

Certificate No: **TAE000014S**

TYPE APPROVAL CERTIFICATE

This is to certify:	
That the Thermal Overload Relay	
with type designation(s) 3RU21	
Issued to Siemens AG, GWA Amberg, 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 in by DNV GL.	nstallation on all vessels classed
This Certificate is valid until 2021-06-26 .	
Issued at Hamburg on 2016-06-27	
DNV GL local station: Augsburg	for DNV GL
Approval Engineer: Harald Amberger	
	Duy Nam Le
	Head of Section

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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

Thermal overload relay 3RU21 Ratings		
Operational voltage Ue	690V	
Insulation voltage Ui	690V	
Impulse withstands voltage Uimp	6kV	
Type / Size	3RU2116. / S00	
	3RU2126. / S0	
	3RU2136. / S2	
Operational current Ie (40°C)	3RU2116 : max. 16A	
,	3RU2126 : max. 40A	
	3RU2136 : max. 80A	
Trip class	class 10 : for types 3RU2116 and 3RU2126	
	class 10 : for types 3RU2136 rated 5,5-65A	
	class 10A: for types 3RU2136 rated 62-80A	
Range of settings	3RU2116: 0,11-0,16A up to 11-16A	
	3RU2126: 1,8-2,5A up to 34-40A	
	3RU2136 : 5,5-8A up to 70-80A	
Method of control	Manual / Automatic	

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	
3RU2900-1A	Mechanical RESET (for all sizes)	
3RU2900-1B/1C	Cable releases with holder for RESET	
3RU1900-2A	Modules for remote RESET, electrical	
3RU29/3RT29	Terminal covers	

Ratings and mounting locations according manufacturer documentation.

Application/Limitation

Location Classes:

Temperature: D, Humidity: B, Vibration: A, Enclosure: IP20,

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

Certificate No.: 2995b, 2996b, 3208a, 15068ENV01, 09055TMs

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Tests carried out

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

Marking of product

Manucfacturers label containing data and manufacturers type number.

Name and place of manufacturer

Siemens AG, GWA Werner-von-Siemens-Str. 29 93413 Cham 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 Production Sample Tests (PST) and Routines (RT) checked (if not available tests
 according to PST and 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.
- Assessment to be performed at least every 2½ year.

END OF CERTIFICATE

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