



Marine & Offshore

Certificate number: 41217/B0 BV

File number: AP 4597

Product code: 3927H

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

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to

GAC, Governors America Corporation
Agawam - UNITED STATES OF AMERICA

for the type of product

ELECTRONIC SPEED GOVERNORS

Electronic Speed Governor ESD5100, ESD5300 and ESD5500 Series

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships.

EC Code: 43

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: 27 Apr 2025

For Bureau Veritas Marine & Offshore,

At BV PORT EVERGLADES CENTRE, on 03 Mar 2022,

Flavio Rosas



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: <http://www.veristarm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=z7drjw8akj>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Product model or type designation	Product description:
ESD 5100 , 5300 & 5500E series	Electronic speed governor
MSP 67xx series	Magnetic Speed Sensors

Note : the electronic speed governors listed above work with actuators covered by Bureau Veritas certificate 41218/xx BV.

2. DOCUMENTS AND DRAWINGS :

- Technical Information ESD5100 Series No. PTI1000 D, dated 08/13
- Technical Information ESD5300 Series No. PTI1041 E, dated 01/14
- Technical Information ESD5500E Series No. PTI1002E B, dated 08/13
- Technical Information MSP Series No. PTI3000 C, dated 08/14

3. TEST REPORTS :

- EMI Test Report 0453.96, dated May 30, 1996.
- RMS Test Report N° 03-10/2000.
- BGT Test Report N° TB052/1996, dated 30.01.96 for ESD 5111
- BGT Test Report N° TB053/1996, dated 30.01.96 for ESD 5500
- EMIT Test Report N° RP3576F1B95, dated 12.95
- CHOMERICS Test Report N° EMI0453.96, dated 30.05.96
- RMS Test Report N° 03-10/2000, dated 03.11.2000.
- Curtis-Straus LLC Climatic & Vibrations Test Report for 180 Series No. NQ3515-1 Issue No.01, dated Jan 9, 2017
- CMG test report 11354-1 dated 30 Dec 2020
- CMG test report 11354-3 dated 30 Dec 2020
- CMG test report 11640-3 dated 20 Jul 2021
- CMG test report 11640-1 dated 28 Jul 2021
- CMG test report 11783-1 dated 14 Dec 2021
- CMG test report 11783-3 dated 14 Dec 2021

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.**
- 4.3 - BUREAU VERITAS Environmental Category, **EC Code: 43.**
- 4.4 - The equipment fulfils the EMC requirements for installation in General Power Distribution Zones.
- 4.5 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev 7
- 4.6 - The fitting on board shall be the same that one used during the tests and as referred to in the above test reports.
- 4.7 - The actuators used with the speed governors have to be covered by a valid type approval certificate, issued by the Society

5. PRODUCTION SURVEY REQUIREMENTS:

- 5.1 - The above products are to be supplied by **GAC, Governors America Corporation** 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 - **GAC, Governors America Corporation** 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, **GAC, Governors America Corporation** has declared to Bureau Veritas the following production site :
GAC, Governors America Corporation
720 Silver St.
01001 Agawam
USA

6. MARKING OF PRODUCT:

- Maker's name or trade mark.
- Serial number of the units.
- Equipment type number or model identification under which it was type-tested.

7. OTHERS:

7.1 - It is **GAC, Governors America Corporation** 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. 41217/A1 BV issued on 27 Feb 2017 by the Society.

*** END OF CERTIFICATE ***