

TYPE APPROVAL CERTIFICATE

Certificate No:
TAE000011A
Revision No:
1

This is to certify:

That the Contactor

with type designation(s)
LC1D115, LC2D115, LC1D115004, LCD2D115004, LC1D150, LC2D150

Issued to

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

Type	Rated voltage (V)	Rated current (A)	Frequency (Hz)
LC1D115, LC2D115, LC1D115004, LCD2D115004	Up to 1000	250	50 - 60
LC1D150, LC2D150	Up to 1000	250	50 - 60

Issued at **Høvik** on **2021-08-25**

for **DNV**

This Certificate is valid until **2026-03-28**.

DNV local station: **France CMC**

Approval Engineer: **Nicolay Horn**

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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Name and place of manufacture

Schneider Electric, a.s.
 Cizovska 447
 397 01 Pisek
 Czech Republic

Product description

Basic product type :
 LC1 – AC or DC coil single contactor*
 LC2 – AC or DC coil reversing contactor*

Size:
 D115 (3 poles)
 D115004 (4 poles)
 D150 (3 poles)

* DC coil only for the 3 poles contactors

Electrical ratings:

Type designation	Ith	Ue Utilization category	230 V	400V	440V	500V	690V	1000V
LC1/LC2 -D115 -D115004	250 A	Ie (AC-3)	96A	97A	115A	106A	82,33A	46A
		Ie (AC-4)	80A	80,84A	95,84A	88,34A	68,61A	38,34A
		Ie (AC-1)	250 A					
LC1/LC2 -D150	250 A	Ie (AC-3)	123,1A	132A	150A	128A	103A	53 A
		Ie (AC-4)	102,6A	110A	125A	106,7A	85,84A	44,17A
		Ie (AC-1)	250 A					

Rated conditional short-circuit current:

Type designation	Prospective short-circuit current (kA)		SCPD gG Fuse
LC1/LC2-D115 LC1/LC2-D115004	I _r (690 V)	5	200A
	I _q (690 V)		
	I _r (1000 V)	3	
	I _q (1000 V)		
LC1/LC2-D150	I _r (500 V)	10	250A
	I _q (500 V)		
	I _r (690 V)	5	
	I _q (690 V)		
	I _r (1000 V)	3	
	I _q (1000 V)		

Main circuit:

Rated impulse withstand voltage U_{imp}: 8 kV
 Rated insulation voltage U_i: 1000 V AC

Auxiliary circuit:

Rated impulse withstand voltage U_{imp}: 6 kV
 Rated insulation voltage of auxiliary circuits U_i: 690 V

Application/Limitation

Temperature class : B
 Humidity class : B
 Vibration class: A

Type Approval documentation

Documentation and test reports :

LC1D115-150_HU-002614
28249868_001_Summary_report
28249869_001
28249870_001_
LC1D115-150_JSK20210520

CB test certificate
Summary test report IEC
Test report IEC 60947-4-1
Test report IEC 60947-5-1
Product Description For China Compulsory Certification
TeSys catalogue 2020 – Ch B8

Environmental test reports accordingly

Tests carried out

Guidelines for the Performance of Type Approvals Part 2, Edition 2003, IEC 60947-4-1 (2018), IEC 60947-5-1 (2016)

Marking of product

Schneider Electric – Type designation – Manufacturing place

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are 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 2 and 3.5 year and at renewal.

END OF CERTIFICATE