



Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Schneider Electric Industries SAS
Address	31 Rue Pierre Mendes France, Eybens, Cedex 9, Grenoble, 38050, France
Place of Production	Schneider (Thailand) Ltd. 540 Soi 9 Bangpoo Industrial Estate, Sukhumvit Road, Muang District, Samutprakarn, 10280, Thailand
Place of Production	Schneider Electric France 6-8 Rue du Bailly, Dijon Cedex, 21078, France
Type	Relays - Thermal & Magnetic With Oil Dash Pot
Description	3-pole thermal overload relay and accessories For detailed product description, pls. refer to appendix.
Trade Name	TeSys LRD01-35, LR3D01-35, LAD 7B106, LAD 7C1, LAD 7C2, LAD 703
Application	Marine, Offshore and Industrial applications for use in environmental categories ENV1, ENV2 and ENV3, as defined in Lloyd's Register Type Approval System, Test Specification Number 1 – December 2002.
Specified Standard	IEC 60947-4-1: 2018 IEC 60947-5-1: 2016

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Ratings	For detailed ratings, pls. refer to appendix.
Other Conditions	<p>Specific Conditions of Use as stated in applicable Ex-certificates and the conditions of the LR Rules & Regulations for the Classification of Ships, Part 6, Chapter 2 shall be observed when installed in hazardous areas. The Ex-certification does not form part of this certificate.</p> <p>Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.</p> <p>If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.</p>

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 17-20028

The Design Appraisal Document HPC1662184-22/MK and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

DESCRIPTION

3-pole thermal overload relays:

TeSys LR① ② ③

① Load

D Balanced load, differential type, sensitive to phase loosing

3D Unbalanced load, non-differential type, non-sensitive to phase loosing

② Thermal trip setting range suffix

③ Type of terminal connection (power/control)

None screw/screw

3 spring/spring (not for LRD 32 and LRD 35)

6 ring lugs/ring lugs

Accessories:

LAD 7B106 terminal block for clip mounting LRD 01-35 and LR3D 01-35

LAD 7C1 Pre-wiring kit of relay N/C contact for LRD 01-35 and LR3D 01-35 to the contactor

LAD 7C2 Pre-wiring kit of relay N/C contact for LRD 01-35 and LR3D01-35 to the contactor

LAD 703① Remote stop or electrical reset device

① Control circuit voltage

J 12 V dc

B 24 V dc, 24 V ac/ 50/60 Hz

E 48 V dc, 48 V ac/ 50/60 Hz

DD 96 V dc

F 110 V dc, 110 V ac/ 50/60 Hz

M 220/230 V dc, 220/230 V ac/ 50/60 Hz

Q 380/440 V ac/ 50/60 Hz

N 415/440 V ac/ 50/60 Hz

RATINGS

Thermal Relay Setting Range [A]	Suffix	Rated Insulation Voltage (Ui) [V]	Tripping Class [A]
0.10 – 0.16	01	690	10
0.16 – 0.25	02	690	10
0.25 – 0.40	03	690	10
0.40 – 0.63	04	690	10
0.63 – 1	05	690	10
1 – 1.6	06	690	10
1.6 – 2.5	07	690	10



RATINGS (continued)

Thermal Relay Setting Range [A]	Suffix	Rated Insulation Voltage (Ui) [V]	Tripping Class [A]
2.5 – 4	08	690	10
4 – 6	10	690	10
5.5 – 8	12	690	10
7 – 10	14	690	10
9 – 13	16	690	10
12 – 18	21	690	10
16 – 24	22	690	10
23 – 32	32	690	10
30 - 38	35	690	10