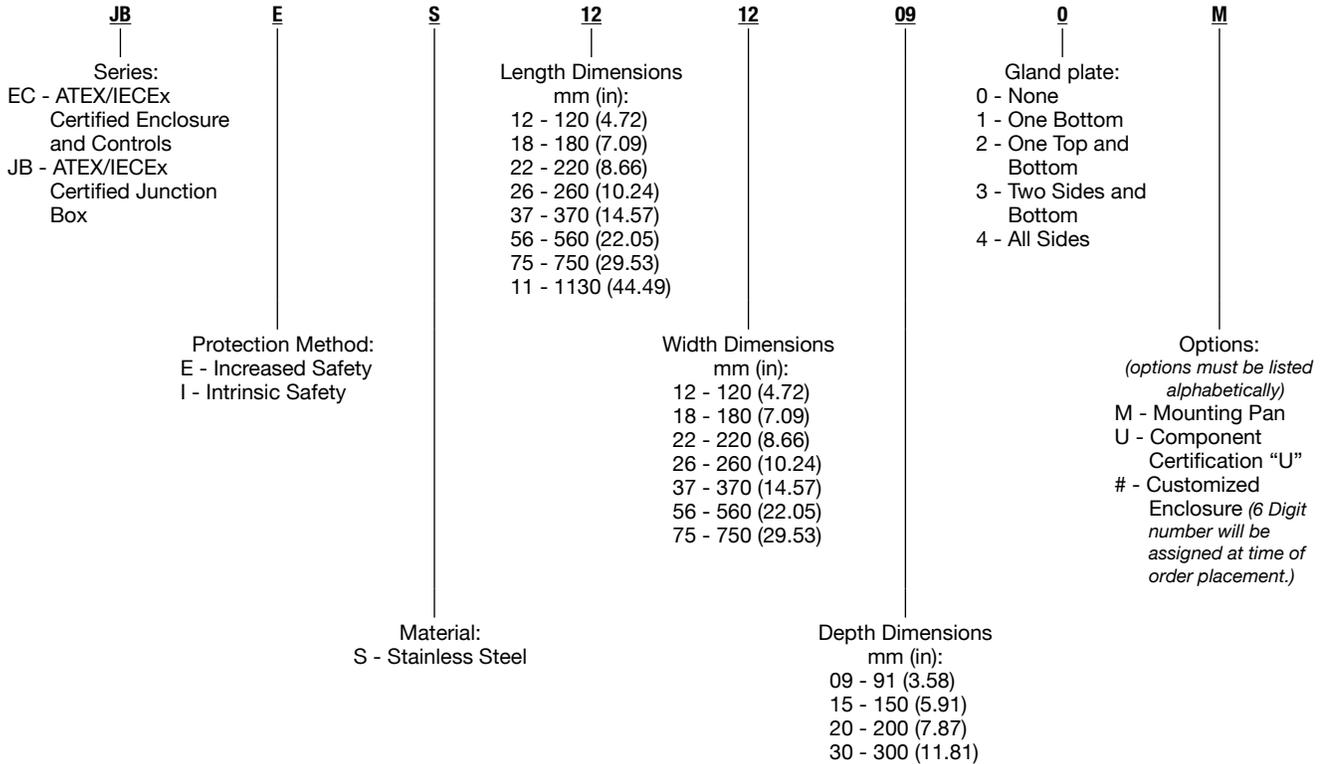


# ATX™ JBES and ECES Series 316L Stainless Steel Enclosures

## Increased Safety

ATEX/IECEX:  
 Zone 1 and 2 - 21 and 22  
 II 2 GD  
 IP66 - IK10

### Catalog Numbering Guide — JBES and ECES 316L Stainless Steel Enclosures



ENCLOSURES AND JUNCTION BOXES: ATEX/IECEX INCREASED SAFETY JUNCTION BOXES

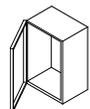
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ATEX/IECEX:  
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### JBES Series

Type	Dimensions L x W x D mm (in)	Hinged Door ②	Vertical Orientation Rail Length mm (in)	Horizontal Orientation Rail Length mm (in)	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
JBe10	120 x 120 x 95 (4.72 x 4.72 x 3.74)	N	–	100.0 (3.94)	1.0 (2.20)	1.4 (85.43)	JBES1212090
JBe20	120 x 180 x 95 (4.72 x 7.09 x 3.74)	N	–	160.0 (6.30)	1.5 (3.31)	2.0 (122.05)	JBES1218090
JBe30	180 x 180 x 95 (7.09 x 7.09 x 3.74)	N	–	160.0 (6.30)	1.8 (3.97)	3.0 (183.07)	JBES1818090
JBe36	220 x 260 x 150 (8.66 x 10.24 x 5.91)	R	170.0 (6.69)	210.0 (8.27)	5.0 (11.02)	8.6 (524.80)	JBES2226150
JBe36	260 x 220 x 150 (10.24 x 8.66 x 5.91)	R	210.0 (8.27)	170.0 (6.69)	5.0 (11.02)	8.6 (524.80)	JBES2622150
JBe46	220 x 370 x 200 (8.66 x 14.57 x 7.87) ①	R	170.0 (6.69)	320.0 (12.60)	8.5 (18.74)	16.3 (994.69)	JBES2237200
JBe47	260 x 370 x 200 (10.24 x 14.57 x 7.87) ①	Y	210.0 (8.27)	320.0 (12.60)	9.0 (19.84)	19.3 (1177.76)	JBES2637200
JBe46	370 x 220 x 200 (14.57 x 8.66 x 7.87) ①	R	320.0 (12.60)	170.0 (6.69)	8.5 (18.74)	16.6 (1012.99)	JBES3722200
JBe47	370 x 260 x 200 (14.57 x 10.24 x 7.87) ①	Y	320.0 (12.60)	210.0 (8.27)	9.0 (19.84)	19.3 (1177.76)	JBES3726200
JBe55	370 x 370 x 200 (14.57 x 14.57 x 7.87) ①	Y	320.0 (12.60)	320.0 (12.60)	13.0 (28.66)	27.4 (1672.05)	JBES3737200
JBe65	370 x 560 x 200 (14.57 x 22.05 x 7.87) ①	Y	320.0 (12.60)	510.0 (20.08)	19.0 (19.84)	41.5 (2532.49)	JBES3756200
JBe75	370 x 750 x 200 (14.57 x 29.53 x 7.87) ①	Y	320.0 (12.60)	700.0 (27.56)	24.0 (52.91)	55.5 (3386.82)	JBES3775200
JBe65	560 x 370 x 200 (22.05 x 14.57 x 7.87) ①	Y	510.0 (20.08)	320.0 (12.60)	19.0 (19.84)	41.5 (2532.49)	JBES5637200
JBe77	560 x 560 x 200 (22.05 x 22.05 x 7.87) ①	Y	510.0 (20.08)	510.0 (20.08)	28.0 (61.73)	62.8 (3832.29)	JBES5656200
JBe79	560 x 750 x 200 (22.05 x 29.53 x 7.87) ①	Y	510.0 (20.08)	700.0 (27.56)	33.0 (72.75)	84.0 (5125.99)	JBES5675200
JBe75	750 x 370 x 200 (29.53 x 14.57 x 7.87) ①	Y	700.0 (27.56)	320.0 (12.60)	24.0 (52.91)	55.5 (3386.82)	JBES7537200
JBe79	750 x 560 x 200 (29.53 x 22.05 x 7.87) ①	Y	700.0 (27.56)	510.0 (20.08)	33.0 (72.75)	84.0 (5125.99)	JBES7556200
JBe86	1130 x 750 x 300 (44.49 x 29.53 x 11.81)	Y	1080.0 (42.52)	700.0 (27.56)	50.0 (110.23)	235.0 (14340.58)	JBES1175300



① 200.0 mm (7.87") depth enclosure available with 300.0 mm (11.81") depth – replace digit 2 with 3 – Example: JBES3737304.

② N: Not Available, R: On request or separate accessories, Y: Supplied.

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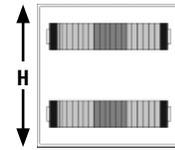
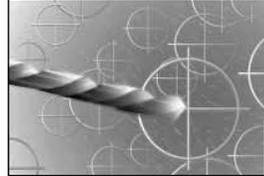
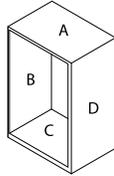
ATEX/IECEX:  
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### JBES Series for Terminal Junction Box Application Only.

Use the table shown below to select the proper size junction box based upon your requirements.  
Custom drilled and equipped boxes can be configured using our drilling guide available online at [www.appletonelec.com](http://www.appletonelec.com).

#### 1. Define maximum cable entries according to number of modules available per side.

Cable Entry Metric Thread	Number of Modules
M20	1
M25	1
M32	1
M40	2
M50	3



Type	Dimensions mm (in)			Number of Modules		Number of Modules ①		Terminal Dim. H — mm (in)
	Height	Width	Depth	A/C	B/D	A'/C'	B'/D'	
JBe10	120 (4.72)	120 (4.72)	95 (3.74)	5	5	—	—	220 (8.66)
JBe20	120 (4.72)	180 (7.09)	95 (3.74)	9	5	—	—	220 (8.66)
JBe30	180 (7.09)	180 (7.09)	95 (3.74)	9	9	—	—	220 (8.66)
JBe36	220 (8.66)	260 (10.24)	150 (5.91)	11	7	9	5	220 (8.66)
JBe36	260 (10.24)	220 (8.66)	150 (5.91)	7	11	5	9	260 (10.24)
JBe46	220 (8.66)	370 (14.57)	200 (7.87)	31	16	19	7	260 (10.24)
JBe46	370 (14.57)	220 (8.66)	200 (7.87)	16	31	7	9	370 (14.57)
JBe47	370 (14.57)	260 (10.24)	200 (7.87)	20	31	14	20	370 (14.57)
JBe47	260 (10.24)	370 (14.57)	200 (7.87)	31	20	19	10	260 (10.24)
JBe55	370 (14.57)	370 (14.57)	200 (7.87)	31	31	19	18	370 (14.57)
JBe65	560 (22.05)	370 (14.57)	200 (7.87)	31	49	19	31	560 (22.05)
JBe65	370 (14.57)	560 (22.05)	200 (7.87)	49	31	34	18	370 (14.57)
JBe75	750 (29.53)	370 (14.57)	200 (7.87)	31	66	19	47	750 (29.53)
JBe75	370 (14.57)	750 (29.53)	200 (7.87)	66	31	49	18	370 (14.57)
JBe77	560 (22.05)	560 (22.05)	200 (7.87)	49	49	34	31	560 (22.05)
JBe79	750 (29.53)	560 (22.05)	200 (7.87)	49	66	34	45	750 (29.53)
JBe79	560 (22.05)	750 (29.53)	200 (7.87)	66	49	49	31	560 (22.05)
JBe86	1130 (44.49)	750 (29.53)	300 (11.81)	102	—	82	—	1130 (44.49)

#### 2. Maximum rail arrangement according to physical dimensions.

Terminal Capacity mm <sup>2</sup> (in <sup>2</sup> )	Maximum Quantity of Horizontal Rails Per Quantity							
	2.5 (0.004)	4 (0.006)	6 (0.009)	10 (0.016)	16 (0.025)	35 (0.054)	50 (0.078)	70 (0.109)
JBe10/20/30/36	1	1	1	1	1	1	0	0
JBe36/46/47	2	2	2	1	1	1	0	0
JBe46/47/55/65/75	3	3	2	2	2	2	1	1
JBe65/77/79	5	5	4	4	4	3	2	2
JBe75/79	7	7	6	6	5	4	3	2
JBe86	10	10	9	9	8	6	4	4

① Enclosure with gland plate.

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### 3. Defining maximum terminal block quantity according to power dissipation:

- Junction boxes used for instrumentation applications carry very low current levels. Therefore there is no risk of overheating whatever the number of terminals inside the box.
- For applications other than instrumentation, the following tables allow you to define your junction box depending on the number of terminals and the maximum authorized current being carried with feed-through terminals.
- For single feed terminals using cross connection, consult factory for calculation.

For other terminal block configurations, please consult our drilling guide available online at [www.appletonelec.com](http://www.appletonelec.com).

T Rating: T6 @ Ta +55° C (+131 °F)		Type		
		JBe10 120 x 120 x 95 mm (5 x 5 x 4")	JBe20 120 x 180 x 95 mm (5 x 7 x 4")	JBe30 180 x 180 x 95 mm (7 x 7 x 4")
2.5 mm <sup>2</sup> (0.004 in <sup>2</sup> )	Quantity	10	21	21
	I Maximum	16 A	16 A	16 A
4 mm <sup>2</sup> (0.006 in <sup>2</sup> )	Quantity	8	17	16
	I Maximum	25 A	25 A	25 A
6 mm <sup>2</sup> (0.009 in <sup>2</sup> )	Quantity	6	13	13
	I Maximum	32 A	32 A	32 A
10 mm <sup>2</sup> (0.016 in <sup>2</sup> )	Quantity	5	10	9
	I Maximum	50 A	50 A	50 A

T Rating: T6 @ Ta +55° C (+131 °F)		Type			
		JBe36 220 x 260 x 150 mm (9 x 10 x 6")	JBe46 220 x 370 x 200 mm (9 x 15 x 8")	JBe47 260 x 370 x 200 mm (10 x 15 x 8")	JBe55 370 x 370 x 200 mm (15 x 15 x 8")
2.5 mm <sup>2</sup> (0.004 in <sup>2</sup> )	Quantity	33	50	70	110
	I Maximum	16 A	14 A	12 A	10 A
4 mm <sup>2</sup> (0.006 in <sup>2</sup> )	Quantity	21	38	62	80
	I Maximum	25 A	20 A	16 A	15 A
6 mm <sup>2</sup> (0.009 in <sup>2</sup> )	Quantity	19	22	23	26
	I Maximum	32 A	32 A	32 A	32 A
10 mm <sup>2</sup> (0.016 in <sup>2</sup> )	Quantity	12	14	15	20
	I Maximum	50 A	50 A	50 A	45 A
16 mm <sup>2</sup> (0.024 in <sup>2</sup> )	Quantity	8	10	17	20
	I Maximum	63 A	63 A	50 A	50 A
25 mm <sup>2</sup> (0.039 in <sup>2</sup> )	Quantity	12	14	16	20
	I Maximum	80 A	80 A	76 A	76 A
35 mm <sup>2</sup> (0.054 in <sup>2</sup> )	Quantity	9	11	12	16
	I Maximum	100 A	100 A	100 A	93 A

T Rating: T6 @ Ta +40 °C (+104 °F) T6 @ Ta +55° C (+131 °F)		Type			
		JBe65 560 x 370 x 200 mm (22 x 15 x 8")	JBe75 750 x 370 x 200 mm (30 x 15 x 8")	JBe77 560 x 560 x 200 mm (22 x 22 x 8")	JBe79 560 x 750 x 200 mm (22 x 30 x 8")
35 mm <sup>2</sup> (0.054 in <sup>2</sup> )	Quantity	15	16	18	—
	I Maximum	100 A	99 A	100 A	—
50 mm <sup>2</sup> (0.078 in <sup>2</sup> )	Quantity	12	16	—	—
	I Maximum	125 A	108 A	—	—
70 mm <sup>2</sup> (0.109 in <sup>2</sup> )	Quantity	12	16	16	16
	I Maximum	150 A	135 A	144 A	150 A
95 mm <sup>2</sup> (0.147 in <sup>2</sup> )	Quantity	9	12	12	16
	I Maximum	200 A	178 A	190 A	173 A
120 mm <sup>2</sup> (0.186 in <sup>2</sup> )	Quantity	—	6	—	12
	I Maximum	—	250 A	—	225 A
150 mm <sup>2</sup> (0.233 in <sup>2</sup> )	Quantity	—	9	—	12
	I Maximum	—	250 A	—	250 A

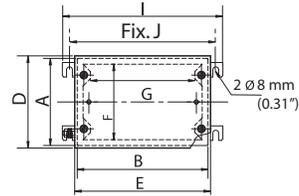
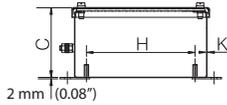
# ATX™ JBES and ECES Series 316L Stainless Steel Enclosure

## Increased Safety

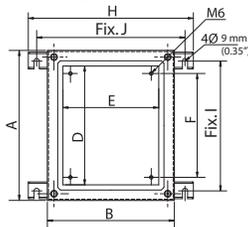
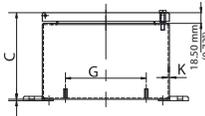
ATEX/IECEX:  
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### Dimensions in Millimeters (Inches)

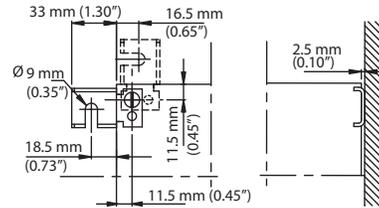
Box 95 (3.74) Depth



Box 200 (7.87) or 300 (11.81) Depth



Mounting Bracket



L x W x D mm (in)	A	B	C	D	E	F	G	H	I	J	K
<b>Box Depth 95 (3.74)</b>											
120 x 120 x 95 (4.72 x 4.72 x 3.74)	120 (4.72)	120 (4.72)	95 (3.74)	127 (5.00)	127 (5.00)	104 (4.09)	84 (3.31)	88 (3.46)	160 (6.30)	140 (5.51)	1.5 (0.06)
120 x 180 x 95 (4.72 x 7.09 x 3.74)	120 (4.72)	180 (7.09)	95 (3.74)	127 (5.00)	187 (7.36)	104 (4.09)	144 (5.67)	148 (5.83)	220 (8.66)	200 (7.87)	1.5 (0.06)
180 x 180 x 95 (7.06 x 7.09 x 3.74)	180 (7.09)	180 (7.09)	95 (3.74)	187 (7.36)	187 (7.36)	164 (6.47)	144 (5.67)	148 (5.83)	220 (8.66)	200 (7.87)	1.5 (0.06)
<b>Box Depth 200 (7.87)</b>											
220 x 370 x 200 (8.66 x 14.57 x 7.87)	220 (8.66)	370 (14.57)	200 (7.87)	166 (6.54)	316 (12.44)	140 (5.51)	290 (11.42)	436 (17.17)	185 (7.28)	407 (16.02)	1.5 (0.06)
370 x 260 x 200 (14.57 x 10.24 x 7.87)	370 (14.57)	260 (10.24)	200 (7.87)	316 (12.44)	206 (8.11)	290 (11.42)	180 (7.09)	326 (12.83)	335 (13.19)	297 (11.69)	1.5 (0.06)
370 x 370 x 200 (14.57 x 14.57 x 7.87)	370 (14.57)	370 (14.57)	200 (7.87)	316 (12.44)	316 (12.44)	290 (11.42)	290 (11.42)	436 (17.17)	335 (13.19)	407 (16.02)	2 (0.08)
560 x 370 x 200 (22.05 x 14.57 x 7.87)	560 (22.05)	370 (14.57)	200 (7.87)	506 (19.92)	316 (12.44)	480 (18.90)	290 (11.42)	436 (17.17)	525 (20.67)	407 (16.02)	2 (0.08)
750 x 370 x 200 (29.53 x 14.57 x 7.87)	750 (29.53)	370 (14.57)	200 (7.87)	695 (27.36)	316 (12.44)	670 (26.38)	290 (11.42)	436 (17.17)	715 (28.15)	407 (16.02)	2 (0.08)
560 x 560 x 200 (22.05 x 22.05 x 7.87)	560 (22.05)	560 (22.05)	200 (7.87)	506 (19.92)	506 (19.92)	480 (18.90)	480 (18.90)	626 (24.65)	525 (20.67)	597 (23.50)	2 (0.08)
750 x 560 x 200 (29.53 x 22.05 x 7.87)	750 (29.53)	560 (22.05)	200 (7.87)	696 (27.40)	506 (19.92)	670 (26.38)	480 (18.90)	626 (24.65)	715 (28.15)	597 (23.50)	2 (0.08)
<b>Box Depth 300 (11.81)</b>											
370 x 370 x 300 (14.57 x 14.57 x 11.81)	370 (14.57)	370 (14.57)	300 (11.81)	316 (12.44)	316 (12.44)	290 (11.42)	290 (11.42)	436 (17.17)	335 (13.19)	407 (16.02)	2 (0.08)
560 x 370 x 300 (22.05 x 14.57 x 11.81)	560 (22.05)	370 (14.57)	300 (11.81)	506 (19.92)	316 (12.44)	480 (18.90)	290 (11.42)	436 (17.17)	525 (20.67)	407 (16.02)	2 (0.08)
750 x 370 x 300 (29.53 x 14.57 x 11.81)	750 (29.53)	370 (14.57)	300 (11.81)	695 (27.36)	316 (12.44)	670 (26.38)	290 (11.42)	436 (17.17)	715 (28.15)	407 (16.02)	2 (0.08)
560 x 560 x 300 (22.05 x 22.05 x 11.81)	560 (22.05)	560 (22.05)	300 (11.81)	506 (19.92)	506 (19.92)	480 (18.90)	480 (18.90)	626 (24.65)	525 (20.67)	597 (23.50)	2 (0.08)
750 x 560 x 300 (29.53 x 22.05 x 11.81)	750 (29.53)	560 (22.05)	300 (11.81)	696 (27.40)	506 (19.92)	670 (26.38)	480 (18.90)	626 (24.65)	715 (28.15)	597 (23.50)	2 (0.08)
1130 x 750 x 300 (44.49 x 29.53 x 11.81)	1130 (44.49)	750 (29.53)	300 (11.81)	1076 (42.36)	506 (19.92)	1050 (41.34)	670 (26.38)	816 (32.13)	1095 (43.11)	787 (30.98)	2 (0.08)