



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312304001059

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 S.E. Asia Pte. Ltd.
Production Address 53 Ubi Ave 3#04-01, Travelite Building, Singapore 408863
Product Control box
Model/Type TBE*****
Ex marking Ex db IIB T6...T4 Gb, Ex db IIC T6...T4 Gb,
Ex tb IIIC T85°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: 2023-11-27

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
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CN0000094DZ



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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.

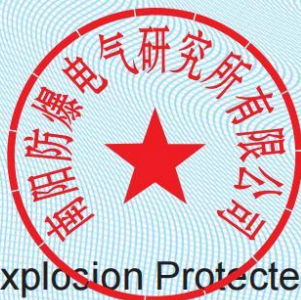
| Type | Dimensions | Temperature | T6 | T5 | T4 | T6 | T5 | T4 |
|------|------------|-------------|----|----|----|----|----|----|
| TBE | (H x W x | class | | | | | | |

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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 T6...T4 Gb, Ex db IIC T6...T4 Gb,

Ex tb IIIC T85°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

4. Certificate change information:

- 1st change on April 11, 2023: Updated the standards for certification.
- 2nd change on November 27, 2023: Changed the address name of the Production Factory.

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