



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX UL 23.0024U** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2023-07-05

Applicant: **Rittal GmbH + Co. KG**
Auf dem Stützelberg
35745 Herborn
Germany

Ex Component: Empty enclosure made of glass fiber reinforced polyester for stationary mounting, Model AX 9**.***.

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Increased Safety "eb" and Dust Ignition Protection by Enclosure "tb"**

Marking: Ex eb IIC Gb
Ex tb IIIC Db

Approved for issue on behalf of the IECEx
Certification Body:

Katy A. Holdredge

Position:

Senior Staff Engineer

Signature:
(for printed version)

Date:
(for printed version)

2023-07-05

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





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Date of issue: 2023-07-05

Issue No: 0

Manufacturer: **Rittal GmbH + Co. KG**
Auf dem Stützelberg
35745 Herborn
Germany

Manufacturing locations: **A.L. Fabrica de Material Electrico S.A.**
Zona Industrial Casal da Lebre
Rua da Alemanha lote 6B
Marinha Grande 2430-028
Portugal

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The component and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-31:2022-01](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the component listed has successfully met the examination and test requirements as recorded in:

Test Report:

[US/UL/ExTR23.0026/00](#)

Quality Assessment Report:

[DE/PTB/QAR09.0006/08](#)



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Certificate No.: **IECEX UL 23.0024U**

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Ex Component(s) covered by this certificate is described below:

Empty enclosure Type AX 92**.*** made of glass fiber reinforced polyester for stationary mounting.

Please see Annex for additional information.

SCHEDULE OF LIMITATIONS:

- The devices were tested for a maximum service temperature of 70°C. The equipment shall not attain a temperature of more than 70°C in use.
- The electrical requirements need to be evaluated in the end use.

Annex:

[Annex to IECEx UL 23.0024U Issue 0.pdf](#)



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Annex to Certificate No.:

IECEX UL 23.0024U

Issue No.: 0

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TYPE DESIGNATION

Empty enclosure Type AX 92^{**}.^{***} made of glass fiber reinforced polyester for stationary mounting.

Nomenclature:

| | | | | |
|-------------|-------------|-----------|------------|------------|
| TYPE | AX 9 | 2 | ** | *** |
| | I | II | III | IV |

I – Type

Empty housing : AX 9

II – Type series – 2

III – Enclosure Dimensions

^{**} – two-digit number that indicates the dimensions

250 x 350 x 150 = 02

300 x 400 x 200 = 03

400 x 400 x 200 = 04

400 x 600 x 200 = 05

600 x 600 x 200 = 06

500 x 500 x 300 = 07

600 x 800 x 300 = 08

800 x 1000 x 300 = 09

IV – ^{***} – three-digit number that indicates Variants without influence on the explosion protection

PARAMETERS RELATING TO THE SAFETY

Temperature range

The service temperature range is -40° to +70°C.

Ratings

Ingress protection: IP65



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MARKING

Marking has to be readable and indelible; it has to include the following indications:

| | |
|-------------------------------------|---|
| XX * | |
| Fert.-Nr. / Prod. No.: **XXXXXX | 0539  II 2G Ex eb IIC Gb |
| UL Nr. / No.: UL 23 ATEX 2986U |  II 2D Ex tb IIIC Db |
| IEC Nr. / No.: IECEx 23.0024U | Ex eb IIC Gb |
| UL File No: E491886 | Ex tb IIIC Db |
| Datum / Date: | Zone 1, AEx eb IIC Gb |
| *** | Zone 21, AEx tb IIIC Db |
| Prüfer / Inspector | Ex eb IIC Gb U |
| **** | Ex tb IIIC Db U |
| QR-Code |  |
| RITTAL GmbH & Co.KG | File No. E491886 |
| Auf dem Stuetzelberg, 35745 Herborn | |
| | IP65 |
| |  |
| FRIEDHELM LOH GROUP | |