DNV·GL

Certificate No:
TAE00003H6

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Miniature Circuit Breaker

with type designation(s)
5SL30..., 5SL60...

Issued to
Siemens AG Low Voltage
REGENSBURG, 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 **2019-06-07**
This Certificate is valid until **2024-06-06**.
DNV GL local station: **Augsburg**

for **DNV GL**

Approval Engineer: **Harald Amberger**

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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Job Id: **262.1-031018-1**
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Product description

Miniature Circuit Breaker Type:	5SL30…, 5SL60…	
Rated impulse withstands voltage U_{imp}	4kV	
Rated voltage U_e	230V AC	
Rated frequency	50/60 Hz	
Number of poles	1+N	
Rated current I_e (30°C)	5SL30…	5SL60…
Tripping characteristic B	---	6 – 40A
Tripping characteristic C	2 – 40A	2 – 40A
Rated short circuit capacity I_{cn}, acc. IEC 60898-1	4,5kA	6kA
Further ratings according manufacturer documentation		

Application/Limitation

Location Classes:
Temperature: A, relative humidity 85% (Temperature 40°C±2°C, 4 days)*, Vibration: A
Enclosure: IP20 with connected conductors, IP40 in the area of the handle with distribution cover

*Only for use in air-conditioned and monitored areas.

Type Approval documentation

Tests carried out

Cold, dry heat, damp heat, vibration, flame retardancy
EN 60898-1:2003+A1:2004+Cor. 2004+A11:2005
EN 60898-1:2003/A12:2008
EN 60898-1:2003/A13:2012

Marking of product

Siemens – Type designation – Rated current – Rated voltage(s) – Breaking capacity.

Name and place of manufacturer

SIMEA Sibiu S.r.I
Piata Cibin Nr. 5, 550197 SIBIU
ROMANIA

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