



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA19282M

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 Mazowiecki, Poland

Product description:

Pressure Controls

Model:

RT1, RT1A, RT5, RT5A, RT110, RT112, RT113,

RT116, RT117, RT121, RT200

Approval No.:

84A105

Valid until:

8 April 2024

This certificate is subject to the conditions specified in the attached sheet(s). Issued at Tokyo on 9 April 2019.

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.

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Attached sheet -1/2 to the Certificate No. TA19282M

Specification & documents:

1. Particulars:

Pressure Range

: $-0.8 \sim 30 \text{ bar}$

Contact Load

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

DC 220V 12W

2. Components and reference drawings:

Components	Drawings
RT1,	
RT1A,	
RT5,	
RT5A,	017R0450,
RT110,	017R0452,
RT112,	017R0455,
RT113,	017R0459
RT116,	
RT117,	
RT121,	THE THE STATE OF T
RT200	

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

- To be continued -

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Attached sheet -2/2 to the Certificate No. TA19282M

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		
D	Electric	
Power supply fluctuation test	Pneumatic and Hydraulic	
Insulation resistance test		X
High voltage test		X
Pressure test (Pneumatic and Hydraulic)		X
Dry heat test (Temperature $55^{\circ}C \times 16$ hours)		X
Damp heat test		X
Vibration test (Acceleration $\pm 4.0 \text{g} \times 1.5 \text{ hours}$) for RT1, RT5		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		

2. Approval condition:

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