



Marine & Offshore

Certificate number: 41038/B0 BV

File number: ACE2/8/43

Product code: 2652H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**SCHNEIDER ELECTRIC INDUSTRIES SAS - ELECTROPOLE 38EQI**  
EYBENS - FRANCE

*for the type of product*

**OVER-LOAD RELAYS OR RELEASES**

Overload relay TeSys LR9D and LR9F series.

**Requirements:**

Bureau Veritas Rules for the Classification of Steel Ships.  
IEC 60947-4-1 (2018)

EC Code : 31

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 13 Apr 2026**

**For Bureau Veritas Marine & Offshore,**

At BV LYON, on 13 Apr 2021,

Florian Aulen



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION :

The **Electronic Overload relay LR9D and LR9F series products** are thermal relays for Marine and Offshore applications.

#### 1.1 - Approval's range:

##### 1.1.1 - LR9D/F:

| LR9 | F  | 5   | 3  | 57 |
|-----|--|-----|----|----|
| I   | II   | III | IV | V  |
| I   | Designates Basic Model<br>LR9#Electronic overload relay  |     |    |    |
| II  | Serial designation: F #TeSys model F D #TeSys model D  |     |    |    |
| III | Size : 5<br>Blank#for relay classes 10 and 20  |     |    |    |
| IV  | Tripping class : 3#for relay class 10 5#for relay class 20<br>Blank#for relay adjustable classes 10 and 20   |     |    |    |
| V   | Suffix designates thermal trip setting range (A)<br>57: 30 – 50 A (LR9F)<br>63: 48 – 80 A (LR9F)<br>67: 60 – 100 A (LR9F/D)<br>69: 90 – 150 A (LR9F/D)<br>71: 132 – 220 A (LR9F) |     |    |    |

##### 1.1.2 - LR9E:

| LR9 | F   | 7   | 3  | 75 |
|-----|---|-----|----|----|
| I   | II  | III | IV | V  |
| I   | Designates Basic Model LR9: Electronic overload relay   |     |    |    |
| II  | Serial designation: F: TeSys model F  |     |    |    |
| III | Size: 7<br>Blank: for relay classes 10, 20  |     |    |    |
| IV  | Tripping class :<br>3: for relay class 10<br>5: for relay class 20<br>Blank: for relay adjustable classes 10 , 20 |     |    |    |
| V   | Suffix designates thermal trip setting range (A)<br>75: 200 – 330 A<br>79: 300 – 500 A<br>81: 380 – 630 A         |     |    |    |

### 2. DOCUMENTS AND DRAWINGS :

LR9D and LR9F catalogue dated March 2015.

### 3. TEST REPORTS :

#### STIEE :

- IECEE CB Scheme certificate No. 00901-CB2020CQC-090963, dated 2020-07-13.
- IECEE CB Scheme certificate No. 00901-CB2020CQC-090964, dated 2020-07-14.
- Test report 20AAX0203 Y14-10616 dated 2020-10-14.

#### Schneider Electric:

- Tests report No. 2005-0001-00-F, dated 5.Feb.2005.
- Test report No. EN950062, dated 30.Nov.1995.
- Tests reports No. CLIM030102-1/2/3, dated 11.Mar.2015.
- Tests reports No. CLIM030104-1/2/3, dated 11.Mar.2015.

### 4. APPLICATION / LIMITATION :

4.1 - BUREAU VERITAS Rules and Regulations for the Classification of Steel Ships.

4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**

4.3 - The above mentioned products have been tested according to IACS UR E10 rev 7.

4.4 - BUREAU VERITAS Environmental Category, **EC Code: 31**

**5. PRODUCTION SURVEY REQUIREMENTS :**

5.1 - The **Electronic Overload relay LR9D and LR9F series products** are to be supplied by **SCHNEIDER ELECTRIC INDUSTRIES SAS - ELECTROPOLE 38EQI** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320.

5.3 - **SCHNEIDER ELECTRIC INDUSTRIES SAS - ELECTROPOLE 38EQI** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products .

5.4 - For information, **SCHNEIDER ELECTRIC INDUSTRIES SAS - ELECTROPOLE 38EQI** has declared to Bureau Veritas the following production site :

**SCHNEIDER ELECTRIC FRANCE  
6-8 RUE DE BAILLY  
21078 DIJON CEDEX  
FRANCE**

**6. MARKING OF PRODUCT :**

6.1 - Trade name.

6.2 - Date of manufacture and serial number.

6.3 - Equipment type or model identification under which it was type-tested

**7. OTHERS :**

7.1 - It is **SCHNEIDER ELECTRIC INDUSTRIES SAS - ELECTROPOLE 38EQI** responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate n° 41038/A0 BV issued on 20 Mar 2015 by the Society.

**\*\*\* END OF CERTIFICATE \*\*\***