



CERTIFICATE NUMBER 18-HG1779399-PDA
EFFECTIVE DATE 19-September-2018
EXPIRATION DATE 18-September-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

SIEMENS AG, DF FA AS

located at

D-92224 Amberg, 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 Programmable Controllers I/O Unit
Model SIMATIC ET 200SP

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

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 ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

SIEMENS AG
SIMATIC TYPE TEST
D-92224 AMBERG
Germany
Telephone: +49 9621 80 4316
Fax:
Email: Karlheinz.Pflug@siemens.com
Web: www.siemens.de

Tier: 3 - Type Approved, unit certification not required

Product: Programmable Controllers I/O Unit

Model: SIMATIC ET 200SP

Intended Service:

Automation Systems (Monitoring and Control Functions) on Classed Vessels with AMS, ACC, ACCU, ABCU Notations.

Description:

Components of ET200SP:

6ES7 131-; 6ES7 132-; 6ES7 134-; 6ES7 135-; 6ES7 137-; 6ES7 138-; 6ES7 155-; 6ES7 193-; 6ES7 510-; 6ES7 512-; 6ES7 545-.

Rating:

Power Supply: 24V DC, 120/230V AC

Ambient Temperature: up to 60 °C

Degree of Protection: IP20

Service Restriction:

- Unit Certification, as detailed in 4-9-8/13.3 of the ABS Steel Vessels Rules, is required for this product if it is incorporated in a Category II or Category III system as detailed in 4-9-3/7.1 and 4-9-3/Table 1 of the ABS Steel Vessels Rules. Unit Certification may be carried out during Factory Acceptance Test of the overall system by the end user.
- Surge Immunity: External Protective circuits are required for DC systems. See the System Manual (A5E03461486) for recommendations.
- Installation of the units, as per manufacturer's instructions.
- System may be used in bridge and deck zones together with a filter unit, type B84113C (manufactured by Epcos or equivalent) tested with: I=3A, C=2x0.47uF+2x4700pF, L=4x4.7mH. (Except: Energy Meter 6ES7 134... only for installation in general power distribution zone.)

Comments:

- Approval is for hardware only, the system configuration and external connection is to be specifically approved for each application. When incorporated in a system of Category I, II or III, in accordance with 4-9-3/7.1 and 4-9-3/Table 1 of the ABS Steel Vessels Rules, the documentation detailed in 4-9-3/Table 2 is to be submitted to ABS or to be available for review by ABS, as applicable.
- 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. 1, IECEx Certificate, DEK 13.0011X, DEKRA, Revision: 1, Pages: 1

Drawing No. 2, ATEX Certificate, 12ATEX0038 X, DEKRA, Revision: 1, Pages: 1

Drawing No. 3, Manual, Revision: 1, Pages: 1

Drawing No. 4, ET200SP Certificate, Revision: 1, Pages: 1

Drawing No. 6, Test Specification, Revision: 1, Pages: 1

Terms of Validity:

This Product Design Assessment (PDA) Certificate 18-HG1779399-PDA, dated 19/Sep/2018 remains valid until 18/Sep/2023 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.

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Tier: 3 - Type Approved, unit certification not required

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, 4-1-1/3.3, 4-9-3/5, 4-9-3/7, 4-9-3/11, 4-9-8/3, 4-9-8/13, 4-9-8/15
2018 Mobile Offshore Drilling Units Rules 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-3-4/5, 6-1-1/3, 6-1-1/9

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA