TYPE APPROVAL CERTIFICATE

Certificate No:
TAE000018B
Revision No:
2

This is to certify:

That the Overcurrent- and Short-Circuit Relay

with type designation(s)
3RB3.1..., 3RB3.2..., 3RB3.3..., 3RB3.4

Issued to
Siemens AG GWA
Amberg, Bayern, Germany

is found to comply with
DNV 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.

Issued at **Hamburg** on **2022-03-08**

This Certificate is valid until **2027-03-07**.
DNV local station: **Augsburg**

Approval Engineer: **Harald Amberger**

for **DNV**

Digitally Signed By: Schaarmann, Arne
Location: DNV GL SE Hamburg, Germany
Signing Date: 2022-03-08

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

Electronic overload relay 3RB3… **Ratings**	
Operational voltage Ue	690V / 1000V[1]
Insulation voltage Ui	690V / 1000V[1]
Impulse withstands voltage Uimp	6kV / 8kV[1]
Type / Size	3RB3016, 3RB3113 / S00 3RB3026, 3RB3123 / S0 3RB3036, 3RB3133 / S2 3RB3046, 3RB3143 / S3
Operational current Ie (40°C)	3RB3016 / 3RB3113: max. 16A 3RB3026 / 3RB3123: max. 40A 3RB3036 / 3RB3133: max. 80A 3RB3046 / 3RB3143: max. 115A
Trip class	3RB30.6, class 10E/20E 3RB31.3, class 5E/10E/20E/30E, adjustable 3RB31.3, Ground fault protection
Range of settings	3RB3016 / 3RB3113: 0,1-0,4A up to 4-16A 3RB3026 / 3RB3123: 0,1-0,4A up to 10-40A 3RB3036 / 3RB3133: 12,5-50A up to 20-80A 3RB3046 / 3RB3143: 12,5-50A up to 32-115A
Method of control	Manual / Automatic
Ratings auxiliary contacts	
Operational voltage Ue	250V
Insulation voltage Ui	300V
Operational current Ie	5A
Frequency	50 / 60Hz, dc
Utilization category	AC-15: 24V / 4A, 125V / 4A, 250V / 3A DC-13: 24V / 2A, 125V / 0,3A, 250V / 0,11A
[1]For relays with straight-trough transformers and Type 3RB3.4… Further ratings according manufacturer documentation	

Accessories; Basic types	
3RU2916-	Terminal support for stand-alone installation, Size S00
3RU2926-	Terminal support for stand-alone installation, Size S0
3RU2936-	Terminal support for stand-alone installation, Size S2
3RU2946-	Terminal support for stand-alone installation, Size S3
3RB3980-0A	Mechanical reset for 3RB30/3RB31 Size S00...S3
3RB3980-0B	Cable release with holder for 3RB30/3RB31 Size S00...S3, 0.4m
3RB3980-0C	Cable release with holder for 3RB30/3RB31 Size S00...S3, 0.6m
3SB3000-0EA11	Pushbutton stroke with raised button with holder
3SX1335	Extension plunger for pushbutton
3RB3984-0	Sealable cover cap for 3RB30/3RB31 Size S00...S3

Ratings and mounting locations according manufacturer documentation.

Application/Limitation

Location Classes:
Temperature: D, Humidity: B, Vibration: A, EMC: A, Degree of protection: IP on the front according to IEC 60529 IP20
Required protection acc. DNV rules shall be provided upon installation on ship.

For installation inside switchboards/ enclosures onboard ships and offshore units.
With Uimp=6kV; Overvoltage category II applies for applications in IT systems > 600 V.

Type Approval documentation

IEC Type Test Certificate: 3258a, 3364, Environmental Test: 14032ENV01, 14032ENV01, 21-E008998-BM-B01

Tests carried out

IEC 60947-4-1, IEC 60947-5-1, IEC 61812-1, cold, dry heat, damp heat, vibration, flame retardancy, EMC.

Marking of product

Manufacturer's label containing data and manufacturers type number.

Name and place of manufacturer

Siemens AG, GWA
Werner-von-Siemens-Str. 48
92220 Amberg
Germany

Siemens s.r.o., odštěpný závod
Nízkonapěť ová spínací technika
Volanovská 516
541 01 Trutnov
Czech Republic

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