

# CERTIFICATE

## (1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **DEKRA 18ATEX0119 X** Issue Number: **0**

(4) Product: **Power distribution, switchgear and control box Series TBE**

(5) Manufacturer: **Rose Systemtechnik GmbH**

(6) Address: **Erbeweg 13-15, D-32457 Porta Westfalica, Germany**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., Notified Body number 0344 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.

The examination and test results are recorded in confidential test report number NL/DEK/ExTR19.0014/00.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0 : 2018**

**EN 60079-1 : 2014**

**EN 60079-31 : 2014**

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This

Date of certification: 27 September 2019

DEKRA Certification B.V.



R. Schuller  
Certification Manager

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(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 18ATEX0119 X**

Issue No. **0**

(15) **Description**

Power distribution, switchgear and control assembly Series TBE, made of aluminium, stainless steel or cast iron with a threaded cover, with or without display window, are intended to be used in potentially explosive atmospheres. Inside and in the walls or cover of the enclosure electrical apparatus such as terminals, switching-, control-, regulating-, measuring- and indicating devices can be mounted.

The TBE series consist of 6 types:

- TBE 100T, TBE 130T and TBE 160T: enclosures in 3 different sizes, without display window;
- TBE 100TW, TBE 130TW and TBE 160TW: enclosures in 3 different sizes, with display window.

**Marking**

Where applicable, the equipment marking is completed by the types / levels of protection “i”, “[i]” and/or “m”.

The equipment is marked with Group IIB if at least 20% of each internal cross-sectional area remains free; it may be marked with Group IIC if at least 40% of each internal cross-sectional area remains free.

**Ambient temperature range**

Maximum ambient temperature range (for details see table below):

- Enclosure without display window: -60 °C to +110 °C
- Enclosure with 12 mm thick display window: -60 °C to +75 °C
- Enclosure with 8 mm thick display window: -20 °C to +75 °C

**Degree of ingress protection**

Degree of protection IP66 according to EN 60529 and EN 60079-0.

**Electrical ratings**

The electrical ratings are dependent on the built-in components and equipment, but do not exceed 1.1 kV ac/dc nominal, 125 A and 35 mm<sup>2</sup>. Actual ratings are stated on the nameplate.

**Options**

The threaded flamepaths may be provided with a max. 0.008 mm thick electro-plating.

The enclosures may be supplied in natural finish, electro-plated, powder coated or liquid painted. The painting thickness does not exceed 0.18 mm.

(13) **SCHEDULE**

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Issue No. **0**

**Thermal data**

The relation between TBE type, temperature class, maximum surface temperature, maximum ambient temperature and maximum allowed power dissipation is given in the table below.

		Temperature class:	T6	T5	T4	T6	T5	T4
		Maximum surface temperature*:	T85 °C	T100 °C	T135 °C	T85 °C	T100 °C	T135 °C
	Dimensions							
Type	(H X W x D) (mm)							
TBE								