



Certificate number: 03923/H1 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)

Types - series: FR14GG, FR14AM, FR22GG, FR22AM (With striker).

Requirements:

BV Rules for the Classification of Steel Ships.
IEC 60269-1 (2024), IEC 60269-2 (2024)

This certificate is issued to attest that Bureau Veritas Marine & Offshore 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: 25 Jun 2030

For Bureau Veritas Marine & Offshore,
At BV LYON, on 21 Oct 2025,
Michaël Vavro

This certificate was created electronically and is valid without signature



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 Marine & Offshore. 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 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 Marine & Offshore 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: <https://www.veristarpn.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=aj4gasjwdo>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

Designation			Rated Voltage	Rated Current	Breaking Capacity	Remarks
Fuse-Link	Fuse-carrier	Fuse-base	(V)	(A)	(kA)	
Cylindrical						
FR14GG			500	2 - 50	120 kA	With striker
FR14AM			690	1 - 16	120 kA	With striker
			500	20 - 50	120 kA	With striker
FR22GG			690	2 - 80	120 kA	With striker
FR22GG			500	100 - 125	120 kA	With striker
FR22AM			690	1 - 80	120 kA	With striker
FR22AM			500	100 - 125	120 kA	With striker

2. DOCUMENTS AND DRAWINGS:

Specification Ref. DS-LFCY14AM-07-0716_EN, dated 2016.

Specification Ref. DS-LFCY14GG-07-0716_EN, dated 2016.

Specification Ref. DS-LFCY22AM-08-0716_EN, dated 2016.

Specification Ref. DS-LFCY22GG-08-0219_EN, dated 2019.

3. TEST REPORTS:

3.1 - Tested according to IEC 269-1 (1986) [equivalent to EN 60269-4 (2006)] and IEC 269-2-1 (2004).

3.2 - COFRAC Test Report issued by FERRAZ SHAWMUT Saint Bonnet de Mure Tests Center:

- n° 832502/1 to 832502/12 dated January 2009.
- n° 832504/1 to 832504/14 dated September 2009.
- n° 835201/1 to 835201/16 dated November 2009.
- n° 832503/1 to 832503/17 dated April 2009.

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 **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 and as such does not require a BV product certificate.

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.

5.4 - For information, **MERSEN FRANCE SB S.A.S** has declared to Bureau Veritas the following production site:

NOLAM TUNISIE (MERSEN)
Rue de Nabeul Lot n°4
ZI M'Ghira 3
2082 FOUCHANA - BEN AROUS
TUNISIA

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 - It is **MERSEN FRANCE SB S.A.S**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate n° 03923/H0 BV issued by the Society.

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