

# 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

### Applications

- Designed for use in Zone 1 or 2 areas where flammable gases or vapors are present either continuously or intermittently.
- Ideal for use in wet or corrosive atmospheres such as:
  - Petroleum
  - Chemical
  - Refineries
  - Other industrial process facilities
- Designed for use in Zone 21 or 22 areas where flammable dusts are present either continuously or intermittently such as:
  - Food processing
  - Dairy
  - Brewing
  - Pharmaceutical industry
  - Other commercial facilities
- JBES Series
  - Terminal junction box for electrical low voltage and instrumentation connections for use in hazardous areas.
  - Refer to technical data to define permitted number of terminal blocks and cable entries on selected junction boxes.
- ECES Series
  - Enclosure for distribution and control applications must be customized at our workshop to house a large range of components such as control units, switches, breakers, transformers, meters, etc.

### Features

- Smooth, continuously welded seams.
- Available in a wide range of sizes.
- Operating temperature:
  - JBES Series: -50 °C to +70 °C (-58 °F to +158 °F)
  - ECES Series: -50 °C to +55 °C (-58 °F to +131 °F)
- Can be supplied with 1, 2, 3 or even 4 neoprene sealed gland plates for ease of cable installation.
- Hinges standard on all sizes above 370.0 mm x 260.0 mm (14.57" x 10.24").
- Poured-in-place polyurethane door gasket.
- Feed-thru earth grounding 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 can be mounted on the top, bottom or side positions.
- Optional removable padlocking device.

### Standard Materials

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

### Standard Finishes

- Natural brushed finish

### Accessories

- Mounting pan
- Rail mounting
- Padlocking device
- Door locking bracket for easy access
- Inside pocket
- Refer to technical data to define permitted number of terminals and cable entries acceptance

JBES Series



ECES Series



Closed



Open

### Options

- Removable gland plates.
- Nameplate.
- Factory drilled and assembled, contact your local representative for information.
- Medium voltage application (11 kV max.), contact your local representative for information.
- Intrinsic safety version (JBIS) available with the use of intrinsic terminals.
- cCSAus certified terminal junction box available for NEC/CEC applications with the SJB series of stainless steel enclosures.

### ATEX/IECEX Certifications and Compliances

- Certification Type JBe
  - Gas, Zones 1 and 2:
    - Conforming to ATEX 94/9/CE: II 2 G
    - Type of Protection: Ex e II, Ex ia IIC, Ex ib IIC, Ex de IIC, Ex demb IIC
    - Temperature Class: T6 to T4
  - Dust, Zones 21 and 22:
    - Conforming to ATEX 94/9/CE: II 2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: T80 °C to T130 °C (T176 °F to T266 °F)
    - Ambient Temperature: -50 °C to +70 °C (-58 °F to +158 °F)
    - CE Declaration of Conformity: 50232
    - ATEX Certificate : LCIE 02 ATEX 6118X
    - IECEx Certificate: IECEx LCI 11.0008X
- Certification Type JBe U
  - Gas, Zones 1 and 2:
    - Conforming to ATEX 94/9/CE: II 2 G
    - Type of Protection: Ex e II
  - Dust, Zones 21 and 22:
    - Conforming to ATEX 94/9/CE: II 2 D
    - Type of Protection: Ex tD A21
    - Ambient Temperature: -40 °C to +70 °C (-40 °F to +158 °F).
    - CE Declaration of Conformity: 5C240
    - ATEX Certificate: LCIE 09 ATEX 3025U
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

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### EURASEC Certification

- Certification Type JBe
  - EURASEC N° TC RU C-FR.Г505.B.00911

### Other Certification

- Certification Type JBe
  - INMETRO Certificate: BVC 11.0418-X ①

### Illustrated Features

	<p>Optional removable locking device.            Part Number 097209/N097209</p>		<p>Reversible antivibration mounting brackets,            can be mounted in top, side or bottom            positions.</p>
	<p>M8 feed-thru earth/ground terminal.</p>		<p>Polyurethane poured in place door gasket and            stainless steel captive screws.</p>
	<p>Reversible door. Opens to 210°, top, bottom,            left or right, by moving the location of the            hinges</p>		<p>Optional removable gland plate.</p>

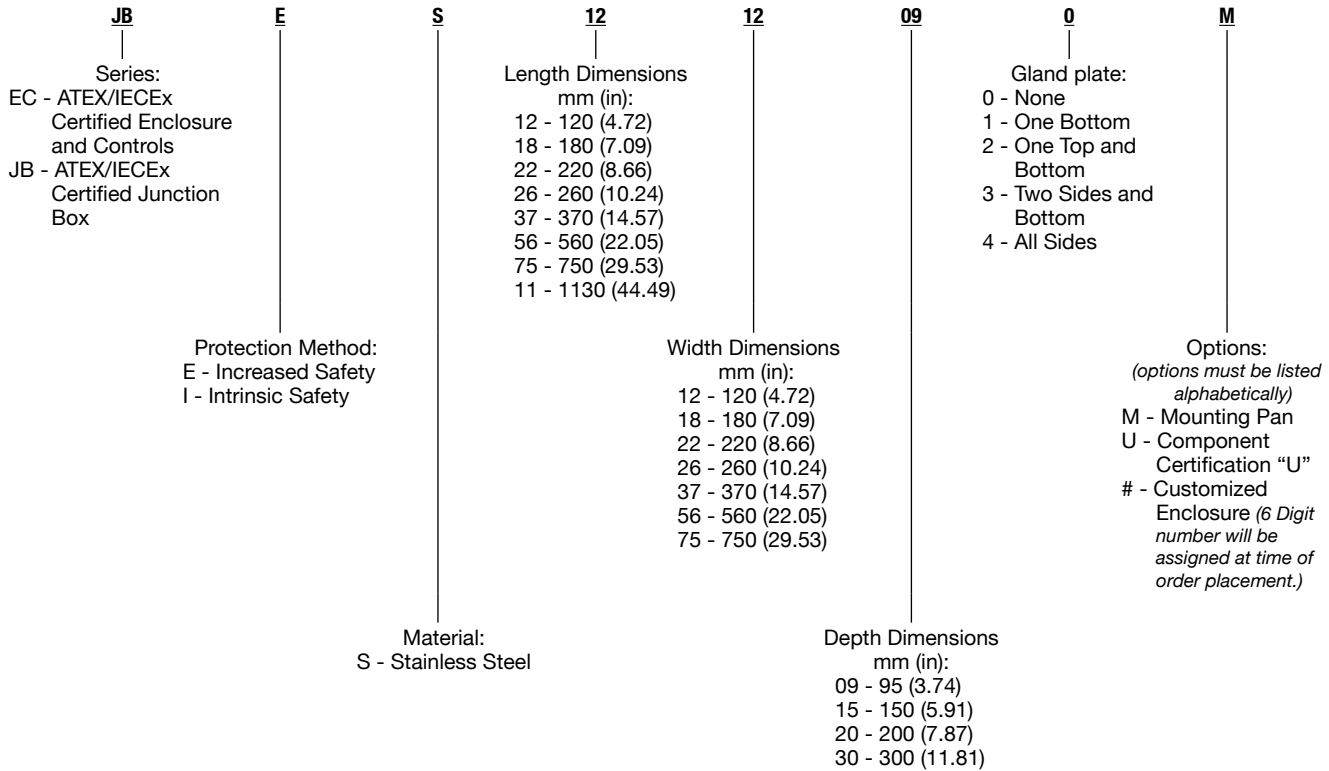
① INMETRO certification available on special request only. Contact your local sales representative for more information.

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



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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

Type	Dimensions L x W x D mm (in)	Hinged Door ②	One Gland Plate Catalog Number	Two Gland Plates Catalog Number	Three Gland Plate Catalog Number	Four Gland Plates Catalog Number
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#### Ex e II 316L Stainless Steel Terminal Junction Boxes with Gland Plates 3 mm (0.12") Thick

For use only with Ex terminals (not supplied). M8 External earth crossing terminal. Mounting pan and rails to be ordered separately.

	JBe36	220 x 260 x 150 (8.66 x 10.24 x 5.91)	R	JBES2226151	JBES2226152	JBES2226153	JBES2226154
	JBe36	220 x 260 x 150 (8.66 x 10.24 x 5.91)	R	JBES2622151	JBES2622152	JBES2622153	JBES2622154
 One Gland Plate	JBe46	220 x 370 x 200 (8.66 x 14.57 x 7.87) ①	R	JBES2237201	JBES2237202	JBES2237203	JBES2237204
	JBe47	260 x 370 x 200 (10.24 x 14.57 x 7.87) ①	Y	JBES2637201	JBES2637202	JBES2637203	JBES2637204
 Two Gland Plate	JBe46	370 x 220 x 200 (14.57 x 8.66 x 7.87) ①	R	JBES3722201	JBES3722202	JBES3722203	JBES3722204
	JBe47	370 x 260 x 200 (14.57 x 10.24 x 7.87) ①	Y	JBES3726201	JBES3726202	JBES3726203	JBES3726204
 Gland Plate Three	JBe55	370 x 370 x 200 (14.57 x 14.57 x 7.87) ①	Y	JBES3737201	JBES3737202	JBES3737203	JBES3737204
	JBe65	370 x 560 x 200 (14.57 x 22.05 x 7.87) ①	Y	JBES3756201	JBES3756202	JBES3756203	JBES3756204
 Four Gland Plate	JBe75	370 x 750 x 200 (14.57 x 29.53 x 7.87) ①	Y	JBES3775201	JBES3775202	JBES3775203	JBES3775204
	JBe65	560 x 370 x 200 (22.05 x 14.57 x 7.87) ①	Y	JBES5637201	JBES5637202	JBES5637203	JBES5637204
	JBe77	560 x 560 x 200 (22.05 x 22.05 x 7.87) ①	Y	JBES5656201	JBES5656202	JBES5656203	JBES5656204
	JBe79	560 x 750 x 200 (22.05 x 29.53 x 7.87) ①	Y	JBES5675201	JBES5675202	JBES5675203	JBES5675204
	JBe75	750 x 370 x 200 (29.53 x 14.57 x 7.87) ①	Y	JBES7537201	JBES7537202	JBES7537203	JBES7537204
	JBe79	750 x 560 x 200 (29.53 x 22.05 x 7.87) ①	Y	JBES7556201	JBES7556202	JBES7556203	JBES7556204
	JBe86	1130 x 750 x 300 (44.49 x 29.53 x 11.81)	Y	JBES1175301	JBES1175302	JBES1175303	JBES1175304

① 200 mm (7.87") depth enclosure available with 300 mm (11.81") depth – replace digit 2 with 3 – Example: JBES3737304.

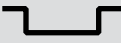



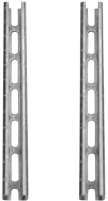
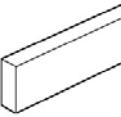
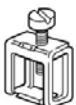
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# ATX™ JBES and ECES Series 316L Stainless Steel Enclosure Accessories

## Increased Safety

ATEX/IECEX:  
 Zone 1 and 2 - 21 and 22  
 II 2 GD  
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### Mounting Accessories

				Catalog Number	
		Enclosure Length mm (in)	Rail Length mm (in)	 Symmetrical Depth = 15 mm (0.59")	 Asymmetrical
<b>Zinc Plated Steel Rail</b>					
<i>For fixing onto uprights with clip nut supplied.</i>					
	Symmetrical	120 (4.72)	100 (3.93)	097246	—
		180 (7.09)	160 (6.30)	097247	—
	Asymmetrical	220 (8.66)	170 (6.69)	097240	097250
		260 (10.24)	210 (8.27)	097241	097251
		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
<b>Zinc Plated Steel Uprights</b>					
<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
<b>Copper Bar – 12 x 4 mm (0.47 x 0.16")</b>					
<i>Copper bar not perforated for cable clamps.</i>					
		220 (8.66)	160 (6.30)		097270
		260 (10.24)	200 (7.87)		097271
		370 (14.57)	310 (12.20)		097272
		560 (22.05)	500 (19.68)		097273
		750 (29.53)	690 (27.17)		097274
		1130 (44.49)	1070 (42.13)		097275
<b>Cable Clamp for Copper Bar – 12 x 4 mm (0.47 x 0.16")</b>					
		1.5 mm <sup>2</sup> to 4 mm <sup>2</sup> (0.002 in <sup>2</sup> to 0.006 in <sup>2</sup> ) Capacity			097203
		6 mm <sup>2</sup> to 16 mm <sup>2</sup> Capacity (0.009 in <sup>2</sup> to 0.025 in <sup>2</sup> )			097204

APPLETON™








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

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

## Increased Safety

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
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### Mounting Accessories - Continued




	Enclosure Dimensions mm (in)		Mounting Pan Dimensions mm (in)	Catalog Number
	Height	Width		
<b>Mounting Pan – Zinc Plated Steel</b>				
	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 12.20)	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
<b>Spacers for Mounting at Back of Box</b>				
	Set of two insulated pillars for copper bar 12 x 4 mm (0.47 x 0.16").			
	Height = 100 mm (3.94")			097206
	Height = 50 mm (1.97")			097207
<b>Conversion Kit – Door to Cover</b>				
	Must be used to remove hinges.			097202
<b>Spare Hinges</b>				
	Set of Two			097201
<b>Spare Mounting Brackets – Set of Two</b>				
	One left and one right.			097200
<b>Self Adhesive Pocket for Drawings</b>				
	External dimensions: 260 x 165 mm (10.24 x 6.50") Internal dimensions: 230 x 130 x 18 mm (9.06 x 5.12 x .071")			097263
	External dimensions: 340 x 235 mm (13.39 x 9.25") Internal dimensions: 310 x 200 x 18 mm (12.20 x 7.87 x 0.71")			097264
<b>Additional Door Padlocking Device</b>				
	Padlock not supplied.			097209
<b>Locking Bracket</b>				
	Locks door in open position during wiring			097265

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

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ATEX/IECEX:  
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### Mounting Accessories - Continued

	Dimensions mm (in)			Gland Plate/Coupling Flange Dimensions mm (in)	Catalog Number
	Enclosure Width	Height			
<b>Spare Gland Plate</b>					
	220 (8.66)	150 (5.91)	B/D	170 x 120 (6.69 x 4.72)	JBESGP221B
	260 (10.24)	150 (5.91)	A/C	250 x 120 (9.84 x 4.72)	JBESGP261A
	260 (10.24)	200 (7.87)	A/C	250 x 170 (9.84 x 6.69)	JBESGP262A
	260 (10.24)	200 (7.87)	B/D	210 x 170 (8.27 x 6.69)	JBESGP262B
	370 (14.57)	200 (7.87)	A/C	360 x 170 (14.17 x 6.69)	JBESGP372A
	370 (14.57)	200 (7.87)	B/D	320 x 170 (12.60 x 6.69)	JBESGP372B
	560 (22.05)	200 (7.87)	A/C	550 x 170 (21.65 x 6.69)	JBESGP562A
	560 (22.05)	200 (7.87)	B/D	510 x 170 (20.08 x 6.69)	JBESGP562B
	750 (29.53)	200 (7.87)	A/C	740 x 170 (29.13 x 6.69)	JBESGP752A
	750 (29.53)	200 (7.87)	B/D	700 x 170 (27.56 x 6.69)	JBESGP752B
	260 (10.24)	300 (11.81)	A/C	250 x 270 (9.84 x 10.63)	JBESGP263A
	370 (14.57)	300 (11.81)	A/C	360 x 270 (14.17 x 10.63)	JBESGP373A
	370 (14.57)	300 (11.81)	B/D	320 x 270 (12.60 x 10.63)	JBESGP373B
	560 (22.05)	300 (11.81)	A/C	550 x 270 (21.65 x 10.63)	JBESGP563A
	560 (22.05)	300 (11.81)	B/D	510 x 270 (20.08 x 10.63)	JBESGP563B
	750 (29.53)	300 (11.81)	A/C	740 x 270 (29.13 x 10.63)	JBESGP753A
750 (29.53)	300 (11.81)	B/D	700 x 270 (27.56 x 10.63)	JBESGP753B	
<b>Coupling Flange</b>					
	260 (10.24)	200 (7.87)	A/C	250 x 120 (9.84 x 4.72)	JBESCF262A
	370 (14.57)	200 (7.87)	A/C	360 x 170 (14.17 x 6.69)	JBESCF372A
	370 (14.57)	200 (7.87)	B/D	320 x 170 (12.60 x 6.69)	JBESCF372B
	560 (22.05)	200 (7.87)	A/C	550 x 170 (21.65 x 6.69)	JBESCF562A
	560 (22.05)	200 (7.87)	B/D	510 x 170 (20.08 x 6.69)	JBESCF562B
	750 (29.53)	200 (7.87)	A/C	740 x 170 (29.13 x 6.69)	JBESCF752A
	750 (29.53)	200 (7.87)	B/D	700 x 170 (27.56 x 6.69)	JBESCF752B
	370 (14.57)	300 (11.81)	A/C	360 x 270 (14.17 x 10.63)	JBESCF373A
	370 (14.57)	300 (11.81)	B/D	320 x 270 (12.60 x 10.63)	JBESCF373B
	560 (22.05)	300 (11.81)	A/C	550 x 270 (21.65 x 10.63)	JBESCF563A
	560 (22.05)	300 (11.81)	B/D	510 x 270 (20.08 x 10.63)	JBESCF563B
	750 (29.53)	300 (11.81)	A/C	740 x 270 (29.13 x 10.63)	JBESCF753A
	750 (29.53)	300 (11.81)	B/D	700 x 270 (27.56 x 10.63)	JBESCF753B

APPLETON™

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



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

## Increased Safety

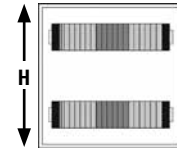
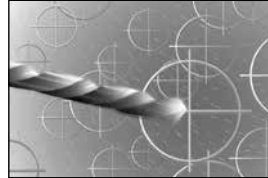
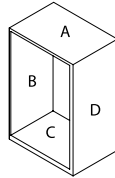
ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66 - IK10

### 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.

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

## Increased Safety

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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

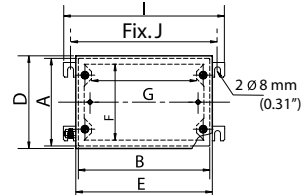
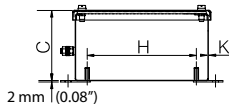
# ATX™ JBES and ECES Series 316L Stainless Steel Enclosure

## Increased Safety

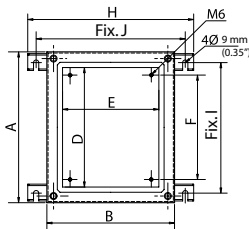
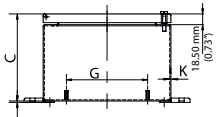
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### Dimensions in Millimeters (Inches)

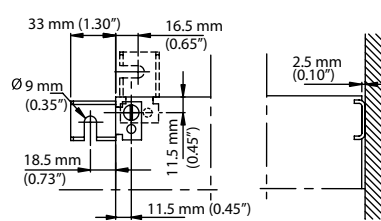
Box 95 (3.74) Depth



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 (27.36)	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 (27.36)	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)