Certificate No: LR25330170TA
Issue Date: 28/10/2025
Expiry Date: 16/10/2029

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	**Heinzmann GmbH & Co. KG**
Address	Am Haselbach 1, Schoenau, 79677, Germany
Place of Production	Heinzmann GmbH & Co. KG Am Haselbach 1, Schoenau, 79677, Germany
Type	Actuator
Description	Electronic Actuator with brushless disc motor StG EC 40 StG EC 40 CW-RS StG EC 40 CCW-RS WEA 40 WEA 40 CW-RS WEA 40 CCW-RS WEA 40 CW-PWM WEA 40 CCW-PWM WEA 40 CW-CURR WEA 40 CCW-CURR StG EC 250 WEA 250
Trade Name	StG EC 40, StG EC 250, WEA 40, WEA 250
Application	Marine and Offshore applications for use in environmental categories ENV2, ENV3 and ENV4, as defined in Lloyd's Register Type Approval System, Test

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Thorsten Wolff
Electrical & Control - Senior Specialist to
Lloyd's Register EMEA
A member of the Lloyd's Register group

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Type Approval Certificate

Specification Number 1 – December 2021. Suitable for use in general power distribution zones only.

Specified Standard

Manufacturer's specification
IACS UR E10 Rev. 10 / 2024

Ratings

Power supply voltage:
StG EC 40 / WEA 40: 24 VDC
StG EC 250 / WEA 250: 48 VDC (drive), ECU 24 VDC (separate supply)
Ambient temperature range: -40…80 °C
Software version:
StG EC40/250: 00.11.xx
WEA 40/250: 28.11.xx (xx = minor changes)

Additional Tests

Low temperature test (-40 °C / 16 h)
Dry heat test (80 °C / 16 h)
Ingress protection test: IP67
Shock test acc. IEC 60068-2-27: 2008 (half-sine, 30g, 18 ms)
Salt mist test acc. IEC 60068-2-52 Test Kb severity 1

Other Conditions

For systems consisting of the listed components the final functional arrangement and application software are to comply with appropriate Lloyd's Register Rules and Regulations and shall be subject to project related Plan Approval Process, when installed on LR classed vessels. Documents and drawings for the actual application are to be provided according relevant LR Rules and Regulations.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

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Type Approval Certificate

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: LR2002790TA-02

The Design Appraisal Document TSO-25-028823/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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