



## AJBEW CAST JUNCTION BOXES

### FEATURES

- External flange maximizes internal space.
- O-ring gasket ensures watertight integrity.
- Bolt-on stainless steel slotted mounting feet for horizontal or vertical mounting even on irregular surfaces.
- Flexible hinge mounting either left or right side is standard on all boxes 12" x 12" x 6" and larger.
- Ground lug package and installation instructions for termination of ground wires enclosed.
- Provision for mounting pan.
- Wide range of drilled and tapped entries.
- Sand-cast copper free aluminum.
- Sizes range from 5" x 9" x 3" to 30" x 38" x 16".

### STANDARD MATERIALS

- Explosionproof junction boxes are used where hazardous materials are handled or stored. These enclosures may be used for:
  - Terminals
  - Splicing wires
  - Pull boxes
  - Bus boxes

### STANDARD MATERIALS

- Bodies and covers: sand cast copperfree (4/10 of 1% max.) aluminum
- Cover bolts: stainless steel
- O-ring: neoprene
- Hinges: stainless steel
- Mounting pan: galvanized steel

### OPTIONS

- Custom drilling and tapping.
- Set of 4 standoffs 12.7 mm (0.50") high. For factory-installed option add suffix **-AB**.
- Breather, NEMA 4X (includes outlets and

installation). For factory-installed option add suffix **-BR**, for field-installed option order catalog number **BRTB4X**.

- Drain, NEMA 4X (includes outlets and installation). For factory-installed option add suffix **-DN** for field-installed option order catalog number **ECD50B4X**.
- Desiccate package. For factory-installed option add suffix **-DP1**, for field-installed option order catalog number **AWG13/1CT**.
- External grounding stud 3/8"-16. For factory-installed option add suffix **-EGS**.
- Gray epoxy powder coat (outside). For factory-installed option add suffix **-G1**.
- Gray epoxy powder coat available to provide NEMA 4X rating (inside and outside). For factory-installed option add suffix **-G2**.
- Internal Ground Stud, #14 - #2. For factory-installed option add suffix **-GNDKIT**.
- Hinges: stainless steel hinge available for boxes up to 11 x 30 x 03. For factory-installed option add suffix **-H**.
- Hinge Kit, 2 light duty SS hinges. For field-installed option order catalog number **AHOF12SS**.
- Hinge Kit, 2 heavy duty SS hinges. For field-installed option order catalog number **AHOF22SS**.
- Hinge Kit, 3 heavy duty SS hinges. For field-installed option order catalog number **AHOF23SS**.
- Terminal blocks 600 Volt, 30 Amp Indicate number of points: example: 5 points = 5K. For factory-installed option add suffix **-K**.
- Plastic nameplate, 50.8 x 101.6 mm (2.00 x 4.00"), 3.3 mm (13") black letters on white surface, 3 lines max, specify legend.

For factory-installed option add suffix **-NP**.

- SS captive Quad-Lead bolts. For factory-installed option add suffix **-Q**.
- ATEX complete product certification add suffix **-X**.
- ATEX U component certification add suffix **-XU**.
- Mounting pan. For factory-installed option add suffix **-Z**.

### NEC/CEC RATINGS

- Class I, Division 1, 2, Groups B $\diamond$ , C $\diamond$ , D
- Class I, Zone 1, 2, Groups IIA, IIB $\diamond$ +H2 $\diamond$
- Class II, Division 1, 2, Groups E, F, G
- Class III
- NEMA 4, 7B $\diamond$ C $\diamond$ D, 9EFG

### ATEX/IECEX RATINGS

- Zone 1 and 2 – 21 and 22
- II 2 GD
- IP66 – IK10

### NEC/CEC CERTIFICATIONS AND COMPLIANCES

- UL Standard: UL 886 (UL 1203)
- UL Listed: E85310
- CSA Standard: C22.2 No. 25, C22.2 No.30
- CSA Certified: 042129

$\diamond$  For Groups B and C, all conduits must be sealed within 50.8 mm (2") of the enclosure.  
 Ⓢ Ordering product with any ATEX certification nulls the UL, CSA and cULus certification.

**APPLETON**

For product information:  
[www.appletonelec.com](http://www.appletonelec.com)  
 1.800.621.1506

  
**EMERSON**

**CONSIDER IT SOLVED™**

**ATEX/IECEX CERTIFICATIONS AND COMPLIANCES**

- Certification Type JBWEU U2
  - Gas, Zones 1 and 2
    - Conforming to ATEX 94/9/CE: CE 0081 II 2 G w
    - ATEX/IEC Protection: Ex d IIB + H<sub>2</sub>
  - Dust, Zones 21 and 22
    - Conforming to ATEX 94/9/CE: CE 0081 II 2 D
    - ATEX/IEC Protection: Ex tD A21

- Ambient Temperature: -40 °C to +55 °C (-40 °F to 131 °F)
- CE Declaration of Conformity: 5C239
- ATEX Certificate: LCIE 06 ATEX 0010U
- IECEx Certificate: IECEx LCI 08.001X
- Internal Volume: > 2dm<sup>3</sup> (2 liters)
- Ingress Protection (solid and liquid): IP66
- Index of Protection according EN/IEC 60529: 1P66
- Ex Standards: EN/IEC 60079-0; 60079-1; 61241-0; 61241-1
- Other Standards: EN/IEC 60529 (IP), 62262 (IK)

**CATALOG ORDERING**

Inside Dimensions in mm (in)			Catalog Number
W	H	Db	
101.6 (4.00)	152.4 (6.00)	95.3 (3.75)	AJBEW040604
128.5 (5.06)	241.3 (9.50)	88.9 (3.50)	AJBEW050903
152.4 (6.00)	152.4 (6.00)	101.6 (4.00)	AJBEW060604
152.4 (6.00)	203.2 (8.00)	95.3 (3.75)	AJBEW060804
152.4 (6.00)	203.2 (8.00)	146.1 (5.75)	AJBEW060806
155.7 (6.13)	273.1 (10.75)	96.8 (3.81)	AJBEW061004
155.7 (6.13)	308.1 (12.13)	103.1 (4.06)	AJBEW061204
165.1 (6.50)	406.4 (16.00)	104.9 (4.13)	AJBEW061604
187.5 (7.38)	289.1 (11.38)	149.4 (5.88)	AJBEW071106
203.2 (8.00)	203.2 (8.00)	146.1 (5.75)	AJBEW080806
203.2 (8.00)	254.0 (10.00)	146.1 (5.75)	AJBEW081006
203.2 (8.00)	331.7 (13.06)	88.9 (3.50)	AJBEW081307
238.3 (9.00)	282.7 (11.13)	122.2 (4.81)	AJBEW091105
241.3 (9.50)	395.2 (15.56)	120.7 (4.75)	AJBEW091504
260.4 (10.25)	260.4 (10.25)	146.1 (5.75)	AJBEW101006
254.0 (10.00)	355.6 (14.00)	149.4 (5.88)	AJBEW101406
254.0 (10.00)	355.6 (14.00)	196.9 (7.75)	AJBEW101408
289.1 (11.38)	508.0 (20.00)	124.0 (4.88)	AJBEW112005
273.1 (10.75)	619.3 (24.38)	152.4 (6.00)	AJBEW112406

Inside Dimensions in mm (in)			Catalog Number
W	H	Db	
285.8 (11.25)	759.0 (29.88)	157.2 (6.19)	AJBEW113006
311.2 (12.25)	311.2 (12.25)	146.1 (5.75)	AJBEW121206
311.2 (12.25)	311.2 (12.25)	196.9 (7.75)	AJBEW121208
311.2 (12.25)	463.6 (18.25)	146.1 (5.75)	AJBEW121806
311.2 (12.25)	463.6 (18.25)	222.3 (8.75)	AJBEW121808
304.8 (12.00)	609.6 (24.00)	196.9 (7.75)	AJBEW122408
304.8 (12.00)	914.4 (36.00)	196.9 (7.75)	AJBEW123608
346.2 (13.63)	962.2 (37.88)	155.7 (6.13)	AJBEW133806
374.7 (14.75)	374.7 (14.75)	146.1 (5.75)	AJBEW141406
374.7 (14.75)	374.7 (14.75)	196.9 (7.75)	AJBEW141408
378 (14.88)	616.0 (24.25)	203.2 (8.00)	AJBEW142408
397 (15.63)	946.2 (37.25)	189.0 (7.44)	AJBEW153707
419.1 (16.50)	419.1 (16.50)	146.1 (5.75)	AJBEW161606
419.1 (16.50)	419.1 (16.50)	212.9 (8.38)	AJBEW161608
412.8 (16.25)	463.6 (18.25)	301.8 (11.88)	AJBEW161812
417.6 (16.44)	571.5 (22.50)	146.1 (5.75)	AJBEW162206
412.8 (16.25)	616.0 (24.25)	209.6 (8.25)	AJBEW162408
412.8 (16.25)	717.6 (28.25)	146.1 (5.75)	AJBEW162806
463.6 (18.25)	463.6 (18.25)	146.1 (5.75)	AJBEW181806

Inside Dimensions in mm (in)			Catalog Number
W	H	Db	
463.6 (18.25)	463.6 (18.25)	196.9 (7.75)	AJBEW181808
463.6 (18.25)	614.4 (24.19)	196.9 (7.75)	AJBEW182408
463.6 (18.25)	614.4 (24.19)	247.7 (9.75)	AJBEW182410
463.6 (18.25)	768.4 (30.25)	196.9 (7.75)	AJBEW183008
463.6 (18.25)	927.1 (36.50)	196.9 (7.75)	AJBEW183608
463.6 (18.25)	927.1 (36.50)	247.7 (9.75)	AJBEW183610
473.2 (18.63)	1073.2 (42.25)	177.8 (7.00)	AJBEW184207
508.0 (20.00)	1524.0 (60.00)	174.8 (6.88)	AJBEW206008
622.3 (24.50)	622.3 (24.50)	196.9 (7.75)	AJBEW242408
622.3 (24.50)	622.3 (24.50)	247.7 (9.75)	AJBEW242410
609.6 (24.00)	762.0 (30.00)	203.2 (8.00)	AJBEW243008
616.0 (24.25)	920.8 (36.25)	196.9 (7.75)	AJBEW243608
616.0 (24.25)	920.8 (36.25)	247.7 (9.75)	AJBEW243610
762.0 (30.00)	965.2 (38.00)	196.9 (7.75)	AJBEW303808
762.0 (30.00)	965.2 (38.00)	196.9 (7.75)	AJBEW303816 ©

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