



Certificate number: 42873/B0 BV

File number: AP4660

Product code: 2659I

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

Regulateurs Europa BV

Roden - NETHERLANDS

for the type of product

MOTOR CONTROL AND PROTECTIVE DEVICES

M602901F.

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships.

EC Code: 31.

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: 15 Dec 2030

For Bureau Veritas Marine & Offshore,

At BV GRONINGEN, on 15 Dec 2025,

Olaf RUITER

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.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 2 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

The stepper motor drive unit **M602901F** has been designed to adjust the speed setting of a hydraulic mechanical governor, by means of a 4 - 20 mA signal. The driver controls a stepper motor, fitted in the governor, which adjusts the speed setting mechanism.

1.1 - Specifications:

Rated supply voltage: 24VDC +/- 20%
 Rated supply current: 1.75A
 Rated temperature: 70°C
 Command input: 4-20mA
 Software version: V2.3

2. DOCUMENTS AND DRAWINGS :

Functionality overview, dated 15.Sep.2015.
 Data sheet ref. M602901/3, dated 09.Oct.2014.

3. TEST REPORTS :

Telefication:

- Tests report ref. 20123302200-V2.00, dated 05.Apr.2012.
- Test Report No. 0026-H0203-0000320577 dated 16-10-2024

4. APPLICATION / LIMITATION :

- 4.1 - BUREAU VERITAS Rules for the Classification of Steel Ships.
- 4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**
- 4.3 - BUREAU VERITAS Environmental Category, **EC Code: 31.**
- 4.4 - The equipment fulfils the EMC requirements for installation in General Power Distribution Zones.
- 4.5 - Only Hardware and Firmware / Software successfully tested together in compliance with the rules as referred to in cover page, according to the declaration of the manufacturer are covered by this certificate.
- 4.6 - Any modification of the hardware, firmware or software having an impact on the product performance or functionality has to be validated with type testing.
- 4.7 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev 9.

5. PRODUCTION SURVEY REQUIREMENTS :

- 5.1 - The **M602901F** are to be supplied by **Regulateurs Europa BV** in compliance with the type and the requirements described in this certificate.
- 5.2 - This type of product is within the category IBV of Bureau Veritas Rule Note NR320.
- 5.3 - BV product certificate is required.
- 5.4 - **Regulateurs Europa BV** has declared to Bureau Veritas that the type of product described in this certificate are manufactured at the following production sites:

Regulateurs Europa BV
Ekkelkamp 3
9301 ZZ Roden
NETHERLANDS

6. MARKING OF PRODUCT :

- 6.1 - Trade name.
- 6.2 - Date of manufacture and serial number.
- 6.3 - Equipment type or model identification under which it was type-tested.
- 6.4 - Bureau Veritas' Marks.

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 **Regulateurs Europa BV**, 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° 42873/A0 BV issued on 16 Feb 2016 by the Society.

*** END OF CERTIFICATE ***