



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No. : 2021312304001091

| | |
|----------------------------|--|
| 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 | EJB** |
| Ex marking | Ex db IIB + H ₂ T6...T4 Gb, Ex db IIB 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: 2021-06-16

Issued date: 2023-11-27

Valid to: 2026-06-15

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.



中国认可
产品
PRODUCT
CNAS C208-P

<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

CN0000096DZ



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Product information:

1. This certificate covers the following models:

- EJB**

For detailed Model/Type: EJB 01, EJB 02, EJB 03, EJB 04, EJB 06, EJB 07, EJB 09, EJB 10

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, 1055 A and 1000 mm². Actual ratings are stated on the nameplate.

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.

| Temperature class | T6 | | | T5 | | | | | T4 | | | | |
|----------------------------------|---------------------------------------|-----|-----|---------|-----|-----|-----|-----|---------|-----|-----|-----|-----|
| Maximum surface Temperature* | T85 °C | | | T100 °C | | | | | T135 °C | | | | |
| Maximum ambient temperature (°C) | 40 | 50 | 60 | 40 | 50 | 55 | 60 | 75 | 40 | 50 | 60 | 90 | 110 |
| EJB Type: | Maximum allowed power dissipation (W) | | | | | | | | | | | | |
| EJB 01 | 60 | - | 36 | - | - | 60 | - | 36 | - | - | - | 60 | 36 |
| EJB 02 | 76 | - | 42 | - | - | 76 | - | 42 | - | - | - | 76 | 42 |
| EJB 03 | 87 | - | 60 | - | - | 87 | - | 60 | - | - | - | 87 | 60 |
| EJB 04 | 190 | 150 | 105 | 292 | 230 | 190 | 185 | 105 | 530 | 455 | 390 | 190 | 105 |

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|--------|-----|-----|-----|------|-----|-----|-----|-----|------|------|------|-----|-----|
| EJB 06 | 209 | 166 | 114 | 338 | 260 | 209 | 206 | 114 | 584 | 514 | 436 | 209 | 114 |
| EJB 07 | 365 | 290 | 205 | 570 | 440 | 365 | 320 | 205 | 1050 | 890 | 760 | 365 | 205 |
| EJB 09 | 467 | 319 | 236 | 728 | 555 | 467 | 353 | 236 | 1238 | 1145 | 956 | 467 | 236 |
| EJB 10 | 726 | 568 | 400 | 1085 | 864 | 726 | 712 | 400 | 2038 | 1709 | 1454 | 726 | 400 |

* : values have been determined without a dust layer

Ex marking: Ex db IIB + H₂ T6...T4 Gb, Ex db IIB 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 IIB + H₂ 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

| Enclosure Type | Maximum ambient temperature range |
|---|-----------------------------------|
| EJB 01 ... EJB 04 and EJB 07 - without window - with window, extended thickness | -60°C to +110°C |
| EJB 01 ... EJB 04 and EJB 07 - with window, normal thickness | -20°C to +110°C |
| EJB 06, 09 and 10 | |

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

- The flanged flame path of the cover differs from the values stated in GB/T3836.2. Contact the manufacturer for information on the dimensions of the flameproof joints.

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- The M6, M8, M10 and M12 fasteners are of grade A2-70 with a yield stress of at least 450 MPa and shall be applied with a minimum torque value of 11 Nm (M6), 28 Nm (M8), 58 Nm (M10) and 95 Nm (M12).

- See instruction for other information.

3. Certificate related report(s):

- Type test report: CQST2105C020, CQST2105C020/01

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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