

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. 15 489 - 00 HH

Company Rolf Janssen GmbH
Elektrotechnische Werke
Emsstraße 4
26603 Aurich, GERMANY

Product Description Diesel Start System

Type DSS 41
Order-no.: E01.4120.010

Environmental Category C, EMC2

Technical Data /
Range of Application

Rated supply voltage:	24 V DC +30/-25%
Residual ripple:	< 5 %
Closed circuit current :	85 mA
Max. current :	2,1 A
Input :	for 6 binary alarms 12 mA
Delay time	200 ms to 20 s
Output :	for 6 external lamps max. 150 mA
Operation temperature:	0 °C to 60 °C
Storage temperature:	-20 °C to 70 °C
Housing:	100 x 75 x 119 mm PA 6.6

For application as a safety system shipyard and supplier shall coordinate additional means acc. the rules, e.g. signal running time and broken wire monitoring for overspeed, stop valve, luboil pressure etc.

Test Standard Guidelines for the Performance of Type Approvals, 2003.

Documents Test report : Janssen GmbH E 11.462/03-99 , ESW 04057.107.99 of 14.12.1999.

Remarks see technical data / range of application.

Valid until 2014-04-06

Page 1 of 1

File No. I.B.02

Hamburg, 2009-06-04

Type Approval Symbol



Germanischer Lloyd

J. V. Wittburg
Jürgen Wittburg

J. A. Dietrich
Jens Dietrich