

# EU TYPE-EXAMINATION CERTIFICATE

1. EU type-examination Certificate (Module B)
2. Component intended for use with Equipment or Protective System in potentially explosive atmospheres (Directive 2014/34/EU)



3. EU type examination certificate Nr **ITS-I 23 ATEX 30043 U**

4. **Component:** Empty flameproof enclosure model EJBmX

5. **Manufacturer:** Bartec F.N. S.r.l.

6. **Address:** Via M. Pagano 3,  
20090 Trezzano sul Naviglio MI  
Italy

7. This component and any acceptable variation thereto are specified in the schedule to this certificate and therein referred to.
8. INTERTEK ITALIA S.p.A., Notified Body n° 2575 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and Council of the 26 February 2014, certifies that the component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components intended for use in potentially explosive atmosphere, given in Annex II of the Directive.

The examination and tests results are recorded in confidential technical evaluation Intertek Report Nr. 200030043UDI-ATX dated 18 July 2023

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018, EN 60079-1:2014 and EN 60079-31:2014 except in respect of those requirements referred to at item 18 of the Schedule.
10. If the sign U placed after the certificate number indicates that this certificate must not be mistaken relative to an equipment or protective system.
11. This EU-Type Examination Certificate relates only to the design and construction of the specified component. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.
12. The marking of the component shall include the following:



II 2 G Ex db IIB+H2 Gb  
II 2 D Ex tc IIIC Db

Tservice: of -60°C to +120°C when windows are present; or  
-60°C to +200°C when windows are not present

July 19, 2023

**Certificate issue date**

**Alessandro Savio**  
Certification Officer  
Intertek Italia S.p.A. (NB 2575)



PDR N° 277B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements



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**Intertek Italia S.p.A.** Via Miglioli, 2/A - 20063 Cernusco sul Naviglio, Milano - Italy



## SCHEDULE

EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS-I 23 ATEX 30043U

### 13. DESCRIPTION OF COMPONENT

The empty enclosures series EJBМ, carried out in aluminium alloy, can be utilized to contain in own internal different equipment's and/or electrical components.

The empty enclosures series EJBМ can have blind cover or provided glass windows inspection.

The empty enclosures series EJBМ are intended for use on the surface (group II), in environments which it is probable the formation of explosive atmosphere during the normal activities consistent in a mix of air and inflammable substances in the form of gas, vapours, fogs and/or mixtures of air and combustible dusts (IIB+H2 and IIIC).

Window can be installed only on cover enclosure. The geometry of glass can be round or rectangular and it can be installed from size EJBМ1 to EJBМ4. On bigger sizes (from EJBМ5 to EJBМ7) glass cannot be installed

The type code of the product is EJBМx where:

	Meaning
EJBМ	Commercial name
X	Indicates enclosure size:
	1
	2
	3
	4
	5
	6
7	

### 14. DRAWINGS AND DOCUMENTS

TITLE	DOCUMENT Nr	LEVEL	DATE
Istruzioni per l'uso Instruction for use	IU17-435	0	22/06/2023
Nota tecnica Technicall note	NT17-435	0	22/06/2023
Custodie Serie EJBМ – Dimensioni EJBМ Enclosure Series - Dimension	PNC 17-435-FG1	0	22/06/2023
Custodie Serie EJBМ – dettaglio chiusura EJBМ Enclosure Series – closing detail	PNC 17-435-FG2	0	22/06/2023
Custodie Serie EJBМ – Foratura Pareti EJBМ Enclosure Series – Sides Drillings	PNC 17-435-FG3	0	22/06/2023
Custodie Serie EJBМ – Forature Coperchio EJBМ Enclosure Series – Cover Drillings	PNC 17-435-FG4	0	22/06/2023
Custodie Serie EJBМ – Dimensioni Oblò EJBМ Enclosure Series – Oblò Dimension	PNC 17-435-FG5	0	22/06/2023
Custodie Serie EJBМ – Bullone messa a terra interno/esterno EJBМ Enclosure Series – Earthing bolt external/internal	PNC 17-435-FG6	0	22/06/2023



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TITLE	DOCUMENT Nr	LEVEL	DATE
Custodie Serie EJBm – Esempio Lamatura EJBm Enclosure Series – Counterbore sample	PNC 17-435-FG7	0	22/06/2023
Custodie Serie EJBm – Targa EJBm Enclosure Series - Tag	PNC 17-435-FG8	0	22/06/2023
SEALING PROCEDURE FOR EJBm WINDOW	ATT17-435-C	0	22/06/2023

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.

### 15. SCHEDULE OF LIMITATIONS

- Service temperature range is:
  - 60°C to +120°C when windows are present
  - 60°C to +200°C when windows are not present
- The non-transmission tests have been performed for a maximum ambient temperature of +60°C.
- The screws used for the assembly of the various parts of explosion-proof enclosures are ISO 4762 must be of quality higher or equal to A2-70 or A4-70
- The width of the flameproof joints is superior to those specified in tables of IEC 60079-1 standard. Flameproof joints are not intended to be repaired by customer. Please contact the manufacturer.
- The final user shall take into consideration that the windows of the enclosures EJBm underwent only a shock corresponding to an energy of a low risk at 2J and it shall protect against impact .
- The content of the Ex component enclosure equipment may be placed in any arrangement provided that an area of at least 40% of each cross-sectional area remains free
- The equipment shall be installed so that the flanged joints are not within 20mm of a solid object that is not part of this equipment
- Oil filled circuit breakers and contactors shall not be used
- See technical drawing for entries details
- See user manual to minimize the risk of electrostatic charge

### 16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant Essential Health and Safety Requirements have been identified and assessed in Intertek Report Nr. 200030043UDI-ATX Revision 0 dated 18 July 2023

### 17. ROUTINE (FACTORY) TESTS

- Routine test for IEC 60079-1: it is required to make an overpressure at these value:
  - 1.6MPa (16 bar) for model from EJBm1 to EJBm4.
  - 1.8MPa (18 bar) for model from EJBm5 to EJBm7

The application of the pressure shall be at least 10s.

The routine tests are considered satisfactory if the enclosure withstands the pressure without suffering permanent deformation of the joints or damage to the enclosure

### 18. DETAIL OF CERTIFICATE CHANGES

N/A