



Certificate No:
TAE00004DW

TYPE APPROVAL CERTIFICATE

This is to certify:

That the High Voltage Switchgear and Control Gear Assemblies

with type designation(s)
PIX-V

Issued to

Schneider Electric Industries SAS
GRENOBLE, France

is found to comply with

DNV rules for classification – Ships, offshore units, and high speed and light craft

Application :

HV Power Switchboard for installation onboard ships and mobile offshore units.

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

Rated voltage (V) 12 kV
Rated current (A) up to 4000
Rated frequency (Hz) 50 / 60
Degree of protection

Issued at **Høvik** on **2021-11-09**

This Certificate is valid until **2026-11-08**.

DNV local station: **France CMC**

for **DNV**

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.

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.



Form code: TA 251

Revision: 2021-03

www.dnv.com

Page 1 of 3

Name and place of manufacturer

**SCHNEIDER ELECTRIC
AHM**

Kossuth L.u. 60
H-6090 Kunszentmiklos
Bacs-Kiskun Megye
Hungary

Product description

PIX-V. Medium voltage air insulated power switchboard..

Type:	PIX-V
Rated voltage:	12 kV AC
Rated lightning impulse withstand voltage:	75 kV AC
Rated current at 40 °C ambient:	Up to 4000 A*
Rated frequency:	50 / 60 Hz
Enclosure class:	IP3X / 32* *
Rated peak withstand current:	Up to 100 kA
Rated short time withstand 3sec. I_k :	Up to 40 kA
Arc test 1 sec	Up to 40 kA

*) See comment to max. current Application/limitation

**) See comments to IP degree under Application/limitation.

External dimensions: H: 2130 mm
 W: 650 / 800 / 1000 mm
 D: 1405 - 1605 mm

The power switchboard to be installed /mounted according to manufacturer's installation instructions.

Application/Limitation

Medium voltage switchboard systems of partly partitioned type for use onboard ships and mobile offshore units.

The switchboard system shall be divided into two independent and autonomous installations. Final design and selection of equipment and components to be made in accordance with the applicable Rules for the actual case.

This type approval certificate does not replace the requirement for a DNV product certificate.

Documents and drawings for the actual application as stated in our Rules Pt.4, Ch.8. Sec.1, Table 2 except Short circuit Strength calculation & Internal arc withstanding report shall be submitted for approval in each case.

The IP32 version to be used when installed in ships and offshore units.

The max. current to be derated when installed in a non temperature controlled environment with an ambient temperature up to 45 °C

Circuit breaker HVX12 has its own type approval certificate, see E-12081

Type approval documentation

Tests carried out

Type tests in accordance with IEC 62271-200, Vibration test, Seismic test.

Marking of product

Manufacturers name plate with type and key data in accordance with DNV Rules Pt.4, Ch.8, Sec.4, A 1.1.7.

Periodical assessment

The scope of the periodical assessment survey 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.



Job Id: **262.1-013605-5**
Certificate No: **TAE00004DW**

The main elements of the periodical assessment 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.

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

END OF CERTIFICATE