

Certificato di esame UE del tipo

EU-type examination certificate ATEX n. ECM 16 ATEX-B 280 X

Rilasciato ai sensi della direttiva 2014/34/UE – Allegato III - Modulo B
Issued according to 2014/34/EU Directive – Annex III - Module B



Richiedente

Applicant

Ragione Sociale

Shomal Eng & Mfg (Pirooz) Co.

Company Name

Indirizzo

No. 5, 2nd Baharestan St. Pasdaran Ave. Tehran, Iran

Address

Luogo di produzione

C2 Ave. Salmanshahr Industrial Park Salmanshahr, Mazandaran, Iran

Place of production

Apparecchiatura

EJB series of flameproof enclosures

Equipment

(EJB110, EJB120, EJB241 and EJB 241M1 Cast aluminum flameproof Enclosures.)

Modo di protezione

“Ex d” “Ex t”

Type of protection

Questa apparecchiatura o sistema di protezione e le sue eventuali varianti accettate sono descritte nel presente Certificato e nell'allegato dello stesso. This equipment or protective system and any acceptable variation thereto are described in this Certificate and its Annex.

L'ECM, Organismo Notificato n° 1282 in conformità all'art. 17 della Direttiva 2014/34/UE del Parlamento europeo e del Consiglio del 26 febbraio 2014, certifica che questa apparecchiatura o sistema di protezione verificata secondo la procedura di cui all'allegato III, Modulo B, è conforme ai requisiti essenziali di sicurezza e salute per il progetto e la costruzione di apparecchiature e sistemi di protezione destinati ad essere utilizzati in atmosfere potenzialmente esplosive, definiti nell'allegato II della Direttiva. ECM, Notified Body No. 1282 in accordance with Article. 17 of Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment or protective system was tested according to the procedure set out in Annex III, Module B, complies with the essential health and safety requirements for the project and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II of the Directive.

Le verifiche ed i risultati di prova sono registrati nel rapporto EPIL a carattere riservato n° EPIL EXTR 00801-1-0, EPIL EXTR 00801-1-1

The examination and test results are recorded in confidential EPIL test reports No.: EPIL EXTR 00801-1-0, EPIL EXTR 00801-1-1

I requisiti essenziali di sicurezza e salute sono assicurati dalla rispondenza alle Norme applicate:

The essential health and safety requirements are assured by compliance with applied Standard:

EN 60079-0:2013/IEC 60079-0:2011, EN/IEC 60079-1:2014, EN 60079-31:2014/IEC 60079-31:2013, IEC 60529:2013

EN 60079-0:2013/IEC 60079-0:2011, EN/IEC 60079-1:2014, EN 60079-31:2014/IEC 60079-31:2013, IEC 60529:2013

Questo Certificato di esame UE del tipo è relativo soltanto al progetto, all'esame ed alle prove dell'apparecchiatura o sistema di protezione specificato in accordo con la Direttiva 2014/34/UE. Ulteriori requisiti di questa Direttiva si applicano al processo di produzione e fornitura dell'apparecchiatura o sistema di protezione: questi requisiti non sono oggetto del presente certificato.

This EU-type examination certificate relates only to the design, examination and tests specified equipment in accordance with Directive 2014/34/EU. Further requirements of the Directive shall be applied to the manufacturing process and supply condition: these requirements are not covered by this certificate.

L'apparecchiatura o il sistema di protezione deve riportare i seguenti contrassegni:

The equipment shall be marked with the following symbols:

II 2 GD

EX d IIB T6-T5 and T4

Ex t IIIB tb 85°C-100 °C and 135 °C

IP65

Valsamoggia (BO)

Data - Date 30/12/2016



Firma autorizzata
Authorized signature

Amanda Payne
(Deputy Manager)

Questo certificato, incluso l'allegato, può essere riprodotto solo integralmente e senza alcuna variazione.
This certificate, annex included, can only be reproduced in its entirety and without any change.



Certificate Annex



Certificate No.: ATEX n. ECM 16 ATEX-B 280 X

Equipment: (EJB series of enclosures)

1- Schedule of limitations (Special Condition For Safe Use)

When the EJBs used as Component (Empty enclosure) This partial certification may be used as a basis for certification of an equipment or protective system.

When the EJBs used as Equipment, the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

- THE **EJB series of enclosures** is designed for ambient temperature of -30°C to +55°C.
- When the enclosure is incorporated as part of certified equipment, the maximum permitted internal power dissipations (in Watts) for various temperature classes, are determined as shown in below table:

Type	T _{amb} : -20°C to +40°C			T _{amb} : -30°C to +55°C		
	T4	T5	T6	T4	T5	T6
EJB 110	446 W	235 W	130 W	346W	130W	50W
EJB 120	396 W	278 W	187 W	296W	187W	107W
EJB 240/241/241M1	793 W	400 W	295 W	693W	295W	215W

- The maximum number of apertures, their maximum sizes and positions, for the enclosures are identified on the scheduled drawings.

2- DESCRIPTION OF EQUIPMENT:

The Enclosures are manufactured from aluminium cast material. The apparatus is suitable for permanent installation.

Type	External dimension(mm)			Number of cover screws	note
	length	width	Height		
EJB 110	356	356	220	12	A
EJB 120	454	356	220	14	A
EJB 241	670	460	280	20	A
EJB 241M1	670	460	280	20	A,B

A- Tolerance: ±5mm

B- Permanent glass window cover

Empty flameproof enclosures having cover fixed by screws detailed in scheduled drawings and Test report No. EPIL EXTR 00801-1-0.

- The enclosure cover may be fitted with various actuators by manufacturer, including
 - Push buttons and rotary actuators.
 - Signal lamps
 - Rotary actuators for electrical switchgears.
 - Framed glass windows.
 - Bushing (*Empty enclosure can be combined /connected via flameproof bushings having the same protection level*)
- Assembling process in related Technical File No.: EP-S.E.M.C.-15-01

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- When this enclosure is incorporated as part of certified equipment, any internally mounted components shall not exceed the bounds of the baseboard and shall not exceed more than 80% of any internal cross-section.

The provided threaded cable entry holes shall be fitted with suitably certified cable glands or suitably certified stopping plugs (according to the standards EN 60079-0 and EN 60079-1.), which are capable of maintaining the IP65 rating of the enclosure.

- Internally, the enclosure is provided with a baseboard for the mounting of electrical parts. The enclosure is provided with internal and external earthing facilities.
- The enclosures can include the following electrical devices and apparatus:
 - Bus bars
 - Terminals
 - Low voltage transformers
 - Air circuit-breakers
 - Automatic circuit-breakers
 - Control and operation circuits
 - Servomotors without ventilation
 - Starters and ballasts for discharge lamps
 - Electronic apparatuses (included discharge less than 3s, by means of parallel resistor when necessary, in any case is permitted to include cells and batteries by considering the requirements of annex E of IEC60079-1:2014.)

3- DESCRIPTIVE DOCUMENTS

	Installation guide & Drawing No	Date	No. of pages
EJB 110	EJB11003	02/09/2015	5
EJB 120	EJB12003	02/09/2015	5
EJB 241	EJB24103	02/09/2015	5
EJB 241M1	EJB241M1001	02/09/2015	1

- Other characteristics of enclosure subject of this certificate are reported in the scheduled drawing:
- Dimension
- Type of material used
- Holes on the covers used for mounting accessories
- Number and dimensions of possible holes for cable entries

4- Routine tests

- Each enclosure shall be subjected to a routine over pressure test, according to EN-60079-1, clause 16 and shall be conducted using the values tabulated below:
 - 6.4 bar for type EJB110 and EJB120
 - 10 bar for type EJB241 and EJB241M1
- The pressure of test is 1.5 times the reference pressure of Test report (Report Number: **EPIL EXTR 00801-1-1**)

Descriptive documents

Test Report No.: **EPIL EXTR 00801-1-0 & EPIL EXTR 00801-1-1**

Schedule Drawing No.: EJB 110, EJB 120, EJB 241&241M1

Technical File No.: EP-S.E.M.C.-15-01