



NIPPON KAIJI KYOKAI

COPY

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA26311M

This is to certify that the undernoted product(s) has/have been approved in accordance with the requirements specified in Chapter 1, Part 7 of “Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use” and the relevant Society's Rules.

This certificate is issued to

Manufacturer:	DEIF A/S
Place of Manufacturing:	Frisenborgvej 33, 7800 Skive, Denmark
Product description:	Controller Units
Model:	iE650
Approval No.:	26A027
Valid until:	13 May 2031

The details are described in the attached sheet(s).

Issued at Tokyo on 14 May 2026.

T. Okamoto
General Manager
Machinery Department

Note: 1. The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

Specification & documents:

1. Product description and Particulars

iE 650 is a PLC-based programmable automation controller.

The system consists of the following modules:

- (1) Programmable Computer Modules PCM6.2
- (2) Power Module PDM6.1
- (3) Station Interface Module SIM6.1
- (4) Station Interface Module SIM6.2
- (5) Station Interface Module SIM6.3
- (6) Station Interface Module SIM6.4
- (7) Station Interface Module SIM6.5
- (8) Digital Input and Output Module DIO6.1
- (9) Digital Input and Output Module DIO6.2
- (10) Digital Input Module DIM6.1
- (11) Digital Output Module DOM6.1
- (12) Analogue Input and Output Module AIO6.1
- (13) Analogue Input and Output Module AIO6.2
- (14) Analogue Output Module AOM6.2
- (15) Analogue Input Module AIM6.1
- (16) Analogue Input Module AIM6.2
- (17) Communication Interface Module IFM6.1
- (18) Communication Interface Module IFM6.2

2. Documentation:

- (1) ie-650-plc-data-sheet-4921240662-uk (DWG No.: User doc EPC 929-09_54_Rev.A)

3. Test Reports:

- (1) 398-01 iE 650 AMC 600 A- Tests (DWG No.: Reports EPC 929-09_43_Rev.A)
- (2) 398-01 iE 650 AMC 600 B - Tests (DWG No.: Reports EPC 929-09_44_Rev.A)
- (3) 929-01 Witness test iE 650 (DWG No.: Reports EPC 929-09_45_Rev.A)
- (4) IPA 929 A tests Rack incl PCM 62
- (5) IPA 929 B tests Rack incl PCM 61
- (6) IPA 929 B tests Rack incl PCM 62

- To be continued -

Test items & approval conditions:

1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS (IACS UR E10 Rev.9 basis)		Mark
External examination		X
Operation test and performance test		X
Electric power supply failure test		X
Power supply fluctuation test	Electric	X
	Pneumatic and Hydraulic	—
Insulation resistance test		X
High voltage test		X
Pressure test (Pneumatic and Hydraulic)		—
Dry heat test (Temperature 70°C × 16 hours)		X
Damp heat test (Temperature 55°C × 16 hours × 2cycles)		X
Vibration test (Acceleration ±0.7g × 1.5 hours)		X
Inclination test		X
Cold test (Temperature -40°C × 16 hours)		X
Salt mist test		—
Electrostatic discharge immunity test (Contact 6kV, Aerial 8kV)		X
Radiated radio frequency immunity test (80MHz – 6GHz)		X
Conducted low frequency immunity test (50Hz – 10kHz)		X
Conducted high frequency immunity test (10kHz – 80MHz)		X
Burst / Fast transient immunity test		X
Surge immunity test		X
Radiated emission test (150kHz – 6GHz)		X
Conducted emission test (10kHz – 30MHz)		X
Flame retardant test		—

2. Approval conditions:

The product is not allowed to be installed in the bridge and on open decks.

- The End -