



CERTIFICATE NUMBER

DATE

04-GE441443/3-PDA

18 May 2011

ABS TECHNICAL OFFICE

ITALY TECH

# CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of  
**ABB S.P.A. - ABB SACE DIVISION - SESTO S. GIOVANNI (MI)**

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: **Circuit Breaker**

MODEL: **Tmax T1, T2, T3, T4, T5, T6 and T7**

This Product Design Assessment (PDA) Certificate 04-GE441443/3-PDA, dated 18/May/2011 remains valid until 17/May/2016 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

Giorgio Barbini  
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 manufacturers 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).

**ABB S.P.A. - ABB SACE DIVISION**

ACCOUNTING SERVICES

VIA L. LAMA, 33

SESTO S. GIOVANNI (MI)

20099

Italy

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**Product:** Circuit Breaker

**Model:** Tmax T1, T2, T3, T4, T5, T6 and T7

**Intended Service:**

Electrical Installation Protection for Marine and Offshore Equipment

**Description:**

Low voltage circuit breakers of moulded case construction, with microprocessor-based overcurrent release and thermal magnetic release.

**Ratings:**

See attachment

**Service Restrictions:**

Unit Certification is not required for this product.

**Comments:**

Utilization category A. Suitable for isolation. Suitable for installation in dry accommodation spaces or in dry control rooms. May be installed in other spaces provided it is fitted with an enclosure having IP degree suitable for the intended location, as per Table 2 of Section 4-8-3 of the Rules. Fixed (non plug-in or draw-out) versions can be used provided that an isolation switch is fitted on the supply side of the breaker. See the Manufacturer's catalogue for details of breaking and making capacities as a function of voltage.

**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 04-GE441443/3-PDA, dated 18/May/2011 remains valid until 17/May/2016 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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**STANDARDS**

**ABS Rules:**

2011 Steel Vessel Rules 1-1-4/7.7, 4-8-3/5.3.3

**National:**

NA

**International:**

IEC 60947-2

**Government Authority:**

NA



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**EUMED:**

NA

**Others:**

NA



