



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312313000384

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 Enclosure
Model/Type IJB**
Ex marking Ex db IIB + H₂ Gb, Ex db IIB Gb, Ex tb IIIC 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 information:

1. This certificate covers the following models:

- IJB**

For detailed Model/Type: IJB 01、IJB 02、IJB 03、IJB 04、IJB 05、IJB 06

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.

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)												
IJB 01	108	-	56	-	-	108	-	56	-	-	-	108	56
IJB 02	120	-	72	-	-	120	-	72	-	-	-	120	72
IJB 03	145	-	76	-	-	145	-	76	-	-	-	145	76
IJB 04	198	150	95	280	220	198	160	95	480	430	360	198	95
IJB 05	300	200	136	408	309	300	241	136	659	586	491	300	136
IJB 06	332	218	155	473	400	332	282	155	894	818	636	332	155

* : values have been determined without a dust layer

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Options:

The flanged flamepath 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 db IIB + H₂ Gb, Ex db IIB Gb, Ex tb IIIC Db

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

2. Specific conditions of safety use:

- Service temperature range:

IJB 01 ... IJB 03: -20 °C or -60 °C to +135 °C

IJB 04 ... IJB 06: -20 °C to +135 °C

- The application of the IJB enclosures shall be in accordance with the specified temperature limits.
- 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.
- The maximum number of apertures, their maximum sizes and their positions are specified in the instruction manual IM.IJB.U.
- Oil-filled circuit-breakers and contactors shall not be used.
- The content of the IJB enclosure may be placed in any arrangement provided that an area of at least 20 % (Group IIB) or 40 % (H₂) of each cross-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.

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- The 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.
- 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).
- See instruction for other information.

3. Certificate related report(s):

- Type test report: CQST2010C042, CQST2010C042/01
- Factory inspection report: CN2020Q010227

4. Certificate change information:

- 1st change on April 11, 2023:
Updated the standards for certification.

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