

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Overcurrent- and Short-Circuit Relay

with type designation(s)
LR9-D & LR9-F

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

Application :

Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.

Issued at **Høvik** on **2020-10-22**

for **DNV GL**

This Certificate is valid until **2024-06-30**.

DNV GL local station: **France CMC**

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: **262.1-001316-6**
Certificate No: **TAE00003NG**
Revision No: **1**

Name and place of manufacturer

Schneider Electric France, 6-8 rue de Bailly – B.P. 97812
21078 Dijon Cedex, France

Product description

3 pole electronic thermal overload relays of type LR9-D __ and LR9 F.

Type designation	Tripping Class	Relay setting range (A)	Rated insulation voltage (V)	Supply voltage
LR9-D5367	10	60-100	1000	24-600 VAC, 24-440VDC
LR9-D5369	10	90-150	1000	24-600 VAC, 24-440VDC
LR9-D5567	20	60-100	1000	24-600 VAC, 24-440VDC
LR9-D5569	20	90-150	1000	24-600 VAC, 24-440VDC
LR9-D67	10 or 20	60-100	1000	24-600 VAC, 24-440VDC
LR9-D69	10 or 20	90-150	1000	24-600 VAC, 24-440VDC
LR9-F5357	10	30-50	1000	24-600 VAC, 24-440VDC
LR9-F5363	10	48-80	1000	24-600 VAC, 24-440VDC
LR9-F5367	10	60-100	1000	24-600 VAC, 24-440VDC
LR9-F5369	10	90-150	1000	24-600 VAC, 24-440VDC
LR9-F5371	10	132-220	1000	24-600 VAC, 24-440VDC
LR9-F7375	10	200-330	1000	24-600 VAC, 24-440VDC
LR9-F7379	10	300-500	1000	24-600 VAC, 24-440VDC
LR9-F7381	10	380-630	1000	24-600 VAC, 24-440VDC
LR9-F5557	20	30-50	1000	24-600 VAC, 24-440VDC
LR9-F5563	20	48-80	1000	24-600 VAC, 24-440VDC
LR9-F5567	20	60-100	1000	24-600 VAC, 24-440VDC
LR9-F5569	20	90-150	1000	24-600 VAC, 24-440VDC
LR9-F5371	20	132-220	1000	24-600 VAC, 24-440VDC
LR9-F7575	20	200-330	1000	24-600 VAC, 24-440VDC
LR9-F7579	20	300-500	1000	24-600 VAC, 24-440VDC
LR9-F7581	20	380-630	1000	24-600 VAC, 24-440VDC
LR9-F57	10 or 20	30-50	1000	24-600 VAC, 24-440VDC
LR9-F63	10 or 20	48-80	1000	24-600 VAC, 24-440VDC
LR9-F67	10 or 20	60-100	1000	24-600 VAC, 24-440VDC
LR9-F69	10 or 20	90-150	1000	24-600 VAC, 24-440VDC
LR9-F71	10 or 20	132-220	1000	24-600 VAC, 24-440VDC
LR9-F75	10 or 20	200-330	1000	24-600 VAC, 24-440VDC
LR9-F79	10 or 20	300-500	1000	24-600 VAC, 24-440VDC
LR9-F81	10 or 20	380-630	1000	24-600 VAC, 24-440VDC

Application/Limitation

Thermal overload relays for use with contactors for installation in enclosures onboard ship and mobile offshore units

Location Classes:

Temperature: B, Humidity: B, Vibration: A, EMC: A, Enclosure: IP20,

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Type Approval documentation

Technical info:

"TeSys protection components REF: PS-060302", Telemecanique datasheet. Annex#3-PS-060301, part of letter dated 2006-03-13.

Test reports:

SNAS Test report no. 20AAX0203 dated 2020-10-13.
CQC test certificates no. CN31937 & CN31938 idated 2014-10-15.
Schneider Electric report nos. 054-01 issued 2001-07-02, 055-01 dated 2001-06-21, 152-03 & 153-03, issued 2003-08-04, 157-03 issued 2003-11-28, 319-03 issued 2003-08-07, 582-03 issued 2003-11-28, GV10075A issued 2001-08-30, GV10075A issued 2001-08-30, EN950062 issued 1995-11-30. Climatic test report nos. CLIM030102-1 /2 /3 & CLIM030104-1/ 2 /3 issued September 2004, no. G0011081A issued November 2000 and no. 2005-0001-00-F issued 2005-02-05.

Tests carried out

Type tests in accordance with IEC 60947-4-1. Environmental tests as vibration & shock, inclination, cold Humidity, power supply variation and Power supply failure.

Marking of product

Schneider electric / Telemecanique and 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 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 2 and 3.5 year and at renewal.

END OF CERTIFICATE