

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Contactor**

with type designation(s)

Tesys LC1-D _ _ / LC2-D _ _

Issued to

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

is found to comply with

IEC 60947**DNV GL rules for classification – Ships, offshore units, and high speed and light craft****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 GL.****Rated voltage (V) 600 / 690****Rated current (A) 9 to 38****Frequency (Hz) 50 - 60**Issued at **Høvik** on **2018-10-22**This Certificate is valid until **2022-12-31**.for **DNV GL**DNV GL local station: **Marseille**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.



Name and place of manufacturer

Contacteur and auxiliary contacteur:
Schneider Electric Industries SAS
27109 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

Product description

Electric contactors with ac or dc control circuit with electromechanical or electronic coils of type LC1-D _ _ and LC2-D _ _ reversing / pole-changing contactors with 3 poles and 4 poles and auxiliary contact blocks. Contactor equipped with 1 NO and one NC contact.

3 poles contactors (LC1) and reversing contactors (LC2):

Reference	Ith	Ue Ie Utilization category	230V	400V	440V	500V	690V
LC1/LC2-D09 (a)	25A	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
LC1/LC2-D12(a)	25A	Ie (AC-3)	11.3A	11.5A	12A	12.4A	8.9A
		Ie (AC-4)	9.42A	9.6A	10A	10.34A	7.42A
LC1/LC2-D18	32A	Ie (AC-3)	15A	15.5A	18A	16A	11.7A
		Ie (AC-4)	12.5A	12.92A	15A	13.42A	9.75A
LC1/LC2-D183	25A	Ie (AC-3)	15A	15.5A	18A	16 A	11.7A
		Ie (AC-4)	12.5A	12.92A	15A	13.42A	9.75A
LC1/LC2-D25(b)	40A	Ie (AC-3)	20A	22A	25A	23A	17A
		Ie (AC-4)	16.7A	18.34A	20.84A	19.2A	14.2A
LC1/LC2-D32	50A	Ie (AC-3)	27A	29A	32A	28A	21A
		Ie (AC-4)	22.5A	24.2A	20.84A	19.2A	14.2A
LC1/LC2-D323	40A	Ie (AC-3)	20A	22A	25A	23A	17A
		Ie (AC-4)	16.7A	18.34A	20.84A	19.2A	14.2A
LC1/LC2-D38	50A	Ie (AC-3)	31.7A	35A	38A	28A	21A
		Ie (AC-4)	26.42A	29.2A	20.84A	19.2A	14.2A
LC1/LC2-D09(a)	25A	Ie (AC-4)	7.1A	7.1A	7.5A	7.7A	5.6A
		Ie (AC-3)	11.3A	11.5A	12A	12.4A	8.9A

(a) except for D093, D123 : Ith = 20A

(b) except for LC1/LC2-D253 : Ith = 25A

4 poles contactors (LC1) and reversing contactors (LC2):

Reference	Ith	Ue Ie Utilization category	230V	400V	440V	500V	690V
LC1-D098, LC1/LC2-DT20	20A	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
LC1-D128, LC1/LC2-DT25	25A (c)	Ie (AC-3)	11.3A	11.5A	12A	12.4A	8.9A
		Ie (AC-4)	9.42A	9.6A	10A	10.34A	7.42A
LC1-D188, LC1/LC2-DT32	32A	Ie (AC-3)	15A	15.5A	18A	16.1A	11.7A
		Ie (AC-4)	12.5A	12.92A	15A	13.42A	9.75A
LC1-D258, LC1/LC2-DT40	40A	Ie (AC-3)	20A	22A	25A	23A	17A
		Ie (AC-4)	16.7A	18.34A	20.84A	19.2A	14.2A

(c) except for D1283, DT253 : Ith = 20A

Job Id: **262.1-007395-6**
Certificate No: **TAE000033S**

Accessories:

Auxiliary contactor	CAD-32... and CAD-50...
Aux contacts blocks and Accessories	LAD-N, LAD-C, LAD-8N LAD-T, LAD-S, LAD-R LAD-6K10, LAD-4, LAD-9

May be followed by: Suffix 3 = Spring terminals
Suffix 6 = Lug connections
Suffix 9 = Faston 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.

Type Approval documentation

Tests carried out

Electrical tests after IEC 60947, Environmental tests after DNVGL-CG-0339 November 2015 (Power supply variation, power supply failor, 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 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