



CERTIFICATE

EU-TYPE EXAMINATION CERTIFICATE

- [1] **Component intended for use in potentially explosive atmospheres Directive 2014/34/EU**
- [2] EU-Type Examination Certificate number:
TÜV IT 17 ATEX 058 U
- [3] Component: Increased Safety Empty Enclosure
Type: SXTB-□-□-E Series
- [4] Manufacturer: Shimada Eléctric Co., Ltd.
- [5] Address: 2-29-6, Nakaikégami Ota-ku, Tokyo, 146-0081 Japan
- [6] This component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [7] TÜV Italia, notified body no. 0948 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- [8] The examination and test results are recorded in confidential report no. R 17 EX 044
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0: 2012+A11:2013; EN 60079-7:2015; EN 60079-31:2014;
- [10] The sign "U" placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.
- [11] This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- [12] The marking of the product shall include the following:



II 2G Ex eb IIC Gb
II 2D Ex tb IIIC Db

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Issue date: 23rd July 2018



PRD N° 081B

Membro degli Accordi di Mutuo Riconoscimento
EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual
Recognition Agreements



TÜV Italia S.r.l.
Notified Body N° 0948

Alberto Carelli

Industry Service - Real Estate & Infrastructure
Managing Director

TÜV Italia has been authorized by Italian government to operate as notified body for the certification of equipment or protective system intended for use in potentially explosive atmospheres. This document is not valid without official signature and logo. The internal reference code is 722146541_7



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Certificate History

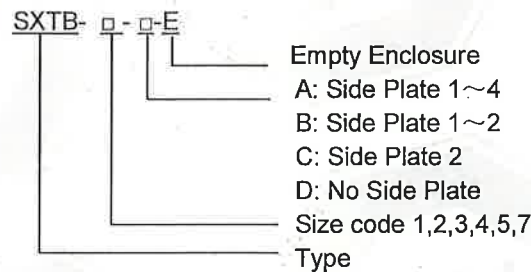
| Revision: | Description: | Report no: | Issue Date: |
|-----------|----------------|------------|-------------|
| - | First Emission | - | 23.07.2018 |

[15] **Description of equipment**

The Increased Safety Empty Enclosure of type SXTB-□-□-E Series are made of SUS 304, SUS 316, SUS316L and C3713. The degree of protection IP66 is obtained by Chloroprene Rubber or Silicon Rubber mounted in the joint between cover and enclosure. The earth terminal gasket is made of Nitrile Polymer or Silicon Rubber. The apparatus are designed in accordance with the requirements of the types of protection "eb" and "tb" and shall be to consider as components. When the used as components to realize a complete equipment an additional certification procedure is needed.

The covers are equipped with the following closing mechanism: Fixing Screw, Multi Hinge.

Type



The Increased Safety Empty Enclosure size is as follow:

| Type | Size(mm) |
|----------|-------------|
| SXTB-1-E | 150×150×120 |
| SXTB-2-E | 200×200×150 |
| SXTB-3-E | 300×300×150 |
| SXTB-4-E | 400×400×201 |
| SXTB-5-E | 500×500×201 |
| SXTB-7-E | 750×550×213 |

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Rated characteristics

| | |
|--------------------------|--|
| Service Temperature (Ts) | -50°C ≤ Ts ≤ +75°C -20°C ≤ Ts ≤ +75°C |
| Protection Degree | IP66 (according EN 60079-0) |

| Fasteners Technical Data (Equipment) | |
|--------------------------------------|-------------------------------|
| Type of screw | Minimum tightening torque(Nm) |
| M5 | 3 |
| M6 | 5 |
| M10 | 20 |

Warning label

N/A

[16] **Report no.** R 17 EX 044

[17] **Schedule of limitations**

1. The empty increased safety enclosure is an Ex component which is not intended to be used alone and require additional consideration when incorporated into electrical equipment or system.
2. The Ex marking may be omitted, when Ex Component enclosure manufacturer is also intended to be the holder of the equipment certificate.
3. The service temperature at the enclosure gasket must not exceed the permitted range of -50°C ≤ Ts ≤ +75°C for Silicon Rubber, -20°C ≤ Ts ≤ +75°C for NBR or CR
4. At the installation of components, the corresponding separation distances (clearance and creepage distances) in accordance with EN 60079-7 have to be observed.
5. The degree of protection IP66 in accordance with EN 60529 is only achieved by proper use of adequate cable glands and blanking elements tested and certified for explosion protection.

[18] **Essential Health and Safety Requirements**

Assured by compliance with the standards set out in the [9].

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[19] Drawings and Documents

Listed documents (prot. 722146541_7)

| Title: | Description: | Pages: | Rev: | Date: |
|--|--|--------|------|------------|
| BB21330-A2 | INCREASED SAFETY EMPTY JUNCTION BOX | 1 | 2 | 2018-06-25 |
| BB21331-A2 | INCREASED SAFETY EMPTY JUNCTION BOX | 1 | 2 | 2018-06-25 |
| BB21332-A2 | INCREASED SAFETY EMPTY JUNCTION BOX | 1 | 2 | 2018-06-25 |
| BB21333-A2 | INCREASED SAFETY EMPTY JUNCTION BOX | 1 | 2 | 2018-06-25 |
| BB21334-A2 | INCREASED SAFETY EMPTY JUNCTION BOX | 1 | 2 | 2018-06-25 |
| BB21335-A2 | INCREASED SAFETY EMPTY JUNCTION BOX | 1 | 2 | 2018-06-25 |
| SXTB-□-□- E Clarify the document | SXTB-□-□- E | 1 | 0 | 2018-05-02 |
| TS10153E | SXTB-□-□- E Operating instructions | 12 | 3 | 2018-06-04 |
| Material Report | NBR | 1 | 0 | 2018-04-18 |
| Material data sheet | Metal | 5 | 0 | 2018-02-07 |
| Material Report | Si | 1 | 0 | 2018-04-18 |
| Material Report | CR | 1 | 0 | 2018-04-18 |
| Nameplate Material Report | Plate material laboratory report note | 1 | 0 | 2018-03-21 |
| Double face tape MSDS | Material safety data sheet (MSDS) | 2 | 0 | 2001-03-01 |
| Written Attestation of Conformity (draft version) | Written Attestation of Conformity | 2 | 03 | 2018-05-31 |

One copy of all documents is kept in TÜV Italia files.

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