

AJBEW Cast Junction Boxes

Explosionproof, Dust-Ignitionproof

NEC/CEC:

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

ATEX/IECEx – Optional ①:

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

Application

- 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

Features

- Precision machined flame path between box and cover.
- Bolt on stainless steel slotted mounting feet for horizontal or vertical mounting.
- Flexible hinge mounting either left or right side is standard on all boxes 12 x 12 x 06 and larger.
- External flange maximizes internal space.
- Wall thickness suitable for minimum of five full threads.
- Provision for mounting pan.
- Wide range of drilled and tapped outlets.
- Ground lug package and installation instructions for termination of ground wires enclosed.
- O-ring gasket insures watertight integrity.

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

Standard Finishes

- Bodies and covers: shot blast finish standard

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** ①.
- ATEX U component certification add suffix **-XU** ①.
- Mounting pan. For factory-installed option add suffix **-Z**.

NEC/CEC Certifications and Compliances

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

ATEX/IECEx Certifications and Compliances

- Certification Type JBEW
 - Gas, Zones 1 and 2
 - Conforming to ATEX 94/9/CE: ⊕ II 2 G
 - Type of Protection: Ex d IIB + H₂ GB
 - Dust, Zones 21 and 22
 - Conforming to ATEX 94/9/CE: ⊕ II 2 D
 - Type of Protection: Ex t Db
- Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
- CE Declaration of Conformity: 5C239
- ATEX Certificate: LCIE 07 ATEX 6069X
- IECEx Certificate: IECEx LCI 07.0018X
- Internal Volume: > 2dm³ (122 in³) – 2 liters
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

EURASEC Certification

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

\diamond For Groups B and C, all conduits must be sealed within 50.8 mm (2") of the enclosure.

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Class I, Division 1 and 2, Groups B[◇], C[◇], D[◇]
 Class I, Zone 1 and 2, Groups IIA, IIB[◇]+H₂[◇]
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 NEMA 4, 7B[◇]C[◇]D, 9EFG

ATEX/IECEX – Optional ①:

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

| Overall Dimensions | | | Dimensions in Millimeters (Inches) | | | | | | | | | | Max. Conduit Size Inches | Ship Weight kg (lb) | Mounting Hardware | |
|--------------------|------------------|------------------|------------------------------------|------------------|------------------|-------------------|------------------|------------------|-----------------|----------------|-----------------|-------|--------------------------|---------------------|-------------------|----------------|
| F | E | G | Mounting Dimensions | | | Inside Dimensions | | | | | | | | | Catalog Number | Catalog Number |
| | | | A | AA | B | BB | W | H | Db | Dc | K | | | | | |
| 181.1 (7.13) | 231.9 (9.13) | 155.7 (6.13) | N/A | 171.5 (6.75) | N/A | 54.1 (2.13) | 101.6 (4.00) | 152.4 (6.00) | 95.3 (3.75) | 19.1 (0.75) | 63.5 (2.50) | 1-1/2 | 9.1 (20) | AMH2 | AJBEW040604 | |
| 227.1 (8.94) | 342.9 (13.50) | 155.7 (6.13) | 101.6 (4.00) | N/A | 279.4 (11.00) | N/A | 128.5 (5.06) | 241.3 (9.50) | 88.9 (3.50) | 28.7 (1.13) | 50.8 (2.00) | 1-1/2 | 9.1 (20) | AMH2 | AJBEW050903 | |
| 244.6 (9.63) | 237.0 (9.33) | 158.8 (6.25) | N/A | 222.3 (8.75) | N/A | 308.1 (12.13) | 152.4 (6.00) | 152.4 (6.00) | 101.6 (4.00) | 19.1 (0.75) | 60.5 (2.38) | 2 | 9.1 (20) | AMH2 | AJBEW060604 | |
| 264.2 (10.40) | 315.0 (12.40) | 165.1 (6.50) | 114.3 (4.50) | 231.9 (9.13) | 268.2 (10.56) | 114.3 (4.50) | 152.4 (6.00) | 203.2 (8.00) | 95.3 (3.75) | 19.1 (0.75) | 63.5 (2.50) | 2 | 9.1 (20) | AMH2 | AJBEW060804 | |
| 264.2 (10.40) | 317.5 (12.50) | 206.5 (8.13) | N/A | 238.3 (9.38) | N/A | 114.3 (4.50) | 152.4 (6.00) | 203.2 (8.00) | 146.1 (5.75) | 19.1 (0.75) | 60.5 (2.38) | 2 | 9.1 (20) | AMH2 | AJBEW060806 | |
| 270.0 (10.63) | 387.4 (15.25) | 171.5 (6.75) | 139.7 (5.50) | N/A | 333.5 (13.13) | N/A | 155.7 (6.13) | 273.1 (10.75) | 96.8 (3.81) | 36.6 (1.44) | 50.8 (2.00) | 2 | 12.2 (27) | AMH2 | AJBEW061004 | |
| 270.0 (10.63) | 421.6 (16.60) | 162.1 (6.38) | N/A | 231.9 (9.13) | N/A | 215.9 (8.50) | 155.7 (6.13) | 308.1 (12.13) | 103.1 (4.06) | 25.4 (1.00) | 57.2 (2.25) | 2 | 11.3 (25) | AMH2 | AJBEW061204 | |
| 279.4 (11.00) | 520.7 (20.50) | 174.8 (6.88) | 152.4 (6.00) | N/A | 457.2 (18.00) | N/A | 165.1 (6.50) | 406.4 (16.00) | 104.9 (4.13) | 35.1 (1.38) | 58.7 (2.31) | 2 | 14.5 (32) | AMH2 | AJBEW061604 | |
| 311.2 (12.25) | 403.4 (15.88) | 254.0 (10.00) | 162.1 (6.38) | N/A | 342.9 (13.50) | N/A | 187.5 (7.38) | 289.1 (11.38) | 149.4 (5.88) | 63.5 (2.50) | 85.9 (3.38) | 2 | 15.9 (35) | AMH2 | AJBEW071106 | |
| 311.2 (12.25) | 311.2 (12.25) | 209.6 (8.25) | 114.3 (4.50) | 273.1 (10.75) | 273.1 (10.75) | 114.3 (4.50) | 203.2 (8.00) | 203.2 (8.00) | 146.1 (5.75) | 19.1 (0.75) | 82.6 (3.25) | 2 | 13.6 (30) | AMH2 | AJBEW080806 | |
| 317.5 (12.50) | 368.3 (14.50) | 215.9 (8.50) | 177.8 (7.00) | 273.1 (10.75) | 317.5 (12.50) | 165.1 (6.50) | 203.2 (8.00) | 254.0 (10.00) | 146.1 (5.75) | 19.1 (0.75) | 88.9 (3.50) | 2 | 16.3 (36) | AMH2 | AJBEW081006 | |
| 317.5 (12.50) | 443.0 (17.44) | 263.7 (10.38) | N/A | 254.0 (10.00) | N/A | 215.9 (8.50) | 203.2 (8.00) | 331.7 (13.06) | 88.9 (3.50) | 88.9 (3.50) | 69.9 (2.75) | 2 | 13.6 (30) | AMH2 | AJBEW081307 | |
| 352.6 (13.88) | 393.7 (15.50) | 220.7 (8.69) | 184.2 (7.25) | 300.2 (11.82) | 333.5 (13.13) | 217.4 (8.56) | 238.3 (9.00) | 282.7 (11.13) | 122.2 (4.81) | 47.8 (1.88) | 82.6 (3.25) | 2 | 10.0 (22) | AMH2 | AJBEW091105 | |
| 362.0 (14.25) | 519.2 (20.44) | 215.9 (8.50) | 184.2 (7.25) | 300.0 (11.81) | 454.2 (17.88) | 338.1 (13.31) | 241.3 (9.50) | 395.2 (15.56) | 120.7 (4.75) | 44.5 (1.75) | 76.2 (3.00) | 2 | 15.0 (33) | AMH2 | AJBEW091504 | |
| 376.2 (14.81) | 376.2 (14.81) | 231.9 (9.13) | 165.1 (6.50) | 273.8 (10.78) | 330.2 (13.00) | 114.3 (4.50) | 260.4 (10.25) | 260.4 (10.25) | 146.1 (5.75) | 38.1 (1.50) | 85.9 (3.38) | 2 | 20.00 (44) | AMH2 | AJBEW101006 | |
| 368.3 (14.50) | 469.9 (18.50) | 214.4 (8.44) | 177.8 (7.00) | 330.2 (13.00) | 422.4 (16.63) | 270.0 (10.63) | 254.0 (10.00) | 355.6 (14.00) | 149.4 (5.88) | 19.1 (0.75) | 79.5 (3.13) | 2 | 24.9 (55) | AMH4 | AJBEW101406 | |
| 368.3 (14.50) | 469.9 (18.50) | 244.6 (9.63) | N/A | 330.2 (13.00) | N/A | 270.0 (10.63) | 254.0 (10.00) | 355.6 (14.00) | 196.9 (7.75) | 19.1 (0.75) | 112.8 (4.44) | 4 | 27.2 (60) | AMH2 | AJBEW101408 | |
| 416.1 (16.38) | 638.3 (25.13) | 190.5 (7.50) | 260.4 (10.25) | 368.3 (14.50) | 574.8 (22.63) | 428.8 (16.88) | 289.1 (11.38) | 508.0 (20.00) | 124.0 (4.88) | 38.1 (1.50) | 88.9 (3.50) | 3 | 38.6 (85) | AMH2 | AJBEW112005 | |
| 400.1 (15.75) | 746.3 (29.38) | 258.8 (10.19) | 215.9 (8.50) | 358.9 (14.13) | 689.1 (27.13) | 508.0 (20.00) | 273.1 (10.75) | 619.3 (24.38) | 152.4 (6.00) | 41.4 (1.63) | 101.6 (4.00) | 3 | 32.7 (72) | AMH8 | AJBEW112406 | |

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 Class I, Zone 1 and 2, Groups IIA, IIB \diamond +H \diamond \diamond
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 NEMA 4, 7B \diamond C \diamond D, 9EFG

ATEX/IECEX – Optional ①:

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

| Overall Dimensions | | | Dimensions in Millimeters (Inches) | | | | | | | | | Max. Conduit Size Inches | Ship Weight kg (lb) | Mounting Hardware | |
|--------------------|-------------------|------------------|------------------------------------|------------------|-------------------|-------------------|------------------|------------------|------------------|----------------|-----------------|--------------------------|---------------------|-------------------|----------------|
| F | E | G | Mounting Dimensions | | | Inside Dimensions | | | | | | | | Catalog Number | Catalog Number |
| | | | A | AA | B | BB | W | H | Db | Dc | K | | | | |
| 416.1 (16.38) | 889.0 (35.00) | 260.4 (10.25) | 241.3 (9.50) | 384.3 (15.13) | 835.2 (32.88) | 692.2 (27.25) | 285.8 (11.25) | 759.0 (29.88) | 157.2 (6.19) | 47.8 (1.88) | 106.4 (4.19) | 3 | 51.3 (113) | AMH8 | AJBEW113006 |
| 441.5 (17.38) | 441.5 (17.38) | 235 (9.25) | 219.2 (8.63) | 397.0 (15.63) | 397.0 (15.63) | 219.2 (8.63) | 311.2 (12.25) | 311.2 (12.25) | 146.1 (5.75) | 38.1 (1.50) | 95.3 (3.75) | 3 | 29.5 (65) | AMH8 | AJBEW121206 |
| 441.5 (17.38) | 441.5 (17.38) | 292.1 (11.50) | 219.2 (8.63) | 397.0 (15.63) | 397.0 (15.63) | 219.2 (8.63) | 311.2 (12.25) | 311.2 (12.25) | 196.9 (7.75) | 38.1 (1.50) | 120.7 (4.75) | 3 | 31.8 (70) | AMH8 | AJBEW121208 |
| 431.8 (17.00) | 584.2 (23.00) | 231.9 (9.13) | 177.8 (7.00) | 400.1 (15.75) | 533.4 (21.00) | 358.9 (14.13) | 311.2 (12.25) | 463.6 (18.25) | 146.1 (5.75) | 38.1 (1.50) | 88.9 (3.50) | 4 | 40.8 (90) | AMH5 | AJBEW121806 |
| 431.8 (17.00) | 584.2 (23.00) | 282.7 (11.13) | 177.8 (7.00) | 400.1 (15.75) | 533.4 (21.00) | 358.9 (14.13) | 311.2 (12.25) | 463.6 (18.25) | 222.3 (8.75) | 38.1 (1.50) | 108.0 (4.25) | 4 | 45.8 (101) | AMH5 | AJBEW121808 |
| 425.5 (16.75) | 730.3 (28.75) | 282.7 (11.13) | N/A | 400.1 (15.75) | N/A | 466.9 (18.38) | 304.8 (12.00) | 609.6 (24.00) | 196.9 (7.75) | 25.4 (1.00) | 108.0 (4.25) | 4 | 62.6 (138) | AMH4 | AJBEW122408 |
| 425.5 (16.75) | 1035.1 (40.75) | 301.8 (11.88) | N/A | 400.1 (15.75) | N/A | 736.6 (29.00) | 304.8 (12.00) | 914.4 (36.00) | 196.9 (7.75) | 38.1 (1.50) | 115.8 (4.56) | 4 | 98.9 (218) | AMH5 | AJBEW123608 |
| 457.2 (18.00) | 1079.5 (42.50) | 265.2 (10.44) | 409.7 (16.13) | 301.8 (11.88) | 1035.1 (40.75) | 857.3 (33.75) | 346.2 (13.63) | 962.2 (37.88) | 155.7 (6.13) | 38.1 (1.50) | 109.5 (4.31) | 3-1/2 | 86.2 (190) | AMH8 | AJBEW133806 |
| 492.3 (19.38) | 492.3 (19.38) | 242.8 (9.56) | 247.7 (9.75) | 450.9 (17.75) | 450.9 (17.75) | 247.7 (9.75) | 374.7 (14.75) | 374.7 (14.75) | 146.1 (5.75) | 35.1 (1.38) | 98.6 (3.88) | 3-1/2 | 44.5 (98) | AMH8 | AJBEW141406 |
| 492.3 (19.38) | 492.3 (19.38) | 293.6 (11.56) | 247.7 (9.75) | 450.9 (17.75) | 450.9 (17.75) | 247.7 (9.75) | 374.7 (14.75) | 374.7 (14.75) | 196.9 (7.75) | 35.1 (1.38) | 101.6 (4.00) | 3 | 47.6 (105) | AMH8 | AJBEW141408 |
| 498.6 (19.63) | 736.6 (29.00) | 304.8 (12.00) | 333.5 (13.13) | N/A | 698.5 (27.50) | N/A | 378 (14.88) | 616.0 (24.25) | 203.2 (8.00) | 38.1 (1.50) | 101.6 (4.00) | 4 | 59.4 (131) | AMH6 | AJBEW142408 |
| 539.8 (21.25) | 1092.2 (43.00) | 306.3 (12.06) | 349.3 (13.75) | 508.0 (20.00) | 1057.4 (41.63) | 812.8 (32.00) | 397 (15.63) | 946.2 (37.25) | 189.0 (7.44) | 38.1 (1.50) | 133.4 (5.25) | 4 | 113.4 (250) | AMH8 | AJBEW153707 |
| 533.4 (21.00) | 533.4 (21.00) | 249.2 (9.81) | 279.4 (11.00) | 501.7 (19.75) | 501.7 (19.75) | 279.4 (11.00) | 419.1 (16.50) | 419.1 (16.50) | 146.1 (5.75) | 38.1 (1.50) | 98.6 (3.88) | 3-1/2 | 59.9 (132) | AMH8 | AJBEW161606 |
| 533.4 (21.00) | 533.4 (21.00) | 314.7 (12.39) | 279.4 (11.00) | 501.7 (19.75) | 501.7 (19.75) | 279.4 (11.00) | 419.1 (16.50) | 419.1 (16.50) | 212.9 (8.38) | 38.1 (1.50) | 124.0 (4.88) | 4 | 63.5 (140) | AMH8 | AJBEW161608 |
| 543.1 (21.38) | 593.9 (23.38) | 382.5 (15.06) | 304.8 (12.00) | 482.6 (19.00) | 533.4 (21.00) | 355.6 (14.00) | 412.8 (16.25) | 463.6 (18.25) | 301.8 (11.88) | 9.7 (0.38) | 177.8 (7.00) | 4 | 68.0 (150) | AMH8 | AJBEW161812 |
| 546.1 (21.50) | 693.7 (27.31) | 230.1 (9.06) | 330.2 (13.00) | 505.0 (19.88) | 641.4 (25.25) | 393.7 (15.50) | 417.6 (16.44) | 571.5 (22.50) | 146.1 (5.75) | 31.8 (1.25) | 84.1 (3.31) | 3 | 59.0 (130) | AMH8 | AJBEW162206 |
| 533.4 (21.00) | 711.2 (28.00) | 308.1 (12.13) | N/A | 501.7 (19.75) | N/A | 466.9 (18.38) | 412.8 (16.25) | 616.0 (24.25) | 209.6 (8.25) | 38.1 (1.50) | 134.9 (5.31) | 4 | 81.6 (180) | AMH6 | AJBEW162408 |
| 527.1 (20.75) | 831.9 (32.75) | 219.2 (8.63) | 330.2 (13.00) | N/A | 781.1 (30.75) | N/A | 412.8 (16.25) | 717.6 (28.25) | 146.1 (5.75) | 38.1 (1.50) | 79.5 (3.13) | 3 | 68.0 (150) | AMH5 | AJBEW162806 |
| 593.9 (23.38) | 593.9 (23.38) | 252.5 (9.94) | 330.2 (13.00) | 552.5 (21.75) | 552.5 (21.75) | 330.2 (13.00) | 463.6 (18.25) | 463.6 (18.25) | 146.1 (5.75) | 38.1 (1.50) | 104.9 (4.13) | 3-1/2 | 85.3 (188) | AMH8 | AJBEW181806 |

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NEC/CEC:

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

ATEX/IECEX – Optional ①:

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

| Overall Dimensions | | | Dimensions in Millimeters (Inches) | | | | | | | | | Max. Conduit Size Inches | Ship Weight kg (lb) | Mounting Hardware Catalog Number | Catalog Number |
|--------------------|-------------------|------------------|------------------------------------|------------------|-------------------|-------------------|------------------|-------------------|-----------------|-----------------|-----------------|--------------------------|---------------------|----------------------------------|----------------|
| F | E | G | Mounting Dimensions | | | Inside Dimensions | | | | | | | | | |
| | | | A | AA | B | BB | W | H | Db | Dc | K | | | | |
| 593.9 (23.38) | 593.9 (23.38) | 303.3 (11.94) | 330.2 (13.00) | 552.5 (21.75) | 552.5 (21.75) | 330.2 (13.00) | 463.6 (18.25) | 463.6 (18.25) | 196.9 (7.75) | 38.1 (1.50) | 114.3 (4.50) | 4 | 89.8 (198) | AMH8 | AJBEW181808 |
| 608.1 (23.94) | 762.0 (30.00) | 309.4 (12.18) | 409.7 (16.13) | 552.5 (21.75) | 704.9 (27.75) | 466.9 (18.38) | 463.6 (18.25) | 614.4 (24.19) | 196.9 (7.75) | 38.1 (1.50) | 128.5 (5.06) | 4 | 101.6 (224) | AMH8 | AJBEW182408 |
| 608.1 (23.94) | 762.0 (30.00) | 360.2 (14.18) | 409.7 (16.13) | 552.5 (21.75) | 704.9 (27.75) | 466.9 (18.38) | 463.6 (18.25) | 614.4 (24.19) | 247.7 (9.75) | 38.1 (1.50) | 146.1 (5.75) | 4 | 106.6 (235) | AMH8 | AJBEW182410 |
| 574.8 (22.63) | 879.6 (34.63) | 308.1 (12.13) | N/A | 552.5 (21.75) | N/A | 584.2 (23.00) | 463.6 (18.25) | 768.4 (30.25) | 196.9 (7.75) | 38.1 (1.50) | 120.7 (4.75) | 4 | 120.2 (265) | AMH5 | AJBEW183008 |
| 596.9 (23.50) | 1060.5 (41.75) | 312.7 (12.31) | 279.4 (11.00) | 552.5 (21.75) | 1003.3 (39.50) | 736.6 (29.00) | 463.6 (18.25) | 927.1 (36.50) | 196.9 (7.75) | 38.1 (1.50) | 120.7 (4.75) | 4 | 113.4 (250) | AMH8 | AJBEW183608 |
| 596.9 (23.50) | 1060.5 (41.75) | 363.5 (14.31) | 279.4 (11.00) | 552.5 (21.75) | 1003.3 (39.50) | 736.6 (29.00) | 463.6 (18.25) | 927.1 (36.50) | 247.7 (9.75) | 38.1 (1.50) | 139.7 (5.50) | 4 | 122.5 (270) | AMH8 | AJBEW183610 |
| 606.6 (23.88) | 1216.2 (47.88) | 301.8 (11.88) | 406.4 (16.00) | 584.2 (23.00) | 1152.7 (45.38) | 974.9 (38.38) | 473.2 (18.63) | 1073.2 (42.25) | 177.8 (7.00) | 38.1 (1.50) | 127.0 (5.00) | 4 | 140.6 (310) | AMH8 | AJBEW184207 |
| 635.0 (25.00) | 1651.0 (65.00) | 323.9 (12.75) | N/A | 596.9 (23.50) | N/A | 1270.0 (50.00) | 508.0 (20.00) | 1524.0 (60.00) | 174.8 (6.88) | 38.1 (1.50) | 120.7 (4.75) | 4 | 236.3 (521) | AMH5 | AJBEW206008 |
| 746.3 (29.38) | 746.3 (29.38) | 312.7 (12.31) | 466.9 (18.38) | 711.2 (28.00) | 711.2 (28.00) | 466.9 (18.38) | 622.3 (24.50) | 622.3 (24.50) | 196.9 (7.75) | 38.1 (1.50) | 127.0 (5.00) | 4 | 102.1 (225) | AMH8 | AJBEW242408 |
| 746.3 (29.38) | 746.3 (29.38) | 363.5 (14.31) | 466.9 (18.38) | 711.2 (28.00) | 711.2 (28.00) | 466.9 (18.38) | 622.3 (24.50) | 622.3 (24.50) | 247.7 (9.75) | 38.1 (1.50) | 155.7 (6.13) | 4 | 108.9 (240) | AMH8 | AJBEW242410 |
| 736.6 (29.00) | 889.0 (35.00) | 330.2 (13.00) | 457.2 (18.00) | 711.2 (28.00) | 863.6 (34.00) | 584.2 (23.00) | 609.6 (24.00) | 762.0 (30.00) | 203.2 (8.00) | 49.3 (1.94) | 133.4 (5.25) | 4 | 190.5 (420) | AMH8 | AJBEW243008 |
| 781.1 (30.75) | 1092.2 (43.00) | 331.7 (13.06) | 463.6 (18.25) | 711.2 (28.00) | 1016.0 (40.00) | 736.6 (29.00) | 616.0 (24.25) | 920.8 (36.25) | 196.9 (7.75) | 41.4 (1.63) | 130.3 (5.13) | 4 | 190.5 (420) | AMH5 | AJBEW243608 |
| 781.1 (30.75) | 1092.2 (43.00) | 382.5 (15.06) | 463.6 (18.25) | 711.2 (28.00) | 1016.0 (40.00) | 736.6 (29.00) | 616.0 (24.25) | 920.8 (36.25) | 247.7 (9.75) | 41.4 (1.63) | 152.4 (6.00) | 4 | 204.1 (450) | AMH5 | AJBEW243610 |
| 914.4 (36.00) | 1117.6 (44.00) | 349.3 (13.75) | N/A | 889.0 (35.00) | N/A | 736.6 (29.00) | 762.0 (30.00) | 965.2 (38.00) | 196.9 (7.75) | 50.8 (2.00) | 155.7 (6.13) | 4 | 272.2 (600) | AMH6 | AJBEW303808 |
| 914.4 (36.00) | 1117.6 (44.00) | 509.5 (20.06) | N/A | 889.0 (35.00) | N/A | 736.6 (29.00) | 762.0 (30.00) | 965.2 (38.00) | 196.9 (7.75) | 196.9 (7.75) | 155.7 (6.13) | 4 | 362.9 (800) | AMH6 | AJBEW303816 ② |

\diamond For Groups B and C, all conduits must be sealed within 50.8 mm (2") of the enclosure.

① Ordering a product with any ATEX Certification nulls the UL, CSA and cULus Certifications.

② Cast Junction Box does not have ATEX/IECEX certification.

AJBEW Cast Junction Box Options and Accessories

Explosionproof, Dust-Ignitionproof

NEC/CEC:

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

ATEX/IECEx – Optional ①:

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

Options

| Factory-Installed Suffix | Field-Installed Catalog Number | Description |
|--------------------------|--------------------------------|--|
| AB | Not Available | Set of 4 standoffs 12.7 mm (0.50") high |
| BR | BRTB4X | Breather, NEMA 4X (includes outlets and installation) |
| DN | ECD50B4X | Drain, NEMA 4X (includes outlets and installation) |
| DP1 | AWG13/1CT | Desiccate package |
| EGS | EGSKIT | External grounding stud 3/8"-16 |
| G1 | Not Available | Gray powder coat epoxy (outside) |
| G2 | Not Available | Gray powder coat epoxy (inside and outside) |
| GNDKIT | | Internal Ground Stud, #14 - #2 |
| H | | Hinges stainless steel |
| | AHOF12SS | Hinge Kit, 2 light duty SS hinges |
| | AHOF22SS | Hinge Kit, 2 heavy duty SS hinges |
| | AHOF23SS | Hinge Kit, 3 heavy duty SS hinges |
| K | Not Available | Terminal blocks 600 Volt, 30 Amp <i>Indicate number of points: example: 5 points = 5K</i> |
| NP | Not Available | 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. |
| Q | Not Available | SS captive Quad-Lead bolts |
| X | Not Available | ATEX Certification |
| XU | Not Available | ATEX Component Certification |
| Z | See table on following page | Mounting pan |

Drill and Tap Options

(For drill and tap schedule, Drilling and Tapping Guidelines)

| Symbol | Conduit Size (NPT) Inches | Symbol | Conduit Size (NPT) Inches |
|--------|---------------------------|--------|---------------------------|
| A | 1/2 | F | 2 |
| B | 3/4 | G | 2-1/2 |
| C | 1 | H | 3 |
| D | 1-1/4 | J | 3-1/2 |
| E | 1-1/2 | K | 4 |

| Blind Tapped Holes | |
|--------------------|--------------|
| Suffix | Screw Size |
| BT1 | #6 - 1/4" |
| BT2 | 5/16" - 1/2" |

Mounting Hardware

Refer to ordering information for Enclosure-Mounting Hardware Correlation.

| Factory-Installed Suffix | Field-Installed Catalog Number | Description |
|--------------------------|--------------------------------|--|
| MH1 | AMH1 | 1/4" - 20 x 1-1/4" Bolt, 1/4" - 20 Hex Nut, 1/4" Washers |
| MH2 | AMH2 | 3/8" -16 x 1-1/4" Bolt, 3/8" -16 Hex Nut, 3/8" Washers |
| MH3 | AMH3 | 7/16" - 14 x 1-3/4" Bolt, 7/16" - 14 Hex Nut, 7/16" Washers |
| MH4 | AMH4 | 1/2" - 13 x 1-3/4" Bolt, 1/2" - 13 Hex Nut, 1/2" Washers |
| MH5 | AMH5 | 1/2" - 13 x 2" Bolt, 1/2" - 13 Hex Nut, 1/2" Washers |
| MH6 | AMH6 | 5/8" - 11 x 2" Bolt, 5/8" - 11 Hex Nut, 5/8" Washers |
| MH7 | AMH7 | 1/2" - 13 x 1-1/4" Bolt, 1/2" - 13 Hex Nut, 1/2" Washers |
| MH8 | AMH8 | 5/8" - 11 x 1-1/4" Bolt, 5/8" - 11 Hex Nut, 5/8" Washers |

\diamond For Groups B and C, all conduits must be sealed within 50.8 mm (2") of the enclosure.

① Ordering a product with any ATEX Certification nulls the UL, CSA and cULus Certifications.

AJBEW Cast Junction Box Options and Accessories

Explosionproof, Dust-Ignitionproof

NEC/CEC:

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

ATEX/IECEx – Optional ①:

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

Mounting Pans

| Mounting Pan Catalog Number | Junction Box Catalog Number | Overall Dimensions in Millimeters (Inches) | |
|-----------------------------|-----------------------------|--|---------------|
| | | W | H |
| AZ-464 | AJBEW040604 | 76.2 (3.00) | 127.0 (5.00) |
| AZ-664 | AJBEW060604 | 120.7 (4.75) | 120.7 (4.75) |
| AZ-686 | AJBEW060806 | 114.3 (4.50) | 165.1 (6.50) |
| AZ-593 | AJBEW050903 | 101.6 (4.00) | 215.9 (8.50) |
| AZ-684 | AJBEW060804 | 114.3 (4.50) | 165.1 (6.50) |
| AZ-6104 | AJBEW061004 | 127.0 (5.00) | 266.7 (10.50) |
| AZ-6124 | AJBEW061204 | 139.7 (5.50) | 279.4 (11.00) |
| AZ-6164 | AJBEW061604 | 133.4 (5.25) | 381.0 (15.00) |
| AZ-7116 | AJBEW071106 | 165.1 (6.50) | 254.0 (10.00) |
| AZ-886 | AJBEW080806 | 165.1 (6.50) | 165.1 (6.50) |
| AZ-8106 | AJBEW081006 | 165.1 (6.50) | 215.9 (8.50) |
| AZ-8137 | AJBEW081307 | 152.4 (6.00) | 279.4 (11.00) |
| AZ-9115 | AJBEW091105 | 209.6 (8.25) | 254.0 (10.00) |
| AZ-9154 | AJBEW091504 | 206.5 (8.13) | 374.7 (14.75) |
| AZ-10104/6 | AJBEW101006 | 190.5 (7.50) | 190.5 (7.50) |
| AZ-10146/8 | AJBEW101408 | 228.6 (9.00) | 330.2 (13.00) |
| AZ-10146/8 | AJBEW101408 | 228.6 (9.00) | 330.2 (13.00) |
| AZ-11205 | AJBEW112005 | 266.7 (10.50) | 482.6 (19.00) |
| AZ-11246 | AJBEW112406 | 251.0 (9.88) | 590.6 (23.25) |
| AZ-11306 | AJBEW113006 | 251.0 (9.88) | 723.9 (28.50) |
| AZ-12126/8 | AJBEW121206 | 266.7 (10.50) | 266.7 (10.50) |
| AZ-12126/8 | AJBEW121208 | 266.7 (10.50) | 266.7 (10.50) |
| AZ-12186/8 | AJBEW121806 | 266.7 (10.50) | 419.1 (16.50) |
| AZ-12186/8 | AJBEW121808 | 266.7 (10.50) | 419.1 (16.50) |
| AZ-12248/10 | AJBEW122408 | 273.1 (10.75) | 574.8 (22.63) |
| AZ-12368 | AJBEW123608 | 254.0 (10.00) | 863.6 (34.00) |
| AZ-13386 | AJBEW133806 | 292.1 (11.50) | 924.1 (36.38) |

| Mounting Pan Catalog Number | Junction Box Catalog Number | Overall Dimensions in Millimeters (Inches) | |
|-----------------------------|-----------------------------|--|----------------|
| | | W | H |
| AZ-14146/8 | AJBEW141406 | 311.2 (12.25) | 311.2 (12.25) |
| AZ-14146/8 | AJBEW141408 | 311.2 (12.25) | 311.2 (12.25) |
| AZ-14248 | AJBEW142408 | 355.6 (14.00) | 568.5 (22.38) |
| AZ-15377 | AJBEW153707 | 368.3 (14.50) | 901.7 (35.50) |
| AZ-16166/8 | AJBEW161606 | 381.0 (15.00) | 381.0 (15.00) |
| AZ-16166/8 | AJBEW161608 | 381.0 (15.00) | 381.0 (15.00) |
| AZ-161812 | AJBEW161812 | 381.0 (15.00) | 406.4 (16.00) |
| AZ-16226 | AJBEW162206 | 355.6 (14.00) | 508.0 (20.00) |
| AZ-16248 | AJBEW162408 | 374.7 (14.75) | 577.9 (22.75) |
| AZ-16286 | AJBEW162806 | 355.6 (14.00) | 660.4 (26.00) |
| AZ-18186/8 | AJBEW181806 | 406.4 (16.00) | 406.4 (16.00) |
| AZ-18186/8 | AJBEW181808 | 406.4 (16.00) | 406.4 (16.00) |
| AZ-18248/10 | AJBEW182408 | 406.4 (16.00) | 558.8 (22.00) |
| AZ-18248/10 | AJBEW182410 | 406.4 (16.00) | 558.8 (22.00) |
| AZ-18308 | AJBEW183008 | 406.4 (16.00) | 711.2 (28.00) |
| AZ-18368/10 | AJBEW183608 | 431.8 (17.00) | 882.7 (34.75) |
| AZ-18368/10 | AJBEW183610 | 431.8 (17.00) | 882.7 (34.75) |
| AZ-18427 | AJBEW184207 | 431.8 (17.00) | 1016.0 (40.00) |
| AZ-205610 | AJBEW205610 | 431.8 (17.00) | 1371.6 (54.00) |
| AZ-20608 | AJBEW206008 | 457.2 (18.00) | 1460.5 (57.50) |
| AZ-24248/10 | AJBEW242408 | 558.8 (22.00) | 558.8 (22.00) |
| AZ-24248/10 | AJBEW242410 | 558.8 (22.00) | 558.8 (22.00) |
| AZ-24308 | AJBEW243008 | 571.5 (22.50) | 711.2 (28.00) |
| AZ-24368/10 | AJBEW243608 | 558.8 (22.00) | 863.6 (34.00) |
| AZ-24368/10 | AJBEW243610 | 558.8 (22.00) | 863.6 (34.00) |
| AZ-30388 | AJBEW303808 | 711.2 (28.00) | 914.4 (36.00) |
| AZ-30388 | AJBEW303816 | 711.2 (28.00) | 914.4 (36.00) |

\diamond For Groups B and C, all conduits must be sealed within 50.8 mm (2") of the enclosure.

① Ordering a product with any ATEX Certification nulls the UL, CSA and cULus Certifications.



ENCLOSURES AND JUNCTION BOXES: NEC/CEC, ATEX/IECEx INCREASED SAFETY JUNCTION BOXES

AJBEW Cast Junction Box Drilling and Tapping Guidelines

Explosionproof, Dust-Ignitionproof

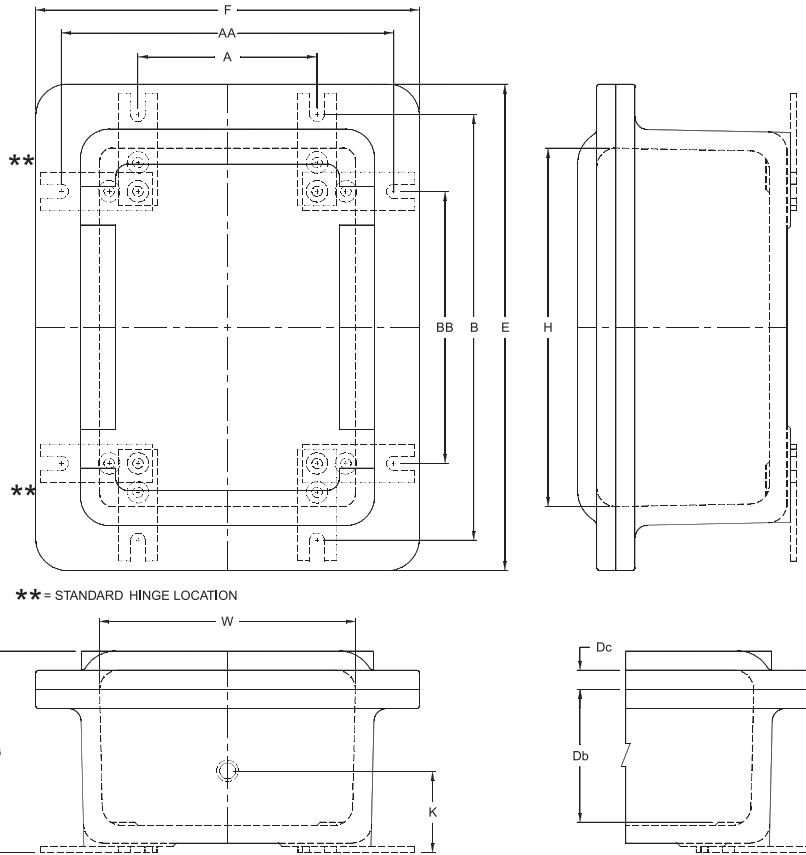
NEC/CEC:

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

ATEX/IECEX – Optional ①:

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

Dimensions — See Catalog Number Tables



Drilling and Tapping Guidelines

| Conduit Size (NPT) | Minimum Spacing For Conduit Centers in Millimeters (Inches) | | | | | | | | | |
|--------------------|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 1/2 | 3/4 | 1 | 1-1/4 | 1-1/2 | 2 | 2-1/2 | 3 | 3-1/2 | 4 |
| 1/2 | 54.1 (2.13) | 54.1 (2.13) | 57.2 (2.25) | 66.8 (2.63) | 71.4 (2.81) | 79.5 (3.13) | 92.2 (3.63) | 101.6 (4.00) | 114.3 (4.50) | 114.3 (4.50) |
| 3/4 | 54.1 (2.13) | 54.1 (2.13) | 57.2 (2.25) | 66.8 (2.63) | 71.4 (2.81) | 79.5 (3.13) | 92.2 (3.63) | 101.6 (4.00) | 114.3 (4.50) | 114.3 (4.50) |
| 1 | 57.2 (2.25) | 57.2 (2.25) | 60.5 (2.38) | 71.4 (2.81) | 76.2 (3.00) | 82.6 (3.25) | 95.3 (3.75) | 104.9 (4.13) | 114.3 (4.50) | 117.6 (4.63) |
| 1-1/4 | 66.8 (2.63) | 66.8 (2.63) | 71.4 (2.81) | 79.5 (3.13) | 84.1 (3.31) | 92.2 (3.63) | 104.9 (4.13) | 114.3 (4.50) | 120.7 (4.75) | 127.0 (5.00) |
| 1-1/2 | 71.4 (2.81) | 71.4 (2.81) | 76.2 (3.00) | 84.1 (3.31) | 88.9 (3.50) | 96.8 (3.81) | 109.5 (4.31) | 117.6 (4.63) | 125.5 (4.94) | 133.4 (5.25) |
| 2 | 79.5 (3.13) | 79.5 (3.13) | 82.6 (3.25) | 92.2 (3.63) | 96.8 (3.81) | 104.9 (4.13) | 117.6 (4.63) | 127.0 (5.00) | 148.1 (5.83) | 146.1 (5.75) |
| 2-1/2 | 92.2 (3.63) | 92.2 (3.63) | 95.3 (3.75) | 104.9 (4.13) | 109.5 (4.31) | 117.6 (4.63) | 130.3 (5.13) | 84.1 (3.31) | 146.1 (5.75) | 155.7 (6.13) |
| 3 | 101.6 (4.00) | 101.6 (4.00) | 104.9 (4.13) | 114.3 (4.50) | 117.6 (4.63) | 127.0 (5.00) | 84.1 (3.31) | 146.1 (5.75) | 152.4 (6.00) | 158.8 (6.25) |
| 3-1/2 | 114.3 (4.50) | 114.3 (4.50) | 114.3 (4.50) | 120.7 (4.75) | 125.5 (4.94) | 136.7 (5.38) | 146.1 (5.75) | 152.4 (6.00) | 158.8 (6.25) | 165.1 (6.50) |
| 4 | 114.3 (4.50) | 114.3 (4.50) | 117.6 (4.63) | 127.0 (5.00) | 133.4 (5.25) | 146.1 (5.75) | 155.7 (6.13) | 158.8 (6.25) | 165.1 (6.50) | 171.5 (6.75) |

\diamond For Groups B and C, all conduits must be sealed within 50.8 mm (2") of the enclosure.

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