

# (1) EU-TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**
- (3) EU-Type Examination Certificate Number

**TÜV 11 ATEX 7153 U**

Issue: 01

- (4) Equipment: **EJB Range of Flameproof Enclosures**
- (5) Manufacturer: **MASHIN SAZI SHOMAL PIROOZ**
- (6) Address: **No. 5, 2nd Baharestan St., pasdaran Ave. Tehran, Iran**

- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26<sup>th</sup> February 2014, certifies this product which has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report 557/Ex153.01/11

- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

**EN 60079-0:2012+A11:2013**

**EN 60079-1:2014**

**EN 60079-31:2014**

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EU-Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following:



**II 2 G D Ex db IIC Gb**

**Ex tb IIIC Db IP66/67**

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2017-07-03

Dipl.-Ing. Andreas Maschke



This EU-Type Examination Certificate without signature and stamp shall not be valid.  
This EU-Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln  
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114

(13)

Annex

(14)

## EU Type Examination Certificate

### TÜV 11 ATEX 7153 U Issue: 01

(15)

#### Description of equipment

##### 15.1 Equipment and type:

EJB Range of Flameproof Enclosures

##### 15.2 Description / Details of Change

###### General product information

The EJB Range of Enclosures compromise a base and screw cover, both manufactured in aluminium. A socket head screw provides the means of preventing loosening between the cover and base. The enclosures are manufactured in three sizes, designated as Type EJB10, EJB20 and EJB30 enclosures.

The enclosures walls are provided with threaded entries for the connection of external cables.

Internally, the enclosure is provided with a baseboard for the mounting of electrical parts.- The enclosure is provided with internal and external earthing facilities.

###### Conditions of manufacture

Each and every EJB20 and EJB30 enclosure shall be subjected to a routine overpressure test at 16,9 bar, without damage or distortion.

EJB 10 is exempt from the overpressure test.

###### Details of change:

Standard update of following standards:

EN 60079-0:2009	to	EN 60079-0:2012 +A11:2013
EN 60079-1:2007	to	EN 60079-1:2014
EN 61241-0:2006; EN 61241-1:2004	to	EN 60079-31:2014

Checklists were omitted since there is no mayor technical change with respect to the above listed standards.

Product information adjusted.

The marking is adjusted.

The address of the manufacturer is changed to its original registered name.

Type of enclosure for overpressure test corrected. Correction stated by SIRA, mail RE 51A20022 51A0023

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### Technical Data

Ambient temperature  $T_a = -30^\circ\text{C}$  to  $+55^\circ\text{C}$  or  $-20^\circ\text{C}$  to  $+40^\circ\text{C}$

Type	Dimension [mm]
EJB 10	202 * 170 * 127
EJB 20	218 * 216 * 183
EJB 30	335 * 260 * 178

(16) Test-Report No. 557/Ex153.01/11

(17) Special Conditions for safe use

1. The maximum number of apertures, their maximum sizes and positions, for the EJB30 enclosures are identified on drawing number EJB30101.
2. The ambient temperature range is  $-30^\circ\text{C}$  to  $+55^\circ\text{C}$  or  $-20^\circ\text{C}$  to  $+40^\circ\text{C}$ .
3. When these enclosures are incorporated as part of certified equipment, any internally mounted components shall not exceed the bounds of the baseboard and shall not exceed more than 60% of any internal cross-section.
4. The cable entry holes shall be fitted with suitably certified cable glands or suitably certified stopping plugs, which are capable of maintaining the IP67 rating of the equipment.
5. When these enclosures are incorporated as part of certified equipment, the maximum permitted internal power dissipations (in Watts) for various temperature classes, may be as follows:
6. The Cable entry holes shall be fitted with suitably certified cable glands or suitably certified stopping plugs, which are capable or maintaining the IP 66/67 rating of the equipment.
7. The internally mounted components shall not exceed the bounds of the baseboard and shall not exceed 60% of any internal cross-section.

Designation	$T_a = -30^\circ\text{C}$ to $+55^\circ\text{C}$			$T_a = -20^\circ\text{C}$ to $+40^\circ\text{C}$		
	T6	T5	T4	T6	T5	T4
EJB 10	15	38	87	38	60	111
EJB 20	46	81	188	81	127	232
EJB 30	79	152	326	152	238	412

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(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

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