

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Motor Starter**with type designation(s)
Tesys model U

Issued to

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

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.****Rated voltage (V) 24 ac/dc - 600 ac****Rated current (A) 4.5 to 32****Frequency (Hz) 50 - 60**Issued at **Høvik** on **2019-03-14**This Certificate is valid until **2023-06-30**.DNV GL local station: **Marseille**for **DNV GL**Approval Engineer: **Nicolay Horn**

Trond Sjøvåg
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.



Job Id: **262.1-010578-4**
Certificate No: **TAE00003CM**

Name and place of manufacturer

Schneider Electric France, 20, rue de la Croix
Blanche – B.P. 15
86361 Chasseneuil du Poitou – France

Schneider Electric Industries SAS
Apodaca, NL,
Mexico

Schneider Electric France
Usine Angoulême Agriers
ZE des Agriers
16021 Angoulême - France

Product description

CPS Motor controller and starter with ac control circuit of type LC1/LP1D and LC2/LP2D reversing / pole-changing contactors with 3 or 4 poles and auxiliary contact blocks.

Technical data:

Type designation	
Power Bases	
Base 12 A	LUB12 / LUB120
Base 32 A	LUB32 / LUB320
reverser	LU2Bxx / LU2Mxx / LU6Mxx
Limiter switch	LUA LB1
Rated impulse voltage:	6 kV
Max. operating voltage (IT):	690 V*
Rated operational current 440 V (Ie)	AC 43: 28,5 A AC 44: 21 A
Rated operational current 600 V (Ie)	AC 43: - AC 44: 21 A
Control Units	
Standard control unit	B0: reference LU CA...
Advanced control unit (3-phase)	B11: reference LU CB...
Advanced control unit (3-phase)	B12: reference LU CD...
Advanced control unit (single phase)	B1M: reference LU CC...
Multifunction control Unit	B2: reference LU CM...
Setting range for bases 12 A and 32 A:	0.15 - 0.6 A, 0.35 - 1.4 A, 1.25 - 5 A, 3 - 12 A
Setting range for bases 32 A:	4.5 - 18 A, 8 - 32 A
Control voltage (except B2):	24 V ac/dc, 48 - 60 V ac, 48 - 72 V dc, 110 to 240 V ac/dc
Control voltage for unit B2:	24 V dc

*Max. operating voltage (IT):600V, see application / limitation

Application/Limitation

CPS motor control and starter for installation in enclosures onboard ship and mobile offshore units

The CPS Motor controller and starter is regarded as a component only. When the unit is used for control / protection purposes for motors no product certificate is required. If the unit is used for other control purposes a product certificate acc. to Pt.4 Ch.8 Sec.1 [2.3]and Pt.4 Ch.9 Sec.1 [1.4] can be required. Correct configuration and set up for each delivery to be tested during commissioning after installation.

The max. rated voltage is 600 V when used in IT (ship) net due to $U_{imp}=6$ kV. It can be used in applications with directly earthed systems with rated voltage of 400/690 V.

Location Classes:

Temperature: D, Humidity: B, Vibration: A, Enclosure: IP20, EMC: A

Installation to be in accordance with the manufacturer's instructions.

Type Approval documentation

Tests carried out

Dry Heat Test, Damp Heat Test, Low temperature Test, Vibration test.

Type Tests according to IEC60947-6-2.

Marking of product

Telemecanique and 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 survey 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.

Survey to be performed at 2 and 3.5 year and at renewal.

END OF CERTIFICATE