

TYPE APPROVAL CERTIFICATE No. ELE218418XG

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

Description

Control, safety and monitoring system for Diesel engines

Type

Viking35

Applicant

Regulateurs Europa Limited

Port Lane, Colchester, Essex, CO1 2NX

UNITED KINGDOM

Manufacturer

Regulateurs Europa Limited

Place of manufacture

Port Lane, Colchester, Essex, CO1 2NX

UNITED KINGDOM

Reference standards

Rules for the classification of ships.- Part C - Machinery, systems

and fire protection. - Ch.3, Sect. 6, Table 1.

Issued in HAMBURG on September 7, 2018. This Certificate is valid until September 6, 2023

RINA Services S.p.A.

This certificate consists of this page and 1 enclosure





TYPE APPROVAL CERTIFICATE No. ELE218418XG Enclosure - Page 1 of 1 Viking35

The REGULATEURS EUROPA Viking35 is an electronic governor system with a wide range of I/Os for the engine management functions of diesel and dual fuel engines as well as turbines in the propulsion and power generating applications.

Specification:

- power supply: 24VDC nominal (18 to 36 VDC);
- IP rating: enclosure dependent.

Documents:

- Viking35 Data Sheet

Test Reports:

- KRIWAN Testzentrum, Test Report No.: 008411_001_H
- KRIWAN Testzentrum, Test Report No.: 009317_01_H
- KRIWAN Testzentrum, Test Report No.: 140103-01-01-A-01
- MS TESTING, Test Report No.: TL15032-ENV

General remarks:

When the system is used for a single engine propulsion or for an emergency generator engine, the back up engine control module is to be provided in order to maintain the engine operation even in case a "single failure" occurs. The system arrangement is to follow Pt C, Ch 1, Sec 2, [4.7.7] of RINA Rules.

A failure occurring in the Viking35 shall cause an alarm in the manned control stations.

Safety functions are to be independent from the engine control and monitoring functions.

The lines / switches (I/Os) regarding the engine emergency stop is to be monitored in order to produce an alarm in case of cable interruption (wire break monitoring). In this case the engine has not to stop.

System arrangement covering block diagram with details of power supplies arrangement, I/Os and communication network in association with FAT procedure are to be submitted for approval for each particular application.

Certificate Retention:

The changes in software and hardware are to be recorded as long as the system is in use on board. The records of all changes are to be forwarded to RINA for evaluation and approval.

Major changes in the software / firmware / hardware are to be approved before being installed on the programmed systems.

HAMBURG September 7, 2018



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