

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Electric Bus Bar

with type designation(s)
Linergy HK - AK5

Issued to

Schneider Electric Industries SAS
EYBENS, France

is found to comply with

Det Norske Veritas' Rules for Classification of Ships and Mobile Offshore Units

Application :

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

This Certificate is valid until **2018-12-31**.

Issued at **Høvik** on **2015-09-22**

DNV GL local station: **Marseille**

Approval Engineer: **Marta Alonso Pontes**

for **DNV GL**

Marit Laumann
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.

Name and place of manufacturer

CAT PEP21
9 Rue des Cortots
21121 – Fontaine-les-Dijon
FRANCE

Product description

Pre-assembled panel bus bar system
Range: Linergy HK, Product: AK5

Rated insulation voltage:	600 V
Rated operating voltage:	415 V
Rated operating current:	145 A (at 45 deg.C)
Degree of Protection:	IP 20
Rated short circuit current bus-bar:	25 kA
Rated short circuit current plugs & plates:	6 kA
Bus bar dimensions:	12 x 2.8 mm

Type Designation	No.
Bus Bar	AK5 JB 13-
Bus Bar + N	AK5 JB 14-
Tap-offs	AK5 PC --
Mounting plates	AK5 PA --
Width extension plates	AK5 PE --
Cable guides	AK5 GF01

Application/Limitation

For installation inside switchgear and control gear assemblies.

This panel bus bar system is not to be connected directly to main bus bars in the main- and emergency switchboards. (If used, separate short-circuit protection before each AK5 is required.)

Type Approval documentation

Tests carried out

Dielectric, insulation, temperature rise, short-circuit, voltage impulse, mechanical according to IEC 61439-2, vibration test according to DNV.

Marking of product

Telemecanique - AK5 - Type designation - Voltage

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)



Job Id: **262.1-003417-7**
Certificate No: **TAE00000GR**

- Results from Routines (RT) checked (if not available tests according to 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.

Assessment to be performed at least every second year.

END OF CERTIFICATE