

**TYPE APPROVAL CERTIFICATE****This is to certify:****That the Overcurrent- and Short-Circuit Relay**with type designation(s)  
**Tesys D LRD3 / LR3D3**

Issued to

**Schneider Electric Industries SAS**  
**GRENOBLE, France**is found to comply with  
**DNV GL rules for classification – Ships, offshore units, and high speed and light craft**  
**IEC 60947****Application :****Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.**Issued at **Høvik** on **2018-12-19**for **DNV GL**This Certificate is valid until **2022-06-30**.DNV GL local station: **Marseille**Approval Engineer: **Nicolay Horn**

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**Marta Alonso Pontes**  
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Job Id: **262.1-007397-5**  
Certificate No: **TAE0000201**  
Revision No: **1**

## Name and place of manufacturer

Schneider Electric France  
6-8 rue du Bailly  
21078 Dijon Cedex  
FRANCE

## Product description

Thermal overload relay with differential and non differential type.

Rated insulation voltage  $U_i$  : 600 /690 V\*  
Rated impulse voltage  $U_{imp}$ : 6 kV  
IP protection: IP20

Technical data :

LRD3 LR3D 3 Class 10	Current Range $I_e$ (A)	$I_q = I_r$ (690V)* (kA)	$I_q$ (440V) (kA)	Fuse aM (A max.)
13	9.0 - 13.0	1	50	16
18	12.0 - 18.0	3		20
25	17.0 - 25.0	3		25
32	23.0 - 32.0	3		40
40	30.0 - 40.0	3		40
50	37.0 - 50.0	3		63
65	48.0 - 65.0	3 or 5		63
80	62.0 - 80.0	3 or 5		80

LRD 3...L Class 20	Current Range $I_e$ (A)	$I_q = I_r$ (690V)* (kA)	$I_q$ (440V) (kA)	Fuse aM (A max.)
13	9.0 - 13.0	1	50	20
18	12.0 - 18.0	3		25
25	17.0 - 25.0	3		32
32	23.0 - 32.0	3		40
40	30.0 - 40.0	3		50
50	37.0 - 50.0	3		63
65	48.0 - 65.0	5		80

\* See Application / limitation

## Application/Limitation

For installation in enclosures onboard ship and offshore units

With  $U_{imp} = 6$  kV the max. rated voltage is 600 V when used in a IT (ship) net. Applicable for use in applications with directly earthed systems with rated voltage of 400/690 V.

Environmental classes: Vibration : A, Temperature: D, Humidity: B.

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## **Type Approval documentation**

### Technical documentation:

«TeSys LRx, RM1 – Technical Data for Designers» part of catalogue  
“Tesys protection components”, parts of manufacturer’s catalogue.  
“TeSys d Thermal overload Relays 13 - 65A – Marine certification file”version 2.0 dated 2013-09-27.

### Test reports:

Schneider Electric test report no. 2009036229\_001 dated 2009-02-12.  
LCIE test reports no. 150527-710254 & 150529-710258 dated 2018-01-24.  
LCIE test reports nos 128422-665184-D00 to D04 all dated 2015-05-20.  
LCIE test reports nos. 110468-620644/00, 110468-620644/01, 110468-620644/02 & 110468-620644/03 all issued 2013-04-04

## **Tests carried out**

Electrical tests after IEC 60947-4-1 (2009) + A1:2012. Environmental tests after “Standard for Certification no. 2.4” April 2006 (Power supply variation, power supply failure, dielectric, insulation, inclination, vibration, cold, dry heat and damp heat).

## **Marking of product**

Telemecanique – Schneider Electric– Type designation

## **Periodical assessment**

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval is complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routines (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer’s product type marking and Type Approval Certificate.

Assessment to be performed at 1.5 and 3 years and at renewal.

END OF CERTIFICATE