

EU RO MUTUAL RECOGNITION TYPE APPROVAL CERTIFICATE

This Certificate is issued to

Schneider Electric Industries S.A.S.
Eybens, Isere, France

for

Electrical/Electronic Relays

with type designation(s)

Tesys D LRD3 / LR3D3

The product is found to comply with

EU RO Mutual Recognition Technical Requirements for Electrical/Electronic Relays

Intended service

Thermal overload relay with differetial and non differential type for installation in enclosures onboard ship and offshore units

This Certificate is valid until **2023-12-18**.

Issued at **Høvik** on **2018-12-19**

DNV GL local station: **Marseille**

Approval Engineer: **Nicolay Horn**

for **DNV GL**

Marta Alonso Pontes
Head of Section



Product description

Thermal overload relay with differetial 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

Manufactured by

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

Application/Limitation

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.

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.

Job Id: **262.4-000149-1**
Certificate No: **MRE000000J**

Test reports:

Schneider test report no. 200903629_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

Marking of product

Telemecanique – Schneider Electric– Type designation

Other Conditions

Electrical tests after EU RO MR Technical Requirements – Electrical/Electronic Relays (Type tests after IEC 60947-4-1 (2009) + A1:2012. Environmental tests after IACS E10 rev.6 Oct. 2014, (Power supply variation, power supply failor, dielectric, insulation, inclination, vibration, cold dry heat and damp heat)).

Environmental test parameters:

Temperature:	-25 °C and 70 °C
Vibration:	± 1mm / 0.7g
EMC:	General power zone
Enclosure:	IP20

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 tests (RT) checked (if not available tests RT to be carried out).
- Review of type approval documentation.
- Review of possible change in design, materials and performance.
- Ensure traceability between manufacturer's product marking and the DNVGL EU MR Type Approval Certificate.

Assessment to be performed annually.

END OF CERTIFICATE