



CERTIFICATE NUMBER
17-HG1610225-PDA

DATE
14 Mar 2017

ABS TECHNICAL OFFICE
Hamburg Engineering Department

CERTIFICATE OF DESIGN ASSESSMENT

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

ABB STOTZ KONTAKT GMBH

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: **Electronic Motor Protection Relay**

Model: **UMC100.3-DC/UC**

This Product Design Assessment (PDA) Certificate 17-HG1610225-PDA, dated 14/Mar/2017 remains valid until 13/Mar/2022 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

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.

AMERICAN BUREAU OF SHIPPING

Ulf Numirski
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 the terms and conditions as contained in ABS Rules 1-1-A/5 9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

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Tier: 2 - PDA Issued

Product: Electronic Motor Protection Relay**Model:** UMC100.3-DC/UC**Intended Service:**

Motor Protection Relay.

Description:

3 pole motor protection unit with overload and phase failure protection.

Additional auxiliary modules:

Communication modules: PDP32.0 ; MRP31.0 ; DNP31.0 ; MTQ22.0 ; PNQ22.0 ; I/O modules: DX111-FBP ; DX122-FBP ; Current transformers: CT4Lxx ; CT5Lxx ; Analog module: AI111.0

3ph. voltage module: VI150-FBP ; VI155-FBP ; Single Mounting KIT: SMK3.0 ; Profibus termination unit: PDR31.0 ; Control Panel : UMC100PAN

Rating:

Working Current Range: 0.24 - 63A.

Rated Voltage: max. 1000 V AC.

Degree of Protection: IP20.

Certified Safe Type: II (2) G [Ex e] [Ex d] [Ex px], II (2) D [Ex t] [Ex p] (PTB 10 ATEX 3016)

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:

Each particular application and the individual set points are to be specifically approved in conjunction with the relevant system in which the units are being used.

ATEX certified equipment is not to be installed in hazardous areas on U.S. vessels unless it can be proven to have been tested to the applicable IEC 60079 series standards by an independent laboratory accepted by the U.S. Coast Guard.

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes/Drawing/Documentation:

Drawing No. 10_Technical_description, Technical_description_UMC_SYSTEM, Revision: A, Pages: 1

Drawing No. 50_Firmware_Documents, SW_Documentation, Revision: A, Pages: 1

Drawing No. 50_SW_Development in UMC100-Project_Rev_A, SW_Development_UMC, Revision: A, Pages: 1

Drawing No. 60_16-8399-BE-UMC100 (ABB Stotz Kontakt GmbH), Test_Reort_PACONSULT, 14/02/2017, Revision: A, Pages: 1

Drawing No. 70_PTB 10 ATEX 3016, ATEX Certificate, 2nd Supplement, Revision: -, Pages: 1

Drawing No. 70_UL_Certificates, UL_Certificates, Revision: A, Pages: 1

Drawing No. EMC_Test report, Motor Controller UMC100.3 DC; UMC100.3 UC ; Panel UMC100.3 PAN ; Profibus

Interface PDP32 ; Modbus Interface MRP31 ; Profibus Termination PDR31, 18/09/2015, Revision: A, Pages: 1

Drawing No. UMC- ship approval 2016_Rev_D, UMC- ship approval 2016_Rev_D, Revision: D, Pages: 1

Terms of Validity:

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Tier: 2 - PDA Issued

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STANDARDS

ABS Rules:

2017 Steel Vessel Rules 1-1-4/7.7, 1-1-Appendix 3 and 4, 4-8-3/1.7/1.11.1/1.17/5.3.3/5.7.1/2, 4-9-8/13.1

National:

NA

International:

IEC/ EN 60947-4-1:2009

Government:

NA

EUMED:

NA

OTHERS:

NA