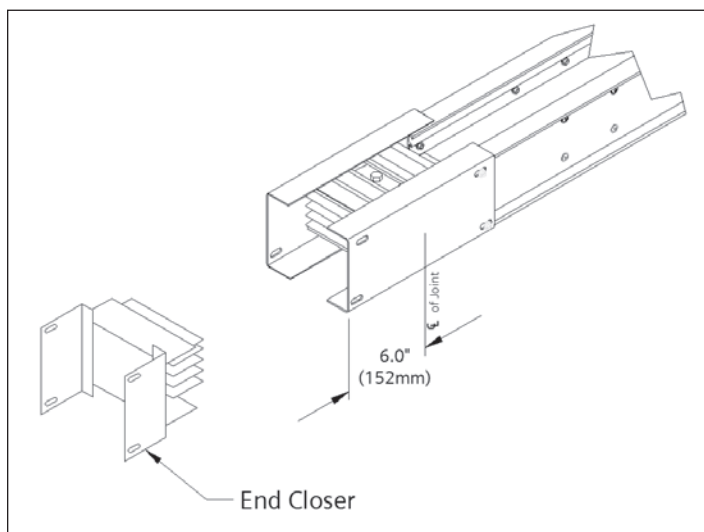
## End Closers

End closers safely terminate a busway run and protect the bus bar ends. End closers may be removed easily in order to extend a busway run. End closers are shipped with Glastic insulation pieces, however, joint stacks and inspection covers are not included.

### End Closers

(Joint stack and covers not included)

Suffix ECLS





# Sentron® Busway Systems – Reference Information

## Roof, Wall, Ceiling and Floor Flanges

Selection

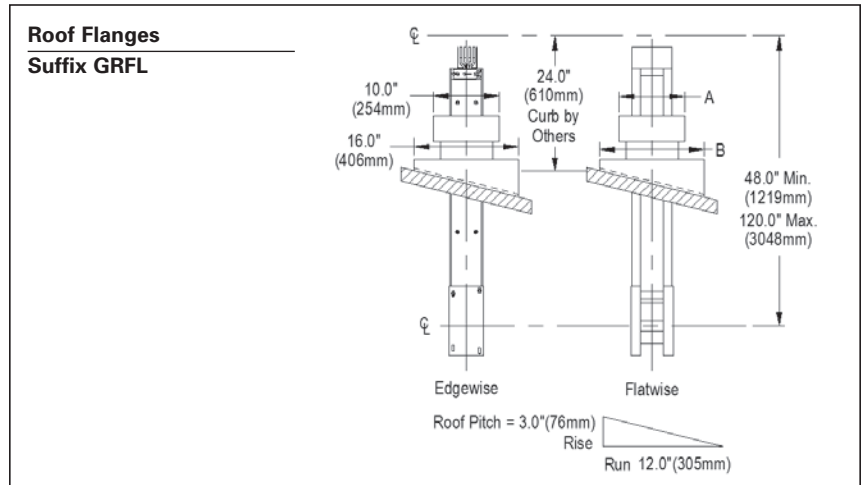
Roof, wall, ceiling and floor flanges are available for Sentron Busway. When the busway run passes through a roof, wall or ceiling, a flange should be used. Flanges do not offer support to the busway. Flanges provide a means of covering the hole

created in the existing structure. Additional sealant may be required to meet fire codes and all other local requirements. No caulking or gasketing is provided with Sentron flanges.

| Roof Flanges, Dimensions |                | Dimensions Inches (mm) |            |
|--------------------------|----------------|------------------------|------------|
| Ampere Rating            |                | "A"                    | "B"        |
| <b>AL</b>                | <b>L-Rated</b> |                        |            |
| 225                      | —              | 12 (305)               | 18 (457)   |
| 400                      | —              | 12 (305)               | 18 (457)   |
| 600                      | —              | 12 (305)               | 18 (457)   |
| 800                      | 400            | 12 (305)               | 18 (457)   |
| 1000                     | 600            | 12 (305)               | 18 (457)   |
| 1200                     | 800            | 12 (305)               | 18 (457)   |
| 1350                     | 1000           | 16 (406)               | 22 (559)   |
| 1600                     | 1200           | 16 (406)               | 22 (559)   |
| 2000                     | 1350,1600      | 16 (406)               | 22 (559)   |
| 2500                     | 2000           | 20.5 (521)             | 22 (559)   |
| 3000                     | 2500           | 20.5 (521)             | 26.5 (673) |
| 3200                     | 2000           | 20.5 (521)             | 26.5 (673) |
| 4000                     | 3000,3200      | 25 (635)               | 31 (787)   |
| <b>CU</b>                | <b>M-Rated</b> |                        |            |
| 225                      | —              | 12 (305)               | 18 (457)   |
| 400                      | —              | 12 (305)               | 18 (457)   |
| 600                      | —              | 12 (305)               | 18 (457)   |
| 800                      | 400            | 12 (305)               | 18 (457)   |
| 1000                     | —              | 12 (305)               | 18 (457)   |
| 1200                     | 600            | 12 (305)               | 18 (457)   |
| 1350                     | 800            | 12 (305)               | 18 (457)   |
| 1600                     | 1000           | 12 (305)               | 18 (457)   |
| 2000                     | 1200,1350      | 16 (406)               | 22 (559)   |
| —                        | 1600           | 16 (406)               | 22 (559)   |
| 2500                     | 2000           | 16 (406)               | 22 (559)   |
| 3000                     | —              | 20.5 (521)             | 26.5 (673) |
| 3200                     | —              | 20.5 (521)             | 26.5 (673) |
| 4000                     | 2500,3000,3200 | 20.5 (521)             | 26.5 (673) |
| 5000                     | 4000           | 25 (635)               | 31 (787)   |

### Roof Flanges

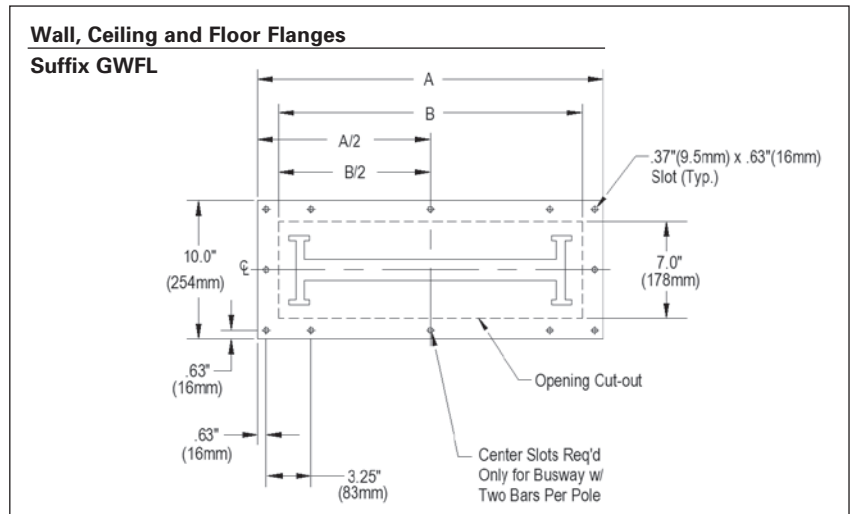
Roof flanges are available for Sentron Busway. When the busway run passes through a roof, a flange should be used. Flanges provide a means of covering the hole created in the existing structure. Additional sealant may be required to meet fire codes and all other local requirements. No caulking or gasketing is provided with Sentron flanges. Roof flanges provide a watertight seal for use with NEMA 3R and IP66 rated busway. Roof pitch must be indicated on drawings when ordering roof flanges.



| Wall, Ceiling and Floor Flanges, Dimensions |                | Dimensions Inches (mm) |          |
|---|----------------|------------------------|----------|
| Ampere Rating                               |                | "A"                    | "B"      |
| <b>AL</b>                                   | <b>L-Rated</b> |                        |          |
| 225   | —              | 11 (279)               | 7 (178)  |
| 400   | —              | 11 (279)               | 7 (178)  |
| 600   | —              | 11 (279)               | 7 (178)  |
| 800   | 400            | 11 (279)               | 7 (178)  |
| 1000  | 600            | 12 (305)               | 8 (203)  |
| 1200  | 800            | 13 (330)               | 9 (229)  |
| 1350  | 1000           | 14 (356)               | 10 (254) |
| 1600  | 1200           | 15 (381)               | 11 (279) |
| 2000  | 1350,1600      | 17 (432)               | 13 (330) |
| 2500  | 2000           | 20 (508)               | 16 (406) |
| 3000  | 2500           | 22 (559)               | 18 (457) |
| 3200  | 2000           | 24 (610)               | 20 (508) |
| 4000  | 3000,3200      | 26 (660)               | 22 (559) |
| <b>CU</b>                                   | <b>M-Rated</b> |                        |          |
| 225   | —              | 10 (254)               | 6 (152)  |
| 400   | —              | 10 (254)               | 6 (152)  |
| 600   | —              | 10 (254)               | 6 (152)  |
| 800   | 400            | 10 (254)               | 6 (152)  |
| 1000  | —              | 11 (279)               | 7 (178)  |
| 1200  | 600            | 12 (305)               | 8 (203)  |
| 1350  | 800            | 12 (305)               | 8 (203)  |
| 1600  | 1000           | 13 (330)               | 9 (229)  |
| 2000  | 1200,1350      | 15 (381)               | 11 (279) |
| —   | 1600           | 15 (381)               | 11 (279) |
| 2500  | 2000           | 17 (432)               | 13 (330) |
| 3000  | —              | 18 (457)               | 14 (356) |
| 3200  | —              | 19 (483)               | 15 (381) |
| 4000  | 2500,3000,3200 | 21 (533)               | 17 (432) |
| 5000  | 4000           | 26 (660)               | 22 (559) |

### Wall, Ceiling and Floor Flanges

Wall/Floor flanges are available for Sentron Busway. When the busway run passes through a wall, ceiling or floor, a flange should be used. Flanges do not offer support to the busway. Flanges provide a means of covering the hole created in the existing structure. Additional sealant may be required to meet fire codes and all other local requirements. No caulking or gasketing is provided with Sentron flanges.



# Sentron® Busway Systems – Reference Information

## Flanged Ends

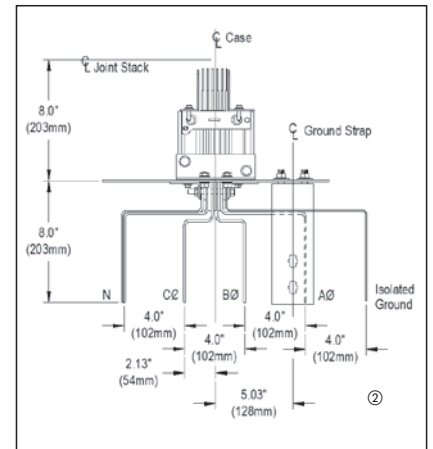
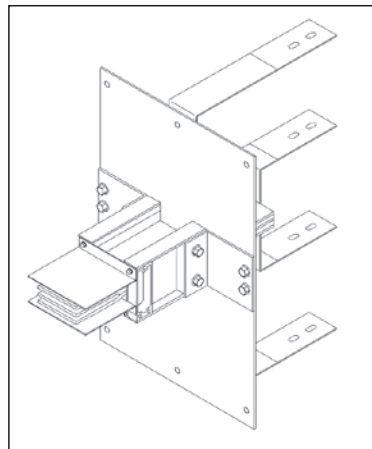
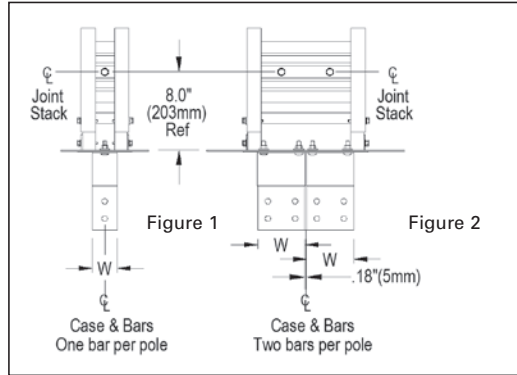
Selection

Flanged ends provide a direct connection to low-voltage switchgear, switchboards, motor control centers, large power panels, and other electrical distribution equipment.

Flanged ends are shipped with one joint stack assembly. The switchgear manufacture supplies lugs and mounting hardware. See illustration for flanged end drilling patterns.

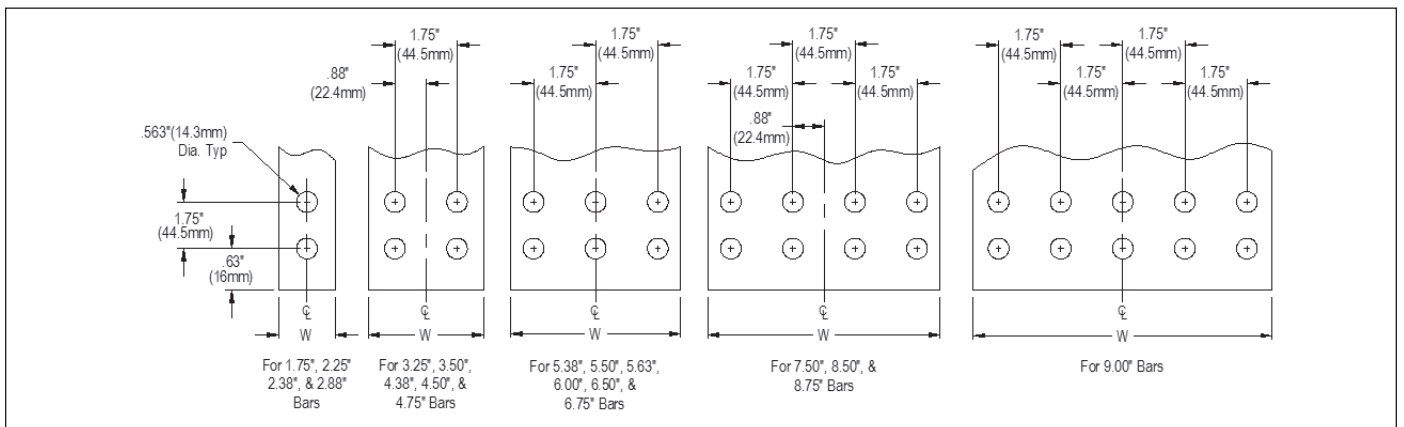
| Flanged End, Dimensions |                | Dimensions Inches (mm) |          |
|-------------------------|----------------|------------------------|----------|
| Ampere Rating           |                | "W"                    | Fig. No. |
| <b>AL</b>               | <b>L-Rated</b> |                        |          |
| 225                     | —              | 1.75 (44.4)            | 1        |
| 400                     | —              | 1.75 (44.4)            | 1        |
| 600                     | —              | 1.75 (44.4)            | 1        |
| 800                     | 400            | 2.38 (60.5)            | 1        |
| 1000                    | 600            | 3.25 (82.6)            | 1        |
| 1200                    | 800            | 4.38 (111.3)           | 1        |
| 1350                    | 1000           | 5.38 (136.7)           | 1        |
| 1600                    | 1200           | 6.50 (165.1)           | 1        |
| 2000                    | 1350,1600      | 8.75 (222.3)           | 1        |
| 2500                    | 2000           | 5.63 (143.0)           | 2        |
| 3000                    | 2500           | 6.75 (171.5)           | 2        |
| 3200                    | 2000           | 6.75 (171.5)           | 2        |
| 4000                    | 3000,3200      | 9.00 (228.6)           | 2        |
| <b>CU</b>               | <b>M-Rated</b> |                        |          |
| 225                     | —              | 1.75 (44.4)            | 1        |
| 400                     | —              | 1.75 (44.4)            | 1        |
| 600                     | —              | 1.75 (44.4)            | 1        |
| 800                     | 400            | 1.75 (44.4)            | 1        |
| 1000                    | —              | 2.25 (57.2)            | 1        |
| 1200                    | 600            | 2.88 (73.2)            | 1        |
| 1350                    | 800            | 3.50 (88.9)            | 1        |
| 1600                    | 1000           | 4.50 (114.3)           | 1        |
| 2000                    | 1200,1350      | 6.00 (152.4)           | 1        |
| —                       | 1600           | 6.50 (165.1)           | 1        |
| 2500                    | 2000           | 8.50 (215.9)           | 1        |
| 3000                    | —              | 4.75 (120.7)           | 2        |
| 3200                    | —              | 5.50 (139.7)           | 2        |
| 4000                    | 2500,3000,3200 | 6.50 (165.1)           | 2        |
| 5000                    | 4000           | 8.50 (215.9)           | 2        |

## Flanged End Suffix FRND



## Flanged End Bus Bar Drilling Pattern (NEMA)Ⓞ

(Same pattern for 2 bus bars per pole, see figure 2 above.)



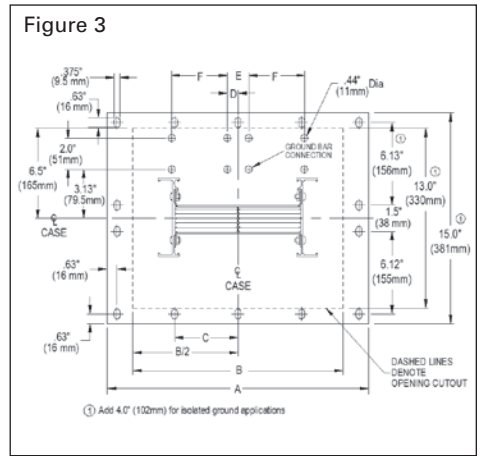
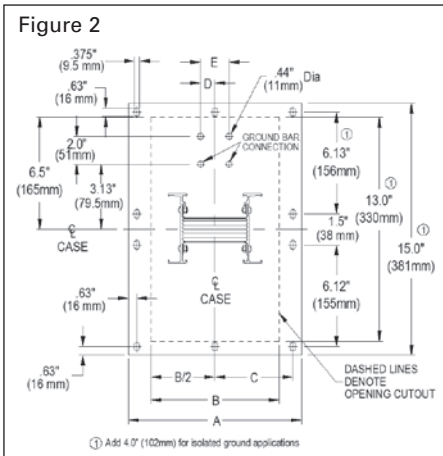
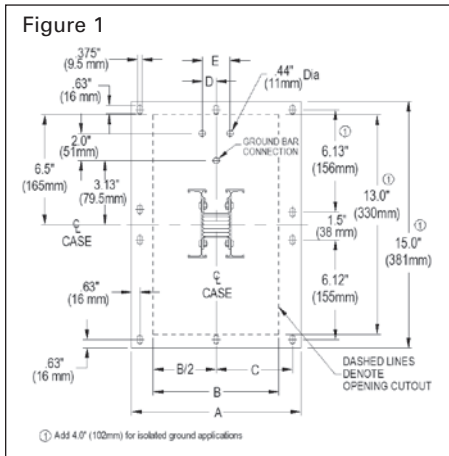
Ⓞ Other drilling patterns are available and must be specified at order entry.  
 Ⓜ See Figures 4, 5 and 6 on page 15-47.

# Sentron® Busway Systems – Reference Information

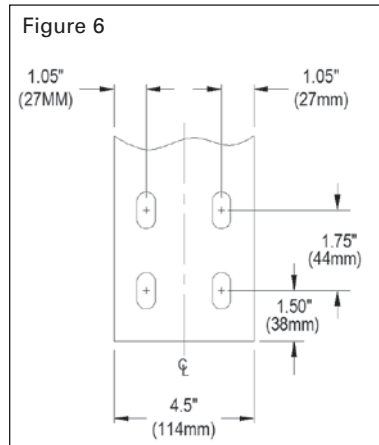
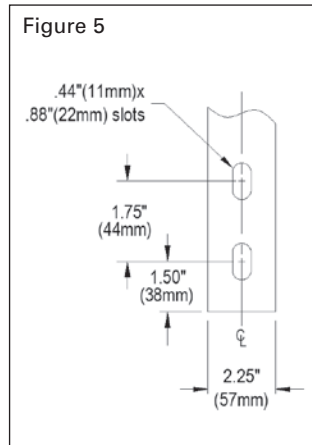
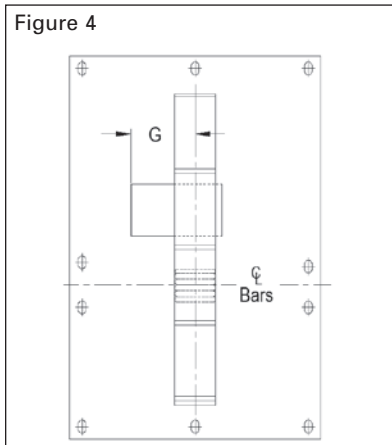
## Flanged Ends

## Selection

| Flanged End, Dimensions (standard/min.) |                |                        |          |             |             |            |           |            |            |             |          |
|---|----------------|------------------------|----------|-------------|-------------|------------|-----------|------------|------------|-------------|----------|
| Ampere Rating                           |                | Dimensions Inches (mm) |          |             |             |            |           |            |            |             |          |
|   |                | Ref. Bar Width         | Fig. No. | "A"         | "B"         | "C"        | "D"       | "E"        | "F"        | "G"         | Fig. No. |
| <b>AL L-Rated</b>                       |                |                        |          |             |             |            |           |            |            |             |          |
| 225                                     | —              | 2.38 (60.5)            | 1        | 10.0 (254)  | 8.00 (203)  | 4.38 (111) | 1.94 (49) | 3.88 (99)  | —          | 6.00 (152)  | 4, 5     |
| 400                                     | —              | 2.38 (60.5)            | 1        | 10.0 (254)  | 8.00 (203)  | 4.38 (111) | 1.94 (49) | 3.88 (99)  | —          | 6.00 (152)  | 4, 5     |
| 600                                     | —              | 2.38 (60.5)            | 1        | 10.0 (254)  | 8.00 (203)  | 4.38 (111) | 1.94 (49) | 3.88 (99)  | —          | 6.00 (152)  | 4, 5     |
| 800                                     | 400            | 2.38 (60.5)            | 1        | 10.0 (254)  | 8.00 (203)  | 4.38 (111) | 1.94 (49) | 3.88 (99)  | —          | 6.00 (152)  | 4, 5     |
| 1000                                    | 600            | 3.25 (82.6)            | 2        | 10.0 (254)  | 8.00 (203)  | 4.38 (111) | 1.94 (49) | 2.06 (52)  | —          | 6.00 (152)  | 4, 6     |
| 1200                                    | 800            | 4.38 (111.3)           | 2        | 15.50 (395) | 13.50 (343) | 7.13 (181) | 1.60 (41) | 3.19 (81)  | —          | 8.50 (216)  | 4, 6     |
| 1350                                    | 1000           | 5.38 (136.7)           | 2        | 15.50 (395) | 13.50 (343) | 7.13 (181) | 2.10 (53) | 4.19 (106) | —          | 8.50 (216)  | 4, 6     |
| 1600                                    | 1200           | 6.50 (165.1)           | 2        | 15.50 (395) | 13.50 (343) | 7.13 (181) | 2.66 (67) | 5.31 (135) | —          | 8.50 (216)  | 4, 6     |
| 2000                                    | 1350,1600      | 8.75 (222.3)           | 2        | 15.50 (395) | 13.50 (343) | 7.13 (181) | 3.78 (96) | 7.56 (192) | —          | 8.50 (216)  | 4, 6     |
| 2500                                    | 2000           | 5.63 (143.0)           | 3        | 20.0 (508)  | 18.00 (457) | 4.50 (114) | 0.68 (17) | 1.37 (36)  | 4.44 (113) | 13.25 (337) | 4, 6     |
| 3000                                    | 2500           | 6.75 (171.5)           | 3        | 20.0 (508)  | 18.00 (457) | 4.50 (114) | 0.68 (17) | 1.37 (36)  | 5.56 (141) | 13.25 (337) | 4, 6     |
| 3200                                    | 2000           | 7.50 (190.5)           | 3        | 24.0 (610)  | 22.0 (569)  | 5.50 (140) | 0.68 (17) | 1.37 (36)  | 6.32 (161) | 13.25 (337) | 4, 6     |
| 4000                                    | 3000,3200      | 9.00 (228.6)           | 3        | 24.0 (610)  | 22.0 (569)  | 5.50 (140) | 0.68 (17) | 1.37 (36)  | 7.81 (198) | 14.25 (362) | 4, 6     |
| <b>CU M-Rated</b>                       |                |                        |          |             |             |            |           |            |            |             |          |
| 225                                     | —              | 1.75 (44.4)            | 1        | 10.0 (254)  | 8.00 (203)  | 4.38 (111) | 1.63 (41) | 3.25 (83)  | —          | 6.00 (152)  | 4, 5     |
| 400                                     | —              | 1.75 (44.4)            | 1        | 10.0 (254)  | 8.00 (203)  | 4.38 (111) | 1.63 (41) | 3.25 (83)  | —          | 6.00 (152)  | 4, 5     |
| 600                                     | —              | 1.75 (44.4)            | 1        | 10.0 (254)  | 8.00 (203)  | 4.38 (111) | 1.63 (41) | 3.25 (83)  | —          | 6.00 (152)  | 4, 5     |
| 800                                     | 400            | 1.75 (44.4)            | 1        | 10.0 (254)  | 8.00 (203)  | 4.38 (111) | 1.63 (41) | 3.25 (83)  | —          | 6.00 (152)  | 4, 5     |
| 1000                                    | —              | 2.25 (57.2)            | 1        | 10.0 (254)  | 8.00 (203)  | 4.38 (111) | 1.88 (48) | 3.75 (95)  | —          | 6.00 (152)  | 4, 5     |
| 1200                                    | 600            | 2.88 (73.2)            | 2        | 10.0 (254)  | 8.00 (203)  | 4.38 (111) | 0.85 (21) | 1.69 (43)  | —          | 6.00 (152)  | 4, 6     |
| 1350                                    | 800            | 3.50 (88.9)            | 2        | 10.0 (254)  | 8.00 (203)  | 4.38 (111) | 1.16 (29) | 2.31 (59)  | —          | 6.00 (152)  | 4, 6     |
| 1600                                    | 1000           | 4.50 (114.3)           | 2        | 15.50 (395) | 13.50 (343) | 7.13 (181) | 1.66 (42) | 3.31 (84)  | —          | 8.50 (216)  | 4, 6     |
| 2000                                    | 1200,1350      | 6.00 (152.4)           | 2        | 15.50 (395) | 13.50 (343) | 7.13 (181) | 2.41 (62) | 4.81 (122) | —          | 8.50 (216)  | 4, 6     |
| —                                       | 1600           | 6.50 (165.1)           | 2        | 15.50 (395) | 13.50 (343) | 7.13 (181) | 2.66 (67) | 5.31 (135) | —          | 8.50 (216)  | 4, 6     |
| 2500                                    | 2000           | 8.50 (215.9)           | 1        | 15.50 (395) | 13.50 (343) | 7.13 (181) | 3.66 (93) | 7.31 (186) | —          | 8.50 (216)  | 4, 6     |
| 3000                                    | —              | 4.75 (120.7)           | 3        | 20.0 (508)  | 18.00 (457) | 4.50 (114) | 0.68 (17) | 1.37 (36)  | 3.56 (90)  | 13.25 (337) | 4, 6     |
| 3200                                    | —              | 5.50 (139.7)           | 3        | 20.0 (508)  | 18.00 (457) | 4.50 (114) | 0.68 (17) | 1.37 (36)  | 4.32 (110) | 13.25 (337) | 4, 6     |
| 4000                                    | 2500,3000,3200 | 6.50 (165.1)           | 3        | 20.0 (508)  | 18.00 (457) | 4.50 (114) | 0.68 (17) | 1.37 (36)  | 5.31 (135) | 13.25 (337) | 4, 6     |
| 5000                                    | 4000           | 8.50 (215.9)           | 3        | 24.0 (610)  | 22.00 (569) | 5.50 (140) | 0.68 (17) | 1.37 (36)  | 7.31 (186) | 14.25 (362) | 4, 6     |



### Integral and Internal Ground Strap Drilling Detail



# Sentron® Busway Systems – Reference Information

## Panelboards and Meter Center Modules

Selection

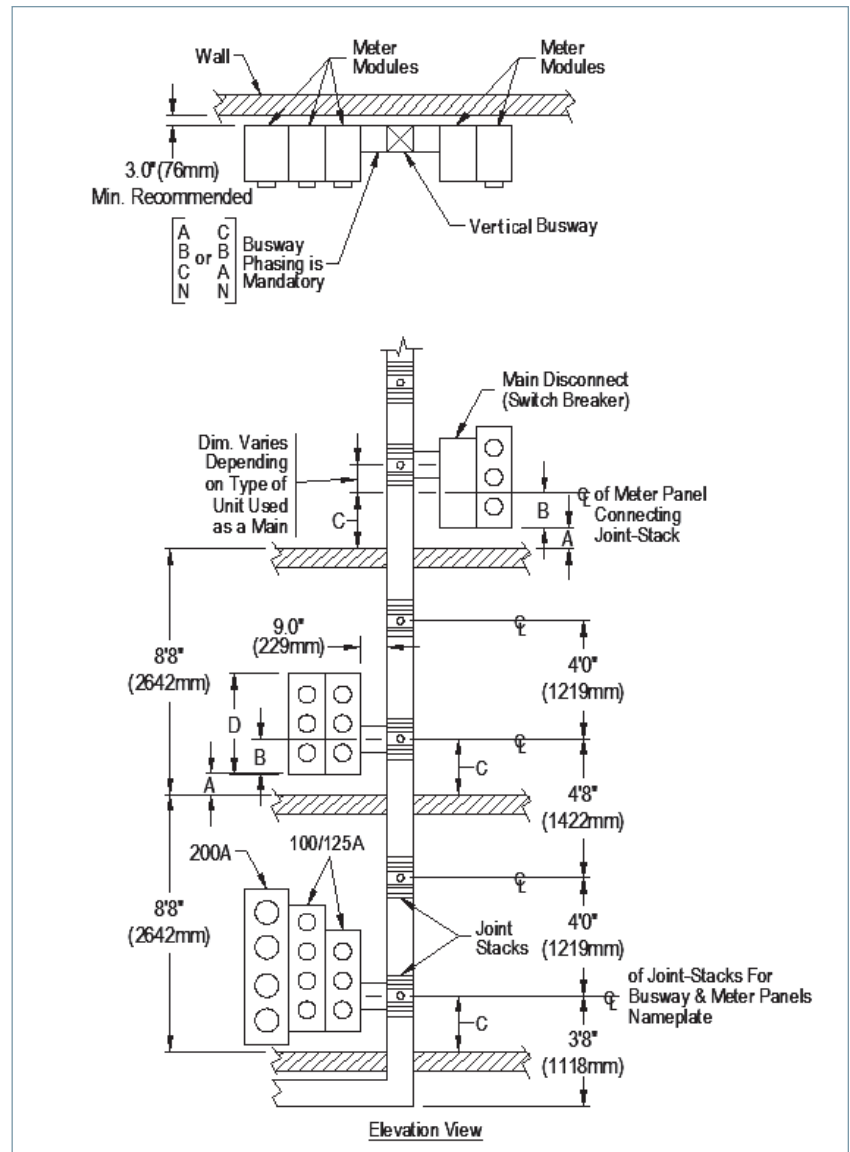
Meter center modules provide a quick and convenient method of connecting to metering devices for both commercial and industrial applications.

Meter center modules connect at the side of a busway run to special joint stacks; these special joints can be added to existing busway to accommodate meter center module connections. When using multiple metering stacks, main disconnects are available if the system reaches the 6 circuit rule (see metering bulletin for further information).

### Dimensional Data Required

#### Dimensions Inches (mm)

- "A" Distance between floor and bottom of meter center as required by the customer.
- "B" Dimension from bottom of meter center to centerline of meter center joint connection stack:  
100-125A Panel, B = 16.5 (419)  
200A Panel, B = 22.0 (559)
- "C" Equals "A" plus "B", Minimum 16.0 (406)
- "D" Individual meter center height. Consult Modular Metering application information.



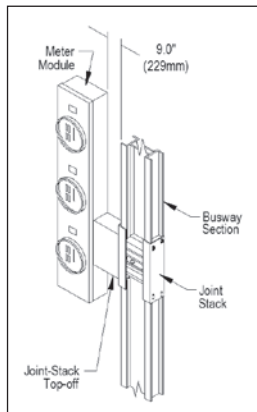
## Meter Center Cubicles

Meter center cubicles provide a quick and convenient method of connecting to metering devices for both commercial and industrial applications and have the main disconnect circuit breaker factory installed.

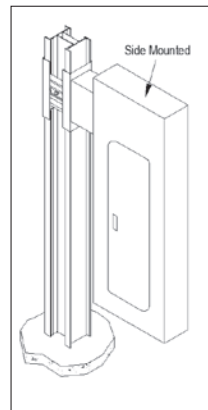
Having the main disconnect built into the device reduces the required space on the right and left side of the busway. Meter center modules connect at the side of the cubicle frame box using an QC4 stack. Meter center cubicles are available for 600 – 1200 Amp (L, M and N Frames). They are available with flexible meter center connections, left side, right side or both. (When ordering a meter center cubicle a QC4 stack must be ordered separately.)

| Molded Case Circuit Breaker Cubicles with Meter Tap Stack Provisions Dimensions, Inches (mm) |                |                |                            |          |            |                            |          |            |                             |          |            |
|--|----------------|----------------|----------------------------|----------|------------|----------------------------|----------|------------|-----------------------------|----------|------------|
| Ampere Rating  |                | Busway Width W | L Frame Breaker (250-600A) |          |            | M Frame Breaker (250-600A) |          |            | N Frame Breaker (800-1200A) |          |            |
|  |                |                | A                          | B        | C          | A                          | B        | C          | A                           | B        | C          |
| <b>AL</b>  | <b>L-Rated</b> |                |                            |          |            |                            |          |            |                             |          |            |
| 225  | —              | 3.9 (99)       | 32 (813)                   | 24 (620) | 16 (406)   | 37 (940)                   | 26 (660) | 16 (406)   | 37 (940)                    | 26 (660) | 16 (406)   |
| 400  | —              | 3.9 (99)       | 32 (813)                   | 24 (620) | 16 (406)   | 37 (940)                   | 26 (660) | 16 (406)   | 37 (940)                    | 26 (660) | 16 (406)   |
| 600  | —              | 3.9 (99)       | 32 (813)                   | 24 (620) | 16 (406)   | 37 (940)                   | 26 (660) | 16 (406)   | 37 (940)                    | 26 (660) | 16 (406)   |
| 800  | 400            | 4.6 (117)      | 32 (813)                   | 24 (610) | 16 (406)   | 37 (940)                   | 26 (660) | 16 (406)   | 37 (940)                    | 26 (660) | 16 (406)   |
| 1000   | 600            | 5.4 (137)      | 32 (813)                   | 24 (610) | 16 (406)   | 37 (940)                   | 26 (660) | 16 (406)   | 37 (940)                    | 26 (660) | 16 (406)   |
| 1200   | 800            | 6.6 (168)      | 32 (813)                   | 24 (610) | 16 (406)   | 37 (940)                   | 26 (660) | 16 (406)   | 37 (940)                    | 26 (660) | 16 (406)   |
| 1350   | 1000           | 7.6 (193)      | 32 (813)                   | 24 (610) | 16 (406)   | 37 (940)                   | 26 (660) | 16 (406)   | 37 (940)                    | 26 (660) | 16 (406)   |
| 1600   | 1200           | 8.7 (221)      | 32 (813)                   | 24 (610) | 20 (490)   | 37 (940)                   | 26 (660) | 20 (490)   | 37 (940)                    | 26 (660) | 20 (490)   |
| 2000   | 1350,1600      | 10.9 (277)     | 32 (813)                   | 24 (610) | 20 (490)   | 37 (940)                   | 26 (660) | 20 (490)   | 37 (940)                    | 26 (660) | 20 (490)   |
| 2500   | 2000           | 13.7 (348)     | 32 (813)                   | 24 (610) | 23.5 (597) | 37 (940)                   | 26 (660) | 23.5 (597) | 37 (940)                    | 26 (660) | 23.5 (597) |
| 3000   | 2500           | 15.8 (401)     | 32 (813)                   | 24 (610) | 23.5 (597) | 37 (940)                   | 26 (660) | 23.5 (597) | 37 (940)                    | 26 (660) | 23.5 (597) |
| 3200   | 2000           | 17.3 (439)     | 32 (813)                   | 24 (610) | 23.5 (597) | 37 (940)                   | 26 (660) | 28 (711)   | 37 (940)                    | 26 (660) | 28 (711)   |
| 4000   | 3000,3200      | 20.3 (516)     | 32 (813)                   | 24 (610) | 28 (711)   | 37 (940)                   | 26 (660) | 28 (711)   | 37 (940)                    | 26 (660) | 28 (711)   |
| 4000   | 3000,3200      | 20.3 (516)     | 32 (813)                   | 24 (610) | 28 (711)   | 37 (940)                   | 26 (660) | 28 (711)   | 37 (940)                    | 26 (660) | 28 (711)   |
| <b>CU</b>  | <b>M-Rated</b> |                |                            |          |            |                            |          |            |                             |          |            |
| 225  | —              | 3.9 (99)       | 32 (813)                   | 24 (620) | 16 (406)   | 37 (940)                   | 26 (660) | 16 (406)   | 37 (940)                    | 26 (660) | 16 (406)   |
| 400  | —              | 3.9 (99)       | 32 (813)                   | 24 (620) | 16 (406)   | 37 (940)                   | 26 (660) | 16 (406)   | 37 (940)                    | 26 (660) | 16 (406)   |
| 600  | —              | 3.9 (99)       | 32 (813)                   | 24 (620) | 16 (406)   | 37 (940)                   | 26 (660) | 16 (406)   | 37 (940)                    | 26 (660) | 16 (406)   |
| 800  | 400            | 3.9 (99)       | 32 (813)                   | 24 (620) | 16 (406)   | 37 (940)                   | 26 (660) | 16 (406)   | 37 (940)                    | 26 (660) | 16 (406)   |
| 1000   | —              | 4.4 (112)      | 32 (813)                   | 24 (610) | 16 (406)   | 37 (940)                   | 26 (660) | 16 (406)   | 37 (940)                    | 26 (660) | 16 (406)   |
| 1200   | 600            | 5.1 (130)      | 32 (813)                   | 24 (610) | 16 (406)   | 37 (940)                   | 26 (660) | 16 (406)   | 37 (940)                    | 26 (660) | 16 (406)   |
| 1350   | 800            | 5.7 (145)      | 32 (813)                   | 24 (610) | 16 (406)   | 37 (940)                   | 26 (660) | 16 (406)   | 37 (940)                    | 26 (660) | 16 (406)   |
| 1600   | 1000           | 6.7 (170)      | 32 (813)                   | 24 (610) | 16 (406)   | 37 (940)                   | 26 (660) | 16 (406)   | 37 (940)                    | 26 (660) | 16 (406)   |
| 2000   | 1200,1350      | 8.2 (208)      | 32 (813)                   | 24 (610) | 20 (490)   | 37 (940)                   | 26 (660) | 20 (490)   | 37 (940)                    | 26 (660) | 20 (490)   |
| —  | 1600           | 8.7 (221)      | 32 (813)                   | 24 (610) | 20 (490)   | 37 (940)                   | 26 (660) | 20 (490)   | 37 (940)                    | 26 (660) | 20 (490)   |
| 2500   | 2000           | 10.7 (272)     | 32 (813)                   | 24 (610) | 20 (490)   | 37 (940)                   | 26 (660) | 20 (490)   | 37 (940)                    | 26 (660) | 20 (490)   |
| 3000   | —              | 11.8 (300)     | 32 (813)                   | 24 (610) | 20 (490)   | 37 (940)                   | 26 (660) | 20 (490)   | 37 (940)                    | 26 (660) | 20 (490)   |
| 3200   | —              | 13.3 (335)     | 32 (813)                   | 24 (610) | 20 (490)   | 37 (940)                   | 26 (660) | 23.5 (597) | 37 (940)                    | 26 (660) | 23.5 (597) |
| 4000   | 2500,3000,3200 | 15.3 (389)     | 32 (813)                   | 24 (610) | 23.5 (597) | 37 (940)                   | 26 (660) | 23.5 (597) | 37 (940)                    | 26 (660) | 23.5 (597) |
| 5000   | 4000           | 19.3 (491)     | 32 (813)                   | 24 (610) | 28 (711)   | 37 (940)                   | 26 (660) | 28 (711)   | 37 (940)                    | 26 (660) | 28 (711)   |

### Meter Center Module

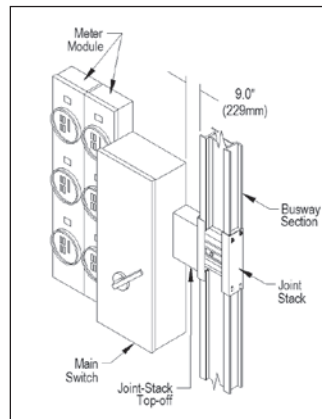


### Side Mount Panelboard

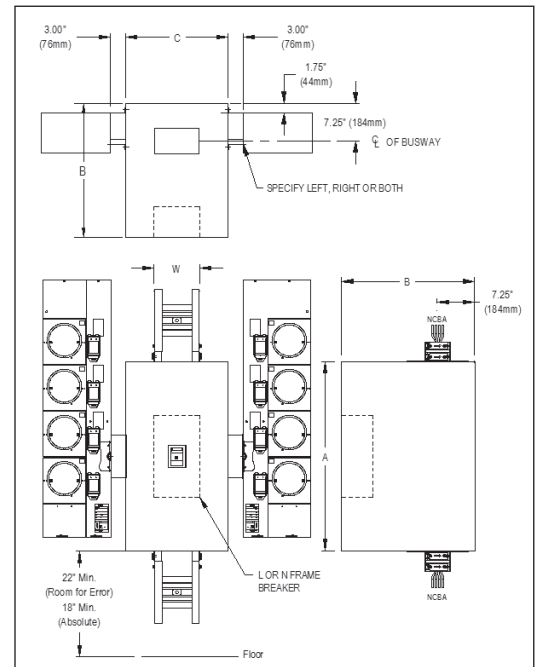


For this panelboard configuration, please contact Spartanburg plant for mounting information.

### Main Disconnect Meter Module



### Meter Center Cubicle



# Sentron® Busway Systems – Reference Information

## Installation and Application Information

## Selection

### Installation

In preparation for installation of your busway systems, it is important to familiarize yourself with the following installation publications:

- General Instructions For Handling, Installation, Operation and Maintenance of Busway Rated 600 volts or less (NEMA Standards Publication BU1)
- Storage, Installation and Maintenance Instructions for Sentron Busway

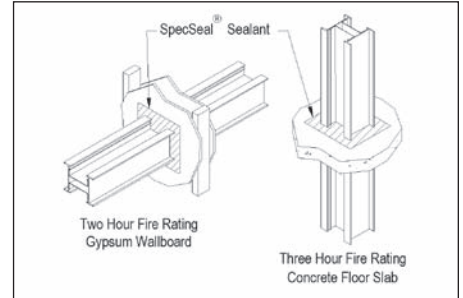
These publications should be read through thoroughly and used as reference during installation to ensure proper installation procedures. All

equipment should be inspected upon delivery. If the busway is not installed immediately, it should be stored in a clean, dry location. Factory supplied record drawings as well as installation tools should be accessible in preparation for installation.

### UL 1479 Fire Rated Installations

Sentron Busway has been tested in accordance with UL 1479 and offers a certified two hour fire rating for gypsum wallboard construction and a three hour fire rating for concrete slab or block penetrations. These ratings were achieved using standard busway installed with SpecSeal® sealant from Specified Technologies Inc. The SpecSeal® fire stop system provides superior

performance at the industry's lowest installed cost. Sentron is the first busway system to achieve a fire rating for gypsum wallboard construction.



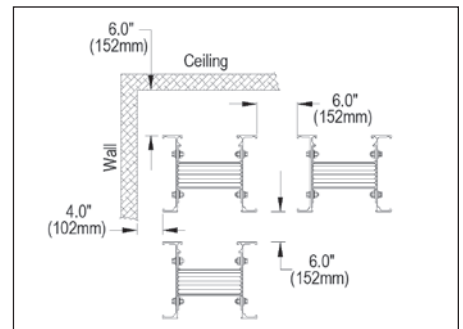
### Measuring

Critical to the success of any busway installation is the layout and the accurate measuring of the busway. First and foremost:

Select a route for your busway that will require the fewest fittings and the maximum number of 10' (3.05m) sections. It is important that the busway system be designed to meet the requirements of the National Electric Code for Busway. There are a number of techniques that may be used to ensure an accurate measurement before purchasing and installing the busway. The following tools will be required during layout and measuring:

- 100' (30.48m) tape measure
- Measuring Stick
- Chalkline
- Plumb Bob
- Marker

(A laser distance measuring device may be used to speed the measuring process).



### Minimal Clearances

Minimum clearances for installing feeder busway are shown. Additional clearance may be required for plug-in devices larger than 100A fusible and 250A circuit breaker.

## SIEMENS

Date Submitted: \_\_\_\_\_

Purchase Order #: \_\_\_\_\_

Project Name: \_\_\_\_\_

Sales Support: \_\_\_\_\_

Sales Engineer: \_\_\_\_\_

Release  Hold For Release

Run Designation \_\_\_\_\_

Busway Catalog # \_\_\_\_\_

Service, \_\_\_\_\_ Amps

Bus material  CU  AL  "M" Rated  "L" Rated

Neutral  None  100 %  200 %

Ground  Case  Internal  Isolated

IP rating  IP 40 Indoor  
 IP 55 Splash Proof  
 NEMA 3R Outdoor

### Busway Order Entry Checklist

Complete one checklist for each busway run.

Drawing requirements

Approval drawings  # copies

Recorder drawings  # copies

Ship Complete  Partial Shipments  YES

Ship not before: \_\_\_\_\_

Shipping Instructions \_\_\_\_\_

TIP: You can make additional copies of this sheet by right clicking on the tab and creating a duplicate.  
Use one sheet for each Busway run.

\*NOTE: For OUTDOOR BUSWAY, contact the factory before quoting outdoor busway runs over 50 ft.

### Busway mounting position in reference to floor



### B) Specifications (check or fill appropriate blanks)

Standard busway meet specifications

Exceptions to specifications, note comments below

Short-circuit bracing  100KAIC Amps symmetrical

Voltage drop requirement \_\_\_\_\_

Temperature-rise requirement \_\_\_\_\_

Current density requirement \_\_\_\_\_

Special paint, provide paint chip. \_\_\_\_\_

Special Comments

A) Engineering Information

Field sketches or factory approval drawings attached?

Dimensions from walls, column lines, ect.

Wall, floor and roof thickness and pitch.

Floor Elevation's

Floor to floor

Floor to ceiling

Wall locations

Equipment pads Height \_\_\_\_\_

Existing Busway to be extended cat # \_\_\_\_\_

Phasing

Nameplate Information

Match to competitor, Contact the plant.

Special SWBD connection, provide details

Phase Transpositions: Provide phasing on drawings

Riser Bus

Load side of bus plug (top or bottom)

Required distance from floor to top of panels/plugs

Meter bank (center line of tap stack)

Barriers and/or floor supports

Transformer Connections

Standard XFMR Service head

Single phase

Three single phase

Special drawing required

Dimensions between phases

LV spade detail, including drilling and thickness

Dimensions of LV spade from tank wall

Throat opening and bolt pattern, if any

Utility Vault Connection Utility type \_\_\_\_\_

Required drawing attached?

End Cable Tap Box

Horizontal  Vertical

Standard Lugs

Special Lugs, specify below.

Intermediate Hangers \_\_\_\_\_ Qty. \*Note: Intermediate Hangers are for floor to ceiling height greater than 16ft. Consult factory if greater than 32 ft.

Expansion Sections \_\_\_\_\_ Qty.

\*Note: Expansion Section is required for every 200ft of continuous Busway run length and for each building expansion joint. The Busway run must be positioned accordingly to accommodate the Expansion Section(s).



## What is the Power II Fit Program?

Siemens Power II Fit (PIIF) Program compensates for dimensional deviations that may result in busway layouts. With the PIIF Program, specific dimensions on straight sections and/or elbows may be left out of factory released drawings. After the busway run has been installed (minus PIIF pieces), final measurements are taken and sent to the factory. The PIIF Program guarantees shipment of straight sections and/or 90 degree angle elbows within 5 business days for IP40 (indoor) and 8 business days for NEMA 3R (outdoor), upon receipt of the PIIF Order Form. The PIIF Program may be used with SENTRON.

### Why use the Power II Fit Program?

The PIIF Program can save you both time and money by eliminating uncertainty in busway measurements. When you take advantage of the PIIF Program, your busway runs fit exactly the first time, eliminating incorrect pieces and costly reordering time.

### When should the Power II Fit Program be used?

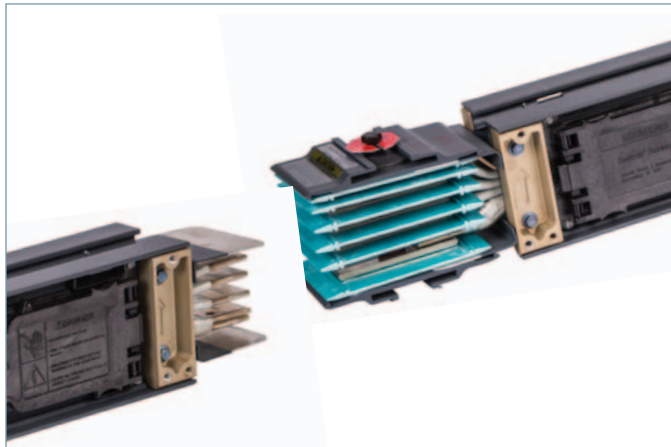
The PIIF Program will benefit you when you are uncertain of exact dimensions on long busway runs and when difficult contour situations require special attention.

### Program Details

- Product Line: SENTRON.
- Pricing: Included with original order entry.
- Quantity: A maximum of 5 pieces per order. (Straight feeder sections and/or 90 degree elbows.)
- Shipment: 5 business days for IP40 (indoor) and 8 business days for NEMA 3R (outdoor), after receipt of PIIF Order Form. All orders ship via standard carrier originating from Spartanburg, SC. Optional air freight shipments available when customer assumes shipping cost.

### Ordering Details

- Identify Siemens Busway PIIF Pieces at time of original order. Busway Customer Service approves PIIF Pieces.
- Send PIIF Order Form to Busway Customer Service when exact measurements are known.
- Busway Customer Service acknowledges PIIF Order and PIIF pieces ship within 5 business days for IP40 (indoor) and 8 business days for NEMA 3R (outdoor).



## What is the Power II Measure service?

Siemens Power II Measure (PIIM) service provides professional busway routing and measurement by a factory representative. The Siemens representative will meet with the designated site contact to review project details and discuss routing options. Using a laser measuring device, all pertinent site measurements will be recorded and then transferred to a CAD approval drawing(s). The PIIM service guarantees correct alignment and routing of the busway. If there are any errors in the busway routing that resulted from Siemens, replacement busway items will be provided at no charge.

### Why use the Power II Measure service?

- The PIIM service can save you both time and money by:
- Ensuring the most cost effective busway routing
  - Ensuring accurate measurements
  - Reducing order engineering lead-time

### When should the Power II Measure service be used?

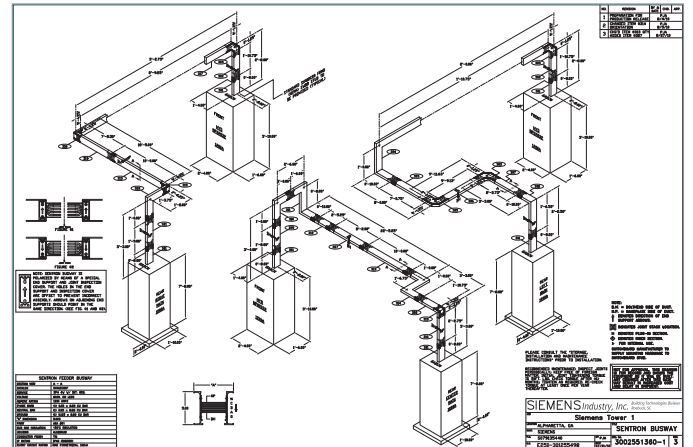
The PIIM service can be beneficial for all projects (new or existing, large or small). The PIIM service is especially beneficial for large and/or complex projects.

### Program details

- Product Line: Sentron, XJL, XLU, BD
- Pricing: Fixed daily rate includes travel expenses, site review, measurement service and approval drawings
- Deliverable: An electronic CAD approval package will be submitted within 3 weeks of the site visit. The drawing package will include isometric busway routing with gear orientation, and any special application notes/details.

### Ordering details

- The PIIM service should be ordered at the same time as the busway
- The PIIM service may be ordered for project cost estimation
- Allow 2 weeks notice to schedule the PIIM service





## Siemens Sentron Busway Quick Reference

### Critical Dimensions:

Busway that passes through a wall, ceiling or floor:

- centerline of a joint to the wall, ceiling or floor = 7 in. min.
- centerline of a joint (*above a floor support*) to a floor = 16 in. min.
- joints cannot be positioned inside a wall, ceiling or floor (*joints must be accessible for maintenance*)

Feeder Busway clearances:

- from the top of the busway to a ceiling/floor/wall or other busway = 6 in. min.
- from the side of the busway to a ceiling/floor/wall or other busway = 4 in. min

Plug-in Busway clearances:

- plug-In busway clearances depend on the configuration of bus plugs (*see bus plug clearance charts in the Sentron Selection and Application Guide*)
- otherwise, clearances for feeder busway apply
- note orientation of the operating handle and provide clearance for access & operation

Feeder Busway length:

- minimum length = 14.38 in.
- maximum length = 10 ft.

Plug-In & Riser length:

- available only in 4, 6, 8 and 10 ft. lengths

Flat Elbow section:

- maximum leg length = 4 ft.
- minimum leg length: Varies according to amperage and bus bar material

Edge Elbow section:

- maximum length = 4 ft.
- minimum leg length = 10 in.

Combination and Offset Elbows:

- maximum leg lengths = 4 ft.
- minimum leg lengths: varies according to amperage and bus bar material

Elbow - Stub Combinations:

- maximum leg length = 4 ft.
- minimum leg length = 2.50 in. + (case size x .5)

### Critical Details:

- busway DRAWINGS must include all relevant dimensions
- CENTERLINE dimensions are expected (*please note any dimensions that are not center line dimensions*)
- WALLS and FLOORS must be located (*wall & floor thickness must be included*)
- locate the **FRONT of all switchboards** and provide the phasing of any existing boards (*advise if any PADs are located under boards*)
- when using ONE-SIDED plug-in busway please note the desired direction of the load side of bus plugs (*G,A,B,C,N from left to right will position the load side to the bottom and "UP is On" handle operation*)
- TRANSFORMER THROAT connections require complete details.
- Horizontal plug-in busway must be oriented with the A phase on top (*bolt head on top*).
- In-Line Disconnect CUBICLES are engineered to order. The **FRONT** of the cubicle and **Breaker** information must be specified.
- Panels - panel type and size / if a certain panel or breaker height is required (those dimensions)
- Curb height

### Intermediate Hangers

- Add qty (1) Intermediate Hanger for floor to ceiling height greater than 16ft. Consult factory if greater than 32 ft.

### Expansion Sections:

- Qty (1) Expansion Section should be used for every 200ft of continuous Busway run length, at every transition to a vertical run, and at each building expansion joint.

### Outdoor Busway:

- route busway to minimize outdoor busway run length
- call factory before quoting outdoor busway runs over 50 ft.
- avoid installing busway near exhaust pipes that may generate steam or caustic vapors

# XJ-L™ HD Busway System

## XJ-L HD Busway Introduction

### Competitive Advantages

XJ-L HD Busway is available up to 400A. XJ-L Busway is the leading power distribution solution for demanding applications that require reliable, high quality power. XJ-L HD Busway is the optimal choice for both contractors and users concerned with designing superior electrical systems that require a high plug density and optimal space utilization.

#### Competitive advantages:

- Compact size – small cross section for applications where busway routing is constrained
- Joint Connection – dual spring clamp assemblies ensure reliable, maintenance-free joints
- Safety – plug-in outlets are IP2X finger safe
- Reliability – fundamental design has a 60 year history of reliability
- Service – simple snap together installation, maintenance free joints, factory stock of critical components and large distribution inventory of bus plugs ensure quick and easy serviceability
- Fittings – elbow, tee, crosses, flanged end, and tap boxes are offered in standard and custom configurations
- Compatibility – the full range of XJ-L HD bus plugs are interchangeable between 100A, 225A and 400A busway



#### Key features:

- Up to twelve 100A bus plugs can be installed per 10' of plug-in busway. Plug-in busway can be configured with six plug-in openings per side (standard) or twelve on one side (high density).
- Bus plugs are readily installed on energized busway and are fully interchangeable between 100, 225 and 400A configurations.
- Bus plugs are available with fusible or circuit breaker disconnects, configured with a wide variety of optional receptacles, branch circuit breakers, drop cords, etc.
- Bus bars are solid copper (98% conductivity) and tin plated for superior electrical performance and corrosion resistance (optional silver plating is also available). The solid bus bar design provides superior short circuit strength (up to 35 kA) compared to channel style conductors and cable.
- Totally enclosed steel housing is robust, guarding against incidental contact and contamination of live parts. Enclosed box design will not twist or distort during bus plug installation.
- Installation is fast and easy. Joint connections simply snap together without special tools, housing couplers, or bus connectors.
- Suitable for horizontal and vertical mounting and under-the floor applications.

# XJ-L™ HD Busway System

## XJ-L HD Busway Overview

### XJ-L HD Busway

XJ-L HD Busway is well known for its outstanding performance, providing convenient, cost-effective power distribution for high-tech environments, data centers, laboratories, and other applications requiring consistent, quality power distribution. Key XJ-L HD design features include optional isolated ground or 200% neutral across entire product range.

As a result, XJ-L HD Busway is an intelligent choice for contractors and users concerned with designing superior electrical distribution systems. The compact design is ideal for limited working areas in critical power, manufacturing, laboratory test facilities, schools, hospitals, and machine shops.

With XJ-L HD Busway, you get an exclusive, optional isolated ground design that ensures clean power. Unlike bonded ground designs that may convey surges from one electrical device to another, the XJ-L HD optional isolated ground system is well suited for critical power environments. The ground bar is the same size as the phase bars, with the same ampere rating. Installation is easy, joining one XJ-L HD Busway section to another is as simple as matching ends and snapping them together. Bus bars are held securely in place by spring pressure clips located in the joint insulator. The joint is secured when the external housing plate is attached

with captive screws. Thanks to built-in flexibility and a low initial cost, you also benefit from future savings when you need new equipment.

Time to add on busway for new or expanded facilities? The XJ-L Busway you installed years ago matches the XJ-L HD Busway you specify today and years from now the new busway sections, components or system-compatible bus plugs will still fit.

### Dependability

With over one million feet in service, XJ-L HD Busway has a proven track record. The busway joints are easy to install and maintenance free. Solid copper bus bars and totally enclosed steel housings are designed for decades of dependable service.

### Flexibility

Siemens XJ-L HD Busway is available in a wide variety of straight lengths, elbows, tees, crosses, and tap boxes that can be installed and then readily expanded or reconfigured to meet changing requirements. Custom fittings and straight lengths can be engineered to tailor the busway system to application-specific customer requirements. Bus Plugs can be installed, then relocated as required without de-energizing the busway. All XJ-L HD Bus Plugs are fully interchangeable with all XJ-L HD Busway configurations.

### Cost

Siemens XJ-L HD Busway offers a lower cost solution, compared to cable and conduit, sandwich style busway or even light duty track busway. Snap together installation requires no special tools and is fast, easy and maintenance free. Solid, highly conductive bus bars minimize electrical losses and ensure long-term energy savings.

### Equipment protection

Critical equipment is protected via fuse or circuit breaker plugs. Due to their proximity, the plugs provide a localized method of protection and isolated disconnection.

### Space

Space in critical power/data center facilities is at a premium. XJ-L HD Busway requires less space than conventional power distribution methods such as cable and conduit.

### Availability

XJ-L HD plugs are stocked to meet your quick-ship requirements. Once you factor in all the advantages, XJ-L HD is clearly the best choice for reliable, flexible, and economical power distribution for data centers, light industrial, and high tech applications.



# XJ-L™ HD Busway System

## XJ-L HD Busway Specifications

XJ-L HD Busway is available in 100A, 225A and 400A ratings making it the right choice for light industrial and commercial applications where low initial startup and maintenance costs are pre-requisites. XJ-L HD Busway is the most logical choice for high tech, data intensive environments, especially when isolated ground is required.

### Housing

XJ-L HD Busway features a totally enclosed, non-ventilated, steel housing. The housing is covered with an electrostatically applied polyester urethane powder paint. Choice of colors: ASA#61 Gray or Graphite Gray. The paint is scratch resistant and has a 500 hour salt spray rating.

### Conductors

The conductors are fabricated from 98% conductivity copper. The bars are "spaced-in-air" and held securely in the housing by the plug-in outlets and joints.

### Neutral

100% neutral is available for standard 4 wire applications. A second neutral bar can be added for 200% neutral capacity.

Note: the 200% neutral bar can be utilized as Isolated Ground.

The internal ground bus is 100% rated for 100A, 60% rated for 225A, and 50% for 400A busway. Isolated ground is rated at 100% for both amperages.

### Plating

The entire length of the bus bar is tin plated to ensure good electrical contact at all joint and plug tap-off points. The plating also serves to protect the bars from corrosion. Optional silver plating is available.

### Plug-in base

XJ-L HD Busway features multiple plug-in locations. The plastic, non-tracking outlets are located on 20 or 9.75 inch centers and support the bus bars providing bracing during short circuit conditions. The plug-in outlets are IP2X (finger safe).

### Joint connection

Busway sections are connected via a maintenance-free, spring pressure joint. The busway ends are easily aligned and bus bar ends are held securely in place by spring pressure clips located in the joint insulator. The housings are connected via external housing plates and captive screws.

### Bus plugs

There are twelve plug-in outlets on each 10 foot (3.048 m) section, six openings on 5 foot (1.524 m) sections and two outlets on 2 foot (.616 m) sections. Bus plugs are available with amperages ranging from 15A to 200A. Bus plugs feature circuit breakers or fusible switch disconnects.

### Testing

Each piece of XJ-L HD Busway is factory tested prior to shipment. A dielectric test is performed to ensure product integrity. XJ-L HD Busway is manufactured and inspected in accordance to an ISO 9001 registered Quality Management System.

### Standards

XJ-L HD Busway products meet the following standards:  
UL 857  
NEMA BU1  
CSA C22.2

### Ratings

Amperage: 100A, 225A and 400A  
Voltage: 600 VAC max  
Short circuit: 100A – 10kAIC  
225A – 22kAIC  
400A – 35kAIC



### R,X,Z and voltage drop

| Ampere rating | Bus bar width x .125 in. (3.2 mm) thick | Ohm x 10 <sup>-3</sup> per 100 ft. Line to neutral |      |      | Voltage drop – concentrated loads, line-to-line per 100 ft. at 100% rated load, 35°C ambient power factor |      |      |      |      |      |      |      |
|---------------|---|--|------|------|---|------|------|------|------|------|------|------|
|               |   | R  | X    | Z    | 0.3   | 0.4  | 0.5  | 0.6  | 0.7  | 0.8  | 0.9  | 1.0  |
| 100           | 0.50 (13.0)                             | 1.67   | 8.71 | 1.88 | 2.30  | 2.54 | 2.75 | 2.94 | 3.10 | 3.21 | 3.25 | 2.89 |
| 225           | 1.00 (25.4)                             | 8.20   | 4.08 | 9.16 | 2.48  | 2.74 | 2.98 | 3.19 | 3.37 | 3.51 | 3.57 | 3.20 |
| 400           | 2.13 (54.1)                             | 4.27   | 3.01 | 5.23 | 2.88  | 3.10 | 3.29 | 3.44 | 3.56 | 3.62 | 3.57 | 2.96 |

# XJ-L™ HD Busway System

## Straight Sections

### Plug-in section

| Prefix   | Type     | Fitting Type   |          |          | Amp                           | Configuration  | Color                                    | Plug-in Busway Only  |  |          |
|--|----------|--|----------|----------|-------------------------------|--|--|--|--|----------|
|  |          | 1  | 2        | 0        |                               |  |  | Plug-In Location   | Plug-In Spacing  |          |
| <b>BW</b>  | <b>J</b> | <b>P</b>   | <b>1</b> | <b>2</b> | <b>0</b>                      | <b>1</b>   | <b>6</b>                                 | <b>G</b>   | <b>L</b>   | <b>2</b> |
|  |          | Length:<br><b>024</b> = 24 inches<br><b>060</b> = 60 inches<br><b>120</b> = 120 inches |          |          | 1 = 100<br>2 = 225<br>4 = 400 | 1 = 3Ø<br>2 = 3Ø + Internal Grd<br>3 = 3Ø + Isolated Grd<br>4 = 3Ø + Internal Grd + Isolated Grd<br>5 = 3Ø + Neutral<br>6 = 3Ø + Neutral + Internal Grd<br>7 = 3Ø + Neutral + Isolated Grd<br>8 = 3Ø + Neutral + Internal Grd + Isolated Grd<br>9 = 3Ø + 200% Neutral<br>0 = 3Ø + 200% Neutral + Internal Ground | A = Graphite<br>G = ANSI 61<br>X = Other | L = Left Side Only<br>R = Right Side Only<br>S = Dual Side | 1 = 20" Dual Side <sup>①</sup><br>2 = 9.75" Single Side <sup>②</sup> |          |
| <b>Notes:</b><br>① Use for Plug-in Length = "S"<br>② Use for Plug-in Length = "L" or "R" |          |  |          |          |                               |  |  |  |  |          |

### Plug-in sections

Available in 10 foot (3.048 m), 5 foot (1.524 m) or 2 foot (.616 m) standard plug-in lengths, XJ-L HD Busway offers layout flexibility to meet custom requirements. Plug-in busway can be configured with six plug-in openings per side or twelve on one side.

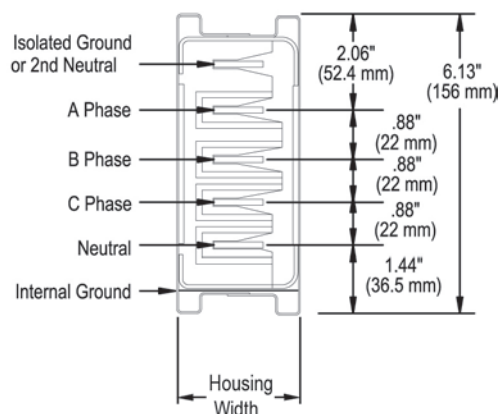
### Feeder Section

| Prefix    | Type     | Fitting Type  |          |          | Amp                           | Configuration  | Color                                    |          |
|-----------|----------|---|----------|----------|-------------------------------|--|--|----------|
|           |          | 1   | 2        | 0        |                               |  |  |          |
| <b>BW</b> | <b>J</b> | <b>F</b>  | <b>1</b> | <b>2</b> | <b>0</b>                      | <b>1</b>   | <b>6</b>                                 | <b>G</b> |
|           |          | Length in inches,<br>Ex. 2' 3" = <b>024</b><br>Feeder lengths available from 16" ( <b>016</b> ) up to 10' 0" ( <b>120</b> ) |          |          | 1 = 100<br>2 = 225<br>4 = 400 | 1 = 3Ø<br>2 = 3Ø + Internal Grd<br>3 = 3Ø + Isolated Grd<br>4 = 3Ø + Internal Grd + Isolated Grd<br>5 = 3Ø + Neutral<br>6 = 3Ø + Neutral + Internal Grd<br>7 = 3Ø + Neutral + Isolated Grd<br>8 = 3Ø + Neutral + Internal Grd + Isolated Grd<br>9 = 3Ø + 200% Neutral<br>0 = 3Ø + 200% Neutral + Internal Ground | A = Graphite<br>G = ANSI 61<br>X = Other |          |

### Feeder Sections

Feeder busway carries the current of the busway system from the supply source. Feeder busway does not have plug-in outlets. Feeder busway is available in custom lengths from 16.00 in (406mm) to 120.00 in (3048mm). Feeder sections are available as Indoor.

XJ-L HD Busway also features an exclusive rotating cover plate to facilitate inspection of the joints. The light weight design of the busway and plugs makes the installation of XJ-L HD Busway quick and trouble-free.

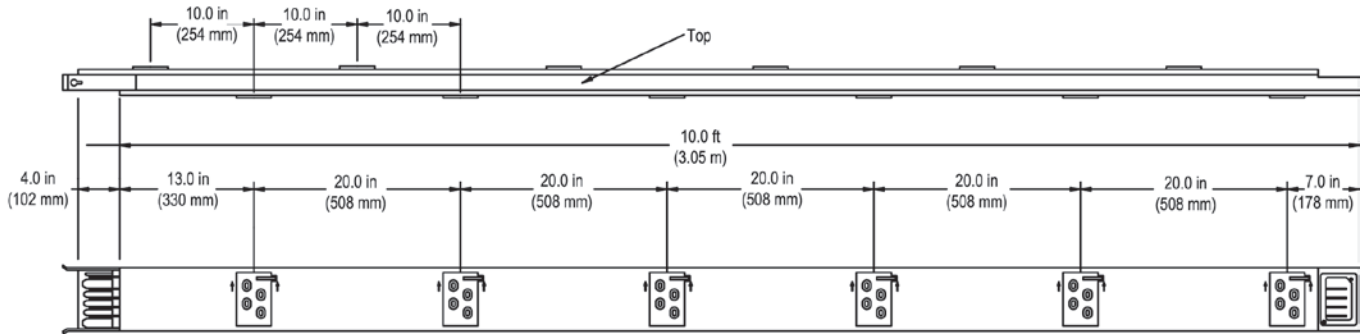




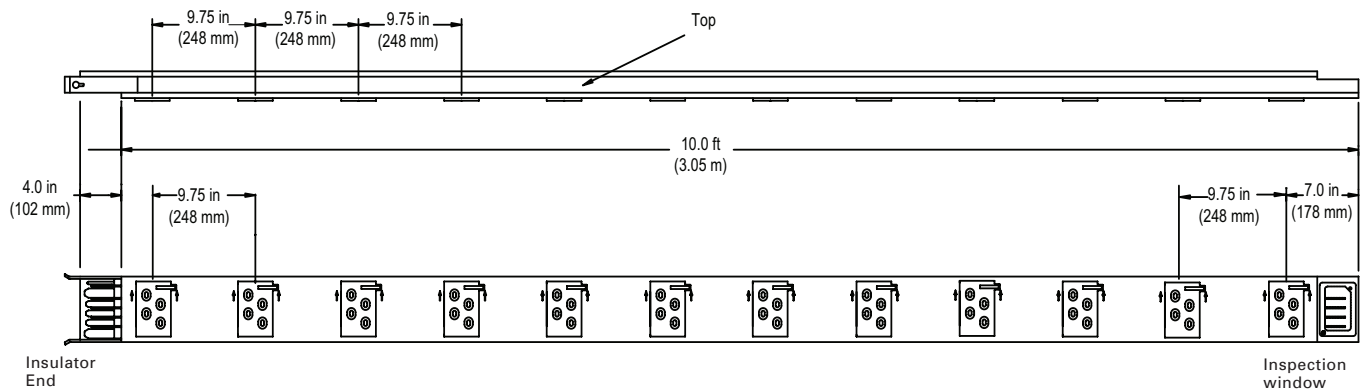
# XJ-L™ HD Busway System

## Straight Sections

### Plug-in Section (Dual Side)



### Plug-in Section (Single Side-Right hand configuration shown)



### Plug-in Section

| Ampere Rating | Bus Bar Material | Bar Thickness | Bar Width | Housing Width | Housing Height | Max Voltage | Short Circuit Rating | Length Ft (M) | 3 Pole                    |           | 4 Pole                    |           |
|---------------|------------------|---------------|-----------|---------------|----------------|-------------|----------------------|---------------|---------------------------|-----------|---------------------------|-----------|
|               |                  |               |           |               |                |             |                      |               | Model Number <sup>①</sup> | Wgt. (lb) | Model Number <sup>①</sup> | Wgt. (lb) |
| 100           | Copper           | .125 (3.2)    | .5 (13)   | 2.0 (51)      | 6.13 (156)     | 600V        | 10kA                 | 10.0 (3.05)   | BWJP12011GS1              | 42        | BWJP12015GS1              | 45        |
| 100           | Copper           | .125 (3.2)    | .5 (13)   | 2.0 (51)      | 6.13 (156)     | 600V        | 10kA                 | 5.0 (1.52)    | BWJP06011GS1              | 21        | BWJP06015GS1              | 23        |
| 100           | Copper           | .125 (3.2)    | .5 (13)   | 2.0 (51)      | 6.13 (156)     | 600V        | 10kA                 | 2.0 (.61)     | BWJP02411GS1              | 8         | BWJP02415GS1              | 9         |
| 225           | Copper           | .125 (3.2)    | 1.0 (25)  | 2.5 (64)      | 6.13 (156)     | 600V        | 22kA                 | 10.0 (3.05)   | BWJP12021GS1              | 56        | BWJP12025GS1              | 62        |
| 225           | Copper           | .125 (3.2)    | 1.0 (25)  | 2.5 (64)      | 6.13 (156)     | 600V        | 22kA                 | 5.0 (1.52)    | BWJP06021GS1              | 28        | BWJP06025GS1              | 30        |
| 225           | Copper           | .125 (3.2)    | 1.0 (25)  | 2.5 (64)      | 6.13 (156)     | 600V        | 22kA                 | 2.0 (.61)     | BWJP02421GS1              | 10        | BWJP02425GS1              | 12        |
| 400           | Copper           | .125 (3.2)    | 2.12 (54) | 3.6 (92)      | 6.13 (156)     | 600V        | 35kA                 | 10.0 (3.05)   | BWJP12041GS1              | 69        | BWJP12045GS1              | 79        |
| 400           | Copper           | .125 (3.2)    | 2.12 (54) | 3.6 (92)      | 6.13 (156)     | 600V        | 35kA                 | 5.0 (1.52)    | BWJP06041GS1              | 35        | BWJP06045GS1              | 40        |
| 400           | Copper           | .125 (3.2)    | 2.12 (54) | 3.6 (92)      | 6.13 (156)     | 600V        | 35kA                 | 2.0 (.61)     | BWJP02441GS1              | 15        | BWJP02445GS1              | 17        |

① Model Numbers Effective Aug 2011

### Feeder Section

| Ampere Rating | Bus Bar Material | Bar Thickness | Bar Width | Housing Width | Housing Height | Max Voltage | Short Circuit Rating | Length In. (mm)         | 3 Pole                        |              | 4 Pole                        |              |
|---------------|------------------|---------------|-----------|---------------|----------------|-------------|----------------------|-------------------------|-------------------------------|--------------|-------------------------------|--------------|
|               |                  |               |           |               |                |             |                      |                         | 10' Model Number <sup>①</sup> | Wgt. (lb/ft) | 10' Model Number <sup>①</sup> | Wgt. (lb/ft) |
| 100           | Copper           | .125 (3.2)    | .5 (13)   | 2.0 (51)      | 6.13 (156)     | 600V        | 10kA                 | 16.0-120.0 (406 - 3048) | BWJF12011GS1                  | 4.2          | BWJP12015GS1                  | 4.5          |
| 225           | Copper           | .125 (3.2)    | 1.0 (26)  | 2.5 (64)      | 6.13 (156)     | 600V        | 22kA                 |                         | BWJF12021GS1                  | 5.6          | BWJP12025GS1                  | 6.2          |
| 400           | Copper           | .125 (3.2)    | 2.12 (54) | 3.6 (92)      | 6.13 (156)     | 600V        | 35kA                 |                         | BWJF12041GS1                  | 6.9          | BWJP12045GS1                  | 7.9          |



# XJ-L™ HD Busway System

## Elbows

### Fittings

| Prefix    | Type     | Fitting Type                            |          |          |          | Amp                           | Configuration  | Color                                    |
|-----------|----------|---|----------|----------|----------|-------------------------------|--|--|
| <b>BW</b> | <b>J</b> | <b>E</b>                                | <b>L</b> | <b>E</b> | <b>L</b> | <b>1</b>                      | <b>7</b>   | <b>A</b>                                 |
|           |          | E = Edge L = Left<br>F = Flat R = Right |          |          |          | 1 = 100<br>2 = 225<br>4 = 400 | 1 = 3Ø<br>2 = 3Ø + Internal Grd<br>3 = 3Ø + Isolated Grd<br>4 = 3Ø + Internal Grd + Isolated Grd<br>5 = 3Ø + Neutral<br>6 = 3Ø + Neutral + Internal Grd<br>7 = 3Ø + Neutral + Isolated Grd<br>8 = 3Ø + Neutral + Internal Grd + Isolated Grd<br>9 = 3Ø + 200% Neutral<br>0 = 3Ø + 200% Neutral + Internal Ground | A = Graphite<br>G = ANSI 61<br>X = Other |

### Flat elbows

Right hand or left hand XJ-L HD Busway system 90 degree flat elbows are available. When specifying be sure to use the proper catalog number suffix to identify the required fitting.

#### Flat Elbow

| Ampere Rating | Poles | Model Number Right | Model Number Left |
|---------------|-------|--------------------|-------------------|
| 100           | 3     | BWJELFR11G         | BWJELFL11G        |
| 100           | 4     | BWJELFR15G         | BWJELFL15G        |
| 225           | 3     | BWJELFR21G         | BWJELFL21G        |
| 225           | 4     | BWJELFR25G         | BWJELFL25G        |
| 400           | 3     | BWJELFR41G         | BWJELFL41G        |
| 400           | 4     | BWJELFR45G         | BWJELFL45G        |

### Edge elbows

Right hand or left hand XJ-L HD Busway system 90 degree edge elbows are available. When specifying, be sure to use the proper catalog number suffix to identify the required fitting.

#### Edge Elbow

| Ampere Rating | Poles | Model Number Right | Model Number Left |
|---------------|-------|--------------------|-------------------|
| 100           | 3     | BWJELER11G         | BWJELEL11G        |
| 100           | 4     | BWJELER15G         | BWJELEL15G        |
| 225           | 3     | BWJELER21G         | BWJELEL21G        |
| 225           | 4     | BWJELER25G         | BWJELEL25G        |
| 400           | 3     | BWJELER41G         | BWJELEL41G        |
| 400           | 4     | BWJELER45G         | BWJELEL45G        |

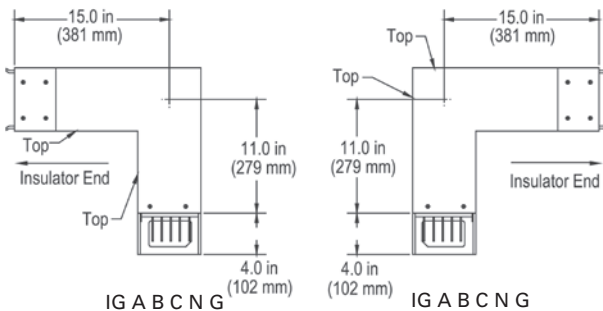
Flat right elbow shown

Insulator end



Left Elbow (-3)

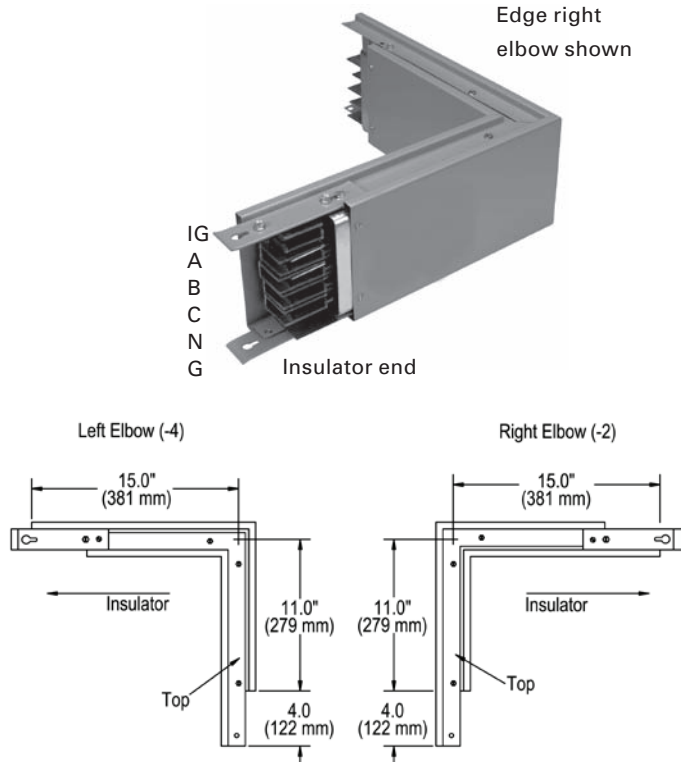
Flat Right Elbow (-1)



Edge right elbow shown

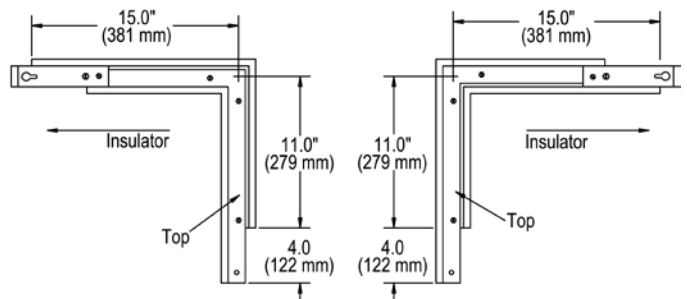
IG  
A  
B  
C  
N  
G

Insulator end



Left Elbow (-4)

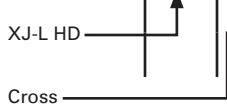
Right Elbow (-2)



# XJ-L™ HD Busway System

## Tees and Crosses

### Fittings

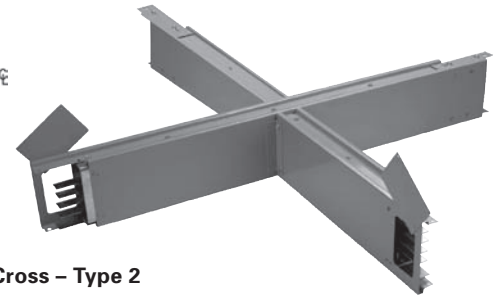
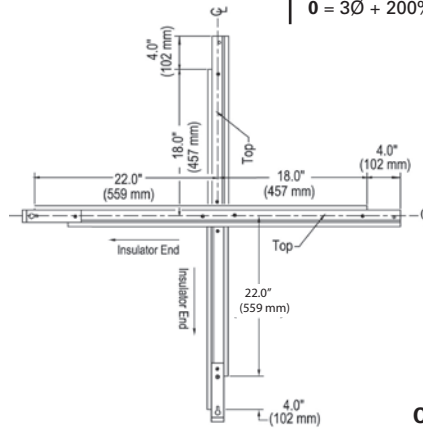
| Prefix    | Type  | Fitting Type |          |          |          | Amp                           | Configuration  | Color                                    |
|-----------|---|--------------|----------|----------|----------|-------------------------------|--|--|
| <b>BW</b> | <b>J</b>  | <b>C</b>     | <b>R</b> | <b>E</b> | <b>2</b> | <b>1</b>                      | <b>7</b>   | <b>A</b>                                 |
| XJ-L HD   |  | C            | R        | E = Edge | 2        | 1 = 100<br>2 = 225<br>4 = 400 | 1 = 3Ø<br>2 = 3Ø + Internal Grd<br>3 = 3Ø + Isolated Grd<br>4 = 3Ø + Internal Grd + Isolated Grd<br>5 = 3Ø + Neutral<br>6 = 3Ø + Neutral + Internal Grd<br>7 = 3Ø + Neutral + Isolated Grd<br>8 = 3Ø + Neutral + Internal Grd + Isolated Grd<br>9 = 3Ø + 200% Neutral<br>0 = 3Ø + 200% Neutral + Internal Ground | A = Graphite<br>G = ANSI 61<br>X = Other |

### Cross

Crosses are fittings used to interconnect two busway runs which are located at right angles to each other.

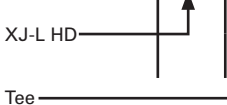
### Cross

| Ampere Rating | Poles | Model Number |
|---------------|-------|--------------|
| 100           | 3     | BWJCRE211G   |
| 100           | 4     | BWJCRE215G   |
| 225           | 3     | BWJCRE221G   |
| 225           | 4     | BWJCRE225G   |
| 400           | 3     | BWJCRE241G   |
| 400           | 4     | BWJCRE245G   |



Cross - Type 2

### Fittings

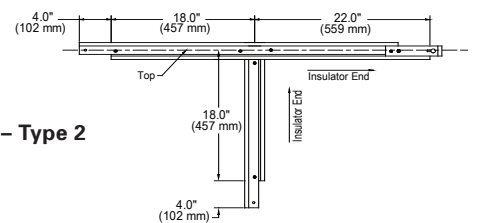
| Prefix    | Type  | Fitting Type |          |          |          | Amp                           | Configuration  | Color                                    |
|-----------|---|--------------|----------|----------|----------|-------------------------------|--|--|
| <b>BW</b> | <b>J</b>  | <b>T</b>     | <b>E</b> | <b>E</b> | <b>2</b> | <b>1</b>                      | <b>7</b>   | <b>A</b>                                 |
| XJ-L HD   |  | T            | E        | E = Edge | 2,4      | 1 = 100<br>2 = 225<br>4 = 400 | 1 = 3Ø<br>2 = 3Ø + Internal Grd<br>3 = 3Ø + Isolated Grd<br>4 = 3Ø + Internal Grd + Isolated Grd<br>5 = 3Ø + Neutral<br>6 = 3Ø + Neutral + Internal Grd<br>7 = 3Ø + Neutral + Isolated Grd<br>8 = 3Ø + Neutral + Internal Grd + Isolated Grd<br>9 = 3Ø + 200% Neutral<br>0 = 3Ø + 200% Neutral + Internal Ground | A = Graphite<br>G = ANSI 61<br>X = Other |

### Tee

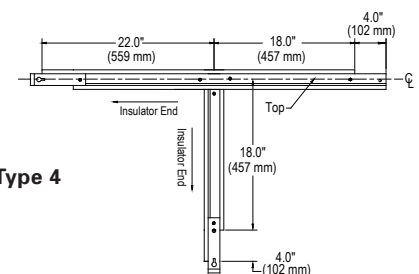
Tees permit a second run of busway to extend at right angles to a straight busway run.

### Tees

| Ampere Rating | Poles | Model Number | Model Number |
|---------------|-------|--------------|--------------|
| 100           | 3     | BWJTEE211G   | BWJTEE411G   |
| 100           | 4     | BWJTEE215G   | BWJTEE415G   |
| 225           | 3     | BWJTEE221G   | BWJTEE421G   |
| 225           | 4     | BWJTEE225G   | BWJTEE425G   |
| 400           | 3     | BWJTEE241G   | BWJTEE441G   |
| 400           | 4     | BWJTEE245G   | BWJTEE445G   |

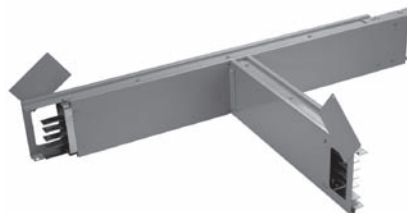


Tee - Type 2



Tee - Type 4

Right Hand Shown

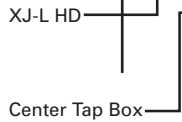


# XJ-L™ HD Busway System

## Tap Boxes

### Center Tap Boxes

| Prefix   | Type | Fitting Type |   |                                      |   | Amp                           | Config. | Color                                    | Tap Box Only <sup>②</sup>          |   |   |   |
|--|------|--------------|---|--------------------------------------|---|-------------------------------|---------|--|------------------------------------|---|---|---|
| BW   | J    | C            | T | L                                    | N | 2                             | 4       | A  | S                                  | A | 1   | N   |
|  |      |              |   | L = Left (rear)<br>R = Right (front) | N | 1 = 100<br>2 = 225<br>4 = 400 |         | A = Graphite<br>G = ANSI 61<br>X = Other | S = Standard<br>X = Custom / Other |   | N = None<br>1 = PAC3200<br>2 = PAC3100<br>X = Other | N = None / NA<br>L = Left<br>R = Right (Inspection Cover Side)<br>X = Other |
| <p>Notes:</p> <p>① Use X for Tap Box Steel</p> <p>② Not required for Flanged End. Leave fields blank</p> <p>1 = 3Ø<br/>2 = 3Ø + Internal Grd<br/>3 = 3Ø + Isolated Grd<br/>4 = 3Ø + Internal Grd + Isolated Grd<br/>5 = 3Ø + Neutral<br/>6 = 3Ø + Neutral + Internal Grd<br/>7 = 3Ø + Neutral + Isolated Grd<br/>8 = 3Ø + Neutral + Internal Grd + Isolated Grd<br/>9 = 3Ø + 200% Neutral<br/>0 = 3Ø + 200% Neutral + Internal Ground</p> <p>A = Std Mech Lug<br/>B = 1.75 Dual Hole (No Lug)<br/>X = Custom / Other<sup>①</sup><br/>D = Extended Box with 500MCM Mechanical</p> |      |              |   |                                      |   |                               |         |  |                                    |   |   |   |

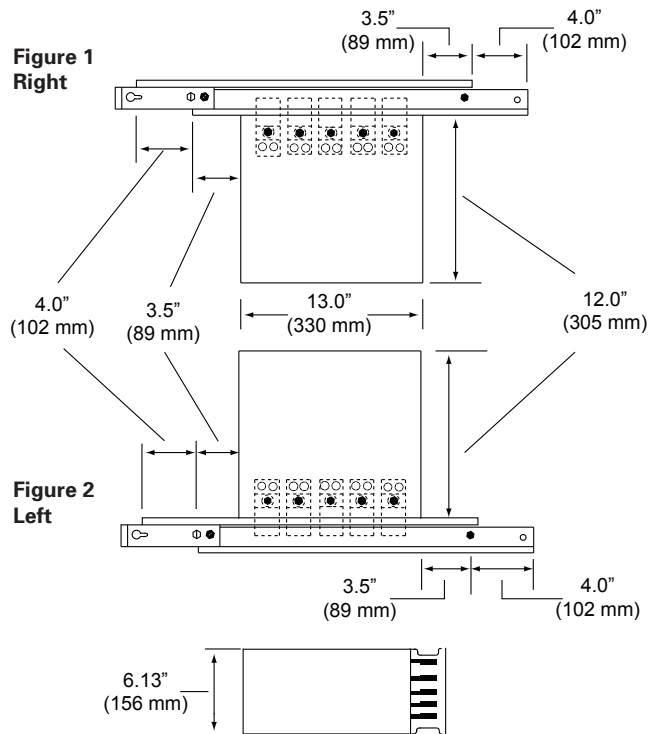


### Center Cable Tap Box

Center tap boxes are non-fusible devices utilized to feed to or take off power from the busway run. When loads served by the busway run do not require over-current protection, center tap boxes may be used. If the application requires additional wiring bending space, extended center tap boxes are available. Center tap boxes are an actual part of the busway run and require a space of 32 in. (810 mm) for installation.



Right Hand Shown



### Center Tap Box

| Ampere Rating | Poles | Model Number Right Connected Fig 1 | Model Number Left Connected Fig 2 | Terminals Provided Qty/Pole and Size Cu/Al wire |
|---------------|-------|------------------------------------|-----------------------------------|---|
| 225           | 3     | BWJCTRN21GSANN                     | BWJCTLN21GSANN                    | (1) 350MCM - #6                                 |
| 225           | 4     | BWJCTRN25GSANN                     | BWJCTLN25GSANN                    | (1) 350MCM - #6                                 |
| 400           | 3     | BWJCTRN41GSANN                     | BWJCTLN41GSANN                    | (2) 350MCM - #6                                 |
| 400           | 4     | BWJCTRN45GSANN                     | BWJCTLN45GSANN                    | (2) 350MCM - #6                                 |

# XJ-L™ HD Busway Systems

## Tap Boxes

### End Tap Boxes

| Prefix   | Type | Fitting Type |   |   |                       | Amp                           | Config. | Color                                    | Tap Box Only <sup>®</sup>          |   |   |   |
|--|------|--------------|---|---|-----------------------|-------------------------------|---------|--|------------------------------------|---|---|---|
| BW   | J    | E            | T | B | R                     | 2                             | 4       | A  | S                                  | A   | 1   | R |
| XJ-L HD  | ↑    | E            | T | B | L = Left<br>R = Right | 1 = 100<br>2 = 225<br>4 = 400 |         | A = Graphite<br>G = ANSI 61<br>X = Other | S = Standard<br>X = Custom / Other | N = None<br>1 = PAC3200<br>2 = PAC3100<br>X = Other | N = None / NA<br>L = Left<br>R = Right (Inspection Cover Side)<br>X = Other |   |
| End Tap Box  |      |              |   |   |                       |                               |         |  |                                    |   |   |   |
| <b>Notes:</b><br>① Use X for Tap Box Steel<br>② Not required for Flanged End. Leave fields blank   |      |              |   |   |                       |                               |         |  |                                    |   |   |   |
| <b>Configurations:</b><br>1 = 3Ø<br>2 = 3Ø + Internal Grd<br>3 = 3Ø + Isolated Grd<br>4 = 3Ø + Internal Grd + Isolated Grd<br>5 = 3Ø + Neutral<br>6 = 3Ø + Neutral + Internal Grd<br>7 = 3Ø + Neutral + Isolated Grd<br>8 = 3Ø + Neutral + Internal Grd + Isolated Grd<br>9 = 3Ø + 200% Neutral<br>0 = 3Ø + 200% Neutral + Internal Ground |      |              |   |   |                       |                               |         |  |                                    |   |   |   |
| <b>Tap Box Steel:</b><br>S = Standard<br>X = Custom / Other  |      |              |   |   |                       |                               |         |  |                                    |   |   |   |
| <b>Lug opt.:</b><br>A = Std Mech Lug<br>B = 1.75 Dual Hole (No Lug)<br>X = Custom / Other <sup>①</sup>   |      |              |   |   |                       |                               |         |  |                                    |   |   |   |
| <b>Meter:</b><br>D = Extended Box with 500MCM Mechanical   |      |              |   |   |                       |                               |         |  |                                    |   |   |   |

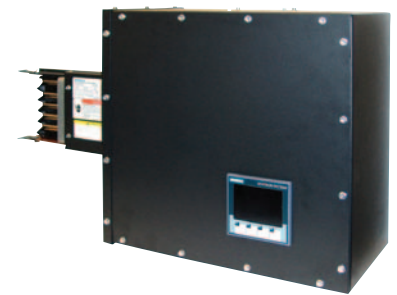
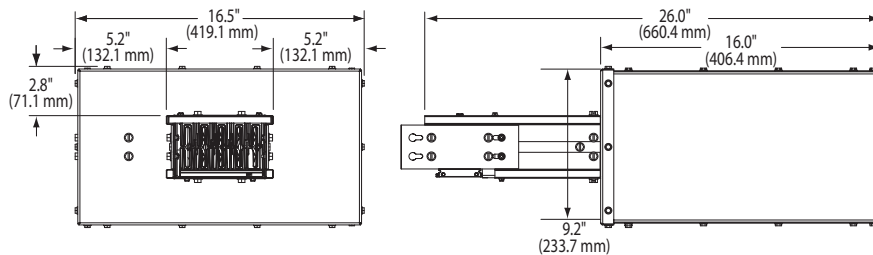
### End Tap Box

End tap boxes are devices used to connect cable and conduit to the end of a busway run or where busway runs connect without the need for over-current protection. End tap boxes may be installed at the end or beginning of a run.

Tap boxes can be configured with surge protection and current monitoring devices.

### End Tap Box

| Ampere Rating | Poles | Model Number | Terminals Provided Qty/Pole and Size Cu/Al wire |
|---------------|-------|--------------|---|
| 100           | 3     | BWJETBR11GS  | (1) 1/0 - #14                                   |
| 100           | 4     | BWJETBR15GS  | (1) 1/0 - #14                                   |
| 225           | 3     | BWJETBR21GS  | (1) 350MCM - #6                                 |
| 225           | 4     | BWJETBR25GS  | (1) 350MCM - #6                                 |
| 400           | 3     | BWJETBR41GS  | (2) 350MCM - #6                                 |
| 400           | 4     | BWJETBR45GS  | (2) 350MCM - #6                                 |



Right Hand Shown

# XJ-L™ HD Busway System

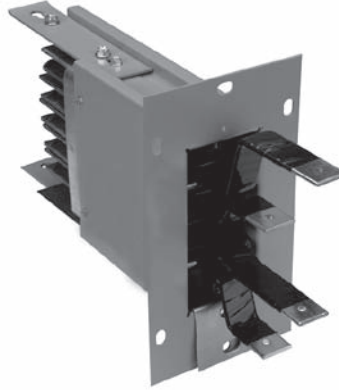
## Flanged Ends

### Flanged End

| Prefix      | Type     | Fitting Type     |                 |          |          | Amp  | Config.  | Color   |
|-------------|----------|------------------|-----------------|----------|----------|--|--|---|
| <b>BW</b>   | <b>J</b> | <b>F</b>         | <b>R</b>        | <b>N</b> | <b>N</b> | <b>2</b>   | <b>4</b>   | <b>A</b>  |
| XJ-L HD     |          | <b>E</b> = Std.  | <b>R</b> = Nema | <b>N</b> | <b>N</b> | <b>1</b> = 100<br><b>2</b> = 225<br><b>4</b> = 400 | <b>1</b> = 3Ø<br><b>2</b> = 3Ø + Internal Grd<br><b>3</b> = 3Ø + Isolated Grd<br><b>4</b> = 3Ø + Internal Grd + Isolated Grd<br><b>5</b> = 3Ø + Neutral<br><b>6</b> = 3Ø + Neutral + Internal Grd<br><b>7</b> = 3Ø + Neutral + Isolated Grd<br><b>8</b> = 3Ø + Neutral + Internal Grd + Isolated Grd<br><b>9</b> = 3Ø + 200% Neutral<br><b>0</b> = 3Ø + 200% Neutral + Internal Ground | <b>A</b> = Graphite<br><b>G</b> = ANSI 61<br><b>X</b> = Other |
| Flanged End |          | <b>X</b> = Other | <b>N</b>        | <b>N</b> |          |  |  |   |

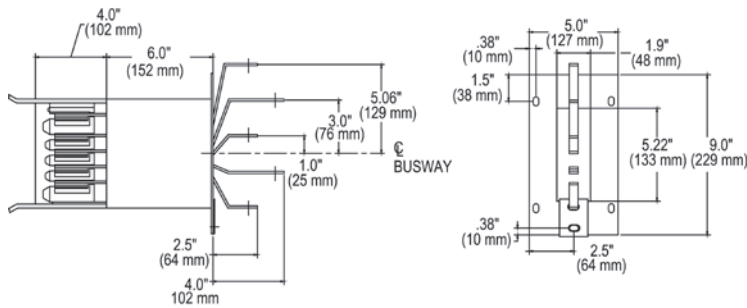
### Flanged end

Flanged ends are used to connect busway to switchboards. Flanged ends come complete with bus bar extensions to facilitate the making of electrical connections.



### Flanged end

| Ampere Rating | Poles | Model Number |
|---------------|-------|--------------|
| 100           | 3     | BWJFENN11GS  |
| 100           | 4     | BWJFENN15GS  |
| 225           | 3     | BWJFENN21GS  |
| 225           | 4     | BWJFENN25GS  |
| 400           | 3     | BWJFENN41GS  |
| 400           | 4     | BWJFENN45GS  |



# XJ-L™ HD Busway Systems

## Accessories

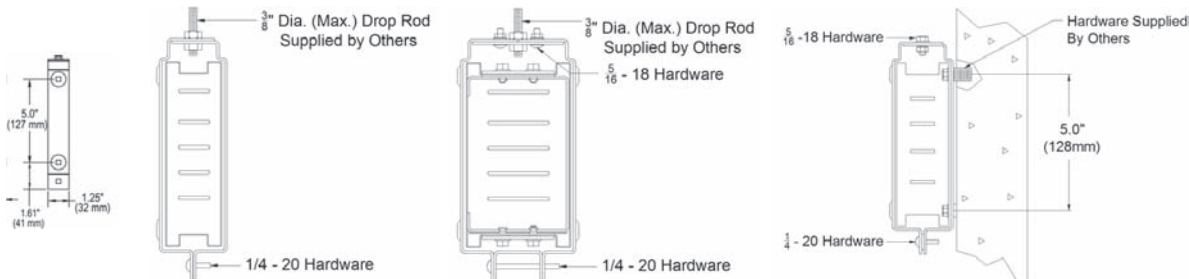
### Busway hanger

XH2 and XH3 hangers are used to support XJ-L HD Busway and can be used with customer supplied rods up to 3/8 inch in diameter. Hangers are adaptable for wall mounting or ceiling suspension arrangements, either edge or flat. Custom mounting solutions available upon request.

#### Busway Hanger

| Ampere Rating | Model Number | Dimm A in. (mm) |
|---------------|--------------|-----------------|
| 100           | BWJH0011G    | 2.25 (57)       |
| 225           | BWJH0012G    | 2.75 (69)       |
| 400           | BWJH0014G    | 4 (101)         |

**Tip:** Bus plug access may be restricted by hangers or drop rods. This should be considered in the system layout.



#### Hangers

| Prefix    | Type     | Fitting Type |          |          | Amp      | Color    |
|-----------|----------|--------------|----------|----------|----------|----------|
|           |          | H            | 0        | 0        |          |          |
| <b>BW</b> | <b>J</b> | <b>H</b>     | <b>0</b> | <b>0</b> | <b>1</b> | <b>G</b> |

001 = Single Drop Rod (XH style)  
 002 = Side Mount for strut channel<sup>①</sup>  
 003 = Saddle Mount for strut channel<sup>①</sup>  
 004 = Pole Mount<sup>①</sup>  
 005 = Dual Drop Rod Saddle<sup>①</sup>  
 006 = Dual/Single Drop Rod Frame  
 XXX = Other<sup>①</sup>

**Notes:**  
<sup>①</sup> MTO-E Custom Product



### End closer

An end closer is used to terminate busway runs. To extend the run, simply remove the end closer and add new sections as needed.



#### End Closer

| Prefix    | Type     | Fitting Type |          |          | Amp      | Color    |
|-----------|----------|--------------|----------|----------|----------|----------|
|           |          | X            | E        | N        |          |          |
| <b>BW</b> | <b>J</b> | <b>X</b>     | <b>E</b> | <b>N</b> | <b>1</b> | <b>G</b> |

XJ-L HD → X E N N  
 End Closer → X E N N

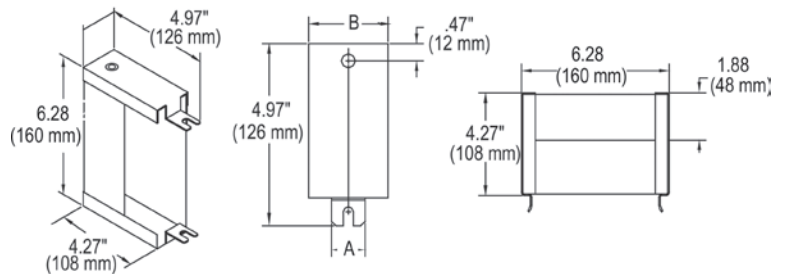
1 = 100  
 2 = 225  
 4 = 400

A = Graphite  
 G = ANSI 61  
 X = Other

#### End Closer

| Ampere Rating | Model Number | Dimm. A in (mm) | Dimm. B in (mm) |
|---------------|--------------|-----------------|-----------------|
| 100           | BWJXENN1G    | 2.06 (52)       | 0.94 (24)       |
| 225           | BWJXENN2G    | 2.31 (59)       | 1.44 (37)       |
| 400           | BWJXENN4G    | 3.44 (87)       | 2.5 (64)        |

**Tip:** Utilization of the busway plug-in opening adjacent to the End Closer may be limited to XQ45 bus plugs. This applies only if the End Closer is located to the Right-hand of the bus plug.



### XOC outlet covers

Replacement outlet covers are available for closing off the plug-in outlets when desired.

#### Outlet Cover

| Ampere Rating | Model Number <sup>①</sup> |
|---------------|---------------------------|
| 100           | BWJXOCN1G                 |
| 225           | BWJXOCN2G                 |
| 400           | BWJXOCN4G                 |



#### Outlet Cover

| Prefix    | Type     | Fitting Type |          |          | Amp      | Color    |
|-----------|----------|--------------|----------|----------|----------|----------|
|           |          | X            | O        | C        |          |          |
| <b>BW</b> | <b>J</b> | <b>X</b>     | <b>O</b> | <b>C</b> | <b>1</b> | <b>G</b> |

XJ-L HD → X O C N  
 Plug-in Cover → X O C N

1 = 100  
 2 = 225  
 4 = 400

A = Graphite  
 G = ANSI 61  
 X = Other



# XJ-L™ HD Busway Systems

## Bus Plugs

Bus plugs for XJ-L Busway are available from 15A to 100A, with molded case circuit breakers or Vacu-Break fusible switches. All XJ-L bus plugs are fully interchangeable with all XJ-L Busway configurations.

Lightweight and portable, plugs can be installed or relocated as required **without de-energizing the busway**. Pre-engineered plug-in opening locations ensure no interference for **greater density** and maximum flexibility. This is especially important in high tech areas requiring frequent movement of equipment.

XJ-L HD Bus Plugs are available with 3 or 6 branch circuit protection in both single and 3-phase configurations, ranging from 15A – 100A for maximum power density and flexibility.

A wide variety of NEMA and IEC receptacles or cord connections are available for the XJ-L Bus Plugs.



### Selection Guide

| Enclosure Type             | Plug-in Spacing           | Breaker Type      | Application  |
|----------------------------|---------------------------|-------------------|--|
| B = 3 Circuit - XQR Series | 20.00 & 9.75 <sup>Ⓞ</sup> | BQ, BQH, HBQ      | XQR style — with duplex receptacle provision. May be used for custom receptacles or when additional wiring space is required |
| C = 3 Circuit HD XPM       | 20.00 & 9.75              | BL, BLH, HBL, BQD | Use for applications that require factory installed breakers and receptacles   |
| D = 3-6 Circuit HD XPM     | 20.00 & 9.75              |                   |  |
| G = XLEC                   | 20.00 & 9.75 <sup>Ⓞ</sup> | ED2,ED4,ED6, HED4 | Cover operable handle. Uses heavy duty E-Frame Breakers  |
| H = XEC                    | 20.00 & 9.75 <sup>Ⓞ</sup> |                   | Uses heavy duty E-Frame breakers   |
| J = Plug-in Tap Box        | 20.00 <sup>Ⓞ</sup>        | na                | Plug-in tap off device - lugs only   |
| K = XLVB Fusible           | 20.00 & 9.75 <sup>Ⓞ</sup> | na                | Cover operable Vacu-Break Switch   |

### Siemens XJ-L™ HD Bus Plugs and Power Modules

Use For Breaker Group = A, B, X<sup>Ⓞ</sup>

| Prefix              | Type     | Enclosure  | System Config.   | Color                                    | Breaker Group  | Ampere Rating or Breaker/Receptacle Arrangement <sup>Ⓞ⑦⑧⑨</sup> | Custom Features |
|---------------------|----------|--|--|--|--|---|-----------------|
| <b>BP</b>           | <b>J</b> | <b>H</b>   | <b>6</b>   | <b>A</b>                                 | <b>A</b>   | <b>E D 4 6 0</b>  | <b>N N</b>      |
| Bus Plug<br>XJ-L HD |          | B = 3 Circuit – XQR Series Receptacle Provision<br>C = 3 Circuit HD XPM<br>D = 3-6 Circuit HD XPM<br>G = XLEC <sup>Ⓞ⑧⑨⑩</sup><br>H = XEC <sup>Ⓞ⑧⑨</sup><br>J = Plug-in Tap Box <sup>Ⓞ⑩⑪⑫</sup><br>K = XLVB Fusible <sup>Ⓞ⑬⑭⑮</sup> | 1 = 3Ø<br>2 = 3Ø + Internal Grd<br>3 = 3Ø + Isolated Grd<br>4 = 3Ø + Internal Grd + Isolated Grd<br>5 = 3Ø + Neutral<br>6 = 3Ø + Neutral + Internal Grd<br>7 = 3Ø + Neutral + Isolated Grd<br>8 = 3Ø + Neutral + Internal Grd + Isolated Grd<br>9 = 3Ø + 200% Neutral<br>0 = 3Ø + 200% Neutral + Internal Ground | A = Graphite<br>G = ANSI 61<br>X = Other | A = Non-Mixed Factory Installed Breakers <sup>Ⓞ</sup><br>E = Enclosure Only (no Breaker) <sup>Ⓞ⑩</sup><br>X = Other / Fusible <sup>Ⓞ</sup> | See Notes below for information                                 | NN = None / NA  |

#### Notes:

- ① Use "A" or "E" for XLEC and XEC
- ② Available in System Configs: 1,2,5,6
- ③ Available in System Configs: 1,2,3,4,5,6,7,8,9
- ④ Available in System Configs: 1,2,5,6
- ⑤ Available in System Configs: 1,2,5,6
- ⑥ For non-breaker style plug use "X" for Breaker Grouping field. (Fusible & Plug-in Tap Box)
- ⑦ For Enclosure = C,E,F see Breaker / Receptacle Arrangement Schedule for Details
- ⑧ For XEC and XLEC Ampere Rating field use ED2xx, ED4xx,ED6xx where xx = 15 to 00 trip rating (100A max).
- ⑨ For XLVB Ampere Rating field use 02xxx for 240V & 06xxx for 600V where xxx = 030, 060, 100 ampere
- ⑩ For Plug-in Tap Box Ampere Rating field use PBxxx where xxx = 100, 200 ampere
- ⑪ Ampere Rating and Custom Features fields not required for Breaker Group = "E". Leave fields blank.
- ⑫ Custom metering available upon request.
- ⑬ Requires two plug-in openings for 9.75 spacing.
- ⑭ 200A Tap Box installs on 20.0 dual side plug-in spacing only. Requires two plug-in openings.

# XJ-L™ HD Busway Systems

## Bus Plugs

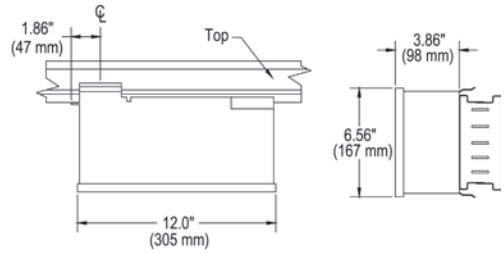
### XQR Series

XQR bus plugs accept BQ, BQH and HBQ circuit breakers. The plugs feature knockouts to facilitate quick installation. The XQR has added wiring space to allow receptacle installation.

#### XQR Series Bus plug (60A max)

| Breaker Type | Volts   | No. of Spaces | Model Number | Model Number |
|--------------|---------|---------------|--------------|--------------|
| QP and BQ    | 120/240 | 3             | BPJB1GE      | BPJB5GE      |

Enclosure Only



#### Accessories for XQR Series

|        |  |
|--------|--|
| XEQH   | Floor Operating Handle (not for 1 pole or 2 pole breakers) |
| W62890 | Bonded Ground Kit  |
| W68101 | Isolated Ground Kit  |



XEQH



W62890



W68101

# XJ-L™ HD Busway Systems

## Bus Plugs

### XPM Series

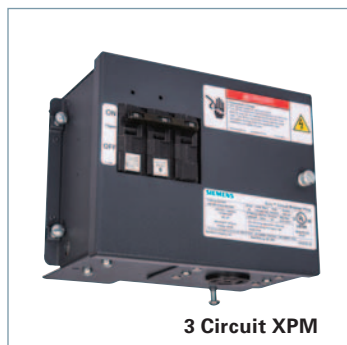
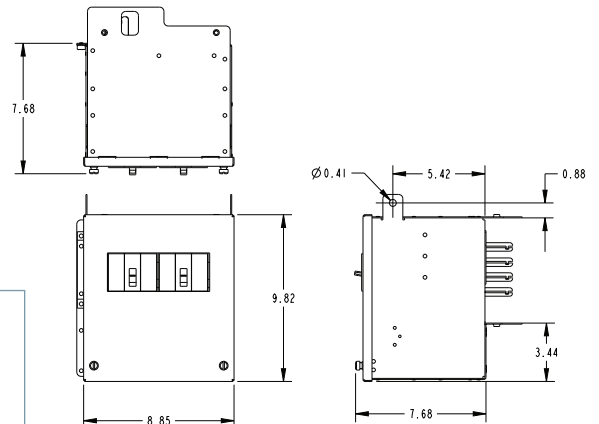
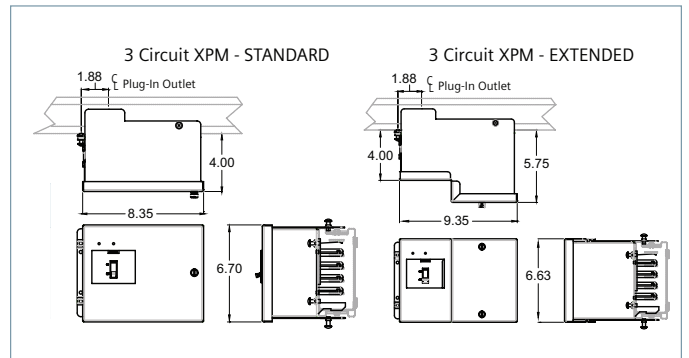
Use for applications that require factory installed breakers and receptacles.

#### XPM Series HD Bus plug 3/6

| Breaker Type | Interrupt Rating (RMS kA) | Config.         | No. of Spaces | Model Number |
|--------------|---------------------------|-----------------|---------------|--------------|
| BL           | 10                        | 1-pole 120V     | 6             | BPJE...      |
| BLH          | 10                        | 1-pole 120V     |               |              |
|              | 22                        | 1-pole 120V     |               |              |
|              | 22                        | 3-pole 240V     |               |              |
|              | 10                        | 2-pole 120/240V |               |              |
|              | 10                        | 3-pole 120/240V |               |              |
|              | 22                        | 2-pole 120/240V |               |              |
| HBL          | 22                        | 3-pole 120/240V |               |              |
|              | 10                        | 1-pole 120V     |               |              |
|              | 22                        | 1-pole 120V     |               |              |
|              | 65                        | 1-pole 120V     |               |              |
|              | 22                        | 3-pole 240V     |               |              |
|              | 65                        | 3-pole 240V     |               |              |
|              | 10                        | 2-pole 120/240V |               |              |
|              | 10                        | 3-pole 120/240V |               |              |
|              | 22                        | 2-pole 120/240V |               |              |
|              | 22                        | 3-pole 120/240V |               |              |
| BQD          | 65                        | 1-pole 120V     |               |              |
|              | 10                        | 1-pole 120V     |               |              |
|              | 10                        | 2-pole 240V     |               |              |
|              | 10                        | 3-pole 240V     |               |              |
|              | 22                        | 2-pole 240V     |               |              |
|              | 22                        | 3-pole 240V     |               |              |
|              | 65                        | 2-pole 240V     |               |              |
|              | 65                        | 3-pole 240V     |               |              |
|              | 10                        | 2-pole 120/240V |               |              |
|              | 10                        | 3-pole 120/240V |               |              |
|              | 22                        | 2-pole 120/240V |               |              |
|              | 22                        | 3-pole 120/240V |               |              |
|              | 65                        | 2-pole 120/240V |               |              |
|              | 14                        | 1-pole 227V     |               |              |
| 14           | 2-pole 227/480V           |                 |               |              |
| 14           | 3-pole 227/480V           |                 |               |              |
| NGB          | 10                        | 1-pole 120V     |               |              |
|              | 22                        | 1-pole 120V     |               |              |
|              | 65                        | 1-pole 120V     |               |              |
|              | 10                        | 2-pole 240V     |               |              |
|              | 10                        | 3-pole 240V     |               |              |
|              | 22                        | 2-pole 240V     |               |              |
|              | 22                        | 3-pole 240V     |               |              |
|              | 65                        | 2-pole 240V     |               |              |
|              | 65                        | 3-pole 240V     |               |              |
|              | 10                        | 2-pole 120/240V |               |              |
|              | 10                        | 3-pole 120/240V |               |              |
|              | 22                        | 2-pole 120/240V |               |              |
|              | 22                        | 3-pole 120/240V |               |              |
|              | 65                        | 2-pole 120/240V |               |              |
| 65           | 3-pole 120/240V           |                 |               |              |
| 14           | 1-pole 227V               |                 |               |              |
| 25           | 1-pole 227V               |                 |               |              |
| 14           | 2-pole 227/480V           |                 |               |              |
| 14           | 3-pole 227/480V           |                 |               |              |
| 25           | 2-pole 227/480V           |                 |               |              |
| 25           | 3-pole 227/480V           |                 |               |              |
| 14           | 1-pole 347V               |                 |               |              |
| 14           | 2-pole 347/600V           |                 |               |              |
| 14           | 3-pole 347/600V           |                 |               |              |

#### XPM Series HD Bus plug 3 Circuit

| Breaker Type | Interrupt Rating (RMS kA) | Config.          | No. of Spaces | Model Number |
|--------------|---------------------------|------------------|---------------|--------------|
| BQ           | 10                        | 1-pole 120V      | 6             | BPJC...      |
|              | 10                        | 2-pole 240 V     |               |              |
|              | 10                        | 3-pole 240 V     |               |              |
|              | 10                        | 2-pole 120/240 V |               |              |
|              | 10                        | 3-pole 120/240 V |               |              |
|              | 10                        | 1-pole 120V      |               |              |
| BQH          | 22                        | 1-pole 120V      |               |              |
|              | 22                        | 3-pole 240 V     |               |              |
|              | 10                        | 2-pole 120/240 V |               |              |
|              | 10                        | 3-pole 120/240 V |               |              |
|              | 22                        | 2-pole 120/240 V |               |              |
|              | 22                        | 3-pole 120/240 V |               |              |
| HBQ          | 10                        | 1-pole 120V      |               |              |
|              | 22                        | 1-pole 120V      |               |              |
|              | 65                        | 1-pole 120V      |               |              |
|              | 22                        | 3-pole 240 V     |               |              |
|              | 65                        | 3-pole 240 V     |               |              |
|              | 10                        | 2-pole 120/240 V |               |              |
|              | 10                        | 3-pole 120/240 V |               |              |
|              | 22                        | 2-pole 120/240 V |               |              |
|              | 22                        | 3-pole 120/240 V |               |              |
| 65           | 2-pole 120/240 V          |                  |               |              |
| 65           | 3-pole 120/240 V          |                  |               |              |



# XJ-L™ HD Busway Systems

## Bus Plugs

### XEC Series

(Cover operable, 100A max)

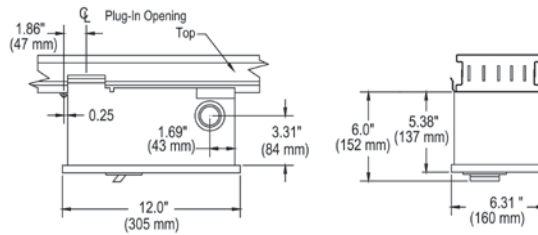
XEC bus plugs accept ED2, ED4, ED6 and HED6 circuit breakers. The plugs feature a spacious chassis which allows room for wire bending and knockout provisions. Isolated ground plugs are available from the factory.

#### XEC Series bus plug

| Breaker Type   | Volts   | Ampere Rating | Model Number   | Model Number   |
|----------------|---------|---------------|----------------|----------------|
| ED2            | 240     | 100           | BPJH1GAED200NN | BPJH5GAED200NN |
| ED4            | 480     | 30            | BPJH1GAED430NN | BPJH5GAED430NN |
| ED6            | 600     | 60            | BPJH1GAED660NN | BPJH5GAED660NN |
| Enclosure Only | 600 Max | 15-100        | BPJH1GE        | BPJH5GE        |



**W62890**  
bonded  
ground kit



### XLEC Series

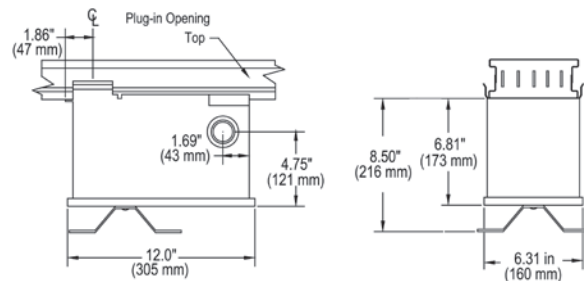
(Floor operable, 100A max)

XLEC bus plugs accept ED2, ED4, ED6 and HED4 circuit breakers. The plugs feature a spacious chassis which allows room for wire bending and knockout provisions. These plugs may be operated from the floor with a pull chain or hookstick.

#### XLEC Series bus plug

| Breaker Type   | Volts   | Ampere Rating | Model Number   | Model Number   |
|----------------|---------|---------------|----------------|----------------|
| ED2            | 240     | 100           | BPJG1GAED200NN | BPJG5GAED200NN |
| ED4            | 480     | 30            | BPJG1GAED430NN | BPJG5GAED430NN |
| ED6            | 600     | 60            | BPJG1GAED660NN | BPJG5GAED660NN |
| Enclosure Only | 600 Max | 15-100        | BPJG1GE        | BPJG5GE        |

Additional add-on features, such as shunt trips, alarm switches, and auxillary contacts are also available for XEC and XLEC bus plugs.



# XJ-L™ HD Busway Systems

## Bus Plugs

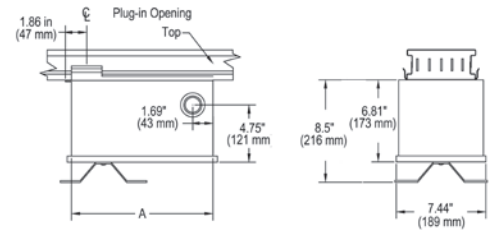
### XLVB Series

(Floor operable, 100A max)  
 XLVB fusible bus plugs utilize the Vacu-Break switching principle, which minimizes arcing and reduces maintenance costs. The Vacu-Break bus plugs are quick-make and quick-break, cover interlocked, horsepower rated, and may be operated from the floor with a pull chain or hookstick.



#### XLVB Series bus plug

| Volts | Ampere Rating | Model Number   | Model Number   |
|-------|---------------|----------------|----------------|
| 240   | 30            | BPJK1GX02030NN | BPJK5GX02030NN |
| 240   | 60            | BPJK1GX02060NN | BPJK5GX02060NN |
| 240   | 100           | BPJK1GX02100NN | BPJK5GX02100NN |
| 600   | 30            | BPJK1GX06030NN | BPJK5GX06030NN |
| 600   | 60            | BPJK1GX06060NN | BPJK5GX06060NN |
| 600   | 100           | BPJK1GX06100NN | BPJK5GX06100NN |

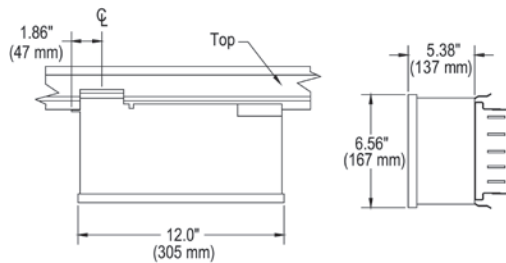


W47185  
 ON/OFF labels



### 100A Plug-in tap box

Plug-in cable tap boxes are non-fusible devices used for end or center feed. The 100A tap boxes can be attached at any plug-in opening.



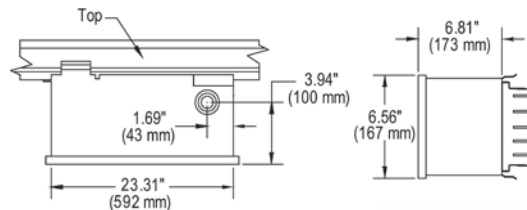
#### 100A Plug-in Tap Box

| Ampere Rating | Poles | Model Number   |
|---------------|-------|----------------|
| 100           | 3     | BWJJ1GXPB100NN |
| 100           | 4     | BWJJ5GXPB100NN |

**Note:** Add suffix letter "G" to catalog number for ground bus.

### 200A Plug-in tap box

Plug-in cable tap boxes are non-fusible devices used for end or center feed. The 200A tap box requires two adjacent openings on 20" centers. 200A plug-in tap boxes are not suitable for use with XJ-L HD Busway.



#### 200A Plug-in Tap Box

| Ampere Rating | Poles | Model Number   |
|---------------|-------|----------------|
| 200           | 3     | BWJJ1GXPB200NN |
| 200           | 4     | BWJJ5GXPB200NN |

**Note:** Add suffix letter "G" to catalog number for ground bus.

W62892  
 Grd Finger Kit

# Busway Power Distribution

BD® Plug-In (225 — 1600 Ampere) Copper

Selection

| Ampere Rating                                  | Plug In 10'-0" Straight Length Catalog Number | Case Dimensions (inches)                                       | Shipping Weight Lb./Ft.        | 90° Elbow Prefix ③④ | Switch-Board Connection⑤ Prefix | Building Expansion Fitting Catalog Number | Cable Tap Box       |                        | End Closure Catalog Number | Hangers® Catalog Number |
|--|---|--|--------------------------------|---------------------|---------------------------------|---|---------------------|------------------------|----------------------------|-------------------------|
|  |   |  |                                |                     |                                 |   | End⑥ Catalog Number | Center⑦ Catalog Number |                            |                         |
| <b>3-Phase, 3-Wire</b>                         |   |  |                                |                     |                                 |   |                     |                        |                            |                         |
| <b>600V or Less</b>                            |   |  |                                |                     |                                 |   |                     |                        |                            |                         |
| 225  | BDP302  | 4 <sup>1</sup> / <sub>16</sub> x 8 <sup>3</sup> / <sub>8</sub> | 9                              | LDP302              | FEP302                          | EJP302                                    | ETB302              | CTB302                 | ECP6                       | BDH10                   |
| 400  | BDP304  | 4 <sup>1</sup> / <sub>16</sub> x 8 <sup>3</sup> / <sub>8</sub> | 12 <sup>1</sup> / <sub>2</sub> | LDP304              | FEP304                          | EJP304                                    | ETB304              | CTB304                 | ECP6                       |                         |
| 600  | BDP306  | 4 <sup>1</sup> / <sub>16</sub> x 8 <sup>3</sup> / <sub>8</sub> | 13 <sup>1</sup> / <sub>2</sub> | LDP306              | FEP306                          | EJP306                                    | ETB306              | CTB306                 | ECP6                       |                         |
| 800  | BDP308  | 6 <sup>1</sup> / <sub>16</sub> x 8 <sup>3</sup> / <sub>8</sub> | 18 <sup>1</sup> / <sub>2</sub> | LDP308              | FEP308                          | EJP308                                    | ETB308              | CTB308                 | ECP10                      |                         |
| 1000   | BDP310  | 6 <sup>1</sup> / <sub>16</sub> x 8 <sup>3</sup> / <sub>8</sub> | 22                             | LDP310              | FEP310                          | EJP310                                    | ETB310              | CTB310                 | ECP10                      | BDH12                   |
| 1350   | BDP313  | 12 <sup>1</sup> / <sub>2</sub> x 8 <sup>3</sup> / <sub>8</sub> | 28                             | LDP313              | FEP313                          | EJP313                                    | ETB313              | CTB313                 | ECA10                      |                         |
| 1600   | BDP316  | 12 <sup>1</sup> / <sub>2</sub> x 8 <sup>3</sup> / <sub>8</sub> | 29                             | LDP316              | FEP316                          | EJP316                                    | ETB316              | CTB316                 | ECA10                      |                         |
| <b>3-Phase, 4-Wire — Full Capacity Neutral</b> |   |  |                                |                     |                                 |   |                     |                        |                            |                         |
| <b>480V or Less</b>                            |   |  |                                |                     |                                 |   |                     |                        |                            |                         |
| 225  | BDP4024                                       | 4 <sup>1</sup> / <sub>16</sub> x 8 <sup>3</sup> / <sub>8</sub> | 12                             | LDP4024             | FEP4024                         | EJP4024                                   | ETB4024             | CTB4024                | ECP6                       | BDH10                   |
| 400  | BDP4044                                       | 4 <sup>1</sup> / <sub>16</sub> x 8 <sup>3</sup> / <sub>8</sub> | 14 <sup>1</sup> / <sub>2</sub> | LDP4044             | FEP4044                         | EJP4044                                   | ETB4044             | CTB4044                | ECP6                       |                         |
| 600  | BDP4064                                       | 4 <sup>1</sup> / <sub>16</sub> x 8 <sup>3</sup> / <sub>8</sub> | 15 <sup>1</sup> / <sub>2</sub> | LDP4064             | FEP4064                         | EJP4064                                   | ETB4064             | CTB4064                | ECP6                       |                         |
| 800  | BDP4084                                       | 8 <sup>3</sup> / <sub>8</sub> x 8 <sup>3</sup> / <sub>8</sub>  | 28                             | LDP4084             | FEP4084                         | EJP4084                                   | ETB4084             | CTB4084                | ECA8                       | BDH12                   |
| 1000   | BDP4104                                       | 8 <sup>3</sup> / <sub>8</sub> x 8 <sup>3</sup> / <sub>8</sub>  | 32                             | LDP4104             | FEP4104                         | EJP4104                                   | ETB4104             | CTB4104                | ECA8                       |                         |
| Rod-Hanger Adapter (optional)                  |   |  | UJ100                          |                     |                                 |   |                     |                        |                            |                         |

## Aluminum to Copper Cross Reference

| Ampere Rating | Plug In 10'-0" Straight Length Catalog Number | Case Dimensions (inches) | Ampere Rating | Plug In 10'-0" Straight Length Catalog Number | Case Dimensions (inches) |
|---------------|---|--------------------------|---------------|---|--------------------------|
|---------------|---|--------------------------|---------------|---|--------------------------|

### Aluminum

#### 3-Phase, 3-Wire

|      |        |  |
|------|--------|--|
| 225  | ABD302 | 4 <sup>1</sup> / <sub>16</sub> x 8 <sup>3</sup> / <sub>8</sub> |
| 400  | ABD304 | 4 <sup>1</sup> / <sub>16</sub> x 8 <sup>3</sup> / <sub>8</sub> |
| 600  | ABD306 | 6 <sup>1</sup> / <sub>16</sub> x 8 <sup>3</sup> / <sub>8</sub> |
| 800  | ABD308 | 6 <sup>1</sup> / <sub>16</sub> x 8 <sup>3</sup> / <sub>8</sub> |
| 1000 | ABD310 | 12 <sup>1</sup> / <sub>2</sub> x 8 <sup>3</sup> / <sub>8</sub> |
| 1200 | ABD312 | 12 <sup>1</sup> / <sub>2</sub> x 8 <sup>3</sup> / <sub>8</sub> |

#### 3-Phase, 4-Wire — Full Capacity Neutral

|      |         |  |
|------|---------|--|
| 225  | ABD4024 | 4 <sup>1</sup> / <sub>16</sub> x 8 <sup>3</sup> / <sub>8</sub> |
| 400  | ABD4044 | 4 <sup>1</sup> / <sub>16</sub> x 8 <sup>3</sup> / <sub>8</sub> |
| 600  | ABD4064 | 6 <sup>1</sup> / <sub>16</sub> x 8 <sup>3</sup> / <sub>8</sub> |
| 800  | ABD4084 | 8 <sup>3</sup> / <sub>8</sub> x 8 <sup>3</sup> / <sub>8</sub>  |
| 1000 | ABD4104 | 12 <sup>1</sup> / <sub>2</sub> x 8 <sup>3</sup> / <sub>8</sub> |
| 1200 | ABD4124 | 12 <sup>1</sup> / <sub>2</sub> x 8 <sup>3</sup> / <sub>8</sub> |

### Copper

#### 3-Phase, 3-Wire

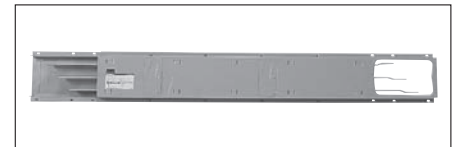
|      |        |  |
|------|--------|--|
| 225  | BDP302 | 4 <sup>1</sup> / <sub>16</sub> x 8 <sup>3</sup> / <sub>8</sub> |
| 400  | BDP304 | 4 <sup>1</sup> / <sub>16</sub> x 8 <sup>3</sup> / <sub>8</sub> |
| 600  | BDP306 | 4 <sup>1</sup> / <sub>16</sub> x 8 <sup>3</sup> / <sub>8</sub> |
| 800  | BDP308 | 6 <sup>1</sup> / <sub>16</sub> x 8 <sup>3</sup> / <sub>8</sub> |
| 1000 | BDP310 | 6 <sup>1</sup> / <sub>16</sub> x 8 <sup>3</sup> / <sub>8</sub> |
| 1350 | BDP313 | 12 <sup>1</sup> / <sub>2</sub> x 8 <sup>3</sup> / <sub>8</sub> |
| 1600 | BDP316 | 12 <sup>1</sup> / <sub>2</sub> x 8 <sup>3</sup> / <sub>8</sub> |

#### 3-Phase, 4-Wire — Full Capacity Neutral

|      |         |  |
|------|---------|--|
| 225  | BDP4024 | 4 <sup>1</sup> / <sub>16</sub> x 8 <sup>3</sup> / <sub>8</sub> |
| 400  | BDP4044 | 4 <sup>1</sup> / <sub>16</sub> x 8 <sup>3</sup> / <sub>8</sub> |
| 600  | BDP4064 | 4 <sup>1</sup> / <sub>16</sub> x 8 <sup>3</sup> / <sub>8</sub> |
| 800  | BDP4084 | 8 <sup>3</sup> / <sub>8</sub> x 8 <sup>3</sup> / <sub>8</sub>  |
| 1000 | BDP4104 | 8 <sup>3</sup> / <sub>8</sub> x 8 <sup>3</sup> / <sub>8</sub>  |

## "M" Rating / Standard Rating Conversion Table

| 1000/A Square Inch "M" Rating | Standard Rating Equivalent |
|-------------------------------|----------------------------|
| 225                           | —                          |
| 400                           | 600                        |
| 600                           | 800                        |
| 800                           | 800                        |
| 1000                          | 1000                       |
| 1200                          | —                          |
| 1350                          | 1350                       |
| 1600                          | 1600                       |
| 2000                          | —                          |
| 2500                          | —                          |
| 3000                          | —                          |
| 4000                          | —                          |

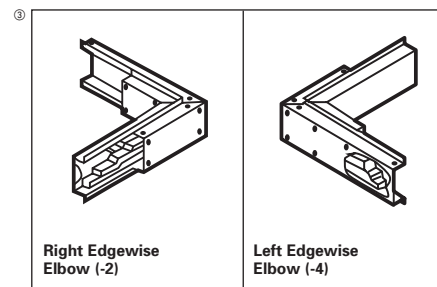


For inches / millimeters conversion, see Application Data Section.

① For higher short circuit ratings add an "H" after the "D" or "P" (ABDH302 or BDPH302). Consult sales office for ratings.

② "GK" suffix is an internal ground bus. For any other ground configuration, consult local sales office. Please use following footage for fittings:

- Elbow - 3'
- SWB - 1'
- End Cable Tap Box - 1'
- Center Cable Tap Box - 10'
- Building Expansion - 10'



| Suffix | Description    |  |
|--------|----------------|--|
| -1     | Right Flatwise | Appropriate suffix must be added to Elbow Catalog Number to order. |
| -2     | Right Edgewise |  |
| -3     | Left Flatwise  |  |
| -4     | Left Edgewise  |  |

③ Switchboard stub includes flange to cover cutout in top of indoor switchboard and 6" of bus inside switchboard. Connecting hardware supplied by switchboard manufacturer.

④ Includes busway stub. Total length added to run is 2' for 225A and 400A aluminum or 225A-600A copper; 3' for all others. Box is designed to connect to offset bus-bar ends. When it is to be connected to straight bus-bar ends, adapter will be furnished upon request.

⑤ Must be factory-assembled to busway. Complete device includes 10' busway.

⑥ Two hangers included free of charge with each busway section, elbow, tee and cross.



# Busway Power Distribution

XL-U® Aluminum (225–5000 Ampere)

Selection

## 225–5000 Amperes / 600 Volts or Less Non-Ventilated 225–600 Amperes

| Busway Catalog Number |                      |                          |                         | Wall Flange Catalog Number | Floor Support Catalog Number | End Closure Catalog Number | Hangers® Catalog Number |
|-----------------------|----------------------|--------------------------|-------------------------|----------------------------|------------------------------|----------------------------|-------------------------|
| Ampere Rating         | Basic Catalog Number | Case Dimensions (inches) | Shipping Weight Lb./Ft. |                            |                              |                            |                         |

### 3-Pole

|     |         |         |    |       |        |       |       |
|-----|---------|---------|----|-------|--------|-------|-------|
| 225 | UH302AB | 4½ x 10 | 8  | UF145 | UFS145 | UE145 | UH145 |
| 400 | UH304AB | 4½ x 10 | 9  | UF145 | UFS145 | UE145 | UH145 |
| 600 | UH306AB | 5½ x 10 | 10 | UF145 | UFS145 | UE155 | UH155 |

### 4-Pole Full Neutral

|     |         |         |    |       |        |       |       |
|-----|---------|---------|----|-------|--------|-------|-------|
| 225 | UH502AB | 4½ x 10 | 8  | UF145 | UFS145 | UE145 | UH145 |
| 400 | UH504AB | 4½ x 10 | 9  | UF145 | UFS145 | UE145 | UH145 |
| 600 | UH506AB | 5½ x 10 | 10 | UF145 | UFS145 | UE155 | UH155 |

## Ventilated 800–5000 Amperes With Ground Bus

| Busway Sections Complete |                          |                      |                          |                         | Wall Flange Catalog Number | Floor Support Catalog Number | End Closure Catalog Number | Hangers® Catalog Number |
|--------------------------|--------------------------|----------------------|--------------------------|-------------------------|----------------------------|------------------------------|----------------------------|-------------------------|
| Ampere Rating①           |                          | Basic Catalog Number | Case Dimensions (inches) | Shipping Weight Lb./Ft. |                            |                              |                            |                         |
| Edge-wise<br>            | Flat-wise<br>—<br>—<br>— |                      |                          |                         |                            |                              |                            |                         |

### 3-Pole

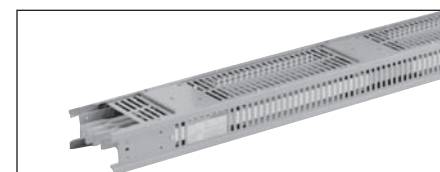
|      |      |         |          |    |       |        |       |       |
|------|------|---------|----------|----|-------|--------|-------|-------|
| 800  | 800  | UH308AV | 4½ x 10  | 10 | UF145 | UFS145 | UE145 | UH145 |
| 1000 | 800  | UH310AV | 4½ x 10  | 11 | UF145 | UFS145 | UE145 | UH145 |
| 1200 | 1000 | UH312AV | 5½ x 10  | 12 | UF155 | UFS145 | UE155 | UH155 |
| 1350 | 1200 | UH313AV | 5½ x 10  | 13 | UF155 | UFS145 | UE155 | UH155 |
| 1600 | 1350 | UH316AV | 7½ x 10  | 16 | UF175 | UFS179 | UE175 | UH175 |
| 2000 | 1600 | UH320AV | 7½ x 10  | 19 | UF175 | UFS179 | UE175 | UH175 |
| 2500 | 2000 | UH325AV | 9½ x 10  | 23 | UF195 | UFS179 | UE175 | UH195 |
| 3000 | 3000 | UH330AV | 7½ x 20% | 32 | UF275 | UFS279 | UE275 | UH275 |
| 4000 | 3500 | UH340AV | 9½ x 20% | 41 | UF295 | UFS279 | UE295 | UH295 |
| 5000 | 4000 | UH350AV | 9½ x 20% | 45 | UF295 | UFS279 | UE295 | UH295 |

### 4-Pole Full Neutral

|      |      |         |          |    |       |        |       |       |
|------|------|---------|----------|----|-------|--------|-------|-------|
| 800  | 800  | UH508AV | 4½ x 10  | 11 | UF145 | UFS145 | UE145 | UH145 |
| 1000 | 800  | UH510AV | 4½ x 10  | 12 | UF145 | UFS145 | UE145 | UH145 |
| 1200 | 1000 | UH512AV | 5½ x 10  | 14 | UF155 | UFS145 | UE155 | UH155 |
| 1350 | 1200 | UH513AV | 5½ x 10  | 15 | UF155 | UFS145 | UE155 | UH155 |
| 1600 | 1350 | UH516AV | 7½ x 10  | 18 | UF175 | UFS179 | UE175 | UH175 |
| 2000 | 1600 | UH520AV | 7½ x 10  | 21 | UF175 | UFS179 | UE175 | UH175 |
| 2500 | 2000 | UH525AV | 9½ x 10  | 26 | UF195 | UFS179 | UE195 | UH195 |
| 3000 | 3000 | UH530AV | 7½ x 20% | 35 | UF275 | UFS279 | UE275 | UH275 |
| 4000 | 3500 | UH540AV | 9½ x 20% | 47 | UF295 | UFS279 | UE295 | UH295 |
| 5000 | 4000 | UH550AV | 9½ x 20% | 52 | UF295 | UFS279 | UE295 | UH295 |

### XLU Suffix Table

| Description            | Suffix |
|------------------------|--------|
| Feeder                 | F      |
| Plug-in                | P      |
| Elbow                  | L      |
| Tee                    | T      |
| Cross                  | X      |
| Switchboard Connection | S      |
| Expansion Section      | J      |
| Center Tap Box         | M      |
| End Tap Box            | B      |
| XFMR Throat            | —      |
| XFMR Tap 1-3 Phase     | —      |
| XFMR Tap 3-1 Phase     | —      |
| Roof Flange            | —      |
| Fused Reducer          | —      |
| Non Fused Reducer      | —      |



① Ventilated XL-U busway has two ratings; see above for edgewise or flatwise mounting.

② For rod-hanger adapter UJ100 see page 15-69.

#### GENERAL NOTES:

- For inches / millimeters conversion, see Application Data Section.
- To form complete catalog number, use basic catalog number and substitute suffix of required item. Example: Basic busway Catalog Number U316AV— accessory switchboard stub with ground bus U316AVSG.
- Totally Enclosed offering is available up to 3000A Al. Replace "V" with "E" in catalog number.
- The following feeder busway footages apply:  
XL-U Elbow 2' XL-U EXP Section 4'  
XL-U Tee 3' XL-U SWBD Stub 1'  
XL-U Cross 4' XL-U Reducer 4'

- For higher short circuit rating add an "HH" after the "U" (UHH302ABP)
- Floor and ceiling flanges are ordered by description.
- Internal ground bar provided as standard.
- For elbows other than 90°, accessory charge is doubled.
- Switchboard stub includes flange to cover cutout in top of indoor switchboard and 8" of bus inside switchboard. Connecting hardware supplied by switchboard manufacturer.
- Transformer throat connection includes gasketed box sized to match throat plus flexible straps and bolts. No Busway footage is included. For connection to transformers not manufactured by Siemens, consult factory

# Busway Power Distribution

XL-U® Copper (225–6500 Amperes)

Selection

## 225–6500 Amperes / 600 Volts or Less Non-Ventilated 225–600 Amperes

| Busway Catalog Number |                      |                          |                         | Wall Flange Catalog Number | Floor Support Catalog Number | End Closure Catalog Number | Hangers® Catalog Number |
|-----------------------|----------------------|--------------------------|-------------------------|----------------------------|------------------------------|----------------------------|-------------------------|
| Ampere Rating         | Basic Catalog Number | Case Dimensions (inches) | Shipping Weight Lb./Ft. |                            |                              |                            |                         |

### 3-Pole

|     |         |         |    |       |        |       |       |
|-----|---------|---------|----|-------|--------|-------|-------|
| 225 | UH302CB | 4½ x 10 | 8  | UF145 | UFS145 | UE145 | UH145 |
| 400 | UH304CB |         | 12 | UF145 | UFS145 | UE145 | UH145 |
| 600 | UH306CB |         | 13 | UF145 | UFS145 | UE145 | UH145 |

### 4-Pole Full Neutral

|     |         |         |    |       |        |       |       |
|-----|---------|---------|----|-------|--------|-------|-------|
| 225 | UH502CB | 4½ x 10 | 9  | UF145 | UFS145 | UE145 | UH145 |
| 400 | UH504CB |         | 13 | UF145 | UFS145 | UE145 | UH145 |
| 600 | UH506CB |         | 15 | UF145 | UFS145 | UE145 | UH145 |

## Ventilated 800–5000 Amperes With Ground Bus

| Busway Sections Complete   |                |                      |                          |                         | Wall Flange Catalog Number | Floor Support Catalog Number | End Closure Catalog Number | Hangers® Catalog Number |
|----------------------------|----------------|----------------------|--------------------------|-------------------------|----------------------------|------------------------------|----------------------------|-------------------------|
| Ampere Rating <sup>①</sup> |                | Basic Catalog Number | Case Dimensions (inches) | Shipping Weight Lb./Ft. |                            |                              |                            |                         |
| Edge-wise<br>              | Flat-wise<br>— |                      |                          |                         |                            |                              |                            |                         |

### 3-Pole

|      |      |         |          |    |       |        |       |       |
|------|------|---------|----------|----|-------|--------|-------|-------|
|      | 800  | UH308CV | 4½ x 10  | 12 | UF145 | UFS145 | UE145 | UH145 |
| 1000 | 1000 | UH310CV | 4½ x 10  | 15 | UF145 | UFS145 | UE145 | UH145 |
| 1200 | 1000 | UH312CV | 4½ x 10  | 16 | UF145 | UFS145 | UE145 | UH145 |
| 1350 | 1200 | UH313CV | 4½ x 10  | 19 | UF145 | UFS145 | UE145 | UH145 |
| 1600 | 1350 | UH316CV | 5½ x 10  | 23 | UF155 | UFS145 | UE155 | UH155 |
| 2000 | 1600 | UH320CV | 5½ x 10  | 26 | UF155 | UFS145 | UE155 | UH155 |
| 2500 | 2000 | UH325CV | 7½ x 10  | 34 | UF175 | UFS179 | UE175 | UH175 |
| 3000 | 2500 | UH330CV | 9½ x 10  | 41 | UF195 | UFS179 | UE195 | UH195 |
| 4000 | 4000 | UH340CV | 7½ x 20% | 57 | UF275 | UFS279 | UE275 | UH275 |
| 5000 | 4500 | UH350CV | 7½ x 20% | 70 | UF275 | UFS275 | UE275 | UH275 |
| 6000 | 5000 | UH360CV | 9½ x 20% | 85 | UF295 | UFS279 | UE295 | UH295 |
| 6500 | 5500 | UH365CV | 9½ x 20% | 98 | UF295 | UFS279 | UE295 | UH295 |

### 4-Pole Full Neutral

|      |      |         |          |     |       |        |       |       |
|------|------|---------|----------|-----|-------|--------|-------|-------|
| 800  | 800  | UH508CV | 4½ x 10  | 14  | UF145 | UFS145 | UE145 | UH145 |
| 1000 | 1000 | UH510CV | 4½ x 10  | 18  | UF145 | UFS145 | UE145 | UH145 |
| 1200 | 1000 | UH512CV | 4½ x 10  | 19  | UF145 | UFS145 | UE145 | UH145 |
| 1350 | 1200 | UH513CV | 4½ x 10  | 23  | UF145 | UFS145 | UE145 | UH145 |
| 1600 | 1350 | UH516CV | 5½ x 10  | 28  | UF155 | UFS145 | UE155 | UH155 |
| 2000 | 1600 | UH520CV | 5½ x 10  | 30  | UF155 | UFS145 | UE155 | UH155 |
| 2500 | 2000 | UH525CV | 7½ x 10  | 42  | UF175 | UFS179 | UE175 | UH175 |
| 3000 | 2500 | UH530CV | 7½ x 10  | 61  | UF195 | UFS179 | UE195 | UH195 |
| 4000 | 4000 | UH540CV | 7½ x 20% | 70  | UF275 | UFS279 | UE275 | UH275 |
| 5000 | 4500 | UH550CV | 7½ x 20% | 86  | UF275 | UFS279 | UE275 | UH275 |
| 6000 | 5000 | UH560CV | 9½ x 20% | 105 | UF295 | UFS279 | UE295 | UH295 |
| 6500 | 5500 | UH565CV | 9½ x 20% | 122 | UF295 | UFS279 | UE295 | UH295 |

### "M" Rating / Standard Rating Conversion Table

| 1000/A Square Inch "M" Rating | Standard Rating Equivalent |
|-------------------------------|----------------------------|
| 225                           | —                          |
| 400                           | —                          |
| 600                           | 800                        |
| 800                           | 1200                       |
| 1000                          | 1350                       |
| 1200                          | 1600                       |
| 1350                          | 2000                       |
| 1600                          | 2500                       |
| 2000                          | 2500                       |
| 2500                          | 3000                       |
| 3000                          | 4000                       |
| 4000                          | 5000                       |

① Ventilated XL-U busway has two ratings; see above for edgewise or flatwise mounting.

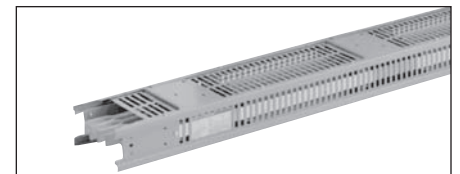
② For rod-hanger adapter UJ100 see page 15-69.

#### GENERAL NOTES:

- For inches / millimeters conversion, see Application Data Section.
- To form complete catalog number, use basic catalog number and substitute suffix of required item. Example: Basic busway Catalog Number U316CV— accessory switchboard stub with ground bus U316CVSG.
- Totally Enclosed offering is available up to 4000A Cu. Replace "V" with "E" in catalog number.
- The following feeder busway footages apply:  
XL-U Elbow 2' XL-U EXP Section 4'  
XL-U Tee 3' XL-U SWBD Stub 1'  
XL-U Cross 4' XL-U Reducer 4'
- For higher short circuit rating add an "HH" after the "U" (UHH302CBP)
- Floor and ceiling flanges are ordered by description.
- Internal ground bar provided as standard.

### XLU Suffix Table

| Description            | Suffix |
|------------------------|--------|
| Feeder                 | F      |
| Plug-in                | P      |
| Elbow                  | L      |
| Tee                    | T      |
| Cross                  | X      |
| Switchboard Connection | S      |
| Expansion Section      | J      |
| Center Tap Box         | M      |
| End Tap Box            | B      |
| XFMR Throat            | —      |
| XFMR Tap 1-3 Phase     | —      |
| XFMR Tap 3-1 Phase     | —      |
| Roof Flange            | —      |
| Fused Reducer          | —      |
| Non Fused Reducer      | —      |



- For elbows other than 90°, accessory charge is doubled.
- Switchboard stub includes flange to cover cutout in top of indoor switchboard and 8" of bus inside switchboard. Connecting hardware supplied by switchboard manufacturer.
- Transformer throat connection includes gasketed box sized to match throat plus flexible straps and bolts. No Busway footage is included. For connection to transformers not manufactured by Siemens, consult factory

# Busway Power Distribution

XL-X®, XL-U®, BD® Plug-In Units

Selection

## Circuit Breaker Plugs

As of June 2014, Siemens no longer supplies a complete solution for Legacy bus plug offerings.

### Floor Operable

| Breaker Type | AC Volts | Ampere Rating   | 3-Phase, 3-Wire                     |                                     |   | 3-Phase, 4-Wire                     |                                     |  |
|--------------|----------|-----------------|-------------------------------------|-------------------------------------|---|-------------------------------------|-------------------------------------|--|
|              |          |                 | Enclosure Only <sup>②</sup>         |                                     |   | Enclosure Only <sup>②</sup>         |                                     |  |
|              |          |                 | Catalog Number <sup>②</sup><br>XL-X | Catalog Number <sup>②</sup><br>XL-U | Catalog Number <sup>②</sup><br>BD Plug-In <sup>①②</sup> | Catalog Number <sup>②</sup><br>XL-X | Catalog Number <sup>②</sup><br>XL-U | Catalog Number <sup>②</sup><br>BD Plug-In <sup>①②③</sup> |
| ED2          | 240      | 15-60<br>70-100 | REC3100G                            | UEC3100G                            | BEC3100   | REC4100G                            | UEC4100G                            | BEC4100  |
| ED4          | 480      | 15-60<br>70-100 |                                     |                                     |   |                                     |                                     |  |
| ED6          | 600      | 15-60<br>70-100 |                                     |                                     |   |                                     |                                     |  |
| FD6, FXD     |          | 70-250          | RFC3250G                            | UFC3250G                            | BFC3250   | RFC4250G                            | UFC4250G                            | BFC4250  |

### I-T-E Fusible Vacu-Break® Switch Plugs Floor-Operable with Line Terminal Protection

| Volts                  | Ampere Rating | 3-Phase, 3-Wire    |                      |                |        |                                      | 3-Phase, 4-Wire        |                      |                |        |                                      |
|------------------------|---------------|--------------------|----------------------|----------------|--------|--------------------------------------|------------------------|----------------------|----------------|--------|--------------------------------------|
|                        |               | Horsepower Ratings |                      | Catalog Number |        |                                      | Horsepower Ratings, AC |                      | Catalog Number |        |                                      |
|                        |               | Standard (NEC)     | Maximum (Time Delay) | XL-X           | XL-U   | BD <sup>③</sup> Plug-In <sup>①</sup> | Standard (NEC)         | Maximum (Time Delay) | XL-X           | XL-U   | BD <sup>③</sup> Plug-In <sup>①</sup> |
| 250 AC<br>or<br>250 DC | 30            | 3                  | 7½                   | RV321G         | UV321G | BOS14321                             | 3                      | 7½                   | RV421G         | UV421G | BOS16421                             |
|                        | 60            | 7½                 | 15                   | RV322G         | UV322G | BOS14322                             | 7½                     | 15                   | RV422G         | UV422G | BOS16422                             |
|                        | 100           | 15                 | 30                   | RV323G         | UV323G | BOS14323                             | 15                     | 30                   | RV423G         | UV423G | BOS16423                             |
| 600 AC                 | 200           | 25                 | 60                   | RV324G         | UV324G | BOS14324                             | 25                     | 60                   | RV424G         | UV424G | BOS16424                             |
|                        | 30            | 7½                 | 20                   | RV361G         | UV361G | BOS14351                             | 5                      | 15                   | RV461G         | UV461G | BOS16451                             |
|                        | 60            | 15                 | 50                   | RV362G         | UV362G | BOS14352                             | 15                     | 30                   | RV462G         | UV462G | BOS16452                             |
| 600 AC                 | 100           | 30                 | 75                   | RV363G         | UV363G | BOS14353                             | 25                     | 60                   | RV463G         | UV463G | BOS16453                             |
|                        | 200           | 60                 | 150                  | RV364G         | UV364G | BOS14354                             | 50                     | 125                  | RV464G         | UV464G | BOS16454                             |

### Fuse Adapter Kits — RV and UV

| Amperage | Class "J" Catalog Number | Class "T" Catalog Number | Class "R" Catalog Number |
|----------|--------------------------|--------------------------|--------------------------|
|----------|--------------------------|--------------------------|--------------------------|

#### 240V AC/250V DC

|     |   |        |        |
|-----|---|--------|--------|
| 30  | ④ | ④      | W56626 |
| 60  | ④ | ④      | W56628 |
| 100 | ④ | TFAK32 | W55365 |
| 200 | ④ | TFAK42 | W55366 |

#### 600V

|     |   |        |        |
|-----|---|--------|--------|
| 30  | ④ | ④      | W56627 |
| 60  | ④ | ④      | W56629 |
| 100 | ④ | TFAK35 | W55365 |
| 200 | ④ | TFAK45 | W55366 |

### Field Addable Ground Kits for BD Bus Plugs Fusible

| Ampere Rating | Catalog Number |
|---------------|----------------|
| 30-60         | W63231         |
| 100           | W63232         |
| 200           | W63233         |

Note: These are for use on busway with internal ground bus manufactured after March, 1986. For ground kits prior to this date, consult local sales office.

### Fuse Adapter Kits — BOS

| Amperage | Class "J" Catalog Number | Class "T" Catalog Number | Class "R" Catalog Number |
|----------|--------------------------|--------------------------|--------------------------|
|----------|--------------------------|--------------------------|--------------------------|

#### 240V AC/250V DC

|     |        |        |        |
|-----|--------|--------|--------|
| 30  | ④      | ④      | W56626 |
| 60  | ④      | ④      | W56628 |
| 100 | W49827 | TFAK32 | W55365 |
| 200 | W49819 | TFAK42 | W55366 |

#### 600V

|     |        |        |        |
|-----|--------|--------|--------|
| 30  | W49832 | ④      | W56627 |
| 60  | W49830 | ④      | W56629 |
| 100 | W49828 | TFAK35 | W55365 |
| 200 | W49818 | TFAK45 | W55366 |

① Grounding Finger — See table.

② Enclosures available from stock. When ordering circuit breaker bus plugs complete with breaker, factory-installed, allow time for assembly and SPECIFY enclosure frame size, phase and ampere rating. Example: One UEC3100—ED4—3P—70A—factory assembled

③ When BD busway capacity exceeds 400A for aluminum or 600A for copper, capacity must be specified to obtain proper number and arrangement of neutral fingers.

④ Not required.

⑤ Replace "—" with "1" or "2".

See Table: BD Bus Plug Catalog Number Ref. shown on Page 15-61.

# Busway Power Distribution

XL-X®, XL-U® and BD® Plug-In Units and Cubicles

Selection

## Shipping Weights — Pounds

### For Circuit Breaker Bus Plugs Only

| Breaker Type        | Ampere Rating | 3-Phase, 3-Wire |             |                   |             | 3-Phase, 4-Wire |             |                   |             |
|---------------------|---------------|-----------------|-------------|-------------------|-------------|-----------------|-------------|-------------------|-------------|
|                     |               | Enclosure Only  |             | Complete Assembly |             | Enclosure Only  |             | Complete Assembly |             |
|                     |               | XL-U<br>XL-X    | BD,<br>LO-X | XL-U<br>XL-X      | BD,<br>LO-X | XL-U<br>XL-X    | BD,<br>LO-X | XL-U<br>XL-X      | BD,<br>LO-X |
| ED2,<br>ED4,<br>ED6 | 15–100        | 12              | 14          | 13                | 15          | 13              | 15          | 14                | 10          |
| FD6,<br>FXD         | 70–250        | 1               | 27          | 51                | 37          | 45              | 28          | 55                | 38          |

### Fusible and Molded Case Circuit Breaker Cubicles

See page 15-7 for typical configurations.

## Shipping Weights — Pounds

### For Fusible Switch Bus Plugs Only

| Switch Ampere Rating | 3-Phase, 3-Wire    |               | 3-Phase, 4-Wire    |               |
|----------------------|--------------------|---------------|--------------------|---------------|
|                      | XL-X<br>XL-U       | BD, LO-X      | XL-X<br>XL-U       | BD, LO-X      |
|                      | Prefix<br>RV<br>UV | Prefix<br>BOS | Prefix<br>RV<br>UV | Prefix<br>BOS |
| 30,60                | 17                 | 15            | 19                 | 12            |
| 100                  | 17                 | 18            | 19                 | 18            |
| 200                  | 36                 | 34            | 38                 | 36            |

## Special Bus Plugs

| Description   | Catalog Number |          |          |
|---|----------------|----------|----------|
|   | XL-U           | XL-X     | BD, LO-X |
| Ground Detector and Potentializer—<br>For 2 or 3-pole 240 and 480 Volt service. | UPGR314G       | RPGR314G | PGR6314  |

## BD Bus Plug Catalog Number Reference

| Catalog Number | ABD4 Busway   |               |               |               |                |                | BDP4 Busway   |               |               |               |                |                |                |  |
|----------------|---------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|--|
|                | 225<br>ABD402 | 400<br>ABD404 | 600<br>ABD406 | 800<br>ABD408 | 1000<br>ABD410 | 1200<br>ABD412 | 225<br>BDP402 | 400<br>BDP404 | 600<br>BDP406 | 800<br>BDP408 | 1000<br>BDP410 | 1350<br>BDP413 | 1600<br>BDP416 |  |
| BOS16451       | —             | —             | ✓             | —             | ✓              | ✓              | —             | —             | —             | —             | —              | ✓              | ✓              |  |
| BOS16452       | —             | ✓             | —             | ✓             | —              | —              | —             | ✓             | ✓             | ✓             | ✓              | —              | —              |  |

As of June 2014, Siemens no longer supplies a complete solution for Legacy bus plug offerings.

# Busway Power Distribution

Notes

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BUSWAY SYSTEMS