

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Terminal Block

with type designation(s)

**SV 3450.505 (LAK 4/5), SV 3451.505 (LAK 16/5)
SV 3455.505 (LAK 4/10), SV 3456.505 (LAK 16/10)**

Issued to

**Rittal GmbH & Co. KG
Herborn Hessen, 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 **2017-08-18**

This Certificate is valid until **2022-08-17**.

DNV GL local station: **Magdeburg**

Approval Engineer: **Harald Amberger**



for **DNV GL**
Digitally Signed By: Hartmann, Thomas
Location: DNV GL Hamburg, Germany
Signing Date: 2017-09-14 , on behalf of

**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.



Job Id: **262.1-026657-1**
Certificate No: **TAE0000274**

Product description

Conductor connection clamps Push-in

Type designation	Cross-section	Rated voltage	Bar thickness
SV 3450.505 (LAK 4/5)	4,0mm ²	1000V	5mm
SV 3451.505 (LAK 16/5)	16mm ²	1000V	5mm
SV 3455.505 (LAK 4/10)	4,0mm ²	1000V	10mm
SV 3456.505 (LAK 16/10)	16mm ²	1000V	10mm

Rated impulse withstand voltage : 12kV

Further ratings acc. manufacturer documentation.

Application/Limitation

Location Classes:

Temperature: B, Humidity: B, Vibration: A

Operating instruction of the manufacturer to be observed

Type Approval documentation

As per techdocs in job 262.1-026657-1

Tests carried out

IEC 60947-7-1:2009-04, IEC 60947-7-2:2009-04, cold, dry heat, damp heat, vibration, flame retardancy.

Marking of product

RITTAL – Type designation – Main data

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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