Certificate no.:
TAE0000508

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Circuit Breaker

with type designation(s)
EvoPacT HVX

issued to
SCHNEIDER ELECTRIC (XIAMEN) SWITCHGEAR EQUIPMENT CO., LTD.
Xiamen City, **China**

is found to comply with

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

Application:

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

Rated voltage (kV)	**12**
Rated current (A)	**up to 4000A**

Issued at **Hamburg** on **2025-03-05**
This Certificate is valid until **2030-03-04**.
DNV local unit: **China South NB**

for **DNV**

Approval Engineer: **Harald Amberger**

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 USD 300 000.

Product description

Medium voltage vacuum circuit breakers, type EvoPacT HVX withdrawable version, designed for switchgear compartments

Ratings		
Rated voltage	U_r	12kV
Rated normal current (40°C)	I_r	630A…4000A
Rated lightning impulse withstands voltage	U_p	75kV
Rated power-frequency withstands voltage	U_d	42kV
Rated frequency	f	50/60Hz
Rated short time withstand current (3 s)	I_k	25…40kA
Rated short-circuit making current	I_p	63…125kA
Rated operating sequence		O - 0.3 s - CO – 15 s - CO
Classification of circuit breaker		Class C2, E2, M2
Further ratings acc. manufacturer documentation		

Application/Limitation

Location Classes:
Temperature: C, Humidity: B, Vibration: A

Operating instruction of the manufacturer to be observed

Type Approval documentation

Tests carried out

Type tests in accordance with IEC 62271-1 & IEC 62271-100: Dielectric performances, temperature-rise, operation performances, mechanical endurance, and shorts-circuit making and breaking.

Environmental tests in accordance with DNVGL-CG-0339.

Marking of product

Acc. IEC 62271-100 subclause 5.10

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)
- Results from Routine Tests (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.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.
END OF CERTIFICATE