



# TYPE APPROVAL CERTIFICATE

Certificate no.:  
**TAE00003CM**  
Revision No:  
**1**

**This is to certify:**  
**that the Motor Starter**

with type designation(s)  
**Tesys model U**

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**

## Application:

**Products approved by this certificate are accepted for installation on all vessels classed by DNV**

**Rated voltage (V) 24 ac/dc - 600 ac**  
**Rated current (A) 4.5 to 32**  
**Frequency (Hz) 50 - 60**

Issued at **Høvik** on **2024-08-26**

for **DNV**

This Certificate is valid until **2028-06-29**.  
DNV local unit: **Marseille**

Approval Engineer: **Qiang William Guo**

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 300,000 USD.



## 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 ,Angouleme 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:

<b>Type designation</b>	
<b>Power Bases</b>	
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
<b>Control Units</b>	
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 Uimp=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

Schneider info "TeSys® model U – CPS Motor Controller and starter – Presentation of the offer, Rev 2" issued 2005.

Asefa test reports K11-017-02 dated 2003-10-14, K11-063-02 dated 2002-03-28, K11-190-02 dated 2004-08-09, K11-480-01 dated 2002-02-04, K11-395-01 dated 2003-09-03, K11-245-02 dated 2003-10-06.

Schneider test reports "Records of proving tests nos. 123-02, 126-02, 155-03, 156-03328-01, 329-0, 376-02, 386-02, 394-02, 508-02, 589-02, 590-02 and 590-02 all issued 2004-12-13.

Climatic test reports CLIM030005-1a to CLIM030009-1a, CLIM030004-2a to CLIM030009-2a, CLIM030004-3a to CLIM030009-3a all issued May 2004, Mechanical test reports G0211162-a to G0211166-a all issued May 2004 and VIBR030056-a issued May 2004.

## 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