

# TYPE APPROVAL CERTIFICATE

Certificate no.:  
**TAE00004Z8**  
Revision No:  
**1**

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

with type designation(s)  
**TeSys Deca - LC1D115A, LC1D150A, LC1DT200A, LC1D115...C, LC1D150...C, LC1D170...C**

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 60947-4-1**

## Application:

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.**

**Rated voltage (V) 220-1000**  
**Rated current (A) 115-160 (at 440VAC)**  
**Frequency (Hz) 50/60**

Issued at **Høvik** on **2025-10-12**

This Certificate is valid until **2029-12-05**.  
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 manufacture

SCHNEIDER SHANGHAI APPARATUS PARTS MANUFACTURE CO., LTD. PUTUO BRANCH  
 BLOCK 2, ZONE A, 629 SUIDE ROAD, PUTUO DISTRICT, SHANGHAI, CHINA

### Product description

Electric Contactors controlled by ac/dc electronic coils with 3 poles or 4 poles and integrated auxiliary contacts.

Ratings: these LC1D Contactors have AC-1, AC-3, AC-3e and AC-4 ratings up to 1000Vac.

Two Auxiliary Contacts are embedded, 1x NO, 1x NC, they have AC-15 ratings up to 600Vac and DC-13 ratings up to 600Vdc.

#### Ratings for International versions (3P: D115A, D150A, 4P: DT200A)

Reference	Ith (A)=AC-1	Ue Pe - Ie Utilization category	230V	400V	415V	440V	500V	690V	1000V
LC1D115A, LC1DT200A	250	Pe AC-3 (Kw)	30	55	59	75	75	80	65
		Pe AC-3e (Kw)	30	55	59	75	75	80	65
		Pe AC-4 (Kw)	30	55	55	55	63	65	50
		Ie AC-3 (A)	96	97	100	115	106	82	46
		Ie AC-3e (A)	96	97	100	115	106	82	46
		Ie AC-4 (A)	96	97	93	88	89	66	38
		Ie AC-1 (A)	250						
LC1D150A,	250	Pe AC-3 (Kw)	40	75	80	90	90	100	75
		Pe AC-3e (Kw)	40	75	80	90	90	100	75
		Pe AC-4 (Kw)	37	75	75	75	75	80	65
		Ie AC-3 (A)	124	132	136	150	128	103	53
		Ie AC-3e (A)	124	132	136	150	128	103	53
		Ie AC-4 (A)	115	132	127	120	106	82	44
		Ie AC-1 (A)	250						

#### Ratings for Chinese versions (3P: D115...C, D150...C, D170...C)

Reference	Ith (A)	Ue Pe - Ie	220V	230 V	240V	380V	400V	415V	440V	500V	660V	690V	1000V
LC1D115...C	250	Pe AC-3 (Kw)	30	30	30	55	55	59	75	75	80	80	65
		Pe AC-3e (Kw)	30	30	30	55	55	59	75	75	80	80	65
		Pe AC-4 (Kw)	30	30	30	55	55	55	55	63	65	65	50
		Ie AC-3 (A)	100	96	96	102	97	100	115	106	86	82	46
		Ie AC-3e (A)	100	96	96	102	97	100	115	106	86	82	46
		Ie AC-4 (A)	100	96	96	102	97	93	88	89	69	66	38
		Ie AC-1 (A)	250										
LC1D150...C	250	Pe AC-3 (Kw)	40	40	40	75	75	80	90	90	100	100	75
		Pe AC-3e (Kw)	40	40	40	75	75	80	90	90	100	100	75
		Pe AC-4 (Kw)	37	37	37	75	75	75	75	75	80	80	65
		Ie AC-3 (A)	130	124	124	139	132	136	150	128	108	103	53
		Ie AC-3e (A)	130	124	124	139	132	136	150	128	108	103	53
		Ie AC-4 (A)	120	115	115	139	132	127	120	106	86	82	44
		Ie AC-1 (A)	250										

LC1D170...C	250	Pe AC-3 (Kw)	55	55	55	90	90	90	100	110	110	110	75
		Pe AC-3e (Kw)	55	55	55	90	90	90	100	110	110	110	75
		Pe AC-4 (Kw)	45	45	45	90	90	75	75	90	90	90	65
		Ie AC-3 (A)	176	169	169	168	160	154	160	156	118	113	53
		Ie AC-3e (A)	176	169	169	168	160	154	160	156	118	113	53
		Ie AC-4 (A)	145	140	140	168	160	127	120	128	97	93	44
		Ie AC-1 (A)	250										

### 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.  
 The installation manual from manufacture shall be observed and followed.

### Type Approval documentation

Documentation	Date
BRU18478-00_IS_Kylin-CTR-Int	2024-07-26
CB_FR_719684	2024-07-26
ID_Kylin-Contactors-Fr4b_Marine_V2	2024-07-26
ISO IEC 17025 certificate regarding E10	2024-07-26
CNAS Certificate EN	2024-07-26
ISO9K_SSAP	2024-07-26
TR_4-1_24119Y90011-01	2024-07-26
TR_5-1_24119Y90011-02	2024-07-26
ur-e10rev9_TestPlan_Kylin_v2_Draft	2024-07-26
ur-e10rev9_TestPlan_Kylin_v3_accepted-DNV	2024/10/30
Marine_TR_24119Y30035	2024/10/30
Marine_TR_24119Y30035	2024-10-30
25119Y90025-01	2025-06-16
FR_721879	2025-06-18
25119Y90025-02	2025-06-16

### Tests carried out

Electrical test according to IEC 60947-4-1:2023 (Ed5), Environmental test according to IACS E10 Rev.9 Aug. 2023 (External power supply failure, Power supply variations, dry heat, damp heat, cold, vibration, Inclination, insulation resistance, high voltage test)

### Marking of product

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 periodical 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
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment to be performed at 2 and 3.5 year and at renewal.