



CERTIFICATE NUMBER

14-HG1257767-PDA

DATE

23 September 2014

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
HEINZMANN GMBH & CO. KG. - SCHOENAU

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: **Generator Management System**

MODEL: **THESEUS (DGM-02)**

This Product Design Assessment (PDA) Certificate 14-HG1257767-PDA, dated 23/Sep/2014 remains valid until 22/Sep/2019 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


Wulf-Peter Senebald
Engineer

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-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

HEINZMANN GMBH & CO. KG.

AM HASELBACH 1
SCHOENAU
D-79677
Germany
Telephone: 49-7673 8208 0
Fax: 49-7673 8208 188
Email: info@heinzmann.de
Web: www.heinzmann.com

Tier: 5

Product: Generator Management System

Model: THESEUS (DGM-02)

Intended Service:

Automatic synchronizing of generators arranged for parallel operation, load sharing in parallel operation, overload protection of each phase, short circuit current protection, reverse power protection as optional functionalities by parameterization.

Description:

Programmable/ adjustable control and protection unit.

Components: THESEUS Basic, THESEUS Medium, THESEUS Extended, THESEUS Group

Ratings:

Power Supply: 24V DC (18 ... 33 V DC);

Measuring Input

Voltage 220 (Phase / Phase): 100 ... 240 V AC, 50/60 Hz,

Voltage 440 (Phase / Phase): 240 ... 480 V AC, 50/60 Hz

Current: 1 A / 5 A

Degree of Protection: IP2X

Ambient temperature: -40 ... 70° C

Service Restrictions:

Unit Certification is required for this product.

Comments:

The Unit Certification for the switchboard, panel board and/or console may cover this product in lieu of the individual Unit Certification where they contain this product provided the tests required by 4-9-8/Table 2 are carried out when their shop testing is witnessed by the Surveyor.

Notes / Drawings / Documentation:

This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

Term of Validity:

This Product Design Assessment (PDA) Certificate 14-HG1257767-PDA, dated 23/Sep/2014 remains valid until 22/Sep/2019 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.

STANDARDS

ABS Rules:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. The Rules applicable to this assessment are:

2014 Steel Vessel Rules 1-1-4/7.7, 1-1-Appendix 3, 4-8-2/9.11, 4-8-3/1.7/1.11/1.17, 4-9-3/5/7/9/11.1 4-9-8/7/13

HEINZMANN GMBH & CO. KG.

AM HASELBACH 1

SCHOENAU

D-79677

Germany

Telephone: 49-7673 8208 0

Fax: 49-7673 8208 188

Email: info@heinzmann.de

Web: www.heinzmann.com

Tier: 5

National:

N.A.

International:

NA

Government Authority:

NA

EUMED:

NA

Others:

NA