



CERTIFICATE NUMBER 18-HG1755093-PDA
EFFECTIVE DATE 10 July 2018
EXPIRATION DATE 09 July 2023
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

WAGO KONTAKTECHNIK GMBH & CO. KG

located at

Hansastr. 27
D-32423 Minden
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 **Electric Wire Terminal Block**

Model **1) Series 243, 273, 773, 2273**
2) Series 222, 224, 221, 221-612, 221-613, 221-615
3) Series 271, 272, 293

This Product Design Assessment (PDA) Certificate remains valid until expiration date 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

Dagmar Gramatzki,
Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

WAGO KONTAKTECHNIK GMBH & CO. KG

HANSASTR. 27

D-32423 MINDEN

Germany

Telephone: +49-571-887-0

Fax: +49-571-887-169

Email: info@wago.com

Web: www.wago.com

Tier: 3 - Type Approved, unit certification not required

Product: Electrical Wire Terminal Block

Model: 1. Series 243, 273, 773, 2273

2. Series 222, 224, 221, 221-612, 221-613, 221-615

3. Series 271, 272, 293

Intended Service:

1. Push-wire connectors for junction boxes.
2. Lighting connectors.
3. Insulating terminal blocks with push-wire contacts.

Description:

Screwless, push-wire terminals.

Rating:

1. Rated Voltage (V): 100, 400.

Rated Currents (A): 6, 24, 32.

Cross Sections: 0.5 - 4.0 mm².

2. Rated Voltage (V): 400, 450.

Rated Currents (A): 24, 32, 41 (for 221-612, 221-613, 221-615).

Cross Sections: 2.5 - 4.0 mm², 0.5 - 4.0 mm², 0.5 - 6.0 mm² (for 221-612, 221-613, 221-615).

3. Rated Voltage (V): 400.

Rated Currents (A): 18, 24.

Cross Sections: 0.5 - 2.5 mm².

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:

- The manufacturer has provided a declaration about the control of, or the lack of asbestos in this product.
- Installation as per manufacturer's instructions.
- The particular applications are to be approved together with the system or equipment in which the terminals are used.

Notes/Drawing/Documentation:

Document No. Datenblatt_221-615_, Data Sheet Article No. 221-615, Revision: -, Pages: 3.

Document No. Datenblatt_221-612_, Data Sheet Article No. 221-612, Revision: -, Pages: 3.

Document No. Datenblatt_221-613_, Data Sheet Article No. 221-613, Revision: -, Pages: 3.

Document No. TR No. 2220573_50, Test Certificate of 31 Oct 2017_Dekra - ENEC KEMA 221 6mm2, Revision: -, Pages: 31.

Document No. TR No. NL-49194, Test Certificate of 5 Feb 2018_Dekra - CB 221 6mm2, Revision: -, Pages: 30.

Document No. 0221-0412_T_001, Connection Terminal Block Drawing, Revision: 001, Pages: 1.

Document No. 2273-0202_T, Push-Wire Connectors Drawing, Revision: 001, Pages: 1.

Document No. TR No. 2168803.50 - CCA Zert Serie 221, DEKRA CCA Test Report of 12 Feb 2014_Dekra - CCA Zert Serie 221, Revision: -, Pages: 28.

Document No. Cert. No. 40029794 ENEC Zert 2273 VDE___PDM, VDE Marks Approval, Revision: -, Pages: 3.

Document No. ExtELB No. 25955eng, Product Test Report of 11 May 2015_WAGO - 221 Series, Revision: -, Pages: 19.

Terms of Validity:

This Product Design Assessment (PDA) Certificate 18-HG1755093-PDA, dated 10/Jul/2018 remains valid until 09/Jul/2023 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

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Tier: 3 - Type Approved, unit certification not required

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

STANDARDS

ABS Rules:

2018 Steel 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.

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA