CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **DEKRA 18ATEX0118 X** Issue Number: **0**

(4) Product: **Power distribution, switchgear and control box Series EJB**

(5) Manufacturer: **Rose Systemtechnik GmbH**

(6) Address: **Erbeweg 13-15, 32457 Porta Westfalica, Germany**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential test report number NL/DEK/ExTR19.0095/00.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0 : 2018 **EN 60079-1 : 2014** **EN 60079-31 : 2014**

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:

II 2 G Ex db ... IIB + H_2 T4, T5 or **T6 Gb** or
II 2 G Ex db ... IIB T4, T5 or **T6 Gb**
II 2 D Ex tb ... IIIC T85 °C, T100 °C or **T135 °C Db**

Date of certification: 16 March 2021

DEKRA Certification B.V.

R. Schuller
Certification Manager

PRODUCTS RvA C 001

29 September 2021, Correction in section (12)

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(13) # SCHEDULE

(14) **to EU-Type Examination Certificate DEKRA 18ATEX0118 X** Issue No. **0**

(15) **Description**

Power distribution, switchgear and control assembly Series EJB, made of aluminium, stainless steel or cast iron with a flanged cover, with or without display window(s), are intended to be used in potentially explosive atmospheres. Inside and in the walls or cover of the enclosure electrical apparatus such as terminals, switching-, control-, regulating-, measuring- and indicating devices can be mounted.

For details see the annex to this certificate; Annex 1 to report No. NL/DEK/ExTR19.0095/00.

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. NL/DEK/ExTR19.0095/00

(17) **Specific conditions of use**

1. 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.
2. The flanged flame path of the cover differs from the values stated in EN 60079-1. Contact the manufacturer for information on the dimensions of the flameproof joints.
3. 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).

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR19.0095/00

(20) **Certificate history**

Issue 0 - 222966700 initial certificate

Annex 1 to NL/DEK/ExTR19.0095/00

Description

Power distribution, switchgear and control assembly Series EJB, made of aluminium, stainless steel or cast iron with a flanged cover, with or without display window(s), are intended to be used in potentially explosive atmospheres. Inside and in the walls or cover of the enclosure electrical apparatus such as terminals, switching-, control-, regulating-, measuring- and indicating devices can be mounted.

Marking

Where applicable, the equipment marking is completed by the types/levels of protection “i”, “[i]” and/or “m”. 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 + H_2 if at least 40% of each internal cross-sectional area remains free.

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 EJB 06, 09 and 10	-20 °C to +110 °C

Degree of protection

The assembly provides a degree of protection IP66 according to IEC 60529 and IEC 60079-0.

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 mm^2. 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
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