

# TYPE APPROVAL CERTIFICATE

**This is to certify:**

**That the Fuse**

with type designation(s)  
**NH - fuse system**

Issued to

**Mersen France SB**  
**SAINT BONNET DE MURE, France**

is found to comply with  
**DNV GL rules for classification – Ships and offshore units**

**Application :**

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

**Voltage class 500 V AC**

This Certificate is valid until **2021-05-26**.

Issued at **Høvik** on **2016-05-27**

DNV GL local station: **Marseille**

for **DNV GL**

Approval Engineer: **Nicolay Horn**

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**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.

Job Id: **262.1-021855-1**  
Certificate No: **TAE000014E**

## 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)  
NH000GG50Vxxx, 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) 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