

ATX™ JBES and ECES Series 316L Stainless Steel Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
Notable: INMETRO Certified

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, ammeters, voltmeters, contact blocks, pilot lights, control auxiliaries, handles, windows, etc.



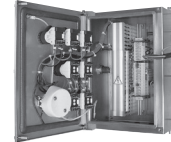
JBES Series



JBES Series



ECES Series



ECES Series

Options

- Removable gland plates.
- Nameplate.
- Factory drilled and assembled, contact your local representative for information.

ATEX/IECEx Certifications and Compliances

- Certification Type: JBES
 - Gas, Zones 1 and 2:
 - Conforming to ATEX 2014/34/EU: Ex II 2 G
 - Type of Protection: Ex eb IIC, Ex eb ia IIC, Ex eb ib IIC, Ex ia or ib IIC Gb
 - Temperature Class: T6
 - Dust, Zones 21 and 22:
 - Conforming to ATEX 2014/34/EU: Ex II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: T64 °C to T67 °C (T147.2 °F to T152.6 °F)
 - Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
 - ATEX Certificate : LCIE 19 ATEX 3024X
 - IECEx Certificate: IECEx LCIE 19.0031X
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10
- Certification Type: ECES
 - Gas, Zones 1 and 2:
 - Conforming to ATEX 2014/34/EU: Ex II 2 Gb
 - Type of Protection: Ex eb IIC Gb
 - Dust, Zones 21 and 22:
 - Conforming to ATEX 2014/34/EU: Ex tb IIIC Db
 - Ambient Temperature: -20 °C to +40 °C (-28 °F to +4 °F)
 - ATEX Certificate: INERIS 21ATEX0030X
 - IECEx Certificate: IECEx INE 21.0058X
 - Protection index according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10

INMETRO Certifications

- Certification Type: JBES
 - INMETRO Certificate: BVC24.4266-X

Features

- Smooth, continuously welded seams.
- Available in a wide range of sizes.
- Operating temperature:
 - JBES Series: -40 °C to +55 °C (-40 °F to +131 °F)
 - ECES Series: -20 °C to +40 °C (-28 °F to +4 °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
- Cam lock and key
- Door locking bracket for easy access
- Inside pocket
- Refer to technical data to define permitted number of terminals and cable entries

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Illustrated Features



Optional removable locking device. Part Number: 097209/N097209



Reversible antivibration mounting brackets, can be mounted in top, side or bottom positions.



M8 feed-thru earth/ground terminal.



Polyurethane poured in place door gasket and stainless steel captive screws.



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



Optional removable gland plate.

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

JB	E	S	12	12	09	0	M
Series: EC - ATEX/IECEx Certified Enclosure and Controls JB - ATEX/IECEx Certified Junction Box	Protection Method: E - Increased Safety I - Intrinsic Safety	Material: S - Stainless Steel	Length 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 (29.53) 11 - 1130 (44.49)	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 (29.53)	Depth Dimensions mm (in): 09 - 95 (3.74) 15 - 150 (5.91) 20 - 200 (7.87) 30 - 300 (11.81)	Gland plate: 0 - None 1 - One Bottom 2 - One Top and Bottom 3 - Two Sides and Bottom 4 - All Sides	Options: <i>(options must be listed alphabetically)</i> M - Mounting Pan # - Customized Enclosure (6 Digit number will be assigned at time of order placement.)

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JBES Series — T6 -40 °C to +55 °C (-40 °F to +131 °F) — T67 °C (T152.6 °F)

Type	Dimensions L x W x D mm (in)	Hinged Door ①	Vertical Orientation Rail Length mm (in)	Horizontal Orientation Rail Length mm (in)	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Ex e II 316L Stainless Steel Junction Boxes without Gland Plate							
<i>For use only with Ex terminals (not supplied). External earth crossing terminal. (M6 for JBES10/20/30 and M8 for other boxes). Mounting pan and rails to be ordered separately.</i>							
JBES1	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
JBES2	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
JBES3	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
JBES4	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
JBES4	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
JBES5	220 x 370 x 200 (8.66 x 14.57 x 7.87)	R	170.0 (6.69)	320.0 (12.60)	8.5 (18.74)	16.3 (994.69)	JBES2237200
JBES6	260 x 370 x 200 (10.24 x 14.57 x 7.87)	Y	210.0 (8.27)	320.0 (12.60)	9.0 (19.84)	19.3 (1177.76)	JBES2637200
JBES5	370 x 220 x 200 (14.57 x 8.66 x 7.87)	R	320.0 (12.60)	170.0 (6.69)	8.5 (18.74)	16.6 (1012.99)	JBES3722200
JBES6	370 x 260 x 200 (14.57 x 10.24 x 7.87)	Y	320.0 (12.60)	210.0 (8.27)	9.0 (19.84)	19.3 (1177.76)	JBES3726200
JBES7	370 x 370 x 200 (14.57 x 14.57 x 7.87)	Y	320.0 (12.60)	320.0 (12.60)	13.0 (28.66)	27.4 (1672.05)	JBES3737200
JBES9	370 x 560 x 200 (14.57 x 22.05 x 7.87)	Y	320.0 (12.60)	510.0 (20.08)	19.0 (19.84)	41.5 (2532.49)	JBES3756200
JBES11	370 x 750 x 200 (14.57 x 29.53 x 7.87)	Y	320.0 (12.60)	700.0 (27.56)	24.0 (52.91)	55.5 (3386.82)	JBES3775200
JBES9	560 x 370 x 200 (22.05 x 14.57 x 7.87)	Y	510.0 (20.08)	320.0 (12.60)	19.0 (19.84)	41.5 (2532.49)	JBES5637200
JBES13	560 x 560 x 200 (22.05 x 22.05 x 7.87)	Y	510.0 (20.08)	510.0 (20.08)	28.0 (61.73)	62.8 (3832.29)	JBES5656200
JBES15	560 x 750 x 200 (22.05 x 29.53 x 7.87)	Y	510.0 (20.08)	700.0 (27.56)	33.0 (72.75)	84.0 (5125.99)	JBES5675200
JBES11	750 x 370 x 200 (29.53 x 14.57 x 7.87)	Y	700.0 (27.56)	320.0 (12.60)	24.0 (52.91)	55.5 (3386.82)	JBES7537200
JBES15	750 x 560 x 200 (29.53 x 22.05 x 7.87)	Y	700.0 (27.56)	510.0 (20.08)	33.0 (72.75)	84.0 (5125.99)	JBES7556200
JBES17	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 N: Not Available, R: On request or separate accessories, Y: Supplied.

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	Type	Dimensions L x W x D mm (in)	Hinged Door ①	One Gland Plate Catalog Number	Two Gland Plates Catalog Number	Three Gland Plates Catalog Number	Four Gland Plates Catalog Number
Ex e II 316L Stainless Steel Terminal Junction Boxes with Gland Plates 3 mm (0.12") Thick							
<i>For use only with Ex terminals (not supplied). M8 External earth crossing terminal. Mounting pan and rails to be ordered separately.</i>							
 One Gland Plate	JBES4	220 x 260 x 150 (8.66 x 10.24 x 5.91)	R	JBES2226151	JBES2226152	JBES2226153	JBES2226154
	JBES4	220 x 260 x 150 (8.66 x 10.24 x 5.91)	R	JBES2622151	JBES2622152	JBES2622153	JBES2622154
	JBES5	220 x 370 x 200 (8.66 x 14.57 x 7.87)	R	JBES2237201	JBES2237202	JBES2237203	JBES2237204
	JBES6	260 x 370 x 200 (10.24 x 14.57 x 7.87)	Y	JBES2637201	JBES2637202	JBES2637203	JBES2637204
 Two Gland Plates	JBES5	370 x 220 x 200 (14.57 x 8.66 x 7.87)	R	JBES3722201	JBES3722202	JBES3722203	JBES3722204
	JBES6	370 x 260 x 200 (14.57 x 10.24 x 7.87)	Y	JBES3726201	JBES3726202	JBES3726203	JBES3726204
	JBES7	370 x 370 x 200 (14.57 x 14.57 x 7.87)	Y	JBES3737201	JBES3737202	JBES3737203	JBES3737204
	JBES9	370 x 560 x 200 (14.57 x 22.05 x 7.87)	Y	JBES3756201	JBES3756202	JBES3756203	JBES3756204
 Three Gland Plates	JBES11	370 x 750 x 200 (14.57 x 29.53 x 7.87)	Y	JBES3775201	JBES3775202	JBES3775203	JBES3775204
	JBES9	560 x 370 x 200 (22.05 x 14.57 x 7.87)	Y	JBES5637201	JBES5637202	JBES5637203	JBES5637204
	JBES13	560 x 560 x 200 (22.05 x 22.05 x 7.87)	Y	JBES5656201	JBES5656202	JBES5656203	JBES5656204
	JBES15	560 x 750 x 200 (22.05 x 29.53 x 7.87)	Y	JBES5675201	JBES5675202	JBES5675203	JBES5675204
 Four Gland Plates	JBES11	750 x 370 x 200 (29.53 x 14.57 x 7.87)	Y	JBES7537201	JBES7537202	JBES7537203	JBES7537204
	JBES15	750 x 560 x 200 (29.53 x 22.05 x 7.87)	Y	JBES7556201	JBES7556202	JBES7556203	JBES7556204
	JBES17	1130 x 750 x 300 (44.49 x 29.53 x 11.81)	Y	JBES1175301	JBES1175302	JBES1175303	JBES1175304

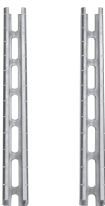
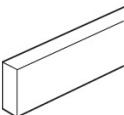
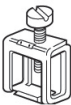
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Mounting Accessories

		Catalog Number		
Enclosure Length mm (in)	Rail Length mm (in)	 Symmetrical Depth = 15 mm (0.59")	 Asymmetrical	
Zinc Plated Steel Rail <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	—
	220 (8.66)	170 (6.69)	097240	097250
 Asymmetrical	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
Enclosure Length mm (in)		Bar Length mm (in)	Catalog Number	
Zinc Plated Steel Uprights <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 (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	
Cable Clamp for Copper Bar – 12 x 4 mm (0.47 x 0.16")				
	1.5 mm² to 4 mm² (0.002 in² to 0.006 in²) Capacity		097203	
	6 mm² to 16 mm² (0.009 in² to 0.025 in²) Capacity		097204	

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Mounting Accessories — Continued

	Enclosure Dimensions mm (in)		Mounting Pan Dimensions mm (in)	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 (0.47 x 0.16").			
	Height = 100 mm (3.94")			097206
	Height = 50 mm (1.97")			097207
	Conversion Kit — Door to Cover			
	Must be used to remove hinges.			
				097202
	Spare Hinges			
	Set of Two			097201
	Spare Mounting Brackets — Set of Two			
	One left and one right.			097200
	Self Adhesive Pocket for Drawings			
	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
	Additional Door Padlocking Device			
	Padlock not supplied.			097209
	Locking Bracket			
	Locks door in open position during wiring			097265

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Mounting Accessories — Continued

Enclosure Dimensions mm (in)			Gland Plate/Coupling Flange Dimensions mm (in)	Catalog Number
Enclosure Width	Height			
Spare Gland Plate				
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
Coupling Flange				
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



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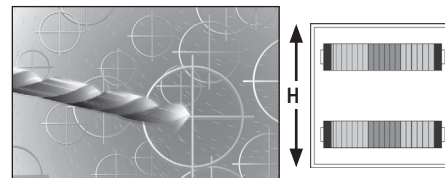
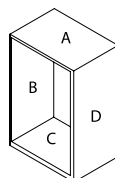
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JBES Series for Terminal Junction Box Application Only.

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.appleton.emerson.com.

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'	
JBES1	120 (4.72)	120 (4.72)	95 (3.74)	5	5	—	—	220 (8.66)
JBES2	120 (4.72)	180 (7.09)	95 (3.74)	9	5	—	—	220 (8.66)
JBES3	180 (7.09)	180 (7.09)	95 (3.74)	9	9	—	—	220 (8.66)
JBES4	220 (8.66)	260 (10.24)	150 (5.91)	11	7	9	5	220 (8.66)
JBES4	260 (10.24)	220 (8.66)	150 (5.91)	7	11	5	9	260 (10.24)
JBES5	220 (8.66)	370 (14.57)	200 (7.87)	31	16	19	7	260 (10.24)
JBES5	370 (14.57)	220 (8.66)	200 (7.87)	16	31	7	9	370 (14.57)
JBES6	260 (10.24)	370 (14.57)	200 (7.87)	20	31	14	20	370 (14.57)
JBES6	370 (14.57)	260 (10.24)	200 (7.87)	31	20	19	10	260 (10.24)
JBES7	370 (14.57)	370 (14.57)	200 (7.87)	31	31	19	18	370 (14.57)
JBES9	370 (14.57)	560 (22.05)	200 (7.87)	31	49	19	31	560 (22.05)
JBES9	560 (22.05)	370 (14.57)	200 (7.87)	49	31	34	18	370 (14.57)
JBES11	370 (14.57)	750 (29.53)	200 (7.87)	31	66	19	47	750 (29.53)
JBES11	750 (29.53)	370 (14.57)	200 (7.87)	66	31	49	18	370 (14.57)
JBES13	560 (22.05)	560 (22.05)	200 (7.87)	49	49	34	31	560 (22.05)
JBES15	560 (22.05)	750 (29.53)	200 (7.87)	49	66	34	45	750 (29.53)
JBES15	750 (29.53)	560 (22.05)	200 (7.87)	66	49	49	31	560 (22.05)
JBES17	1130 (44.49)	750 (29.53)	300 (11.81)	102	—	82	—	1130 (44.49)

① Enclosure with gland plate.

ATX™ JBES and ECES Series 316L Stainless Steel Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
Notable: INMETRO Certified

Defining maximum terminal block quantity according to power dissipation:

T6 -40 °C to +55 °C (-40 °F to +131 °F)												
JBES1					JBES2			JBES3		JBES4		
Imax 49%					Imax 49%			Imax 47%		Imax: 59%		
Pmax: 1.24W					Pmax: 2.82W			Pmax: 3.88W		Pmax: 7.51W		
Terminal Cross Section	Manufacturer	Type	Wire Cross Section mm² (in²)	Rated Voltage	Maximun Current (A)	Terminals Maximum Quantity	Maximun Current (A)	Terminals Maximum Quantity	Maximun Current (A)	Terminals Maximum Quantity	Maximun Current (A)	Terminals Maximum Quantity
1.5	Weidmuller	A2C1.5	1.5 (0.0023)	550V	7	5	7	11	7	15	8	15
2.5	Weidmuller	WDU2.5	2.5 (0.0039)	690V	11	5	11	10	11	13	14	12
	Weidmuller	ZDU2.5	2.5 (0.0039)	550V	10	4	10	8	10	11	12	11
	Phoenix	UT2.5	2.5 (0.0039)	690V	10	6	10	13	9	17	12	16
	Phoenix	PT2.5	2.5 (0.0039)	550V	9	6	9	12	8	17	11	17
	Phoenix	MBK3/E-Z	2.5 (0.0039)	275V	10	6	10	12	9	16	12	16
	Wago	WAGO 2002	2.5 (0.0039)	550V	10	4	10	8	9	11	12	11
	Wago	WAGO2202	2.5 (0.0039)	550V	10	4	10	9	10	12	12	12
	Weidmuller	A2C2.5	2.5 (0.0039)	550V	9	4	9	10	9	13	11	14
	Weidmuller	AKZ2.5	2.5 (0.0039)	220V	11	3	11	7	11	9	14	9
4	Weidmuller	WDU4	4 (0.0062)	690V	15	4	15	8	15	11	18	11
	Weidmuller	ZDU4	4 (0.0062)	550V	13	3	13	7	13	10	16	10
	Phoenix	UT4	4 (0.0062)	690V	14	5	14	10	14	13	17	13
	Weidmuller	A2C4	4 (0.0062)	550V	13	3	13	7	13	10	16	10
	Weidmuller	AKZ4	4 (0.0062)	275V	15	2	15	5	15	7	18	8
6	Weidmuller	WDU6	6 (0.0093)	690V	20	4	10	8	19	10	24	10
	Weidmuller	ZDU6	6 (0.0093)	550V	19	2	19	5	18	7	23	7
	Phoenix	UT6	6 (0.0093)	690V	19	4	19	8	18	11	23	10
	Weidmuller	A2C6	6 (0.0093)	550V	18	2	10	5	17	8	21	8
10	Weidmuller	WDU10	10 (0.0155)	690V	N/A	N/A	N/A	N/A	26	8	33	8
	Weidmuller	ZDU10	10 (0.0155)	690V	N/A	N/A	N/A	N/A	23	6	30	6
	Phoenix	UT10	10 (0.0155)	690V	N/A	N/A	N/A	N/A	25	9	31	9
16	Weidmuller	WDU6	16 (0.0248)	690V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phoenix	UT16	16 (0.0248)	690V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Weidmuller	ZDU16	16 (0.0248)	690V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
35	Weidmuller	WDU35	35 (0.0543)	690V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Weidmuller	ZDU35	35 (0.0543)	690V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phoenix	UT35	35 (0.0543)	690V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
50	Weidmuller	WDU50N	50 (0.0775)	690V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
70	Weidmuller	WDU70N	70 (0.1085)	690V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
120	Weidmuller	WDU95N/120N	95 (0.1473)	880V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

ATX™ JBES and ECES Series 316L Stainless Steel Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
Notable: INMETRO Certified

Defining maximum terminal block quantity according to power dissipation:

				T6 -40 °C to +55 °C (-40 °F to +131 °F)								
				JBES5			JBES6		JBES7		JBES9	
				Imax 54%			Imax 55%		Imax 48%		Imax: 50%	
				Pmax: 12.54W			Pmax: 13.49W		Pmax: 17.13W		Pmax: 22.64W	
Terminal Cross Section	Manufacturer	Type	Wire Cross Section mm² (in²)	Rated Voltage	Maximun Current (A)	Terminals Maximum Quantity	Maximun Current (A)	Terminals Maximum Quantity	Maximun Current (A)	Terminals Maximum Quantity	Maximun Current (A)	Terminals Maximum Quantity
1.5	Weidmuller	A2C1.5	1.5 (0.0023)	550V	8	26	8	26	7	40	7	41
2.5	Weidmuller	WDU2.5	2.5 (0.0039)	690V	12	20	13	20	11	30	12	30
	Weidmuller	ZDU2.5	2.5 (0.0039)	550V	11	19	12	19	10	29	11	30
	Phoenix	UT2.5	2.5 (0.0039)	690V	11	26	11	26	10	40	10	39
	Phoenix	PT2.5	2.5 (0.0039)	550V	10	28	10	28	9	43	9	44
	Phoenix	MBK3/E-Z	2.5 (0.0039)	275V	11	26	11	26	10	39	10	39
	Wago	WAGO 2002	2.5 (0.0039)	550V	11	20	11	20	10	31	10	32
	Wago	WAGO2202	2.5 (0.0039)	550V	11	20	12	20	10	31	11	32
	Weidmuller	A2C2.5	2.5 (0.0039)	550V	10	23	11	23	9	36	10	37
	Weidmuller	AKZ2.5	2.5 (0.0039)	220V	12	16	13	16	11	25	12	25
4	Weidmuller	WDU4	4 (0.0062)	690V	17	18	17	18	15	27	16	27
	Weidmuller	ZDU4	4 (0.0062)	550V	15	18	15	18	13	28	14	29
	Phoenix	UT4	4 (0.0062)	690V	16	20	16	20	14	31	15	31
	Weidmuller	A2C4	4 (0.0062)	550V	15	18	15	18	13	28	14	29
	Weidmuller	AKZ4	4 (0.0062)	275V	17	13	17	13	15	21	16	22
6	Weidmuller	WDU6	6 (0.0093)	690V	22	16	22	16	19	25	20	24
	Weidmuller	ZDU6	6 (0.0093)	550V	21	13	21	13	18	20	19	21
	Phoenix	UT6	6 (0.0093)	690V	21	17	22	17	19	26	20	25
	Weidmuller	A2C6	6 (0.0093)	550V	19	14	20	14	17	22	18	23
10	Weidmuller	WDU10	10 (0.0155)	690V	30	13	31	13	27	20	28	20
	Weidmuller	ZDU10	10 (0.0155)	690V	27	12	28	12	24	18	25	19
	Phoenix	UT10	10 (0.0155)	690V	29	15	29	15	25	22	27	23
16	Weidmuller	WDU6	16 (0.0248)	690V	41	11	41	11	36	17	38	17
	Phoenix	UT16	16 (0.0248)	690V	39	11	40	12	35	18	36	18
	Weidmuller	ZDU16	16 (0.0248)	690V	36	18	37	18	32	27	34	26
35	Weidmuller	WDU35	35 (0.0543)	690V	62	9	63	9	55	14	57	14
	Weidmuller	ZDU35	35 (0.0543)	690V	59	7	60	7	52	11	55	12
	Phoenix	UT35	35 (0.0543)	690V	66	9	67	9	59	13	61	14
50	Weidmuller	WDU50N	50 (0.0775)	690V	68	8	69	8	60	13	63	14
70	Weidmuller	WDU70N	70 (0.1085)	690V	99	4	101	5	88	7	92	8
120	Weidmuller	WDU95N/120N	95 (0.1473)	880V	119	4	121	4	106	6	110	7

Enclosures and Junction Boxes

ATX™ JBES and ECES Series 316L Stainless Steel Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
Notable: INMETRO Certified

Defining maximum terminal block quantity according to power dissipation:

					T6 -40 °C to +55 °C (-40 °F to +131 °F)							
					JBES11		JBES13		JBES15		JBES17	
					Imax 49%		Imax 43%		Imax 45%		Imax: 50%	
					Pmax: 26.03 W		Pmax: 38.13		Pmax: 47.83 W		Pmax: 90.23 W	
Terminal Cross Section	Manufacturer	Type	Wire Cross Section (mm²)	Rated Voltage	Maximum Current (A)	Terminals Maximum Quantity	Maximum Current (A)	Terminals Maximum Quantity	Maximum Current (A)	Terminals Maximum Quantity	Maximum Current (A)	Terminals Maximum Quantity
1.5	Weidmuller	A2C1.5	1.5 (0.0023)	550V	7	41	6	82	6	82	6	107
2.5	Weidmuller	WDU2.5	2.5 (0.0039)	690V	11	30	10	60	10	59	11	75
	Weidmuller	ZDU2.5	2.5 (0.0039)	550V	10	31	9	60	9	62	10	81
	Phoenix	UT2.5	2.5 (0.0039)	690V	10	39	9	78	9	77	9	98
	Phoenix	PT2.5	2.5 (0.0039)	550V	9	44	8	88	8	87	8	113
	Phoenix	MBK3/E-Z	2.5 (0.0039)	275V	10	38	9	77	9	76	9	97
	Wago	WAGO 2002	2.5 (0.0039)	550V	10	33	9	65	9	66	9	87
	Wago	WAGO2202	2.5 (0.0039)	550V	10	32	9	64	9	64	10	83
	Weidmuller	A2C2.5	2.5 (0.0039)	550V	9	37	8	74	9	75	9	98
	Weidmuller	AKZ2.5	2.5 (0.0039)	220V	11	26	10	52	10	52	11	68
4	Weidmuller	WDU4	4 (0.0062)	690V	15	26	13	53	14	52	14	67
	Weidmuller	ZDU4	4 (0.0062)	550V	13	29	12	58	12	59	12	78
	Phoenix	UT4	4 (0.0062)	690V	14	30	12	61	13	60	13	76
	Weidmuller	A2C4	4 (0.0062)	550V	13	29	12	58	12	59	12	78
	Weidmuller	AKZ4	4 (0.0062)	275V	15	22	13	45	14	45	14	60
6	Weidmuller	WDU6	6 (0.0093)	690V	20	24	17	49	18	48	18	61
	Weidmuller	ZDU6	6 (0.0093)	550V	19	22	16	43	17	44	17	59
	Phoenix	UT6	6 (0.0093)	690V	19	25	17	51	18	50	18	64
	Weidmuller	A2C6	6 (0.0093)	550V	18	24	15	48	16	49	17	66
10	Weidmuller	WDU10	10 (0.0155)	690V	27	20	24	41	25	40	26	52
	Weidmuller	ZDU10	10 (0.0155)	690V	24	20	21	40	22	41	23	56
	Phoenix	UT10	10 (0.0155)	690V	26	22	23	45	24	45	24	58
16	Weidmuller	WDU6	16 (0.0248)	690V	37	17	32	34	34	34	34	45
	Phoenix	UT16	16 (0.0248)	690V	36	18	31	37	33	37	33	48
	Weidmuller	ZDU16	16 (0.0248)	690V	33	25	29	51	30	50	31	62
35	Weidmuller	WDU35	35 (0.0543)	690V	56	15	49	30	51	30	52	40
	Weidmuller	ZDU35	35 (0.0543)	690V	53	13	47	25	49	26	50	37
	Phoenix	UT35	35 (0.0543)	690V	60	14	52	28	55	28	56	37
50	Weidmuller	WDU50N	50 (0.0775)	690V	61	15	54	30	56	31	57	43
70	Weidmuller	WDU70N	70 (0.1085)	690V	90	9	79	17	82	18	84	26
120	Weidmuller	WDU95N/120N	95 (0.1473)	880V	108	7	95	15	99	16	101	23

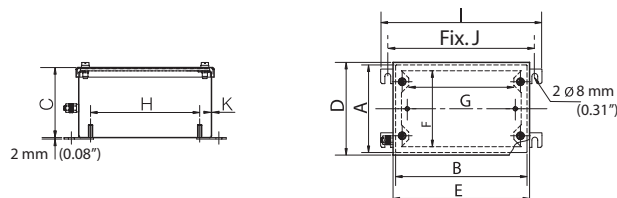
ATX™ JBES and ECES Series 316L Stainless Steel Enclosures

Increased Safety

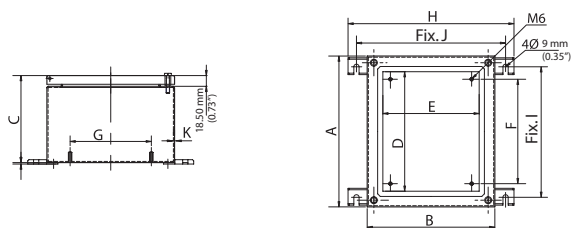
ATEX/IECEx: Zones 1 and 2 – 21 and 22
Notable: INMETRO Certified

Dimensions in Millimeters (Inches)

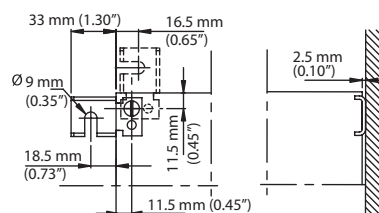
Box 95 (3.74) Depth



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
Box Depth 95 (3.74)											
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)
Box Depth 200 (7.87)											
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 (24.40)	506 (19.92)	670 (26.38)	480 (18.90)	626 (24.65)	715 (28.15)	597 (23.50)	2 (0.08)
Box Depth 300 (11.81)											
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 (24.40)	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)