

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Automatic Fuse

with type designation(s)
S200 and S200 M

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.

Issued at **Hamburg** on **2017-05-30**

This Certificate is valid until **2022-05-29**.

DNV GL local station: **Augsburg**

Approval Engineer: **Thomas Hartmann**

for **DNV GL**

Duy Nam Le
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

Miniture Circuit Breakers with the following type designations:

Type S 201:	Single pole
Type S 202:	Double pole
Type S 203:	Three pole
Type S 204:	Four pole
Type S 201-NA	Single pole+N
Type S 203-NA	Three pole+N

Tripping characteristics:	B / C / D / K / Z
Rated operation voltage (V AC)	133/230, 230/400, 440*
Frequency	50 - 60 Hz
Rated current	B: 6 -63A, C,D,K,Z: 0.5 - 63A
Breaking capacity Ics	15 kA (133/230V), 7.5 kA (230/400V, 440V)
Breaking capacity Icu	20 kA (133/230V), 10 kA (230/400V, 440V)

* See Application/Limitation

Type S 201M:	Single pole
Type S 202M:	Double pole
Type S 203M:	Three pole
Type S 204M:	Four pole
Type S 201M-NA	Single pole+N
Type S 203M-NA	Three pole+N

Tripping characteristics:	B / C / D / K / Z
Rated operation voltage (AC)	133/230, 230/400, 440*
Frequency	50 - 60 Hz
Rated current	B: 6 -63A, C,D,K,Z: 0.5 - 63A
Breaking capacity Ics	18.75 kA (133/230V, 0.5-40A); 15 kA (133/230V, 50-63A) 11.25 kA (230/400V, 440V, 0.5-40A); 7.5 kA (230/400V, 440V, 50-63A)
Breaking capacity Icu	25 kA (133/230V); 15 kA (230/400V, 440V)

* See Application/Limitation

Application/Limitation

For installation inside switchboards/ enclosures onboard ships and offshore units.

With Uimp=4kV the max. rated voltage is 277 V when used in IT (ship) net. It can be used in applications with directly earthed systems with rated voltage of 277/480 V.

Type Approval documentation

Tests carried out

Type testing according to IEC / EN 60947-2. Vibration test, Dry heat test, Damp heat test and Cold test according to DNV GL CG-0339.

Marking of product

Product marking: ABB Stotz - Type designation – Manufacturing code

Job Id: **262.1-013841-4**
Certificate No: **TAE00001Z3**

Name and place of manufacturer

ABB Stotz-Kontakt GmbH Heidelberg Germany	ABB LV Installation Materials Co. Ltd Beijing China	ABB BULGARIA EOOD-RAKOVSKI BRANCH Industrial Zone Rakovski Bulgaria
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Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and 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