



# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312313000379

<b>Applicant</b>	ROSE Systemtechnik GmbH
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<b>Manufacturer</b>	ROSE Systemtechnik GmbH
<b>Address</b>	Erbeweg 13-15, 32457 Porta Westfalica, Germany
<b>Production Factory</b>	ROSE Systemtechnik GmbH
<b>Production Address</b>	Erbeweg 13-15, 32457 Porta Westfalica, Germany
<b>Product</b>	Enclosure
<b>Model/Type</b>	TBE*****
<b>Ex marking</b>	Ex db IIB Gb, Ex db IIC Gb, Ex tb IIIC Db
<b>Reference Standards</b>	GB/T3836.1-2021, GB/T3836.2-2021, GB/T3836.31-2021

**Certification mode** Type Test + Initial Factory Inspection + Post-Certification Surveillance

The product(s) is verified and certified according to CNCA-C23-01: 2019 *China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product* and CNEX-C2301-2019 *Guideline of China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product*.

See Annex for the detailed product information (3 pages)

Initial issue date: 2021-05-18

Issued date: 2023-04-11

Valid to: 2026-05-17

The validity of this certificate is maintained through the regular supervision of the issuing authority during the validity period.

Where any discrepancy arises between the English translation and the original Chinese version, the Chinese version shall prevail.

Director:



Nanyang Explosion Protected Electrical  
Apparatus Research Institute Co., Ltd.



<http://www.ccc-cnex.com>  
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## Product information:

1. This certificate covers the following models:

- TBE\*\*\*\*\*

The TBE series consists of 6 types:

TBE 100T, TBE 130T and TBE 160T: enclosures in 3 different sizes, without display window

TBE 100TW, TBE 130TW and TBE 160 TW: enclosures in 3 different sizes, with display window

Ingress protection: IP66

Technical data:

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

Type TBE	Dimensions (H x W x D) (mm)	Temperature class	T6	T5	T4	T6	T5	T4
		Maximum surface temperature*	T85 °C	T100 °C	T135 °C	T85 °C	T100 °C	T135 °C
		Maximum ambient temperature	+40 °C	+55 °C	+90 °C	+60 °C	+75 °C	+110 °C
100T	130 × 116 × 98	Maximum allowed power dissipation	20 W			12 W		
130T	160 × 148 × 107		29 W			15 W		
160T	190 × 180 × 116		41 W			24 W		

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100T W	130 × 116 × 110		20 W	-	12 W	-
130T W	160 × 148 × 124		29 W	-	15 W	-
160T W	190 × 180 × 134		41 W	-	24 W	-

\* : values have been determined without a dust layer

## 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.

Ex marking: Ex db IIB Gb, Ex db IIC Gb, Ex tb IIIC Db

- Producers should organize production in accordance with the technical documents approved by the certification body.

## 2. Specific conditions of safety use:

- Service temperature range:

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

- The application of the TBE enclosures shall be in accordance with the specified temperature limits.
- The ambient temperature range depends on the model (with or without glass window), the pressure applied during the routine overpressure test and on the glass thickness.

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- For enclosures provided with a powder coating or liquid painting and intended for use in dust Group applications, the user shall minimize the risk from electrostatic discharge by suitable selection and installation.
- The maximum number of apertures, their maximum sizes and their positions are specified in the instruction manual IM.TBE.U
- Oil-filled circuit-breakers and contactors shall not be used.
- The content of the TBE enclosure may be placed in any arrangement provided that an area of at least 20 % (Group IIB) or 40 % (Group IIC) of each cross-sectional area remains free. Separate relief areas may be aggregated provided that each area has a minimum dimension in any direction of 12.5 mm.
- The threaded flame path of the cover is more than required by GB/T3836.2. Contact the manufacturer for information on the dimensions of the flameproof joints.
- See instruction for other information.

3. Certificate related report(s):

- Type test report: CQST2010C043, CQST2010C043/01
- Factory inspection report: CN2020Q010255

4. Certificate change information:

- 1st change on April 11, 2023:  
Updated the standards for certification.

Issued date: 2023-04-11

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