



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA25002M

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

Applicant:	Danfoss Drives Oy
Manufacturer:	Danfoss Drives Oy
Place of Manufacturing:	Runsorintie 7 Vaasa 65380, FINLAND
Product description:	Frequency Converter
Model:	iC7-60SL Liquid Cooled System Drives
Approval No.:	25A035
Valid until:	14 October 2030

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

Issued at Tokyo on 14 October 2025.



S. Oishi
General Manager
Machinery Department

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

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Attached sheet -1/2 to the Certificate No. TA25002M

Specification & documents:

1. Particulars:

Supply voltage range:	07: 525-690VAC (640-1100V DC) B5: 380-500VAC (465 - 830VDC)
Frequency:	45 - 66 Hz
Voltage variation:	AC +10%, -15%, DC $\pm$ 0%
Output frequency:	0 - 599 Hz
Number of phases	3
Temperature range in operation:	0 - 60 °C (power units) 0 - 55 °C (control units)

2. Documents and Test Reports:

Operating Guide iC7 Series Liquid-cooled System Modules

HELES22000152-1, 18 May 2018

00775653, 9 May 2022

Danfoss iC7-60SL Marine High Voltage Test, 16 Sep. 2024

EUFI29-21002279-T1, 10 Jun. 2021

299288-1, 6 May 2020

- To be continued -

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Attached sheet -2/2 to the Certificate No. TA25002M

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 h)		X
Damp heat test		X
Vibration test (Acceleration ±1.0g)		X
Inclination test		--
Cold test (Temperature 5°C × 2 hours)		X
Salt mist test		--
Electrostatic discharge immunity test		X
Radiated radio frequency immunity test		X
Conducted low frequency immunity test		X
Conducted high frequency immunity test		X
Burst / Fast transient immunity test		X
Surge immunity test		X
Radiated emission test		--
Conducted emission test		--
Flame retardant test		--

2. Approval condition:

The product is not allowed to be installed on open deck.

The product is to be installed in Special Power Distribution Zone subject to agreement with the manufacturer and customer in accordance with IEC 60533.

- The End -