TYPE APPROVAL CERTIFICATE

Certificate no.:
TAE00003W4
Revision No:
1

This is to certify:

that the Overcurrent- and Short-Circuit Relay

with type designation(s)
CM-MSS.xyS/P

issued to
ABB Stotz-Kontakt GmbH
Heidelberg, **Germany**

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	**A**
EMC	**A*, B**
Enclosure	**A**

Issued at **Hamburg** on **2025-05-06**

This Certificate is valid until **2031-05-05**.
DNV local unit: **Augsburg**

Approval Engineer: **Dariusz Lesniewski**

for **DNV**

This document has been digitally signed and will therefore not have handwritten signature

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.

Product description

Models: CM-MSS.11S/P*, CM-MSS.12S/P, CM-MSS.13S/P, CM-MSS.21S/P*, CM-MSS.22S/P, CM-MSS.23S/P, CM-MSS.31S/P*, CM-MSS.32S/P, CM-MSS.33S/P, CM-MSS.41S/P*, CM-MSS.51S/P*

Functions / Features (model dependent):

· ATEX certified
· 1 Thermistor Sensor Circuit
· 2 Thermistor Sensor Circuit
· Thermistor short circuit detection
· Thermistor cable break detection
· Thermistor single or sum evaluation
· Non-volatile fault storage
· Auto reset
· Remote reset
· Manual reset

Supply voltage: 24V AC/DC, 24-240V AC/DC, 110-130V AC or 220 – 240V AC (model dependent)
Relay Rating: AC 15: 3A / 230V AC; DC 13: 2A / 24V DC
Mounting: DIN rail (IEC/EN 60715)
Degree of protection: IP50 housing, IP20 terminals
For µConroller based models Firmware Version: 1SVR730712S0200, Rev. D

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.

Application/Limitation

*Location class EMC '**A**' for CM-MSS.x1S/P

Type Approval documentation

Data sheets: CM-MSS.xxx (model dependent);
TÜV SÜD Certificate TPS 18 ATEX 044254 0018 X
TÜV SÜD Certificate TPS 14 ATEX 44254 005 X
TÜV SÜD Test Report No. 713048582 Rev. 0, No. 028-713032340-000 Rev. 00
Circuit diagrams, Construction drawings, Part Lists; Drawing No. 1SVR730703F0002 Rev. A (Schematic CM-MSS.23)
ECN No. 0000136708, dated 2023-05-26; ECN No. 000153846, dated 2021-03-16
Manufacturers dossier with test reports as the reference list:
'Next Generation THERMISTOR-Motor-Protection-Relays CM_MSS_2014'
Software Development Documentation as the reference list: 'Tests for GL: SW-D-AK3, Project CM-MSS.xxx", dated 03.11.2014'; Drawing No. 1SVR730712B5000 rev. A (SMD - IC prog. CM-MSS.xyS/P)
Test record 'PN_CM-MSS-xx_25_070_Series_Witness_Test_Report_For_DNV_Inspection_A0', dated 2025-04-25
Test Protocol EMV Rhein Neckar 2025-04-07 CM-MSS EMC.docx
Type approval assessment report issued at Augsburg on 2025-04-30

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.