DNV·GL

Certificate No:
MRE000000G

EU RO MUTUAL RECOGNITION TYPE APPROVAL CERTIFICATE

This Certificate is issued to

Schneider Electric Industries S.A.S.

Eybens, Isere, France

for
Contactors

with type designation(s)
Tesys D LC1/ LC2

The product is found to comply with
EU RO Mutual Recognition Technical Requirements for Contactors

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

Rated Voltage (V)	**600 / 690**
Rated Current (A)	**60-80**
Frequency (Hz)	**50 / 60**

This Certificate is valid until **2023-10-22**.

Issued at **Høvik** on **2018-10-23**
DNV GL local station: **Marseille**

for **DNV GL**

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.

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Job Id: **262.4-000142-1**
Certificate No: **MRE000000G**

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/LC2-D40A	60 A	Ie (AC-3)	38 A	35 A	40 A	33 A	32 A
		Ie (AC-4)	38 A	35 A	40 A	33 A	21 A
		Ie (AC-1)	60 A				
LC1/LC2-D50A	80 A	Ie (AC-3)	51 A	41 A	50 A	44 A	35 A
		Ie (AC-4)	51 A	41 A	50 A	33 A	21 A
		Ie (AC-1)	80 A				
LC1/LC2-D65A	80 A	Ie (AC-3)	61 A	55 A	65 A	53 A	39 A
		Ie (AC-4)	61 A	55 A	50 A	33 A	21 A
		Ie (AC-1)	80 A				
LC1/LC2-D80A	80 A	Ie (AC-3)	80 A	80 A	65 A	53 A	39 A
		Ie (AC-4)	61 A	55 A	50 A	33 A	21 A
		Ie (AC-1)	80 A				
LC1-DT60A	60 A	Ie (AC-1)	60 A				
LC1-DT80A	80 A	Ie (AC-1)	80 A				

Rated conditional short-circuit current:

Type designation	Prospective short-circuit current (kA)		SCPD
LC1/LC2-D40A	Ir (440V)	3	40 A aM fuse
	Iq (440V)	50	
	Ir (690V)*	3	
	Iq (690 V)*	3	
LC1/LC2-D50A	Ir (440V)	3	63 A aM fuse
	Iq (440V)	50	
	Ir (690V)*	3	
	Iq (690 V)*	3	
LC1/LC2-D65A LC1/LC2-D80A	Ir (440V)	3	63 A aM fuse 80 A aM fuse
	Iq (440V)	50	
	Ir (690V)*	3	
	Iq (690 V)*	3	
LC1-DT60A	Iq (690V)	3	125 A gG fuse
	Ir (690V)*	3	
LC1-DT80A	Iq (690V)	5	125 A gG fuse
	Ir (690V)*	5	

* See application / limitation

Manufactured by

Schneider Electric Industries SAS
Le Vaudreuil, France

PT. Schneider Electric Manufacturing Batam
Batamindo Industrial Park, Lot 4, Muka Kuning
Batam, 29433, Indonesia

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

Marking of product

Telemecanique / Schneider Electric – Type designation

Other Conditions

Electrical tests after IEC 60947, Environmental tests after DNVGL-CG-0339 Novemberl 2015 (Power supply variation, power supply failor, dielectric, insulation, inclination, vibration, cold, dry heat and damp heat).

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 RT to be carried out).
- Review of type approval documentation.
- Review of possible change in design, materials and performance.
- Ensure traceability between manufacturer's product marking and the DNVGL EU MR Type Approval Certificate.

Assessment to be performed annually and at renewal.

END OF CERTIFICATE