

Sentron Busway Systems

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 and 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 (See Sentron Selection and Application Guide)

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 RISER 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 and for each building expansion joint. The Busway run must be positioned accordingly to accommodate the Expansion Section(s).

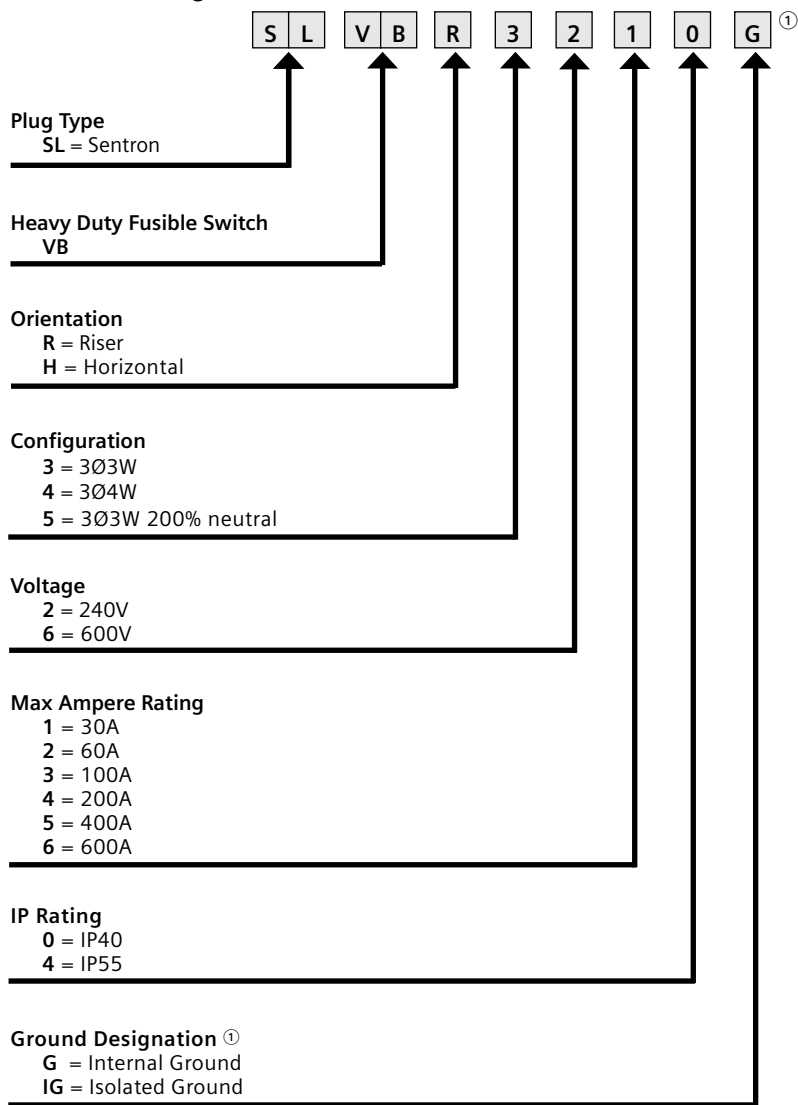
Outdoor Busway:

- 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

Sentron Busway Systems

Bus Plug Catalog Numbering System

Sentron Bus Plugs – Fusible



^① The G and IG digits are used to specify internal and isolated ground respectively. Integral (housing) ground plugs do not require this digit.
Note: Ground Detector and Potentializer Bus Plugs for 2 or 3 pole 240V and 480V service. (IP40 construction only)

Sentron Busway Systems

Fusible Bus Plugs

The Sentron SLVB Bus Plug meets all UL and CSA standards to assure reliable performance in all environments. The installer and end user will appreciate new features like Highly Visible Position Indicator, Dual Stab Busway Interlocks, Dual Cover Interlocks, and Bolt-on Mounting.

Sentron SLVB Fusible Bus Plugs are available in 30, 60, 100, 200, 400 and 600 amp ratings (compatible with H, R, T, K and J fuses).



Standard Fusible, Bus Plug Ratings

Plug-In Units Series	Max. Rating Fused Switch	Fuse Class	Fuse Kits		Max. Short Circuit Current Rating
			R Fuse Kits	T Fuse Kits	
SLVB_21	30A, 240V	H, K, R	HR21	—	200kA, 240V, 3ph
SLVB_61	30A, 600V	H, K, R, J	HR612	—	200kA, 600V, 3ph
SLVB_22	60A, 240V	H, K, R	HR612	—	200kA, 240V, 3ph
SLVB_62	60A, 600V	H, K, R, J	HR62	—	200kA, 600V, 3ph
SLVB_23	100A, 240V	H, K, R, J, T	HR63	—	200kA, 240V, 3ph
SLVB_63	100A, 600V	H, K, R, J, T	HR63	HT63	200kA, 600V, 3ph
SLVB_24	200A, 240V	H, K, R, J, T	HR64	HT24	200kA, 240V, 3ph
SLVB_64	200A, 600V	H, K, R, J, T	HR64	HT64	200kA, 600V, 3ph
SLVB_25	400A, 240V	H, K, R, J, T	HR656	—	200kA, 240V, 3ph
SLVB_65	400A, 600V	H, K, R, J, T	HR656	—	200kA, 600V, 3ph
SLVB_26	600A, 240V	H, K, R, J, T	HR656	—	200kA, 240V, 3ph
SLVB_66	600A, 600V	H, K, R, J, T	HR656	—	200kA, 600V, 3ph

Standard Fusible, Bus Plug Horsepower Ratings

Plug-In Units Series	Fused Switch Max. Rating	240V, 1 ph		240V, 3 ph		480V, 3 ph		600V, 3 ph	
		Std.	Max.	Std.	Max.	Std.	Max.	Std.	Max.
SLVB_21	30A, 240V	1.5	3.0	3.0	7.5	—	—	—	—
SLVB_61	30A, 600V	—	—	—	—	5.0	15.0	7.5	20.0
SLVB_22	60A, 240V	3.0	10.0	7.5	15.0	—	—	—	—
SLVB_62	60A, 600V	—	—	—	—	15.0	30.0	15.0	50.0
SLVB_23	100A, 240V	7.5	15.0	15.0	30.0	—	—	—	—
SLVB_63	100A, 600V	—	—	—	—	25.0	60.0	30.0	75.0
SLVB_24	200A, 240V	15.0	—	25.0	60.0	—	—	—	—
SLVB_64	200A, 600V	—	—	—	—	50.0	125.0	60.0	150.0
SLVB_25	400A, 240V	15.0	—	50.0	125.0	—	—	—	—
SLVB_65	400A, 600V	—	—	—	—	100.0	250.0	125.0	350.0
SLVB_26	600A, 240V	15.0	—	75.0	200.0	—	—	—	—
SLVB_66	600A, 600V	—	—	—	—	150.0	400.0	200.0	500.0

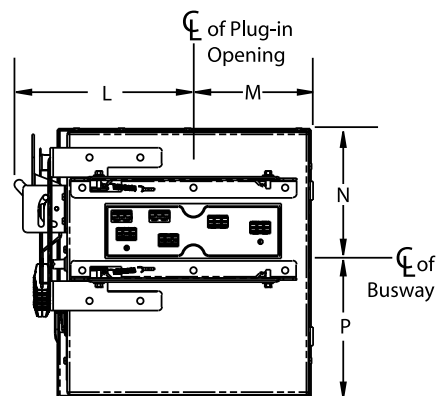
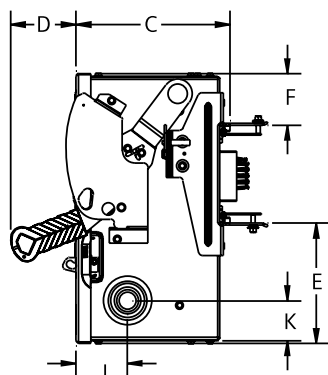
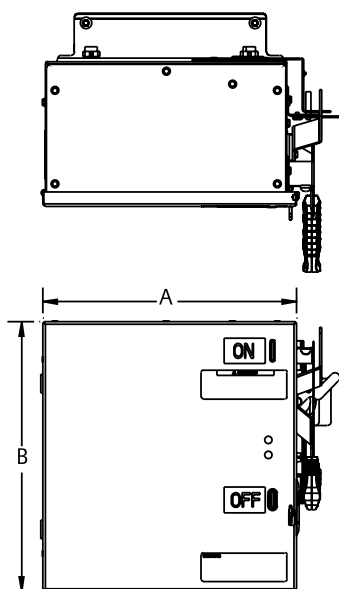
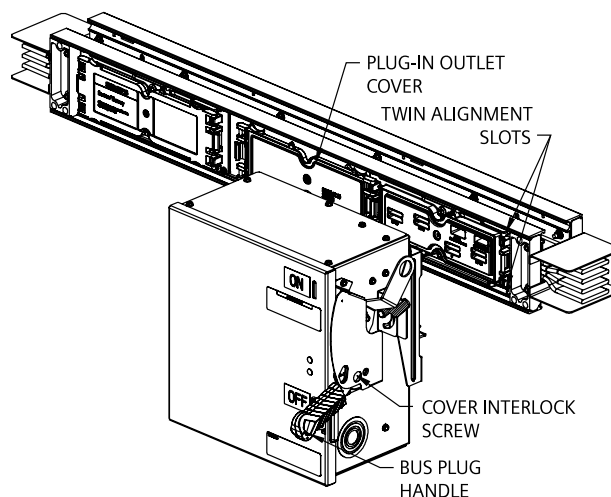


Sentron Busway Systems

Fusible Bus Plugs Dimensions and Weights

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 (333)	13.86 (352)	7.96 (202)	2.60 (66)	6.18 (156)	2.66 (67)	2.65 (67)	2.06 (52)	9.81 (249)	6.22 (157)	5.30 (134)	8.63 (219)	23.5 (10.66)
60	13.13 (333)	14.86 (377)	7.96 (202)	2.60 (66)	7.18 (182)	2.66 (67)	2.65 (67)	2.06 (52)	9.81 (249)	6.22 (157)	5.30 (134)	9.63 (244)	25.5 (11.56)
100	13.13 (333)	15.86 (402)	7.96 (202)	2.60 (66)	8.18 (207)	2.66 (67)	2.65 (67)	2.06 (52)	9.81 (249)	6.22 (157)	5.30 (134)	10.53 (267)	28.0 (12.70)
200	14.88 (377)	22.86 (580)	10.58 (268)	2.60 (66)	15.88 (403)	2.66 (67)	3.40 (86)	3.06 (78)	9.81 (249)	7.95 (201)	5.30 (134)	17.62 (447)	49.0 (22.22)
400	18.63 (473)	25.36 (644)	15.67 (398)	5.50 (140)	12.67 (322)	7.67 (195)	12.15 (309)	3.06 (78)	11.80 (299)	9.43 (239)	11.90 (302)	15.15 (384)	100.0 (254)
600	18.63 (473)	25.36 (644)	15.67 (398)	5.50 (140)	12.67 (322)	7.67 (195)	12.15 (309)	3.06 (78)	11.80 (299)	9.43 (239)	11.90 (302)	15.15 (384)	100.0 (254)

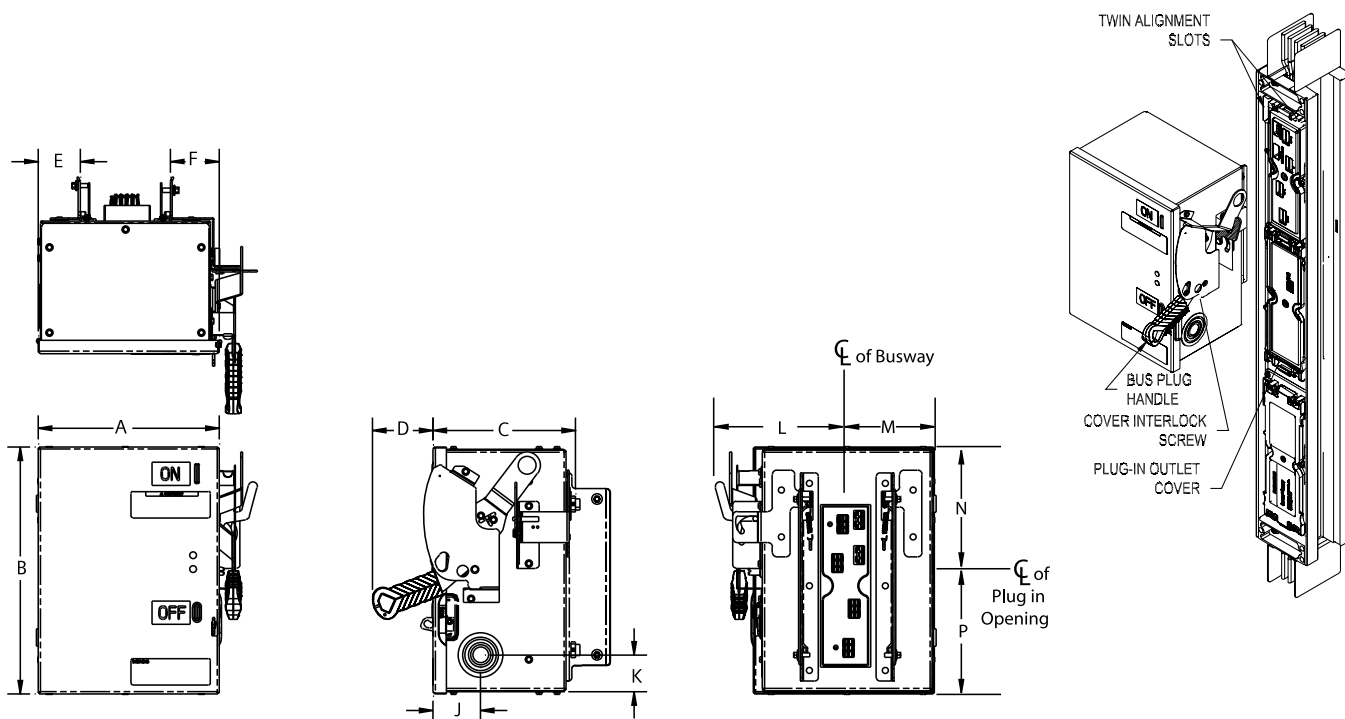


Sentron Busway Systems

Fusible Bus Plugs Dimensions and Weights

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)	7.83 (198)	6.09 (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)	7.83 (198)	7.09 (180)	25.5 (11.56)
100	11.13 (282)	15.86 (402)	7.96 (202)	5.25 (133)	3.48 (196)	3.36 (85)	2.65 (67)	2.06 (52)	8.06 (204)	6.08 (154)	7.83 (198)	8.09 (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)	9.08 (230)	13.84 (351)	49.0 (22.22)
400	18.63 (473)	25.36 (644)	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)	25.36 (644)	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)



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	#6-350MCM	(2) 1/0-250MCM or (1) 1/0-750MCM	(2) 1/0-250MCM or (1) 1/0-750MCM	7/8 (22)
600	#6-350MCM	(4) 1/0-250MCM or (2) 1/0-750MCM	(4) 1/0-250MCM or (2) 1/0-750MCM	7/8 (22)