

Marine & Offshore Division

Certificate number: 03924/E0 BV File number: ACE 03/017/01 Product code: 2645H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to MERSEN FRANCE SB S.A.S SAINT BONNET DE MURE - FRANCE

for the type of product

FUSES / FUSES COMBINATION UNITS (LOW VOLTAGE)

NH00, NH0, NH1, NH2, NH3 series.

Requirements:

BV Rules for the Classification of Steel Ships. IEC 60269-1 (2009)

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 23 Dec 2020

For BUREAU VERITAS,

At BV LYON, on 23 Dec 2015, Jean-Marc Cabuzel

UREAU PARIS 1828 Z ALIONA

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine & Offshore Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: http://www.veristarpm.com/veristarnb/jsp/viewPublicPdfTypec.jsp?id=xxv0f9hztu BV Mod. Ad.E 530 October 2014 This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

<u>1. PRODUCT DESCRIPTION :</u>

Designation/Fuse-link	Rated voltage(V)	Rated current (A)	Breaking capacity (kA)
Knife-Cartridge			
NH00 gG	690	8-100	
NH00 gG	500	125-160	120 kA
			400/500V
NH00 aM	690	16-100	
NH00 aM	500	125-160	
NH0 gG	690	10-100	80 kA
NH0 gG	500	125-160	690V
NH0 aM	690	40-160	
NH1 gG	690	16-200	
NH1 gG	500	224-355	
NH1 aM	690	50-250	
NH2 gG	690	32-315	
NH2 gG	500	355-500	
NH2 aM	690	100-400	
NH3 gG	690	315-500	
NH3 gG	500	630-800	
NH3 aM	690	315-500	
NH3 aM	500	630	

2. DOCUMENTS AND DRAWINGS :

According to documents filed in ACE 03/017/01.

3. TEST REPORTS :

According to test reports filed in ACE 03/017/01.

4. APPLICATION / LIMITATION :

4.1 - BV Rules for the Classification of Steel Ships.

4.2 - Approval also valid for ships to be granted with the notations: AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The above products are to be supplied by **MERSEN France SB S.A.S.** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320.

5.3 - MERSEN France SB S.A.S. has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products :

FUSETECH KFT GUBA SANDOR UTCA 38 7400 KAPOSVAR HUNGARY

<u>6. MARKING OF PRODUCT :</u>

The items prescribed below shall be marked on a easily visible place of fuse surface in an indelible way.

- 1 Rated voltage (V)
- 2 Rated current (A)
- 3 Rated breaking capacity
- 4 Fusing Factor
- 5 Manufacturer's name
- 6 Model N°
- 7 Approved class name.

7. OTHERS :

7.1 - This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the units at any time and that **MERSEN France SB S.A.S.**, will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval. 7.2 - This certificate supersedes the Type Approval Certificate N° 03924/D0 BV issued on 14.Dec.2010. by the Society.

*** END OF CERTIFICATE ***