



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA20287M

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 A/S
Place of Applicant:	Nordborgvej 81, DK-6430 Nordborg, Demnark
Manufacturer /	Danfoss Poland Sp. z o.o
Place of Manufacturing:	U1. Chrzanowska 5, 05-825 Grodzisk Mazowiecki, Poland
Product description:	Block Termostat
Model:	MBC 8100
Approval No.:	04A025
Valid until:	26 May 2025

This certificate is subject to the conditions specified in the attached sheet(s).

Issued at Tokyo on 27 May 2020.

T. Shimada
General Manager
Machinery Department

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

Specification & documents:

1. Ratings:

Temperature setting range -10~200°C

2. Documentation:

061R9014, 061B9014

Test Report No.: 196/NZL/NBW/2010/O

Test Report No.: BS-3/084/B/19 (2019-07-15, Flame Test)

Data Sheet: IC.PD.P10.D8.02 / 520B7816

- To be continued -

Test items & approval conditions:

1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS (IACS UR E10 rev.7 basis)		Mark
External examination		X
Operation test and performance test		X
Electric power supply failure test		--
Power supply fluctuation test	Electric	--
	Pneumatic and Hydraulic	--
Insulation resistance test		X
High voltage test		X
Pressure test		X
Dry heat test (Temperature 70°C × 16 hours)		X
Damp heat test		X
Vibration test (5 - 200Hz, Acceleration ±4.0g × 2 hours)		X
Inclination test		X
Cold test (-25°C × 16 hours)		X
Salt mist test		X
Electrostatic discharge immunity test		--
Radiated radio frequency immunity test		--
Conducted low frequency immunity test		--
Conducted high frequency immunity test		--
Burst / Fast transient immunity test		--
Surge immunity test		--
Radiated emission test		--
Conducted emission test		--
Flame retardant test (Ta = 30sec)		X

2. Approval condition:

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

- The End -

