

ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications

Fiberglass Reinforced Polyester. Increased Safety. Factory Drilled and Equipped.

NEC/CEC:
Class I, Zone 1, AEx e IIC, T5 or T6
Ex e IIC, T5 or T6
IP66

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

Applications

- Electrical junction boxes are used to distribute power to lighting and to other Power and control circuits.
- Power junction boxes are used to connect cables together to supply main lighting circuits, motors, service receptacles and other equipment.
- Designed for Zones 1 or 2 areas, where flammable gases or vapors are present either continuously, often or accidentally such as:
 - Petroleum
 - Chemical
 - Refineries
 - Other industrial process facilities
- Ideal for indoor/outdoor use with wet or corrosive atmospheres.
- Designed for use in Zones 21 or 22 areas where flammables dusts (conductive and non conductive) are present either continuously, often or accidentally such as:
 - Food processing
 - Dairy
 - Brewing
 - Other industrial process facilities

Features

- Available in multiple terminal configurations.
- Supplied with terminals Size 2.5 mm² (14AWG) through 240 mm² (474MCM).
- Optional external hinged enclosures:
 - Reversible door opening 120°.
 - Door with double bar lock.
 - Key locking facility.

Standard materials

- Enclosures: Static resistant carbon filled fiberglass reinforced polyester (FRP)
- Hardware: stainless steel
- Gasket for sizes 85 x 85, 120 x 120: silicone
- Gasket for other sizes: EPDM (ethylene propylene diene monomer rubber)

Options

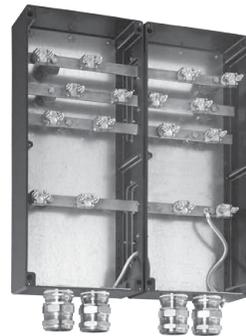
- External hinges are available on the following sizes:
 - 500 x 320 x 150
 - 500 x 320 x 230
 - 750 x 320 x 150
 - 750 x 320 x 230
- Removable glands plates
- Nameplates
- Mounting pan
- Inside pocket for document
- Consult factory for custom drilling, assembly requirements and other ambient temperatures.

NEC/CEC Certifications and Compliances

- UL Standard: UL 60079-0; 60079-7
- CSA Standard: C22.2 No. 60079-0: 11; 60079-7: 12
- cCSAus Certified: 2625458
- CSA Listed: 013017



Un-Armored Cable Glands are Supplied as Standard.
Armored Cable Glands are available as an Option.



Sample of 2 x JBEP753215

ATEX/IECEX Certifications and Compliances ^①

- Certification Type JBEP
 - Gas, Zones 1 and 2:
 - Conforming to ATEX 94/9/EC: Ⓢ II 2G
 - Conforming to IECEx : EPL Gb
 - Type of Protection: Ex eb IIC
 - Temperature Class: T6 for Ta ≤ +40 °C (+104 °F) and T5 for Ta ≤ +60 °C (+140 °F)
 - Dusts, Zones 21 and 22:
 - Conforming to ATEX: Ⓢ II 2D
 - Conforming to IECEx: EPL Db
 - Type of Protection: Ex tb IIC
 - Surface Temperature : T60 °C (T140 °F) for Ta ≤ +40 °C (+104 °F), T90 °C (+194 °F) for Ta ≤ +60 °C (+140 °F)
- Ambient Temperatures: -55 °C ≤ Ta ≤ +60 °C (-67 °F ≤ Ta ≤ +140 °F)
- ATEX Certificate : LCIE 12 ATEX 3037X
- EC Declaration of Conformity : 50291
- IECEx Certificate : IECEx LCIE 13.0003X
- Index of Protection according EN/IEC 60529: IP66

^① The ambient temperature for complete assembly is equal to the lowest ambient temperature of the components used.

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Components Ambient Temperature ①

- Type : Bve (plastic close up plug)
– Ambient Temperatures : -40 °C to +55 °C (-40 °F to +131 °F)
- Type : 757 (nickel plated close up plug)
– Ambient Temperatures : -60 °C to +100 °C (-40 °F to +212 °F)
- Type : EEXe (plastic cable gland)
– Ambient Temperatures : -20 °C to +55 °C (-4 °F to +131 °F)
- Type : E1FX, E2FX, E1FW, E2FW, T3, A2F (metal cable gland)
– Ambient Temperatures : -60 °C to +130 °C (-76 °F to +266 °F)
- Type : PX, PX2K (metal cable gland)
– Ambient Temperatures : -60 °C to +100 °C (-76 °F to +212 °F)
- Type : DBE (drain/breather)
– Ambient Temperatures : -50 °C to +85 °C (-58 °F to +185 °F)
- Type : WDU, WFF (terminal)
– Ambient Temperatures : -50 °C to +120 °C (-58 °F to +248 °F)
- Type : SAK, AKZ (terminal)
– Ambient Temperatures : -50 °C to +100 °C (-58 °F to +212 °F)

EURASEC Certification

- Type : JBEP
– EURASEC N° TC RU C-FR.Г505.B.00911

Other Certifications

- Type : JBEP
– INMETRO Certificate: BVC 13.3238-X ②

Illustrated Features — Sample of JBEP080806NE04T

Description	
1 Screw M5 X 6	
2 JBEP0808060 - Base Holes: 3 x Ø 20.5	
3 Cover Of Polyester Box Type (85 x 85 x 60)	
4 Hood Terminals Compact Set	
8 Nameplate	
9 Gasket Box Type 85 x 85 x 60	
10 Pan Head Screw M4 X 7	
11 Entry Thread Seal M20	
12 Nickel-Plated Brass Locknuts M20 X 1.5	
13 EEx e M20 Cable Gland	
15 Screw M6 X 20 X 10	
16 Hood Term Cover	
17 Earth Plate	

① The ambient temperature for complete assembly is equal to the lowest ambient temperature of the components used.

② INMETRO certification available on special request only. Contact your local sales representative for more information.

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The Catalog Numbering Guide is a reference tool to explain the make-up of the catalog number. It is not to be used to create a custom product for ordering.

Catalog Numbering Guide - JBEP Polyester Junction Boxes for Electrical and Power Applications

JBE	P	08	08	06	A	E	01	T
Series: JBE - NEC/ CEC and ATEX/IECEx Certified Junction Box		Dimensions Height mm (in): 08 - 85 (3.35) 12 - 120 (4.72) 17 - 170 (6.69) 20 - 200 (7.87) 25 - 250 (9.84) 32 - 320 (12.60) 50 - 500 (19.69) 75 - 750 (29.53)		Dimensions Depth mm (in): 06 - 60 (2.36) 09 - 91 (3.58) 09S - 91 (3.58) ① 10 - 95 (3.74) 15 - 150 (5.91) 23 - 230 (9.06)		Options: <i>(Options must be listed alphabetically)</i> E - Electrical: 2.5 mm ² (14AWG) x 10 mm ² (6AWG) P - Power: 16 mm ² (6AWG) to 240 mm ² (474MCM)		Other Suffix: T - Mantle Clamping (Pillar Terminals)
	Material: P - Polyester		Dimensions Width mm (in): 08 - 85 (3.35) 12 - 120 (4.72) 17 - 170 (6.69) 21 - 215 (8.47) 25 - 250 (9.84) 32 - 320 (12.60) 50 - 500 (19.69) 75 - 750 (29.53)		Cable Type: A - Armored N - Non-Armored		Suffix: 01 to 99 Assigned at Factory	

① 09S Internal dimensions are 0.9 mm (0.035 in) less than the 09 internal dimensions.