



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312304001063

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) Private Limited
Production Address	Plant - III, GatNo 408, 410 & 412, Village Urse, Taluka Maval, Talegaon Urse Road, Dist Pune - 410 506 India
Product	Control box
Model/Type	IJB**
Ex marking	Ex db IIB + H ₂ T4/T5/T6 Gb, Ex db IIB 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
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Product information:

1. This certificate covers the following models:

- IJB**

For detailed Model/Type: IJB01、IJB02、IJB03、IJB04、IJB05、IJB06

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, 850 A and 500 mm². Actual ratings are stated on the nameplate.

Options:

The flanged flamepaths may be provided with a max. 0.008 mm thick electro-plating.

The enclosures may be provided 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.

Temperature class	T6			T5					T4				
Max. 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
IJB Type	Maximum allowed power dissipation (W)												
IJB01	108	-	56	-	-	108	-	56	-	-	-	108	56

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IJB02	120	-	72	-	-	120	-	72	-	-	-	120	72
IJB03	145	-	76	-	-	145	-	76	-	-	-	145	76
IJB04	198	150	95	228	220	198	160	95	480	430	360	198	95
IJB05	300	200	136	408	309	300	241	136	659	586	491	300	136
IJB06	332	218	155	473	400	332	282	155	894	818	636	332	155

* : values have been determined without a dust layer

Ex marking: Ex db IIB + H₂ T4/T5/T6 Gb, Ex db IIB 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 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

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

IJB01、IJB02、IJB03: -20°C or -60°C to +110°C

IJB04、IJB05、IJB06: -20°C to +110°C

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

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

- The M8 or M10 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 28 Nm(M8) or 58 Nm(M10).

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- See instruction for other information.

3. Certificate related report(s):

- Type test report: CQST2010C045, CQST2010C045/01

- Factory inspection report: CN2020Q010255

4. Certificate change information:

- 1st change on April 11, 2023:

Updated the standards for certification.

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