



Marine & Offshore

Certificate number: 60979/A0 BV

File number: ACE15/681/5

Product code: 2661H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

RITTAL GmbH & Co. KG

Herborn - GERMANY

for the type of product

ENCLOSURES / CABINETS / BOXES (LOW VOLTAGE)

AX and KX series

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 28 Aug 2025

For Bureau Veritas Marine & Offshore,

At BV HAMBURG, on 28 Aug 2020,

Dirk Hoefner



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

The **AX** and **KX** series are empty enclosures for wall mounting.

Type/Series	Description	Dimensions	Degree of protection
AX Compact enclosure	Single or double door	Sheet steel: Width: 300 up to 1200 mm Height: 300 up to 1400 mm Depth: 210 up to 400 mm Stainless steel: Width: 300 up to 1000 mm Height: 300 up to 1200 mm Depth: 210 up to 300 mm	IP66, IP55 (with double door)
KX Terminal Box	Single cover with or without gland plate	Sheet steel: Width: 150 up to 800 mm Height: 150 up to 400 mm Depth: 80 or 120 mm Stainless steel: Width: 150 up to 400 mm Height: 150 up to 300 mm Depth: 80 or 120 mm	IP66, IP55 (with gland plate)
KX E-Box	Single door	Sheet steel: Width: 150 up to 380 mm Height: 150 up to 800 mm Depth: 80 up to 155 mm Stainless steel: Width: 200 up to 380 mm Height: 300 mm Depth: 150 up to 155 mm	IP66
KX Bus Enclosure	Single cover	Sheet steel: Width: 400 up to 800 mm Height: 200 or 300 Depth: 155 mm Stainless steel: Width: 200 up to 600 mm Height: 200 or 300 mm Depth: 80 or 120 mm	IP66, IP65 (with viewing window)

2. DOCUMENTS AND DRAWINGS :

- A086731 dated 13.09.2018; A087205 dated 05.11.2018; A087206 dated 07.11.2018; A086825 dated 30.06.2018; A087204 dated 05.11.2018; A086806 dated 16.05.2017; A086777 dated 29.06.2018; A086845 dated 13.05.2017; XWW00195EN1907; XWW00196EN1907

3. TEST REPORTS :

- IP test reports tested at Rittal GmbH & Co. KG:
174/19 dated 25.11.2019, 310/19 dated 22.03.2019, 498/19 dated 26.07.2019, 535/18 dated 10.10.2018
556/19 dated 15.04.2019, 772/19 dated 01.07.2019, 865/19 dated 30.07.2019, 870/19 dated 05.08.2019
857/19 dated 05.08.2019, 924/19 dated 24.07.2019, 1095/19 dated 26.08.2019, 1264/18 dated 08.01.2018
1268/18 dated 25.01.18, 1323/18 dated 27.11.2018

4. APPLICATION / LIMITATION :

4.1 - Bureau Veritas Rules and Regulations for the Classification of Steel Ships
4.2 - Certification applies to degree of protection only.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The above mentioned products are to be supplied by **Rittal GmbH & Co. KG** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **Rittal GmbH & Co. KG** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.:

Rittal Hof GmbH & Co. KG
Industriestrasse 24
D-56472 Hof
Germany

Rittal RKS Kleinschaltschränke GmbH
Rudolf Loh Straße 1
D-35708 Haiger
Germany

6. MARKING OF PRODUCT :

- Maker's name or trademark
- Equipment type or model identification
- Date of manufacturer and/or serial number

7. OTHERS :

7.1 - It is the responsibility of **Rittal GmbH & Co. KG** to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

*** END OF CERTIFICATE ***