

SJB Series 316L Stainless Steel Junction Boxes

Explosion Protected Terminal Enclosure

NEC/CEC:
Class I Zone 1
Exe/AExe II, T5 or T6
IP66

CEC:
Type 4X

Applications

- Terminal, junction box enclosure for various electrical devices.
- Designed for use in areas designed for Zone 1, where flammable gases or vapors are present either continuously or intermittently such as:
 - Petroleum
 - Chemical
 - Refineries
 - Other industrial process facilities.
 - Food processing
 - Dairy
 - Brewing
 - Other commercial facilities.
- Ideal for wet or corrosive atmospheres.

Features

- Austenitic stainless steel contains at least 10.5% Chrome (Cr). Chrome is a protective layer that shields the material from humidity in the air.
- 316L stainless steel contains Molybdenum (Mo), which provides excellent corrosion resistance especially against chlorides.
- Smooth, continuous welded seams.
- Different sizes and depths to choose from.
- Available in three depths, 95 mm (3.74"), 200 mm (7.87") and 300 mm (11.81").
- Can be supplied with 1, 2, 3 or even 4 neoprene sealed gland plates for ease of cable installation.
- 316L Stainless steel captive screws.
- Hinges standard on all sizes above 370 mm x 260 mm (14.57" x 10.24").
- Poured in place polyurethane door gasket.
- M8 feed-thru earth/ground stud.
- Reversible door, opens 210 degrees, from any location top/bottom, left or right, by means of removable hinges that can be installed in any position.
- Reversible anti vibration mounting brackets, on the top, bottom or side positions.
- Optional patented removable pad locking device.
- Numerous optional accessories.

Standard Materials

- Enclosure: 316L stainless steel
- Hardware: 316L stainless steel

Options

- Mounting pan
- Gland plates
- Interior side rails
- DIN rails
- Side rail and DIN rail assembly
- Terminal Blocks (enclosure size varies, based on # terminals blocks, cross section or terminal block, current, ambient temperature and desired T rating, contact your local sales representative.)
- Ground bars
- Terminals for ground bar
- Terminal spacers: 100 mm (3.94") or 50 mm (1.97")
- Padlocking device
- Locking hinge
- Factory drilled entries
- Enclosure coupling kit available, contact your local sales representative.

Without Terminals



Equipped with Terminals



NEC/CEC Certifications and Compliances

- cCSAus Listed: 013017
- CSA Type 4X with approved breather

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Illustrated Features



Optional Patented Removable Locking Device.
Part Number **097209**.



Patented Reversible Door. Opens to 210°, top, bottom, left or right, by moving the location of the hinges.



Patented Reversible Anti-vibration mounting brackets, can be mounted in top, side or bottom positions.



Polyurethane Poured in Place Door Gasket and Stainless Steel Captive Screws.



M8 Feed-thru Earth/Ground Terminal.



Optional Removable Gland Plate.

Catalog Numbering Guide

Confirm size and gland plate availability in below table.

<u>SJB</u>	<u>12</u>	<u>12</u>	<u>95</u>	<u>0</u>	<u>N</u>	<u>25</u>	<u>010</u>
SJB Series			Depth Dimensions mm (in): 95 - 95 (3.74) 15 - 150 (5.91) 20 - 200 (7.87) 30 - 300 (11.81)			Terminal Block Size mm ² (AWG): 25 - 2.5 (14) 04 - 4.0 (12) 06 - 6.0 (10) 10 - 10.0 (8) 16 - 16.0 (6) 35 - 35.0 (2)	
	Height Dimensions mm (in): 12 - 120 (4.72) 18 - 180 (7.09) 22 - 220 (8.66) 26 - 260 (10.24) 37 - 370 (14.57) 56 - 560 (22.05) 75 - 750 (29.58) 11 - 1130 (44.49)			Gland Plates: 0 - None 1 - One bottom 2 - One top and bottom 3 - Two sides and bottom 4 - All sides			Terminal Block Quantity: 010 - 10 050 - 50 100 - 100
		Width Dimensions mm (in): 12 - 120 (4.72) 18 - 180 (7.09) 22 - 220 (8.66) 26 - 260 (10.24) 37 - 370 (14.57) 56 - 560 (22.05) 75 - 750 (29.58)			Mounting Pan: N - None P - Mounting pan		

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Dimension in Millimeters (Inches)			Possible Gland Plates					Catalog Number
Height	Width	Depth	0	1	2	3	4	
120.0 (4.72)	120.0 (4.72)	95.0 (3.74)	✓	—	—	—	—	SJB1212950
120.0 (4.72)	180.0 (7.09)	95.0 (3.74)	✓	—	—	—	—	SJB1218950
180.0 (7.09)	120.0 (4.72)	95.0 (3.74)	✓	—	—	—	—	SJB1812950
180.0 (7.09)	180.0 (7.09)	95.0 (3.74)	✓	—	—	—	—	SJB1818950
220.0 (8.66)	260.0 (10.24)	150.0 (5.91)	✓	✓	✓	✓	✓	SJB222615*
260.0 (10.24)	220.0 (8.66)	150.0 (5.91)	✓	✓	✓	✓	✓	SJB262215*
220.0 (8.66)	370.0 (14.57)	200.0 (7.87)	✓	✓	✓	✓	✓	SJB223720*
370.0 (14.57)	220.0 (8.66)	200.0 (7.87)	✓	✓	✓	✓	✓	SJB372220*
260.0 (10.24)	370.0 (14.57)	200.0 (7.87)	✓	✓	✓	✓	✓	SJB263720*
370.0 (14.57)	260.0 (10.24)	200.0 (7.87)	✓	✓	✓	✓	✓	SJB372620*
370.0 (14.57)	370.0 (14.57)	200.0 (7.87)	✓	✓	✓	✓	✓	SJB373720*
370.0 (14.57)	560.0 (22.05)	200.0 (7.87)	✓	✓	✓	✓	✓	SJB375620*
560.0 (22.05)	370.0 (14.57)	200.0 (7.87)	✓	✓	✓	✓	✓	SJB563720*
370.0 (14.57)	750.0 (29.53)	200.0 (7.87)	✓	✓	✓	✓	✓	SJB377520*
750.0 (29.53)	370.0 (14.57)	200.0 (7.87)	✓	✓	✓	✓	✓	SJB753720*
560.0 (22.05)	560.0 (22.05)	200.0 (7.87)	✓	✓	✓	✓	✓	SJB565620*
560.0 (22.05)	750.0 (29.53)	200.0 (7.87)	✓	✓	✓	✓	✓	SJB567520*
370.0 (14.57)	370.0 (14.57)	300.0 (11.81)	✓	✓	✓	✓	✓	SJB373730*
370.0 (14.57)	560.0 (22.05)	300.0 (11.81)	✓	✓	✓	✓	✓	SJB375630*
560.0 (22.05)	370.0 (14.57)	300.0 (11.81)	✓	✓	✓	✓	✓	SJB563730*
370.0 (14.57)	750.0 (29.53)	300.0 (11.81)	✓	✓	✓	✓	✓	SJB377530*
750.0 (29.53)	370.0 (14.57)	300.0 (11.81)	✓	✓	✓	✓	✓	SJB753730*
560.0 (22.05)	560.0 (22.05)	300.0 (11.81)	✓	✓	✓	✓	✓	SJB565630*
560.0 (22.05)	750.0 (29.53)	300.0 (11.81)	✓	✓	✓	✓	✓	SJB567530*
750.0 (29.53)	560.0 (22.05)	300.0 (11.81)	✓	✓	✓	✓	✓	SJB755630*
1130.0 (44.49)	750.0 (29.53)	300.0 (11.81)	✓	✓	✓	✓	✓	SJB117530*

* To complete the catalog numbers please indicate the gland plate option with the suffix -0, -1, -2, -3, -4, and any other option suffixes desired.

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Maximum Terminal Block Information

To order terminal blocks: Use nomenclature below. Supplied installed on a mounting pan. Can be installed on uprights and rails. Contact your local sales representative.

Catalog Number	Number Rails Horizontal	Terminal Size mm (AWG)	Qty. Max. Physical	Terminal Amp	Qty. Max. at Max. Amps	Terminal Amp
SJB121295	1	2.5 (14)	10	10	4	15
SJB121295	1	4.0 (12)	8	10	5	20
SJB121895	1	2.5 (14)	20	10	9	15
SJB121895	1	4.0 (12)	18	10	10	20
SJB181295	1	2.5 (14)	10	10	4	15
SJB181295	1	4.0 (12)	8	10	5	20
SJB181895	1	2.5 (14)	21	10	10	15
SJB181895	1	4.0 (12)	18	15	11	20
SJB222615	2	2.5 (14)	40	10	18	15
SJB222615	2	4.0 (12)	30	15	18	20
SJB262215	1	4.0 (12)	23	10	15	20
SJB262215	1	6.0 (10)	17	20	12	30
SJB223720	3	4.0 (12)	48	10	27	20
SJB223720	3	6.0 (10)	36	20	15	30
SJB372220	1	4.0 (12)	41	15	27	20
SJB372220	1	6.0 (10)	31	20	15	30
SJB263720	3	4.0 (12)	69	10	30	20
SJB263720	2	6.0 (10)	32	20	18	30
SJB372620	2	4.0 (12)	82	10	30	20
SJB372620	2	6.0 (10)	62	15	18	30
SJB373720	3	6.0 (10)	93	10	21	30
SJB373720	2	10.0 (8)	74	20	21	40
SJB375620	4	6.0 (10)	124	15	30	30
SJB375620	4	10.0 (8)	100	20	28	40
SJB563720	3	6.0 (10)	165	10	30	30
SJB563720	3	10.0 (8)	132	15	27	40

Catalog Number	Number Rails Horizontal	Terminal Size mm (AWG)	Qty. Max. Physical	Terminal Amp	Qty. Max. at Max. Amps	Terminal Amp
SJB377520	6	10.0 (8)	150	15	30	40
SJB377520	5	16.0 (6)	100	20	30	50
SJB753720	3	10.0 (8)	189	15	33	40
SJB753720	2	16.0 (6)	104	20	32	50
SJB565620	4	10.0 (8)	176	15	36	40
SJB565620	4	16.0 (6)	104	30	36	50
SJB567520	5	16.0 (6)	180	20	45	50
SJB567520	4	35.0 (2)	116	40	32	90
SJB373730	3	6.0 (10)	93	15	27	30
SJB373730	2	10.0 (8)	74	20	26	40
SJB375630	4	6.0 (10)	124	15	36	30
SJB375630	4	10.0 (8)	100	20	32	40
SJB563730	3	6.0 (10)	165	10	36	30
SJB563730	3	10.0 (8)	132	20	33	40
SJB377530	6	10.0 (8)	150	20	42	40
SJB377530	5	16.0 (6)	100	30	40	50
SJB753730	3	10.0 (8)	189	15	42	40
SJB753730	2	16.0 (6)	104	30	42	50
SJB565630	4	10.0 (8)	176	20	44	40
SJB565630	4	16.0 (6)	104	30	44	50
SJB567530	5	16.0 (6)	180	20	55	50
SJB567530	4	35.0 (2)	116	40	36	90
SJB755630	3	16.0 (6)	104	30	54	50
SJB755630	3	35.0 (2)	84	50	36	90
SJB117530	6	35.0 (2)	252	40	60	90
SJB117530	4	70.0 (00)	112	80	36	145

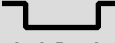
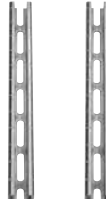
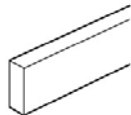
* Maximum physical at amperage indicated, capable of accepting more terminals at lower amperage. Contact your local sales representative.

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		Catalog Number	
		 Symmetrical Depth = 15 mm (0.59")	 Asymmetrical
Zinc Plated Steel Rail			
<i>For fixing onto uprights with clip nut supplied.</i>			
 Symmetrical	Enclosure Length mm (in)	Rail Length mm (in)	
	120 (4.72)	100 (3.93)	097246 —
	180 (7.09)	160 (6.30)	097247 —
	220 (8.66)	170 (6.69)	097240 097250
	260 (10.24)	210 (8.27)	097241 097251
 Asymmetrical	370 (14.57)	320 (12.60)	097242 097252
	560 (22.05)	510 (20.08)	097243 097253
	750 (29.53)	700 (27.56)	097244 097254
	1130 (44.49)	1080 (42.52)	097245 097255
			Catalog Number
Zinc Plated Steel Uprights		Enclosure Length mm (in)	Bar Length mm (in)
<i>Set of two.</i>			
	220 (8.66)	160 (6.30)	097230
	260 (10.24)	200 (7.87)	097231
	370 (14.57)	310 (12.20)	097232
	560 (22.05)	500 (19.68)	097233
	750 (29.53)	690 (27.17)	097234
	1130 (44.49)	1070 (42.13)	097235
Copper Bar 12 x 4 mm (0.47 x 0.16")			
<i>Copper bar not perforated for cable clamps.</i>			
	220 (8.66)	160.0 (6.30)	097270
	260 (10.24)	200.0 (7.87)	097271
	370 (14.57)	310.0 (12.20)	097272
	560 (22.05)	500.0 (19.68)	097273
	750 (29.53)	690.0 (27.17)	097274
	1130 (44.49)	1070.0 (42.13)	097275
Cable Clamp for Copper Bar 12 x 4 mm (0.47 x 0.16")			
	1.5 mm ² to 4 mm ² (0.002 in ² to 0.006 in ²) Capacity — Set of 100		097203
	6 mm ² to 16 mm ² (0.009 in ² to 0.025 in ²) Capacity — Set of 10		097204

APPLETON™

ENCLOSURES AND JUNCTION BOXES: NEC/CEC INCREASED SAFETY JUNCTION BOXES

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Enclosure Dimensions mm (in)		Mounting Pan Dimensions	Catalog Number
Height	Width		
Mounting Pan – Zinc Plated Steel			
120 (4.72)	120 (4.72)	100 x 100 (3.93 x 3.93)	097277
120 (4.72)	180 (7.09)	100 x 160 (3.93 x 6.30)	097278
180 (7.09)	180 (7.09)	160 x 160 (6.30 x 6.30)	097279
220 (8.66)	260 (10.24)	160 x 200 (6.30 x 7.87)	097280
220 (8.66)	370 (14.57)	160 x 310 (6.30 x 12.20)	097281
260 (10.24)	370 (14.57)	200 x 310 (7.87 x 12.20)	097282
370 (14.57)	370 (14.57)	310 x 310 (12.20 x 21.20)	097283
370 (14.57)	560 (22.05)	310 x 500 (12.20 x 19.68)	097284
370 (14.57)	750 (29.53)	310 x 690 (12.20 x 27.17)	097285
560 (22.05)	560 (22.05)	500 x 500 (19.68 x 19.68)	097286
560 (22.05)	750 (29.53)	500 x 690 (19.68 x 27.17)	097287
1130 (44.49)	750 (29.53)	690 x 1070 (27.17 x 42.13)	097288
Spacers for Mounting at Back of Box			
Set of two insulated pillars for copper bar 12 x 4 mm (.47 x .16").			
Height = 100.0 mm (3.94")			097206
Height = 50.0 mm (1.97")			097207
Additional Door Padlocking Device			
Padlock not supplied			097209