



CERTIFICATE NUMBER
EFFECTIVE DATE
EXPIRY DATE
ABS TECHNICAL OFFICE

21-2123952-PDA
28-May-2021
27-May-2026
Genoa Engineering Department

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

SCHNEIDER ELECTRIC INDUSTRIES SAS

located at

**31 RUE PIERRE MENDES FRANCE, EYBENS, GRENOBLE CEDEX
9, France, 38050**

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: LRD/LR3D01 to 35, and accessories LAD7B106, LAD7C, LAD703

Endorsements:

Tier: 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 27/May/2026 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

Giorgio Barbini

Giorgio Barbini, 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)

SCHNEIDER ELECTRIC INDUSTRIES SAS

31 RUE PIERRE MENDES FRANCE, EYBENS

GRENOBLE CEDEX 9

France 38050

Telephone: +33 (0) 476576060

Fax: +33 (0) 476394072

Email: christophe.pretavoine@se.com

Web: www.se.com

Tier: 2 - PDA Issued

Product: Overload Relay, Thermal**Model:** TeSys Model D: LRD/LR3D01 to 35, and accessories LAD7B106, LAD7C, LAD703**Endorsements:****Intended Service:**

For use on ABS classed Vessels and Offshore Facilities in accordance with the listed ABS Rules and International Standards.

Description:

Catalog No.LRD/LR3D01 to 35 are designed for protection of low voltage 3-pole a.c. circuits and motors against overloads, phase failure, long starting times and prolonged stalling of the motor.

Catalog No.LR3D are designed for use with unbalanced loads.

LRD01 to LRD35 Differential thermal overload relays, with screw clamp terminals.

LRD013 to LRD223 Differential thermal overload relays, with spring terminal connections.

LRD016 to LRD356 Differential thermal overload relays, with connection by lug-clamps.

LR3D01 to LR3D35 Thermal overload relays for unbalanced loads, with screw clamp terminals.

LR3D013 to LR3D223 Thermal overload relays for unbalanced loads, with spring terminal connections.

LR3D016 to LR3D356 Thermal overload relays for unbalanced loads, with connection by lug-clamps

LAD7B106 Terminal block for LRD01...35 and LR3D01...35

LAD7C1 Pre-wiring kit allowing direct connection of relay NC contact to the contactors LC1D09...D18

LAD7C2 Pre-wiring kit allowing direct connection of relay NC contact to the contactors LC1D25...D38

LAD703 Remote tripping or electrical reset device

Rating:

Current range : 0.1- 0.16A to 30-38A,

Overload relay class: 10A

Auxiliary contact voltage: 24/48/110/220/440 Vdc; 24/48/110/220/600 V ac, Frequency: 50/60 Hz,

Rated Insulation voltage: 690 V ac

Impulse withstand voltage: 6 kV

Limits of ambient temperature range: -20 C to + 60 C Degrees.

Service Restriction:

1) Unit Certification is not required for this product.

2) If the manufacturer or purchaser requests an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

3) The scope of Type Approval is to comply with MSC.1/Circ.1221 dated 11 December 2006.

Comments:

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

Notes/Drawing/Documentation:

Drawing No. Extract LRD01-35 catalog 2020

LCIE IÉCEE CB Scheme Certificate No FR_707035 dated 29-11-2019

LCIE Test Report No 129163-659446A-Cr150306 dated 06 March 2015 in France and China

LCIE Test Report No 1911990011 dated 26-09-2019 in China

Terms of Validity:

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STANDARDS

ABS Rules:

2021 Rules for Marine Vessels 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-8-3-/1.3, 4-8-3/1.7, 4-8-3/5.3.3
2021 Rules for Conditions of Classification, Part 1 – Offshore Units and Structures 1-1-4/9.7, 1-1-A2 and 1-1-A3, 6-1-7/13.1
2021 Facilities on Offshore Installations 1-1-4/9.7, 1-1-A2 and 1-1-A3, 3-6/11.3.3

National:

NA

International:

IEC 60947-4-1 Ed.4.0 (2018-10)
IEC 60947-5-1 Ed.4.0 (2016-05)

Government:

NA

EUMED:

NA

OTHERS:

NA