TYPE APPROVAL CERTIFICATE

Certificate no.:
TAE000033S
Revision No:
2

This is to certify:

that the Contactor

with type designation(s)
Tesys LC1-D _ _ / LC2-D _ _

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)	**600 / 690**
Rated current (A)	**9 to 40**
Frequency (Hz)	**50 - 60**

Issued at **Høvik** on **2026-03-04**

This Certificate is valid until **2027-12-31**.
DNV local unit: **France CMC**

Approval Engineer: **Qiang William Guo**

for **DNV**

This document has been digitally signed and will therefore not have handwritten signature

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

Contactor and auxiliary contactor: Schneider Electric France 2 Rue du Pont Vert, 27100 Le Vaudreuil, France	Auxiliary contact blocks and accessories: Schneider Electric Industries SA Chasseneuil du Poitou, 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
Schneider Electric Manufacturing (Wuhan) Co., Ltd No 1 , 3rd Road of Fo Zu Ling, Donghu New&High Tech Dev Zone Wu Han, P.R.C	Schneider Electric a. s. Cizovska 447 - 39701 Pisek - Czech Republic

Product description

Electric contactors with ac or dc control circuit with electromechanical or electronic coils of type LC1D _ _ and LC2D _ _ reversing / pole-changing contactors with 3 poles and 4 poles and auxiliary contact blocks. Contactor equipped with 1 NO and one NC contact.

Electrical ratings of 3 poles contactors (LC1D) and reversing contactors (LC2D):

Reference*	Ith	Ue / Ie Utilization category	230V	400V	440V	500V	690V
LC1D09, LC2D09	25A (a)	Ie (AC-3)	8.5A	8.5A	9A	9.2A	6.7A
		Ie (AC-4)	7.1A	7.1A	7.5A	7.7A	5.6A
		Ie (AC-3e)	8.5A	8.5A	9A	9.2A	6.7A
		AC-1	25A(a)				
LC1D12, LC2D12	25A(a)	Ie (AC-3)	11.3A	11.5A	12A	12.4A	8.9A
		Ie (AC-4)	9.42A	9.6A	10A	10.34A	7.42A
		Ie (AC-3e)	11.3A	11.5A	12A	12.4A	8.9A
		AC-1	25A(a)				
LC1D18, LC2D18	32A(b)	Ie (AC-3)	15A	15.5A	18A	16A	11.7A
		Ie (AC-4)	12.5A	12.92A	15A	13.42A	9.75A
		Ie (AC-3e)	15A	15.5A	18A	16A	11.7A
		AC-1	32A(b)				
LC1D25, LC2D25, LC1D323, LC2D323, LC1D383, LC2D383,	40A(b)	Ie (AC-3)	20A	22A	25A	23A	17A
		Ie (AC-4)	16.7A	18.34A	20.84A	19.2A	14.2A
		Ie (AC-3e)	20A	22A	25A	23A	17A
		AC-1	40A(b)				
LC1D32 LC2D32	50A(c)	Ie (AC-3)	27A	29A	32A	28A	21A
		Ie (AC-4)	22.5A	24.2A	20.84	19.2	14.2
		Ie (AC-3e)	27A	29A	32A	28A	21A
		AC-1	50A(c)				
LC1D38 LC2D38	50A	Ie (AC-3)	31.7A	35A	38A	28A	21A
		Ie (AC-4)	26.42A	29.2A	20.84	19.2	14.2
		Ie (AC-3e)	31.7A	35A	38A	28A	21A
		AC-1	50A				

a) except for LC1D/LC2D093, LC1D/LC2D123 : Ith(Ie of AC-1)= 20A
b) except for LC1D/LC2D183, LC1/LC2D253 : Ith(Ie of AC-1) = 25A
c) except for LC1D/LC2D32A : Ith(Ie of AC-1) = 40A

4 poles contactors (LC1D) and reversing contactors (LC2D):

Reference*	Ith	Ue / Ie Utilization category	230V	400V	440V	500V	690V

LC1D098, LC1DT20, LC2DT20	20A(d)	Ie (AC-3)	8.5A	8.5A	9A	9.2A	6.7A
		Ie (AC-4)	7.1A	7.1A	7.5A	7.7A	5.6A
		Ie (AC-3e)	8.5A	8.5A	9A	9.2A	6.7A
		Ie (AC-1)	20A (d)				
LC1D128, LC1DT25, LC2DT25	25A(e)	Ie (AC-3)	11.3A	11.5A	12A	12.4A	8.9A
		Ie (AC-4)	9.42A	9.6A	10A	10.34A	7.42A
		Ie (AC-3e)	11.3A	11.5A	12A	12.4A	8.9A
		Ie (AC-1)	25A (e)				
LC1D188, LC1DT32, LC2DT32	32A	Ie (AC-3)	15A	15.5A	18A	16.1A	11.7A
		Ie (AC-4)	12.5A	12.92A	15A	13.42A	9.75A
		Ie (AC-3e)	15A	15.5A	18A	16.1A	11.7A
		AC-1	32A				
LC1D258, LC1DT40, LC2DT40	40A	Ie (AC-3)	20A	22A	25A	23A	17A
		Ie (AC-4)	16.7A	18.34A	20.84A	19.2A	14.2A
		Ie (AC-3e)	20A	22A	25A	23A	17A
		AC-1	40A				

d) except for D0983, DT203 : Ith(Ie of AC-1) = 18A
e) except for D1283, DT253 : Ith(Ie of AC-1) = 20A

Accessories:

Product name	Reference*
Auxiliary contactor	CAD32 and CAD50
Aux contacts blocks and Accessories	LADN.., LADC.., LAD8N.., LADN..R, LADN..CR LADT, LADS, LADR LAD6K10, LAD4, LAD9

* Reference may be followed by: Suffix 3 = Spring terminals
Suffix 6 = Lug connections
Suffix 9 = Faston connections
Suffix A = Snap in spring connections

Application/limitation

With Uimp = 6 kV the max. rated voltage is 600 V when used in a IT (ship) net. It can be used in applications with directly earthed systems with rated voltage of 400/690 V.

Environmental classes : Temperature D, Humidity B, Vibration A, EMC A

Type Approval documentation

Name	Number	Date
TeSys Technical Data(TeSys D, D Green, SK, K, SKGC, GC, GY, GF – Technical Data for Designers)		
Product description		
TeSys Motors starters Catalogue		2000-01
Electrical type tests -IEC 60947-4-1 & IEC60947-5-1 (VDR test reports)	TFR 242646-1 and 2	2017-12-20
VDR test report	TFR 234353	2017-10-10
VDR test report	TFR 246224	2018-03-20
F- Lab test reports- *Environmen*tal	TFR_201703851_002	2017-09-01
F- Lab test reports	TFR_201703851_003	2017-09-01
F- Lab test reports	RI_201703851_004	2017-09-01
Volta test report	TFR_201604	2017-02-23
Schneider test report	545-00	2001-04
Schneider test report	546-00 and 548-00	2001-06

Schneider test report	547-00	2001-10
Schneider test report	G0010077A	2000-10
Schneider test report	G0010078A	2000-10
Schneider test report	G0010080A	2000-10
Schneider test report	GV 10058B	2001-05-31
TeSys Catalog		2025-02
IECEE CB TEST Certificate	CN71468	2025-04-07
IECEE CB TEST Certificate	CN71360	2025-03-20
IECEE CB TEST Certificate	HU-005485	2025-03-21
IECEE CB TEST Certificate	HU-005486	2025-03-21
Test report IEC60947-5-1	00901-CB2025CQC-120508	2025-03-27
Test report IEC60947-5-1	00901-CB2025CQC-120508	2025-03-12
Test report IEC60947-5-1	CN25QNT2 001	2025-03-16
Test report IEC60947-4-1	CN25HDB6 001	2025-03-17
Test report IEC60947-4-1	CN25DPGC 001	2025-03-16
Test report IEC60947-4-1	CN256ZMP 001	2025-03-17

Tests carried out

Electrical tests after IEC 60947, Environmental tests in accordance with DNV-CG-0339 August 2021 (Power supply variation, power supply failure, EMC, dielectric, insulation, inclination, vibration, cold, dry heat and damp heat).

Marking of product

Telemecanique / Schneider Electric – 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 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 1.5 and 3 year and at renewal.

END OF CERTIFICATE