

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Fused Switch**

with type designation(s)
LTS-1, LTS-2, LTS-3

Issued to

Wöhner GmbH & Co. KG Elektrotechnische Systeme
Rödental, 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 **2018-06-06**

This Certificate is valid until **2023-06-05**.

DNV GL local station: **Augsburg**

for **DNV GL**

Approval Engineer: **Harald Amberger**

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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.



Product description

NH-Fuse-switch-disconnectors for surface and busbar mounting

Types:	LTS-1	LTS-2	LTS-3
Rated operational current (Ie):	250A	400A	630A
Conventional thermal current (Ith):	250A	400A	630A
Rated conditional short-circuit current:	50kA	50kA	50kA

Rated operational voltage (Ue):	690 VAC
Rated insulation voltage (Ui):	800 V
Rated impulse withstand voltage (Uimp):	6 kV
Rated frequency:	50/60 Hz
Utilization categories:	AC-23B

Application/Limitation

Location Classes:
Temperature: B, Humidity: B, Vibration: A

With Uimp=6kV; Overvoltage category II applies for applications in IT systems > 600 V.

Type Approval documentation

Tests carried out

IEC 60947-1(ed.5):2007, IEC 60947-3 (ed.3.0):2008, Cold, Dry Heat, Damp Heat, Vibration.

Marking of product

Acc. IEC 60947-3 subclause 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