DNV·GL

Certificate No:
TAE00002TE

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Fuse

with type designation(s)
Standard size 192, Standard size 292, Standard size 442

Issued to
SIBA GmbH
Lünen, 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.

Type	Rated voltage (V)
Standard size 192	3/ 7,2 kV
Standard size 292	3/ 7,2 kV
Standard size 442	3/ 7,2 kV

Issued at **Hamburg** on **2018-05-23**
This Certificate is valid until **2023-05-22**.
DNV GL local station: **Essen**

for **DNV GL**

Approval Engineer: **Thomas Hartmann**

Arne Schaarmann
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.

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Product description

High-voltage current limiting fuse rated voltage 3/ 7,2 kV

Size	Type designation	Current range	Rated breaking current
Standard size 192	30 002 11	1,0 A … 4,0 A	63 kA
	30 002 13	6,3 A ... 50 A	63 kA
	30 010 13	63 A ... 125 A	63 kA
	30 018 13	160 A	63 kA
	30 018 14	200 A or 250 A	50 kA
Standard size 292	30 098 11	1A ... 4A	63 kA
	30 098 13	6,3 A ... 50 A	63 kA
	30 099 13	63 A ... 125 A	63 kA
	30 100 13	160 A	63 kA
	30 100 14	200 A ... 315 A	50 kA
Standard size 442	30 109 13	100 A or 125 A	63 kA
	30 110 13	160 A	63 kA
	30 110 14	200 A ... 315 A	50 kA

Application/Limitation

Makers application instructions and limitations to be observed

Type Approval documentation

Tests carried out

VI-7-2 Guidelines for the Performance of Type Approvals (2003)
IEC 60282-1 (1994)+ A1(1996)

Marking of product

As per IEC 60282-1 clause 5.2

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