



TYPE APPROVAL CERTIFICATE

Certificate No:
TAE000014E
Revision No:
1

This is to certify:

That the Fuse

with type designation(s)
NH - fuse system

Issued to

Mersen France SB S.A.S.
St Bonnet de Mure, Rhone, 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) 500 V AC

Issued at **Høvik** on **2022-10-05**

for **DNV**

This Certificate is valid until **2026-05-25**.

DNV local station: **France CMC**

Approval Engineer: **Ivar Bull**

Frederik Tore Elter
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.



Name and place of manufacturer

Fusetech Kft.
Kaposvár, Guba Sándor u. 38, 7400 Hungary

Product description

NH - fuse system with the NH fuse links sizes 000, 00, 1, 2, 3 (with double indication)
NH00GG50Vxxx, NH00GG50Vxxx; NH1(2)GG50Vxxx, NH2(2)GG50Vxxx, NH3(2)GG50Vxxx

Rated voltage, U_i [V]:	500 AC
Rated current I_e [A]:	2 to 630
Rated frequency (Hz):	45 to 62
Rated breaking capacity (kA):	120
Utilization category:	gG

Application/Limitation

For installation inside switchboards/enclosures onboard ships and offshore units.

Environmental conditions:

Temperature:	B
Humidity:	B
Vibration:	A

Fuse links with insulated and non-insulated gripping lugs must be covered.

Type Approval documentation

Technical documents:

VDE CB test certificates: DE 1- 32350; DE 1- 32369; DE 1- 32371; DE 1- 32372; DE 1- 32373

Tests carried out

IEC 60269-1 (2014); IEC 60269-2-1 (2013);

Marking of product

NH – Type designation - Electrical characteristics.

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) and selected type tests (ref. to applicable class programs) checked (if not available these tests shall 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