



TYPE APPROVAL CERTIFICATE

Certificate no.:
TAA000026E
Revision No:
1

This is to certify:

that the **Temperature Switch**

with type designation(s)

KPS 76, KPS 77, KPS 79, KPS 80, KPS 81, KPS 83

issued to

Danfoss A/S

Nordborg, Syddanmark, Denmark

is found to comply with

DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Location classes:

Temperature	B
Humidity	B
Vibration	B
EMC	N/A
Enclosure	B/IP67

Issued at **Høvik** on **2024-02-19**

for **DNV**

This Certificate is valid until **2029-02-18**.

DNV local unit: **Denmark CMC**

Approval Engineer: **Martin Skårerverket**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: TA 251

Revision: 2023-09

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Product description

Thermostats KPS 76, KPS 77, KPS 79 (R), KPS 80, KPS 81, KPS 83 (R)

Output: 1 c/o - contact,
rating: 10A - 440V AC-1
6A - 440V AC-3
4A - 440V AC-15
Temperature ranges: from -10°C to 30°C up to 100°C to 200°C
Time constant: z 0.5 = 15 s, z 0.9 = 60 s
Protection tube: type 060 L 33xx

Thermostat with suffix (R) available with reset function.

Place of manufacture

Danfoss Poland Sp. z o.o.
PL-05-825 Grodzisk Mazowiecki
Poland

Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Type Approval documentation

Data sheet: IC.PD.P10.I6.02 | 520B7855
Drawings: 060L9201 dated 1999-09-07
Test Report: No. 23665 dated 1976-09-16

Type approval renewal assessment report for TAA000026E, DNV Gdansk CMC 2024-01-19.

Tests carried out

Applicable tests according to class guideline DNV-CG-0339, August 2021.

Marking of product

The products to be marked with:

- manufacturer name
- model name
- serial number
- power supply ratings

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE