

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Electrical Measuring and Protection Relay**

with type designation(s)

**CM-SRS.11S/P, CM-SRS.21S/P, CM-SRS.M1S/P, CM-SFS.21S/P, CM-SRS.12S/P,
CM-SRS.22S/P, CM-SRS.M2S, CM-SFS.22S/P**

Issued to

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

is found to comply with

DNV GL 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 GL.****Location classes:**

Temperature	B
Humidity	B
Vibration	B
EMC	A
Enclosure	A

Issued at **Hamburg** on **2019-03-18**This Certificate is valid until **2024-03-17**.DNV GL local station: **Augsburg**for **DNV GL**Approval Engineer: **Dariusz Lesniewski**

**Joannis Papanuskas
Head of Section**

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

Current Monitoring Relay, Series CM

Model variants:

- ..SRS.. : current monitoring relay with one adjustable threshold value
- ..SFS.. : current monitoring relay with two adjustable threshold values
- ..1*.. : one change-over contact / ..2*.. : two change-over contacts
- ..*1.. : ranges: 3..30mA, 10..100mA, 0.1..1A / ..*2.. : ranges: 0.3..1.5A, 1..5A, 3..15A
- ..M.. : multi-function device with two change-over contacts
- ..S : screw type terminals / ..P : push-in terminals

Functions (model dependent):

- Over- and/or under current monitoring
- Latching function
- Fixed or adjustable hysteresis
- Adjustable tripping delay
- On- or off delay
- Adjustable start up delay
- Open- or closed circuit principle

Supply voltage: 24-240V AC/DC, 110-130V AC or 220-240V AC (model dependent)

Relay Rating: AC 15: 3A / 230Vac / DC 13: 2A / 24Vdc

Mounting: DIN rail (IEC/EN 60715)

Degree of protection: IP50 housing, IP20 terminals

Firmware Version(s): A0, A1 (model dependent)

Place of manufacture

ABB STOTZ-KONTAKT GmbH

Hauptstraße 14-16

78132 Hornberg, GERMANY

Type Approval documentation

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, November 2016.

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



Job Id: **262.1-030765-1**
Certificate No: **TAA0000293**

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