



CERTIFICATE NUMBER 22-2233898-PDA

EFFECTIVE DATE 22-March-2022

EXPIRATION DATE 21-March-2027

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 Model D: LR9D or LR9F

This Product Design Assessment (PDA) Certificate remains valid until 21/Mar/2027 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

G. Barbini

Giorgio Barbini, Principal 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 ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement

SCHNEIDER ELECTRIC INDUSTRIES SAS
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Email: christophe.pretavoine@se.com
Web: www.se.com

Tier: 2 - PDA Issued

Product: Overload Relay, Thermal
Model: TeSys Model D: LR9D or LR9F
Endorsements:

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 LR9D.

Description:

3 pole electronic thermal overload relays, comprising of:
LR9D5367, LR9D5369, LR9D67 and LR9D69
LR9F53, 55, 73 & 75 series and LR9F57, 63, 67, 69, 71, 75, 79, 81

Rating:

Rated Operational Current: 30 to 630A
Rated Operational Voltage: 1000V AC
Rated Insulation Voltage: 1000V AC
Rated Impulse Withstand Voltage: 8 kV
Frequency Range: 50-60 Hz

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:

CQC CB Certificate No.CN50979 dated 09 Aug 2020 in China for LR9F7
STIEE Test Report No.00901-CB2020CQC-090963 dated 2020-07-13 in China for LR9F7
CQC CB Certificate No.CN51014 dated 09 Aug 2020 in China for LR9F5-LR9D
STIEE Test Report No.00901-CB2020CQC-090964 dated 2020-07-14 in China for LR9F5-LR9D
ISO 9001 Certificate No.195538-UK Rev7 for Schneider Electric Industries SAS

Terms of Validity:

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STANDARDS

ABS Rules:

2022 Rules for Marine Vessel Rules: 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-8-2/9.5
2022 Rules for Mobile Offshore Units and Structures: 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-3-2/9.1.3
2022 Facilities on Offshore Installations: 3-6/5.9.1 ii)

National:

NA

International:

IEC 60947-4-1 Ed.4.0 2018-10

Government:

NA

EUMED:

NA

OTHERS:

NA