

# Type Approval Certificate



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

Certificate No. 60 413 - 13 HH

Company Hottinger Baldwin  
Messtechnik GmbH  
Im Tiefen See 45  
64293 Darmstadt, Germany

Product Description Marine torque flange electronics

Type T40MAR

Environmental Category C, EMC 2\*)

Technical Data /  
Range of Application T40MAR Rotor (T40FM electronic)  
T40MAR Stator (T40FM electronic)  
MP60 Torque interface module

Output signal  
Torque transducer  
kHz: 10±5;  
V: ±10  
Pre-configured parameter MP60  
mA: 4-20mA  
4mA = negative torque (-8% torque)  
5mA = 0(zero) torque (0% torque)  
20mA = Full torque (120% torque of the engine)

\*) see Remarks

Test Standard Guidelines for the Performance of Type Approvals Chapter 2, Edition 2012

Documents Test report : Phoenix TESTLAB E121795E1, U121795E1  
T40MAR Mounting Instructions V1.4, T40MAR Operating Instructions V1.4

Remarks Radiated emissions at 522 kHz working frequency: 80 dBµV/m.  
Surge protection Phoenix Contact QUINT-PS/24DC/24DC/5 is to be used.

Valid until 2018-08-20

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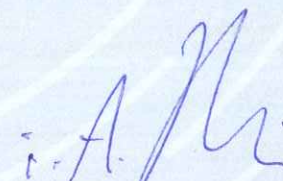
Hamburg, 2013-08-21

Type Approval Symbol



**Germanischer Lloyd**

  
Arne Schaarmann

  
Marco Rinkel

This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".