



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA14268M

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:

DK-6430, Nordborg, Denmark

Manufacturer:

Danfoss Sp. z o.o

Place of Manufacturing:

U1. Chrzanowska 5 05-825 Grodzisk, Poland

Product description:

Themostats

Model:

RT2, RT3, RT7, RT10, RT12, RT13, RT14, RT15, RT23, RT26,

RT101, RT106, RT107, RT108, RT120, RT123, RT124

Approval No.:

84A104

Valid until:

15 February 2019

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

Issued at Tokyo on 16 February 2014.

Y. Shibata

General Manager

Machinery Department

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

NIPPON KAIJI KYOKAI

Attached sheet -1/2 to the Certificate No. TA14268M

Specification & documents:

1. Particulars:

Temperature Range: -60 ~ 300 °C

Contact Load

: AC 380V 10A (Ohmic), 4A (Inductive)

DC 220V 12W

2. Components and reference drawings:

Components	Drawings
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RT2,	
RT3,	
RT7,	
RT10,	
RT12,	
RT13,	017R0450,
RT14,	017R0452,
RT15,	017R0153,
RT23,	017R0454,
RT26,	017R0459
RT101,	
RT106,	,
RT107,	
RT108,	
RT120,	
RT123,	
RT124	

3. Test Reports:

Danfoss Test Report dated 26/10/2011

Polish test laboratory Test Report No. 250/NZL/NBW/2011/O dated 12/1/2012

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Attached sheet -2/2 to the Certificate No. TA14268M

Test items & approval conditions:

1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS		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 (Pneumatic and Hydraulic)		
Dry heat test (Temperature $55^{\circ}\text{C} \times 16 \text{ hours} + 70^{\circ}\text{C} \times 2 \text{ hours}$)		X
Damp heat test		X
Vibration test (Acceleration ±4.0g×1.5 hours) for RT106, RT107, RT120, RT123		X
Inclination test		X
Cold test (Temperature $-25^{\circ}C \times 2$ hours)		X
Salt mist test		
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		X

2. Approval condition:

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