

CERTIFICATE

- (1) **EU-Type Examination**
- (2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive**

Date of certification: 27 September 2019

DEKRA Certification B.V.



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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 mm². 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.

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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								