



TYPE APPROVAL CERTIFICATE
No. ELE060325XP

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

<i>Description</i>	Control and monitoring system Engine Safety, Control and Monitoring System
<i>Type</i>	Deif iE250 Series, iE 350 Series and iE650
<i>Applicant</i>	DEIF A/S FRISENBORGVEJ 33 7800 Skive DENMARK
<i>Manufacturer</i>	DEIF A/S
<i>Place of manufacture</i>	FRISENBORGVEJ 33 7800 Skive DENMARK
<i>Reference standards</i>	IACS UR E27 "Cyber resilience of onboard systems and equipment", Sep 2023 / IACS UR E22 "On Board use and Application of Computer based Systems" June 2023

Issued in **GDAŃSK** on **September 22, 2025**. *This Certificate is valid until* **September 22, 2030**



RINA Services S.p.A.
Adam Mejer

This certificate consists of this page and 1 enclosure



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Deif iE250 Series, iE 350 Series and iE650

Product description:

1. iE250 Marine Series

The iE 250 Marine product lines is built as a modular front-or base mounted hardware platform ranging from simple stand-alone units for:

- Generator
- Bus-tie
- Shore connection
- Shaft breaker

to integrated power management systems.

The details are included in RINA Type Approval Certificate ELE060125XP/001

2. iE350 Marine Series

The iE350 PLC is highly flexible, modular PLC and I/O system. It can be designed as stand alone unit for generator/bus-tie/ shore-connection/ shaft generator/ hybrid system control and protection to integrated power management system.

The details are included in RINA Type Approval Certificate ELE060125XP.

3. iE650

The iE 650 PLC is a PLC- based programmable automation controller (PAC) suitable for land, marine and wind power control applications. The controller is a flexible, modular PLC and I/O system that is designed for usage across a wide range of industrial applications.

The details are included in RINA Type Approval Certificate ELE060125XP/002

Testing:

Extensive Testing was conducted by DEIF and witnessed by RINA on 27 August 2025 as per following test plan:

- iE 350 E27 test plan
- iE 650 E27 test plan
- iE 250 E27 test plan

Deif provided documentation:

- 1.Guidelines for Development of Software ref.: 4910000011AK
- 2.Software life-cycle overview ref.: SM, 291122
- 3.HW- Guide to construction changes ref.: EMS-30-10-2017
4. Secure Development Lifecycle
5. iE350 E27 Test specification
6. iE650 E27 Test specification
7. iE250 E27 Test specification
8. CODESYS E27 Test specification
10. DEP SW Test Strategy
11. CODESYS Security
12. iEx50 Cyber Security E27 Recovery Plan
13. iEx50 Cyber Security E27 Security Requirements
14. IEx50 Security Capabilites
15. iE x50 Asset Inventory
16. PICUS PC Utility software User's manual ref. 4189341362C

GDAŃSK September 22, 2025

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