



TYPE APPROVAL CERTIFICATE

Certificate no.:
TAE000033T
Revision No:
2

This is to certify:
that the Contactor

with type designation(s)
LC1D40A, LC2D40A, LC1D50A, LC2D50A, LC1D65A, LC2D65A, LC1D80A, LC2D80A, LC1DT60A, LC1DT80A

issued to
Schneider Electric Industries SAS
Eybens, France

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft
IEC 60947

Application:

Contactors and reversing / pole-changing contactors with ac control circuit for installation in enclosures onboard ship and mobile offshore units

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

Rated voltage (V) Up to 600 / 690
Rated current (A) 60 to 80
Frequency (Hz) 50 - 60

Issued at **Høvik** on **2025-08-15**

This Certificate is valid until **2027-12-31**.

DNV local unit: **France CMC**

Approval Engineer: **Qiang William Guo**



for **DNV**

Digitally signed by: Dariusz Lesniewski
Location: DNV SE, Germany

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 USD 300 000.

Name and place of manufacturer

Schneider Electric France 2 Rue du Pont Vert, 27100 Le Vaudreuil, France	PT. Schneider Electric Manufacturing Batam Batamindo Industrial Park, Lot 4, Muka Kuning Batam, 29433, Indonesia
Schneider Shanghai Industrial Control Co., Ltd 629 Sui De Road, Pu Tuo District, Shanghai, P.R.C	

Product description

Single contactors (LC1) and reversing contactor (LC2) with ac or dc coils electromechanical or electronic. Contactor equipped with one NO and one NC contact.

Rated insulation voltage (Ui): 600/690V *
 Rated impulse voltage (Uimp): 6kV

Electrical ratings:

Type designation	Ith	Ue Utilization category	230 V	400V	440V	500V	690V*
LC1/LC2D40A	60 A	Ie (AC-4)	38 A	35 A	40 A	33 A	21 A
		Ie (AC-3)	38 A	35 A	40 A	33 A	32 A
		Ie (AC-3e)	38 A	35 A	40 A	33 A	32 A
		Ie (AC-1)	60 A				
LC1/LC2D50A	80 A	Ie (AC-4)	51 A	41 A	50 A	33 A	21 A
		Ie (AC-3)	51 A	41 A	50 A	44 A	35 A
		Ie (AC-3e)	51 A	41 A	50 A	44 A	35 A
		Ie (AC-1)	80 A				
LC1/LC2D65A	80 A	Ie (AC-4)	61 A	55 A	50 A	33 A	21 A
		Ie (AC-3)	61 A	55 A	65 A	53 A	39 A
		Ie (AC-3e)	61 A	55 A	65 A	53 A	39 A
		Ie (AC-1)	80 A				
LC1/LC2D80A	80 A	Ie (AC-4)	61 A	55 A	50 A	33 A	21 A
		Ie (AC-3)	80 A	80 A	66 A	53 A	39 A
		Ie (AC-3e)	80 A	80 A	66 A	53 A	39 A
		Ie (AC-1)	80 A				
LC1DT60A	60 A	Ie (AC-1)	60 A				
LC1DT80A	80 A	Ie (AC-1)	80 A				

Rated conditional short-circuit current:

Type designation	Prospective short-circuit current (kA)		SCPD
LC1/LC2D40A	I _r (440V)	3	40 A aM fuse
	I _q (440V)	50	
	I _r (690V)*	3	
	I _q (690 V)*	3	
LC1/LC2D50A	I _r (440V)	3	63 A aM fuse
	I _q (440V)	50	
	I _r (690V)*	3	
	I _q (690 V)*	3	
LC1/LC2D65A LC1/LC2D80A	I _r (440V)	3	63 A aM fuse 80 A aM fuse
	I _q (440V)	50	
	I _r (690V)*	3	
	I _q (690 V)*	3	
LC1DT60A	I _q (690V)	3	125 A gG fuse
	I _r (690V)*	3	

LC1DT80A	Iq (690V)	5	125 A gG fuse
	Ir (690V)*	5	

* See application / limitation

Application/Limitation

With Uimp = 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:

Temperature class	D
Humidity class	B
Vibration class	A
EMC class	A

Type Approval documentation

Documentation	Document / Report No.	Date	Note
Technical Documentation	TeSys D, D Green, SK, K, SKGC, GC, GY, GF – Technical Data for Designers		Part of catalogue
Technical Documentation	TeSys D Contactors – Marine Certification File, Part 1, Item 3 “Electrical ratings”	2008-11-26	
Technical Documentation	TeSys D Contactors – Marine Certification File, Part 4 (Binder 1/1 & 1/2)	2008-11-26	
Test Report	CN211 HUT 002	2022-07-20	TÜV
Test Report	CN215DQ4 002	2022-05-13	TÜV
Test Report	CN21EYYe 001	2021-12-17	TÜV
Test Report	CN21ESZZ 002	2022-07-20	TÜV
Test Report	CN216XSW 001	2021-11-26	TÜV
Test Report	CN212GAW 002	2022-07-20	TÜV
Test Report	CN2182N3	2021-11-26	TÜV
Test Report	21AAS01P04D31-00255	2021-11-22	STIE
Test Report	201703851_002, 003, 004	2017-09-01	
Test Report	201604841_061, 062, 063	2017-01-12 & 13	
Test Report	201604841_016	2017-02-24	
Test Report	2426-46-TL3-1 & 2426-46-TL3-2	2017-12-20	
Test Report	143029-688903A2 & 143029-688903B2	2016-11-30	
Test Report	144414-692749	2017-01-16	
Test Report	146109-698338	2017-01-16	
Test Report	150529-710258 & 155413-720935	2018-01-24 & 2018-07-02	
Test Report	150698-710269	2018-01-24	
Test Report	150697-709694	2018-01-24	
Test Report	128422-665184-B00	2014-03-03	
Test Report	128422-665184-B01 to B07	2015-03-03	
Test Report	128422-665184-A00	2014-03-03	
Test Report	128422-665184-A01 to A07	2015-03-03	
Certificate	FR 665184B_M2	2018-03-20	
Certificate	FR 665184A_M2	2018-03-20	
Certificate	FR 700311_M2	2018-08-29	

Tests carried out

Electrical tests after IEC 60947-4-1:2023 and IEC 60947-5-1:2024

Environmental tests after DNV-CG-0339 August 2021: (Power supply variation, power supply failure, dielectric, insulation, inclination, vibration, cold, dry heat and damp heat and EMC).

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