



# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312304001062

**Applicant** ROSE Systemtechnik GmbH  
**Address** Erbeweg 13-15, 32457 Porta Westfalica, Germany  
**Manufacturer** ROSE Systemtechnik GmbH  
**Address** Erbeweg 13-15, 32457 Porta Westfalica, Germany  
**Production Factory** Phoenix Mecano India Pvt Ltd.  
**Production Address** Plant -I & II, Pirangut Industrial Area, Post Gohotawade, Plot 388/389, Village Bhare, Taluka Mulshi, Dist-Pune - 412115, India  
**Product** Control box  
**Model/Type** TBE\*\*\*\*\*  
**Ex marking** Ex db IIB T4/T5/T6 Gb, Ex db IIC T4/T5/T6 Gb,  
Ex tb IIIC T85°C/T100°C/T135°C Db  
**Reference Standards** 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: 2021-05-21

Issued date: 2023-04-11

Valid to: 2026-05-20

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.



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PRODUCT  
CNAS C208-P

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CN 0001697





# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION (Annex)

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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

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.

Thermal 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	Temperature class	T6	T5	T4	T6	T5	T4
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	D)(mm)	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 x 116 x 98	Maximum allowed power dissipation	20 W			12 W		
130T	160 x 148 x 107		29 W			15 W		
160T	190 x 180 x 116		41 W			24 W		
100TW	130 x 116 x 110		20 W	-	-	12 W	-	-
130TW	160 x 148 x 124		29 W	-	-	15 W	-	-
160TW	190 x 180 x 134		41 W	-	-	24 W	-	-

\* : values have been determined without a dust layer

Ex marking: Ex db IIB T4/T5/T6 Gb, Ex db IIC T4/T5/T6 Gb,

Ex tb IIIC T85°C/T100°C/T135°C Db

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.

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

## 2. Specific conditions of safety use:

- Ambient temperature range

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

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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

- For enclosures provided with a powder coating, liquid painting or provided with a non-metallic nameplate and/or tagplate intended for use in dust Group applications, the user shall minimize the risk from electrostatic discharge by suitable selection and installation.
- 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: CQST2010C046, CQST2010C046/01
- Factory inspection report: CN2020Q010227

4. Certificate change information:

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

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