

OR 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

TBE**** Model/Type

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)

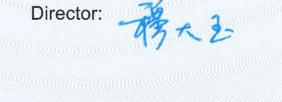
Initial issue date: 2021-05-21

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.



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

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.

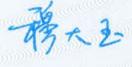
Thermal data:

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	Dimensions	Temperature	T6	T5	T4	T6	T5	T4
TBE	(H x W x	class		Tre	- B			0.00

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	D)(mm)	Maximum surface temperature Maximum ambint temperature	T85 ℃	T100℃	T135℃	T85 ℃	T100℃	T135℃	
			+40 ℃	+55 ℃	+90 ℃	+60 ℃	+75 ℃	+110℃	
100T	130 x 116 x 98	Maximum allowed	20 W			12 W			
130T	160 x 148 x 107	power dissipation	29 W			15 W			
160T	190 x 180 x 116		41 W			24 W			
100TW	130 x 116 x 110	1	20 W			12 W		-	
130TW	160 x 148 x 124		29 W			15 W			
160TW	190 x 180 x 134		41 W			24 W		-	

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

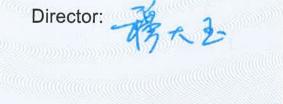
The equipment is marked with Group IIB if at least 20% of each internal cross-sectional area remains free; it may be marked with Group IIC if at least 40% of each internal cross-sectional area remains free.

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

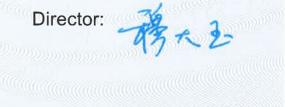
Enclosure with 8 mm thick display window: -20°C to +75°C

- 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.
- Certificate related report(s):
 - Type test report: CQST2010C046, CQST2010C046/01
 - Factory inspection report: CN2020Q010227
- Certificate change information:
 - 1st change on April 11, 2023:

Updated the standards for certification.

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