



Marine & Offshore  
Division

Certificate number: 16397/C0 BV

File number: ACE 03/07/04

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)**  
MODULOSTAR CMS Fuse holders.

**Requirements:**

BV Rules for the Classification of Steel Ships.

IEC 60269-1 (2014), IEC 60269-2 (2013), IEC 60947-1 (2014), IEC 60947-3 (2008+A1/2012 + A2/2015).

*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 is a renewal of certificate N° 16397/B0 BV expiring on 24/06/2016*

**This certificate will expire on: 24 Jun 2021**

**For BUREAU VERITAS,**

At BV LYON, on 17 Jun 2016,

Jean-Marc Cabuzel



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](http://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 :

The **MODULOSTAR CMS series** are Fuse holders for Marine applications.

Type	for Fuse Links	Nominal Voltage	Nominal Current	Voltage Isolation
<b>CMS8</b>	8x31	500V	25A	6 kV
<b>CMS10 US10</b>	10x38	690V	32A	6 kV

- With or without fuse light melting indicator
- Utilization category: AC20B
- Protection index: IP 20

### 2. DOCUMENTS AND DRAWINGS :

Specification ref. DS-LACYCS10-04-2014\_FR, dated 19.Nov.2014.

### 3. TEST REPORTS :

- SMT/AP/033/18043 A/1 for 8 x 31 Fuse Holder issued by LCIE dated 20/06/2005
- SMT/AP/033/18043 B/1 for 10 x 38 Fuse Holder issued by LCIE dated 20/06/2005
- 18982-1 for Damp heat test at Ferraz Shawmut Test Lab dated 02/05/2006
- 18982-2 for Vibration test at Ferraz Shawmut Test Lab dated 02/05/2006

### 4. APPLICATION / LIMITATION :

According to BV Rules for the Classification of Steel Ship.

### 5. PRODUCTION SURVEY REQUIREMENTS :

- 5.1 - The **MODULOSTAR CMS series** 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.

### 6. MARKING OF PRODUCT :

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

- 6.1 - Rated voltage (V)
- 6.2 - Rated current (A)
- 6.3 - Rated breaking capacity
- 6.4 - Fusing Factor
- 6.5 - Manufacturer's name
- 6.6 - Model N°
- 6.7 - 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 No. 16397/B0 BV issued on 24.Jun.2011. by the Society.

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