



CERTIFICATE NUMBER

DATE

06-LD141902A-1-PDA

05 April 2012

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 ELECTRIC INDUSTRIES SAS - GRENOBLE CEDEX**  
**9**

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: **Overload Relay, Thermal**

MODEL: **TeSys Model D : LR9-D or LR9-F**

This Product Design Assessment (PDA) Certificate 06-LD141902A-1-PDA, dated 05/Apr/2012 remains valid until 04/Apr/2017 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

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Jean-Claude G. Dennemont  
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).

## SCHNEIDER ELECTRIC INDUSTRIES SAS

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**Product:** Overload Relay, Thermal

**Model:** TeSys Model D : LR9-D or LR9-F

**Intended Service:**

Protection of low voltage a.c. circuits and motors against overloads, phase failure, phase unbalance, long starting times and prolonged stalling of the motor; Alarm function to avoid tripping by load shedding for model LR9-D

**Description:**

3 pole electronic thermal overload relays, comprising of:  
LR9-D5367, LR9-D5369, LR9-D67 and LR9-D69  
LR9-F53, 55, 73 & 75 series and LR9-F57, 63, 67, 69, 71, 75, 79, 81

**Ratings:**

Current: 30-630A, Operational voltage: 1000V ac, Insulation voltage: 1000V, Impulse withstand voltage: 8 kV,  
Frequency range: 50-60 Hz

**Service Restrictions:**

Unit Certification is not required for this product.

**Comments:**

Not Applicable

**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 06-LD141902A-1-PDA, dated 05/Apr/2012 remains valid until 04/Apr/2017 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.

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**STANDARDS**

**ABS Rules:**

2012 Steel Vessel Rules 1-1-4/7.7 and 4-8-3/1.7

**National:**

NA

**International:**

IEC/EN 60947-4-1

