



Lloyd's
Register

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.

This certificate is issued to:

PRODUCER	Heinzmann GmbH & Co. KG
PLACE OF PRODUCTION	Am Haslbach 1 79677 Schönau Germany
DESCRIPTION	Electronic Actuator with brushless disc motor
TYPE	StG EC 40, StG EC 40 RS-CW (CCW), StG EC 250
APPLICATION	Marine and Offshore applications for use in environmental categories ENV2, ENV3 and ENV4 as defined in LR Test Specification No.1, 2013 in "General Power Distribution Zones", where the Test Specification is satisfactory for the intended operation.
DESIGN CODE	Manufacturer's Standard
ADDITIONAL TEST	Ingress protection test to IP67 Low Temperature test at -40°C for 16 hours Shock test according IEC 60068-2-27:2008, 3 shocks at each direction with 300 m/s ³ Salt mist test according IEC 60068-2-52 Test Kb severity 1

Certificate No.	14/20064
Issue Date	17 October 2014
Expiry Date	16 October 2019
Sheet	1 of 2

*Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS*

Martin Lange
Hamburg Technical Support Office
Lloyd's Register EMEA

Lloyd's Register EMEA
Is a subsidiary of Lloyd's Register Group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



Lloyd's
Register

OTHER CONDITIONS

Type Approval of products according to LR Test Specification No.1 (2013) is essentially for hardware. Examination of software aspects is restricted to functional operation as demonstrated in the Performance Test.

The requirements of the Lloyd's Register (LR) Rules apply where the equipment is installed on LR Classed vessels and offshore installations.

"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."

The attached Design Appraisal Document No. HTS/ETS 30466-14 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No.	14/20064
Issue Date	17 October 2014
Expiry Date	16 October 2019
Sheet	2 of 2

*Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS*

Martin Lange
Hamburg Technical Support Office
Lloyd's Register EMEA

Lloyd's Register EMEA
Is a subsidiary of Lloyd's Register Group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.