

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Automatic Fuse

with type designation(s)
5SY4..., 5SY6..., 5SY7...

Issued to

Siemens AG Low Voltage
REGENSBURG, Germany

is found to comply with
DNV GL rules for classification – Ships and offshore units

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until **2021-10-11**.

Issued at **Hamburg** on **2016-10-12**

DNV GL local station: **Augsburg**

Approval Engineer: **Harald Amberger**

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.

Job Id:
Certificate No: **TAE00001E3**

Product description

Miniature Circuit Breaker Type:	5SY4..., 5SY6..., 5SY7...		
Rated voltage U _e	230/400V AC		
Max. operational voltage U _e	250/440V AC 72V DC/pole		
Rated impulse withstand voltage U _{imp}	4kV		
Rated frequency	50/60 Hz		
Number of poles	1, 1+N, 2, 3, 3+N, 4		
Utilization Category acc. IEC 60947-2	A		
Pollution degree for overvoltage category	3/III		
Rated current I _e (30°C)	5SY6...	5SY4...	5SY7...
Tripping characteristic A	--	0,5 - 63A	--
Tripping characteristic B	2,0 - 63A	2,0 - 80A	6,0 - 63A
Tripping characteristic C	0,3 - 63A	0,3 - 80A	0,3 - 63A
Tripping characteristic D	0,3 - 63A	0,3 - 63A	0,3 - 63A
Rated short circuit capacity I _{cn} , acc. IEC 60898-1	6kA	10kA	15kA
Further ratings according manufacturer documentation			

Application/Limitation

Location Classes:

Temperature: B, Humidity: B, Vibration: A

Enclosure: IP20 with connected conductors, IP40 in the area of the handle with distribution cover

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.



Job Id:
Certificate No: **TAE00001E3**

Name and place of manufacturer

Siemens AG Low Voltage
Siemensstraße 10
93055 Regensburg
Germany

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