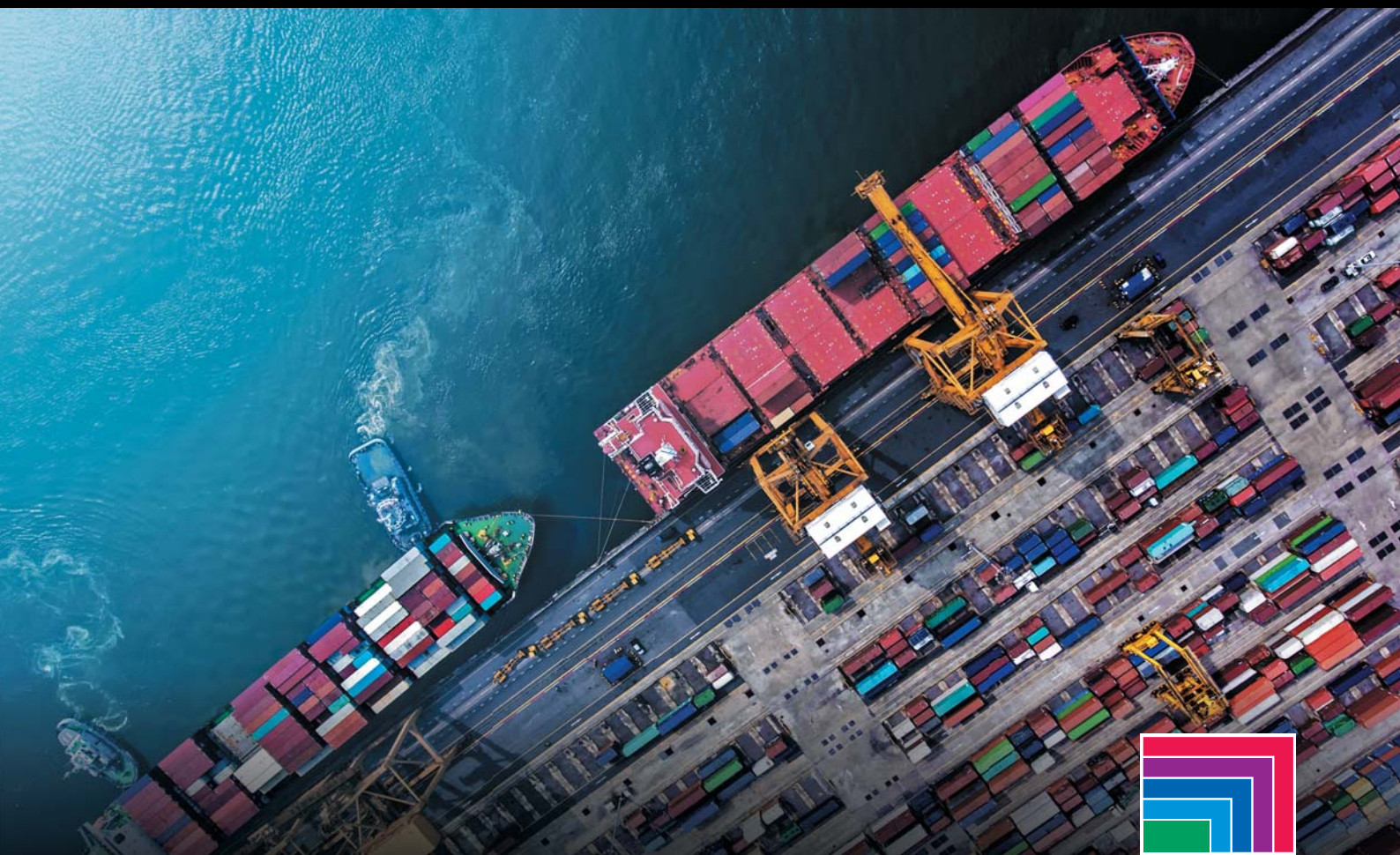


Rittal – The System.

Faster – better – everywhere.

DNV certificate for VX25 Ri4Power

VX25 Ri4Power switchgear system approved
for maritime applications with immediate effect



ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES



FRIEDHELM LOH GROUP

Maritime certification to DNV for VX25 Ri4Power



Periodical inspection of the equipment and the installation. The main assembly consists of the following parts:

- In-cabin bus
- Main bus
- Reverse of bus
- Reverse of bus
- Forwarding bus

Periodical inspection should be carried out in accordance with the IEC 60364-5-51.

Application:

Marine vessels

The type approval equipment is built in accordance with a DNV product standard.

The ingress protection is IP20.

Documentation and marking should be in accordance with the applicable standards.

Marking of product should be in accordance with the applicable standards.

Product description:
VX25 Ri4Power
Hardware Busbar

Rated voltage (U_n):
Rated frequency (f_n):
Rated insulation voltage (U_i):
Rated current (I_n):

Short circuit current:
Rated peak withstand current (I_{pw}):
Rated short-time current (I_{st}):

Short circuit current:
Rated peak withstand current (I_{pw}):
Rated short-time current (I_{st}):

Rated degree of protection:
Degree of protection:

Busbar respects:

- SV 9640 010
- SV 9650 010
- SV 9660 010
- SV 9660 020
- SV 9660 030
- SV 9660 040
- SV 9660 205
- SV 9660 405
- SV 9660 912
- SV 9663 200
- SV 9663 210

Busbars:

- SV 9640 207
- SV 9640 217
- SV 9640 212
- SV 9640 232
- SV 9650 202
- SV 9650 212
- SV 9664 004
- SV 9664 008
- SV 9664 008
- SV 9666 203
- SV 9666 213
- SV 9666 250
- SV 9666 200

DNV

TYPE APPROVAL CERTIFICATE

Certificate No:
TA2604268

This is to certify:
That the Low Voltage Switchgear and Control Gear Assemblies with Type Designations:
Busbar System VX25 Ri4Power

Issued to:
Rittal GmbH & Co. KG
Herborn, Hessen, Germany

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:
Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.
Rated voltage: 690 V AC, 1500 V DC
Rated current: up to 2800 A
Rated frequency: 50-60 Hz
Degree of protection: IP2X / IP54

Issued at Hamburg on 2022-02-02
This Certificate is valid until 2027-02-01
DNV local station: Essen

by DNV

Approval Engineer: **Karald Amberger**

Anne Subasmann
Head of Section

This Certificate is subject to terms and conditions specified. Any significant change in design or construction may void this Certificate valid. The validity of this Certificate is limited to the conditions specified in this Certificate and shall be the responsibility of the applicant. The validity of this Certificate is limited to the conditions specified in this Certificate and shall be the responsibility of the applicant.

DNV, DNV AS and its related companies and their subsidiaries as well as their officers, directors and employees ("DNV") are not liable for any loss or damage caused by the use of this Certificate for purposes other than those intended. DNV is not liable for any loss or damage caused by the use of this Certificate for purposes other than those intended. DNV is not liable for any loss or damage caused by the use of this Certificate for purposes other than those intended.

Form code: TA 201 version: 2021-02 page 1 of 2

Maritime applications

Every industry makes specific demands on the applications it uses. In the “maritime applications” segment, Rittal offers a range of complete system solutions that are sufficiently robust to reliably withstand these demands, including systems for particular environmental requirements such as resistance to vibrations and seawater and products with special approvals such as Det Norske Veritas, Lloyd’s Register and American Bureau of Shipping, which are important for maritime applications.

On vessels of all kinds and equally in all other maritime applications, the electrical switchgear, such as main and emergency switchboards and motor control centres, is of high safety relevance. Following successful introduction of the VX25 enclosure system on the maritime market over the past years, the granting of DNV certification means that the VX25 Ri4Power switchgear system can now also be used without problems and in full compliance with the standard on ships and for all offshore installations.

Direct link to the DNV certificate:

www.rittal.com/imf/none/20_2233/9649010_DNV_GL_EN/

Rittal switchgear systems are used in the following maritime scenarios:

- Marine switchboards for reliable power supply
- Main and emergency switchboards
- Motor starters
- On-board lighting
- Heating and cooling systems
- Waste water and waste disposal systems
- Low-voltage power supplies for offshore applications
- Power distribution on HVDC and AC platforms (grid connection for offshore wind farms)



An online tool is available for fast and simple system configuration.

www.rittal.com/configurators

Rittal – The System.

Faster – better – everywhere.

- Enclosures
- Power Distribution
- Climate Control
- IT Infrastructure
- Software & Services

You can find the contact details of all Rittal companies throughout the world here.



www.rittal.com/contact

XWWW00249EN2208

ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES



FRIEDHELM LOH GROUP