



CERTIFICATE NUMBER

DATE

00-LD186857-4-PDA

26 June 2014

ABS TECHNICAL OFFICE

London Engineering Department

CERTIFICATE OF

DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of
SCHNEIDER AUTOMATION SAS - 06516 CARROS CEDEX

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 Controller**

MODEL: **Series TSX 57 - Premium Range**

This Product Design Assessment (PDA) Certificate 00-LD186857-4-PDA, dated 26/Jun/2014 remains valid until 25/Jun/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

Barry H Moss

Engineer

AB258(01/10)

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

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 application/certificate is governed by the "Terms and Conditions of the Request for Product Type Approval and Agreement" as contained in the ABS Rules.

AB258(0713)

SCHNEIDER AUTOMATION SAS

SUBSIDIARY OF SCHNEIDER ELECTRIC

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MA Certificate No. 12-MS2249946-X **Tier: 3**

Product: Programmable Controller

Model: Series TSX 57 - Premium Range

Intended Service:

+ACC and +ACCU Classed vessels. Programmable control system for monitoring and control functions.

Description:

PLC equipment consisting of input/output modules, extension modules and accessories, power supply units, processors, communication module, safety module and cooling unit as indicated in the listing sheet.

Ratings:

Depending on the model:

-1 to 16 racks interconnected by means of Bus X.

-192 to 2040 discrete I/O.

-12 to 512 analog I/O.

-4 to 64 application-specific channels.

-1 to 4 networks (Ethernet TCP/IP, Fipway, Modbus Plus, Ethway), 1 to 8 AS-Interface buses.

-0 or 1 Fipio bus, 0 or 1 CANopen or Modbus Plus bus and 0 to 5 INTERBUS or Profi bus DP (1) fieldbuses.

-0 to 30 process control channels, with each channel capable of supporting up to 3 loops.

Service Restrictions:

1.) Unit certification is required by the user to customize this equipment where this equipment is used for Category II or III services in 4-9-6/Table 1 and 4-9-6/Table 2 as applicable.

2.) Environmental temperature where this equipment are installed is not more than 55°C.

Comments:

The tests in the presence of the Surveyor are required in accordance with 4-9-7/Table 10 of the Rules "Performance Tests" where it is used for control, monitoring and safety systems of propulsion machinery, propulsion boilers vital auxiliary pumps and electrical generating plants. The performance tests are to be carried out at the assembled plant before installation onboard or after installation onboard.

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.

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

Term of Validity:

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MA Certificate No. 12-MS2249946-X **Tier: 3**

STANDARDS

ABS Rules:

The Rules applicable to this assessment are:

- Steel Vessel Rules (2014) 1-1-4/7.7, 1-1-A 3 and 4, 4-9-5/17, 4-9-8/1 , 7, 13, and 4-9-7/Table 1 and Table 2
- Steel Vessels Under 90 Meters (295 Feet) in Length (2014) 1-14/7.7, 1-1-A 3 and 4
- Facilities on Offshore Installations (2014) 1-1-4/9.7, 1-1-A 2 and 3
- Offshore Support Vessels (2014) 1-1-4/7.7, 1-1-A 3 and 4, 4-9-5/17, 4-9-8/1 , 7, 13, and 4-9-7/Table 1 and Table 2
- Mobile Offshore Drilling Units Rules (2014) 1-1-4/9.7, 1-1-A 2 and 3.

National:

NA

International:

IEC 60945 (2002), IEC/EN61131-2 (2003), IACS E10

Government Authority:

NA

EUMED:

NA

Others:

NA

