DNV·GL

Certificate No:
TAE00003NC

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Electrical Equipment

with type designation(s)
5ST3...

Issued to
Siemens AG
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 **2019-08-27**
This Certificate is valid until **2024-08-26**.
DNV GL local station: **Augsburg**

Approval Engineer: **Harald Amberger**

for **DNV GL**

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

Siemens Control Switch

Types:
5ST3010, 5ST3011, 5ST3012, 5ST3010-OHG, 5ST3011-OHG, 5ST3012-OHG
5ST3013, 5ST3014, 5ST3015, 5ST3016
5ST3020, 5ST3021, 5ST3022, 5ST3020-OHG, 5ST3021-OHG, 5ST3022-OHG

Technical Data:

Rated operational voltage Ue	: 230 V, 400 V AC; 220V, 110 V, 60 V, 24 V DC
Rated insulation voltage Ui	: 440 V
Rated impulse withstand voltage Uimp	: 4 kV
Conventional free air thermal current Ith	: 16 A
Rated operational current Ie (40°C)	: 6 A, 2 A (AC); 1 A, 3 A, 6 A (DC)*
Rated frequency	: 50/60Hz; DC
Utilization caterory	: AC-14 (NO); AC-13 (NC); DC-13
Rated conditional short-circuit current	: 1 kA
Kind of protective device	: 6 A gG
Degree of pollution	: 3
Overvoltage category	: II
*5ST3013, 5ST3014, 5ST3015, 5ST3016	: Un 5-30 V; In 1-50 mA (DC)

Application/Limitation

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

Operating instruction of the manufacturer to be observed

Type Approval documentation

Tests carried out

IEC 60947-5-1: 2003 (3rd Edition) + A1:2009, cold, dry heat, damp heat, vibration, flame retardancy.

Marking of product

Siemens - Type designation - Main data.

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