



CERTIFICATE NUMBER	19-GE1940679-PDA
EFFECTIVE DATE	15-Jan-2020
EXPIRY DATE	14-Jan-2025
ABS TECHNICAL OFFICE	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 D Model D: LRD/LR3D04L to 32L, and accessories LAD7B205, LAD7C, LAD703

This Product Design Assessment (PDA) Certificate remains valid until 14/Jan/2025 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, 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

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Tier: 2 - PDA Issued

Product: Overload Relay, Thermal**Model:** TeSys D Model D: LRD/LR3D04L to 32L, and accessories LAD7B205, LAD7C, LAD703**Intended Service:**

Catalog No. LRD/LR3D04L to 32L are designed for protection of low voltage 3-pole a.c. circuits and motors against overloads, phase failure, excessively long starting times and prolonged stalled rotor condition.

Catalog No. LR3DL are designed for use with unbalanced loads.

Description:

LRD-04L to LRD-32L: differential thermal overload relays, with screw clamp terminal

LRD-04L6 to LRD-32L6: differential thermal overload relays, with connection by lug clamps

LR3D04L to LR3D32L: thermal overload relays for unbalanced loads with screw clamp terminal

LR3D04L6 to LR3D32L6: thermal overload relays for unbalanced loads, with connection by lug clamps

LAD-7B205: Terminal block for LRD-04...32 and LR3D04...32

LAD-7C1: Pre-wiring kit allowing direct connection of relay NC contact to the contactors LC1-D09...D18

LAD-7C2: Pre-wiring kit allowing direct connection of relay NC contact to the contactors LC1-D25...D38

LAD-703: Remote tripping or electrical reset device

Rating:

Current range : from 0,4-0,63A to 23-32A,

Overload relay class: 20

Auxiliary contact voltage: 125/250/440 V DC; 120/240/380/480/500/600 V AC

Frequency: 50/60 Hz

Rated Insulation voltage: 690 V

Impulse withstand voltage: 6 kV

Ambient temperature range:

Normal: -20°C to + 60°C

Minimum/Maximum (with derating): -40°C to +70°C

Service Restriction:

- Unit Certification is not required for this product.

- If the manufacturer or purchaser's request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

- 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. NB_Impact_60947-1_Ed5_A2 for LRD01-35 v2, Comparison between IEC 60947-1 Ed.5.2 and 5.1

IECCE CB TEST CERTIFICATE No.DE1-62948 dated 2019-12-17

VDE Test Report No.263200-TL3-1 dated 2019-12-12

VDE Test Report No.263200-TL3-2 dated 2019-12-13

Terms of Validity:

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STANDARDS

ABS Rules:

2020 Rules for Conditions of Classification, 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2020 Marine Vessels Rules, 4-8-3/1.3 and 4-8-3/1.7

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