CERTIFICATE NUMBER	23-2444329-PDA
EFFECTIVE DATE	17-Aug-2023
EXPIRY DATE	16-Aug-2028
ABS TECHNICAL OFFICE	Hamburg Engineering Department

CERTIFICATE OF

Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

RITTAL GMBH & CO. KG

located at

AUF DEM STUETZELBERG, , D-35745 HERBORN, Germany

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product:	**Electrical Wire Terminal Block**
Model:	**SV 3450.505, SV 3451.505, SV 3455.505, SV 3456.505**
Endorsements:	
Tier:	**2 - PDA Issued**

This Product Design Assessment (PDA) Certificate remains valid until 16/Aug/2028 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Dimitrios Nikolakis,Engineer/Consultant

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D-35745 HERBORN
Germany
Telephone: +49 2772 505 0
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Web: www.rittal.de
Tier: 2 - PDA Issued

Product: **Electrical Wire Terminal Block**
Model: **SV 3450.505, SV 3451.505, SV 3455.505, SV 3456.505**
Endorsements:

Intended Service:
For use as busbar pick-off L, N or PE conductors.

Description:
Screwless, push-wire conductor connection clamps.

Rating:
Rated Voltage: 1000 V AC, 1500 V DC
Rated Current: up to 63 A
Cross-Section: 4.0mm²/ 16mm²
Ambient Temperature: -5° C to +55° C
Bus bar thickness: 5mm/ 10mm
Rated impulse withstand voltage : 12kV

Degree of protection: Note that the lowest values for the main bus bar system and the overall enclosure protection category prescribe the ratings for the overall switchgear assembly.

Service Restriction:
Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:
1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. Cable connectors are to be suitable for the locations of installation in accordance with the designated IP degree for the configuration of connector and cable combined ref. Marine Vessel Rules, 4-8-4/21.26.

Notes/Drawing/Documentation:
Technical Datasheets

Drawing No. SV 3450505, Revision: 13/07/2023
Drawing No. SV 3451505, Revision: 13/07/2023
Drawing No. SV 3455505, Revision: 13/07/2023
Drawing No. SV 3456505, Revision: 13/07/2023

Test Reports

TR_22383_3272000_00_EN, Test Report, Environmental, Phoenix Contact GmbH, 27/07/2017
TR_22385_3272001_00_EN, Test Report, Environmental, Phoenix Contact GmbH, 27/07/2017
TR_22386_3272010_00_EN, Test Report, Environmental, Phoenix Contact GmbH, 27/07/2017
TR_22388_3272011_00_EN, Test Report, Environmental, Phoenix Contact GmbH, 27/07/2017

Test Reports according to IEC 60947-7-1/IEC 60947-7-2

Drawing No. 22382 Rev, Test Report (1500V DC), Phoenix Contact GmbH, 07-08-2017
Drawing No. TPB_2833_3272000_00_DE, Phoenix Contact GmbH, 16-05-2017
Drawing No. TPB_2844_3272001_00_DE, Phoenix Contact GmbH, 16-05-2017
Drawing No. TPB_2845_3272010_00_DE, Phoenix Contact GmbH, 16-05-2017
Drawing No. TPB_2846_3272011_00_DE, Phoenix Contact GmbH, 16-05-2017

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Tier: 2 - PDA Issued

Terms of Validity:
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This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

STANDARDS

ABS Rules:
2023 Marine Vessel Rules: 1-1-4/7.7,1-1-A3, 1-1-A4, 4-8-3/1.7, 4-8-3/1.11.1, 4-8-3/1.17, 4-8-3/9.23, 4-8-4/21.26
2023 Mobile Offshore Units: 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-3-1/11, 4-3-1/15, 4-3-1/17.1

National:
NA

International:
IEC 60947-7-1:2009
IEC 60947-7-2:2009

Government:
NA

EUMED:
NA

OTHERS:
NA