



MARINE DIVISION

Certificate number: 04316/J1 BV

File number: ACE 03/006/02

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*

**LEGRAND FRANCE- LIMOGES**  
LIMOGES - FRANCE

*for the type of product*

**FUSES / FUSES COMBINATION UNITS (LOW VOLTAGE)**

KNIFE CARTRIDGE FUSE TYPE aM with Visual Indicator.

**Requirements:**

BV Rules for the Classification of Steel Ships.

IEC 60269-1, 2 and 2-1.

*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: 28 Feb 2018**

**For BUREAU VERITAS,**

At BV BORDEAUX, on 15 Nov 2013,

Raphael Garnier



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 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 SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION:

DESIGNATION			Rated Voltage (V)	Rated current (A)	Breaking capacity (kA)	Remarks
Fuse-Link	Fuse-Carrier	Fuse-Base				
<b>Knife Cartridge</b>			500		120	Accessories
<b>Type aM with Visual Indicator</b>						
<b>Size 00</b>	16025 to 16050	19942 19944 19945		40 to 125		199-02 199-09 199-20
<b>Size 0</b>	16535 to 16555	19946 19947		63 to 160		199.02 199.15 199.21
<b>Size 1</b>	17050 to 17065	19948 19949		125 to 250		199.02 199.16 199.22
<b>Size 2</b>	17560 to 17575	19950 19951		200 to 400		199.02 199.17 199.23

### 2. DOCUMENTS AND DRAWINGS:

According to catalogue 2007.

### 3. TEST REPORTS:

Laboratoire d'essais LEGRAND.

Test reports N°:

- S 00023.75.1 dated 13/11/01
- S 00023.76.1 dated 24/10/01
- S 00028.77.1 dated 20/11/01
- S 00157.1.1 dated 24/11/2006
- S 00157.2.1 dated 24/11/2006
- S 00157.3.1 dated 24/11/2006
- S 00157.4.1 dated 24/11/2006.

### 4. APPLICATION / LIMITATION:

According to BV Rules for the Classification of Steel Ships.

### 5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above products are to be supplied by **LEGRAND FRANCE** in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.

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

5.3 - **LEGRAND FRANCE** 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**

**6. MARKING OF PRODUCT:**

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 with the understanding that the Society reserves the right to require check tests to be carried out on the units at any time and that **LEGRAND FRANCE - (LIMOGES - FRANCE)** 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 - The Certificate supersedes the Type Approval Certificate N° 04316/J0 BV issued on 28/02/2013 by the Society.

**\*\*\* END OF CERTIFICATE \*\*\***