

(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 7154 U

Issue: 02

- (4) Component: **Range of Flameproof Enclosures type LJB1, LJB2, LJB2D, LJB2W.**
- (5) Manufacturer: **MASHIN SAZI SHOMAL PIROOZ**
- (6) Address: **C2 AVE., Salmanshahr Industrial Park, Salmanshahr, Mazandaran, 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 certification body for explosion protection of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th 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 / Ex 154.02 / 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 IEC 60079-0:2018

EN 60079-1:2014

EN 60079-31:2014

- (10) If the sign "U" is placed after the certificate number, it indicates that the component is subject to limitation 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 component. It does not cover the process for actual manufacture or supply of the component, for which further requirements of the directive are applicable.

 **II 2G Ex db IIC Gb**
II 2D Ex tb IIIC Db

TÜV Rheinland certification body for explosion protection

Cologne, 2020-11-05


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 Cologne.
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(13) Annex

(14) **EU-Type Examination Certificate**
TÜV 11 ATEX 7152 U Issue: 02

(15) Description of component

15.1 Component and type

Range of Flameproof enclosures type LJB1, LJB2, LJB2D, LJB2W.

15.2 General product information

The LJB Range of flameproof enclosures are manufactured in two sizes, designated as Type LJB1 and LJB2 enclosures.

They comprise a base and a screw cover, both are manufactured from aluminium, a socket head set screw prevents the cover and base becoming loose. The enclosure is provided with internal and external earthing facilities and its walls have threaded entries that allow external cables to be connected. Internally, the enclosure is provided with a baseboard for mounting electrical parts.

In addition following variants of LJB series are available:
LJB2D consist of a dome shaped cover.
LJB2W consist of a cover with a glass window.

15.3 Details of Change

The LJB Series is extended with:

1. LJ2 Body design changed
2. LJB2D consist of a dome shaped cover.
3. LJB2W consist of a cover with window.
4. Removed overpressure tests for all enclosures but LJB2W, due to 4 times overpressure re testing.
5. Added special condition No. 5 according to IEC/EN 60079-1:2014.

Standards were updated.

Any other data stays the same like in the former certificates

Correction of temperature ranges for Ex-components. The marking is adjusted and the address of the manufacturer is changed to its original registered name.

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15.4 Technical data

Type	~Dimension [mm]
LJB 1	110 * 110 * 90
LJB 2(D)	152 * 150 * 105 (147)

Suitable temperature range: -30 °C to +55 °C or -20 °C to +40 °C
 Rated service temperature range: -30°C to +135°C

(16) Test report no. 557 / Ex 154.02 / 11

(17) Schedule of limitations

1. The temperature range is -30 °C to +55 °C or -20 °C to +40 °C.
2. When these enclosures are incorporated as part of certified equipment, any internally mounted components must not exceed the bounds of the baseboard and must not exceed more than 60% of any internal cross-section.
3. The cable entry holes shall be fitted with suitably certified cable glands or suitably certified stopping plugs, which are capable of maintaining the IP66 rating of the equipment.
4. When these enclosures are incorporated as part of certified equipment, the following maximum permitted internal power dissipations (in Watts) for various temperature classes and ambient temperature ranges may be applied.

Designation	T _a = -30°C to +55°C			T _a = -20°C to +40°C		
	T6	T5	T4	T6	T5	T4
LJB 1	10	18	39	18	26	47
LJB 2	15	28	57	28	41	70

5. The flame proof joints are not intended be repaired.

(18) Basic Safety and Health Requirements

Covered by afore mentioned standards.

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