



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 Usine Angoulême Agriers, ZE Des Agriers, Angoulême, 16021, France
Place of Production	Schneider Electric a.s. Cizovska 447, Pisek, 397 01, Czech Republic
Place of Production	Schneider Electric France 2 rue du Pont Vert, Le Vaudreuil, 27109, France
Type	Motor Starters
Description	Motor Starters TeSys model U – Open Version and accessories LUB12, LUB32, LUB38, LUB120, LUB320, LUB380, LU2B12..., LU2B32..., LU2B38..., LU2BA0..., LU2BB0..., LU2BC0... (... = coil code) For detailed product description, pls. refer to appendix.
Trade Name	TeSys U

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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Application	Marine, Offshore and Industrial applications for use in power distribution zones 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: 2007+A1: 2011+A2: 2014 IEC 60947-6-2: 2002+A1: 2007 IACS E10 Rev. 9 / Aug 2023
Ratings	Rated operational voltage U_e : 230 to 690 VAC Rated operational current I_e : 12 A, 32 A, 38 A Rated operational power: 90 W to 22 kW Number of poles: 3 Rated impulse withstand voltage U_{imp} : 6 kV Rated control supply voltage: 24 to 220 VDC / 24 to 240 VAC Frequency: 50/60 Hz Firmware ASIC number: MPDD for 110-240 V version ASIC number: MPDC for all other versions For detailed ratings, pls. refer to appendix.
Additional Tests	Low temperature test (-25 °C / 16 h)
Other Conditions	Installation to be in accordance with the manufacturer's instructions. 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.

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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: LR21364441TA

The Design Appraisal Document TSO-25-043923-E-01 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

DESCRIPTION

Motor Starters TeSys model U – Open Version and accessories

Types:

LUB12, LUB32, LUB38, LUB120, LUB320, LUB380,
 LU2B12^③, LU2B32^③, LU2B38^③, LU2BA0^③, LU2BB0^③, LU2BC0^③,
 LUCA^{①+③}, LUCB^{①+③}, LUCC^{②+③}, LUCD^{①+③}, LUCM^①BL,
 LU2M32, LU2MB0, LU6M32, LU6MB0,
 LUFN11, LUFN02, LUFN20, LUFV2, LUFW10, LUF00, ASILUFC5,
 LUA1C11, LUA1C110, LUA1C20, LUA1C200, LUA8E20,
 LU9GC3, LU9G02, LU9BN11C, LU9MRC, LU9CC11, LU9BC20, LU9BN11C, LU9M1,
 LU9MR1, LU9MR1C, LUALB1, LUALF1, LUALB10

① Power ratings for Control Unit 3 Phase Motors:

X6	400/440 V – 0,09 kW		
1X	400/440 V – 0,25 kW		
05	400/440 V – 1,5 kW	500 V – 2,2 kW	690 V – 3 kW
12	400/440 V – 5,5 kW	500 V – 5,5 kW	690 V – 9 kW
18	400/440 V – 7,5 kW	500 V – 9 kW	690 V – 15 kW
32	400/440 V – 15 kW	500 V – 15 kW	690 V – 18,5 kW
38	400/440 V – 18,5 kW	500 V – 18,5 kW	690 V – 22 kW

(not available with LUCM)

② Power ratings for Control Unit 1 Phase Motors:

X6	400/440 V – < 0,09 kW	220-240 V – < 0,06 kW
1X	400/440 V – 0,09 kW	220-240 V – 0,06 kW
05	400/440 V – 0,55 kW	220-240 V – 0,37 kW
12	400/440 V – 2,2 kW	220-240 V – 1,5 kW
18	400/440 V – 4 kW	220-240 V – 2,2 kW
32	400/440 V – 7,5 kW	220-240 V – 4 kW

③ Coil Code:

BL	24 VDC
B	24 VAC
	(not available with LU2B38, LU2BC0, LUCA38, LUCB38, LUCD38)
ES	48-72 VDC, 48 VAC
	(not available with LU2B38, LU2BC0, LUCA38, LUCB38, LUCD38)
FU	= 110-220 VDC, 110-240 VAC



RATINGS

Rated operational current AC-43 and AC-44 (IEC 60947-6-2):

	Ith (A)	AC-43			AC-44		
		230 V	440 V	690 V	230 V	440 V	690 V
		Ie (A)	Ie (A)	Ie (A)	Ie (A)	Ie (A)	Ie (A)
LUB12	12	12	12	12	12	12	12
LUB32	32	28.5	28.5	21	28.5	28.5	21
LUB38	38	35	35	24	28.5	28.5	21

OTHER CONDITIONS

Listing of products produced at Schneider Electric France (Le Vaudreuil, FRA)

LUB12, LUB32, LUB38 Power bases, non-reversing (basic control), with terminal block

LUB120, LUB320, LUB380 Power bases, non-reversing (advanced control), without terminal block

LU2B12, LU2B32, LU2B38 Power bases, reversing (basic control), with terminal block

LU2BA0, LU2BB0, LU2BC0 Power bases, reversing (advanced control), without terminal block

LU2M32 Reverser block, vertical mounting, with terminal block

LU2MB0 Reverser block, vertical mounting, without terminal block

LU6M32 Reverser block, side mounting, with terminal block

LU6MB0 Reverser block, side mounting, without terminal block

Listing of products produced at Schneider Electric France (Angoulême, FRA)

LUFN11 Auxiliary contact module, 1 NO & 1 NC contact

LUFN20 Auxiliary contact module, 2 NO contacts

LUFN02 Auxiliary contact module, 2 NC contacts

LUFV2 Function module, indication of motor load, analogue 4-20 mA

LUFW10 Function module, thermal overload alarm, 1 NO contact

ASILUFC5 AS-Interface communication module

LU9GC3 Modbus communication hub

LUFC00 Parallel wiring module

LU9G02 Parallel wiring splitter box

LUCA Standard control unit, class 10 for 3 phases motors

LUCB Advanced control unit, class 10 for 3 phases motors

LUC C Advanced control unit, class 10 for single phases motors

LUCD Advanced control unit, class 20 for 3 phases motors

LUCM Multifunction control unit, class 5 to 30 for single or 3 phases motors

OTHER CONDITIONS

(continued)

Listing of products produced at Schneider Electric a.s. (Pisek, CZ)

LUA1C11	Add-on contact, 1 NO & 1 NC contact
LUA1C110	Add-on contact, 1 NO & 1 NC contact (without terminal block)
LUA1C20	Add-on contact, 2 NO contacts
LUA1C200	Add-on contact, 2 NO contacts (without terminal block)
LU9BC20	Terminal block for LUA1C200
LU9BC11	Terminal block for LUA1C110
LU9BN11	Terminal block for imbedded auxiliary contacts for LUB120, LUB320 or LUB380
LU9M1	Coil terminal block for LU2BA0, LU2BB0, LU2BC0, LU2MB0 or LUM6B0
LU9MR1	Control terminal block for LU6MB0
LU9MR1C	Control terminal block for L2MB0 with LUB120, LUB320 or LUB380
LU9BN11C	Prewired connector (coil - LUB), 1 direction of rotation
LU9MRC	Prewired connector (coil – LU2B), 2 directions of rotation
LUALB1+LUALF1	Limiter disconnecter + cartridge
LUALB10	Disconnecter
LUA8E20	Side block, 2 NO contacts