AJBEW Cast Junction Boxes

Explosionproof, Dust-Ignitionproof

NEC/CEC:

Class I, Division 1 and 2, Groups B\0, C\0, D Class I, Zone 1 and 2, Groups IIA, IIB\0+H_2\0 Class II, Division 1 and 2, Groups E, F, G Class III NEMA 4, 7B\0C\0, 9EFG

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 fac



tory-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 AH0F12SS.
- Hinge Kit, 2 heavy duty SS hinges. For field-installed option order catalog number AH0F22SS.
- Hinge Kit, 3 heavy duty SS hinges. For field-installed option order catalog number AH0F23SS.
- 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.
- Mounting pan. For factory-installed option add suffix -Z.

NEC/CEC Certifications and Compliances

UL Standard: UL 1203cULus Listed: E85310

CSA Standard: C22.2 No. 25, C22.2 No.30

CSA Certified: 042129



AJBEW Cast Junction Box Options and Accessories

Explosionproof, Dust-Ignitionproof

NEC/CEC: Class I, Division 1 and 2, Groups $B \lozenge$, $C \lozenge$, D Class I, Zone 1 and 2, Groups IIA, IIB $\lozenge+H_2 \lozenge$ Class II, Division 1 and 2, Groups E, F, G Class III NEMA 4, $7B \lozenge C \lozenge D$, 9EFG

Options

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 to provide NEMA 4X rating (inside and outside)	
GNDKIT	_	Internal Ground Stud, #14 - #2	
Н		Hinges stainless steel	
	AH0F12SS	Hinge Kit, 2 light duty SS hinges	
	AH0F22SS	Hinge Kit, 2 heavy duty SS hinges	
	AH0F23SS	Hinge Kit, 3 heavy duty SS hinges	
K	Not Available	Terminal blocks 600 Volt, 30 Amp Indicate number of points: example: 5 points = 5K	
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	
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
Α	1/2	F	2
В	3/4	G	2-1/2
С	1	Н	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,
IVITI		1/4" - 20 Hex Nut, 1/4" Washers
MH2	AMH2	3/8" -16 x 1-1/4" Bolt,
IVITZ	AIVITZ	3/8" -16 Hex Nut, 3/8" Washers
мнз	АМН3	7/16" - 14 x 1-3/4" Bolt,
IVINO	AIVINS	7/16" - 14 Hex Nut, 7/16" Washers
MH4	AMH4	1/2" - 13 x 1-3/4" Bolt,
IVIT4		1/2" - 13 Hex Nut, 1/2" Washers
MUS	AMH5	1/2" - 13 x 2" Bolt,
MH5	АМПЭ	1/2" - 13 Hex Nut, 1/2" Washers
МН6	АМН6	5/8" - 11 x 2" Bolt,
IVINO	AIVINO	5/8" - 11 Hex Nut, 5/8" Washers
MH7	AMU7	1/2" - 13 x 1-1/4" Bolt,
IVIП/	AMH7	1/2" - 13 Hex Nut, 1/2" Washers
мн8	АМН8	5/8" - 11 x 1-1/4" Bolt,
IVINO	AIVITO	5/8" - 11 Hex Nut, 5/8" Washers

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

