

CATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312313000385

Applicant ROSE Systemtechnik GmbH

Erbeweg 13-15, 32457 Porta Westfalica, Germany **Address**

ROSE Systemtechnik GmbH Manufacturer

Erbeweg 13-15, 32457 Porta Westfalica, Germany **Address**

Phoenix Mecano India Pvt Ltd. **Production Factory**

Plant -I & II, Pirangut Industrial Area, Post Gohotawade, Plot **Production Address**

388/389, Village Bhare, Taluka Mulshi, Dist-Pune - 412115, India

Product Enclosure

TBE**** Model/Type

Ex marking Ex d IIB Gb, Ex d IIC Gb, Ex tD A21 IP66

GB3836.1-2010, GB3836.2-2010, GB12476.1-2013, Reference Standards

GB12476.5-2013

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

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)

Valid to: 2026-05-20 Issued on: 2021-05-21

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 ccc.china-ex.com

Add: No. 20, North Zhongjing Road, Nanyang, Henan, P. R. China P.C.: 473008

Tel: 0377-63239734 Email: ccc@cn-ex.com



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

Technical data:

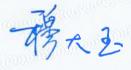
The relation between enclosure type, temperature class, maximum surface temperature, maximum ambient temperature and maximum allowed power dissipation

is given in the table below.

Type TBE	Dimensions (H x W x D) (mm)	Temperature class	Т6	T5	T4	T6	T5	T4
		Maximum surface temperature*	T85 ℃	T100℃	T135℃	T85 °C	T100℃	T135℃
		Maximum ambient temperature	+40 ℃	+55 °C	+90 ℃	+60 °C	+75 ℃	+110 ℃
100T	130 × 116 × 98	Maximum allowed	20 W			12 W		
130T	160 × 148 × 107	power dissipation	29 W			15 W		
160T	190 × 180 × 116		41 W			24 W		
100T	130 × 116 ×	l	20	W		12	W	Contract of the

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W	110				
130T W	160 × 148 × 124	29 W		15 W	-
160T W	190 × 180 ×	41 W	- ۱۱/۱ اروا	24 W	-

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 d IIB Gb, Ex d IIC Gb, Ex tD A21 IP66

- 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

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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.
- 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.

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- 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 crosss-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 3836.2. 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

- Factory inspection report: CN2020Q010227

Certificate change information: None

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