Certificate No: LR2620654TA
Issue Date: 02/08/2025
Expiry Date: 01/08/2030

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	**Schneider Electric Industries SAS**
Address	31 Rue Pierre Mendès-France, Eybens, 38320, France
Place of Production	Schneider Electric France 2 rue du Pont Vert, Le Vaudreuil, 27109, France
Type	Contactors
Description	3 pole / 4 pole contactor TeSys D Types: LC1D40A, LC2D40A, LC1D50A, LC2D50A, LC1D65A, LC2D65A, LC1D80A, LC2D80A (3 pole) LC1DT60A, LC2DT60A, LC1DT80A, LC2 DT80A (4 pole) For detailed product description, pls. refer to appendix.
Trade Name	TeSys D
Application	Marine, Offshore and Industrial applications for use in environmental categories ENV1, ENV2 and ENV3 as defined in Lloyd's Register Type Approval System, Test Specification Number 1 – July 2024.
Specified Standard	IEC 60947-1: 2020/COR2:2024 IEC 60947-4-1: 2023 IEC 60947-5-1: 2024

CHETAN WAGH

Senior Specialist Electrical & Control to Lloyd's Register Marine and Offshore India LLP

Units 1702-1704, 17th Floor (Level-13), Building Q2, Aurum Q Parc; Gen 4/1 TTC, Thane-Belapur Road, Ghansoli, Navi Mumbai, 400710, India

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IACS E10 Rev. 10 / Aug 2024

Ratings For detailed ratings, pls. refer to appendix.

Additional Tests Low temperature test (-25 °C / 16 h)

Other Conditions Type Approval does not eliminate the need (as required by LR Rules) the requirements for further review or for the product to be further inspected and/ or surveyed to be installed in ships classed or intended to be classed with LR.

If the specified standards are amended during the validity of this certificate, the product is to be reapproved prior to it being supplied to vessels to which the amended standards apply.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Marine and Offshore India LLP of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: LR21449759TA

The Design Appraisal Document TSO-25-040290-E-01 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

DESCRIPTION

Type designation:

LC1	D65	A	6	5	BD	S304
(1)	(2)	(3)	(4)	(5)	(6)	(7)

Possible values:

(1): Basic product type:
LC1: single contactor
LC2: reversing contactor

(2): Size:
D40(3 poles)
D50(3 poles)
D65(3 poles)
D80(3 poles),not provided with dc coils
DT60(4 poles)
DT80(4 poles)

(3): Indication:
A: Tesys contactor range

(4): Type of connection: (Power / Control)
Blank: "Everlink" Connector / screws
3: "Everlink" Connector/spring connections: not provided for electronic ac/dc coils
6: Ring lugs Connector /Ring lugs Connector

(5): Indicates front cover presence
Blank: Standard treatment (with cover)
5: without removable front cover

(6): Indicates Coil Voltage Code
See table below

(7): Postfix
Blank: for normal products
S304: Postfix S304 is only applicable for LC1D65A6BDS304

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Coil code tables :

AC coil:

Coil code	Us (V)	Frequency	Coil code	Us (V)	Frequency
J5	12	50 Hz	E5 (*)	48	50 Hz
B5 (*)	24	50 Hz	P5 (*)	230	50 Hz
D5 (*)	42	50 Hz	P7	230	50/60 Hz
B6	24	60 Hz	U7	240	50/60 Hz
B7	24	50/60 Hz	W7	277	60 Hz
C7	32	50/60 Hz	Q7	380	50/60 Hz
D7	42	50/60 Hz	V7	400	50/60 Hz
E7	48	50/60 Hz	N7	415	50/60 Hz
K7	100	50/60 Hz	R7	440	50/60 Hz
F7	110	50/60 Hz	T7	480	60 Hz
FE7	115	50/60 Hz	S7	500	50/60 Hz
G7	120	60 Hz	SC7	575	50/60 Hz
FC7	127	50/60 Hz	X7	600	50/60 Hz
L7	200	50/60 Hz	YC7	660	50/60 Hz
LE7	208	60 Hz	Y7	690	50/60 Hz
M7	220	50/60 Hz			

(*) Note: a.m. B5, D5, E5 and P5 referenced coils are respectively identical to B7, D7, E7 and P7 ones except for rated frequency and markings.

DC Coil:

Coil code	Us (V)	Frequency	Coil code	Us (V)	Frequency
JD	12	DC	FD	110	DC
BD	24	DC	GD	125	DC
CD	36	DC	MD	220	DC
ED	48	DC	UD	250	DC
ND	60	DC	RD	440	DC
SD	72	DC			

Electronic Coils:

Coil code	Us (V)	Frequency
BBE	24	DC
BNE	24-60	50/60 Hz and DC
EHE	48-130	50/60 Hz and DC
KUE	100-250	50/60 Hz and DC

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RATINGS

Reference	Ith	Ue / Ie / Utilization category	230V	400V	440V	500V	690V
LC1D40A, LC2D40A	60A	Ie (AC-3)	38A	35A	40A	33A	32A
		Ie (AC-4)	38A	35A	40A	33A	21A
		Ie (AC-3e)	38A	35A	40A	33A	32A
		Ie (AC-1)	60A				
LC1D50A, LC2D50A	80A	Ie (AC-3)	51A	41A	50A	44A	35A
		Ie (AC-4)	51A	41A	50A	33A	21A
		Ie (AC-3e)	51A	41A	50A	44A	35A
		Ie (AC-1)	80A				
LC1D65A, LC2D65A	80A	Ie (AC-3)	61A	55A	65A	53A	39A
		Ie (AC-4)	61A	55A	50A	33A	21A
		Ie (AC-3e)	61A	55A	65A	53A	39A
		Ie (AC-1)	80A				
LC1D65A6BDS304	91A (50°C)	Ie (AC-3)	61A	55A	65A	53A	39A
		Ie (AC-4)	61A	55A	50A	33A	21A
		Ie (AC-3e)	61A	55A	65A	53A	39A
		Ie (AC-1)	91A				
LC1D80A, LC2D80A	80A	Ie (AC-3)	80A	80A	66A	53A	39A
		Ie (AC-4)	61A	55A	50A	33A	21A
		Ie (AC-3e)	61A	55A	66A	53A	39A
		Ie (AC-1)	80A				
LC1DT60A	60A	Ie (AC-1)	60A				
		Ie (AC-3)	38A	35A	40A	33A	32A

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		Ie (AC-3e)	29A	27A	31A	25A	24A
		Ie (AC-4)	32A	29.2A	34A	28A	27A
LC1DT80A	80A	Ie (AC-1)	80A				
		Ie (AC-3)	51A	41A	50A	44A	35A
		Ie (AC-3e)	38A	32A	40A	33A	32A
		Ie (AC-4)	43A	35A	42A	37A	29.2A

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