



TYPE APPROVAL CERTIFICATE
No. **ELE074021XG/010**

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	OVERLOAD RELAY AND ACCESSORIES
<i>Type</i>	Thermal Overload Relay 3RU21 and accessories
<i>Applicant</i>	SIEMENS AG - GWA WERNER VON SIEMENS STRABE 48 92220 AMBERG GERMANY
<i>Manufacturer</i>	SIEMENS AG - GWA
<i>Place of manufacture</i>	WERNER VON SIEMENS STRABE 29 93413 CHAM GERMANY
<i>Reference standards</i>	Rules for the classification of ships.- Part C - Machinery, systems and fire protection. - Ch.3, Sect. 6, Table 1.

Issued in **Hamburg** on **February 24, 2022**. *This Certificate is valid until* **July 7, 2026**



RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure

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Thermal Overload Relay 3RU21 and accessories

Product Description:

The 3RU21 devices are three pole thermal overload relays to protect electrical motors against overload and phase failures.

1. Thermal overload relay:

Order Code: 3RU21aa - bb c d

aa - Basic Type of 3 pole thermal overload relay:

- 16 - Thermal Overload Relay Size S00
- 26 - Thermal Overload Relay Size S0
- 36 - Thermal Overload Relay Size S2
- 46 - Thermal Overload Relay Size S3

bb - Setting Ranges:

- Size S00: 0A; 0B; 0C; 0D; 0E; 0F; 0G; 0H; 0J; 0K; 1A; 1B; 1C; 1D; 1E; 1F; 1G; 1H; 1J; 1K; 4A
- Size S0: 1C; 1D; 1E; 1F; 1G; 1H; 1J; 1K; 4A; 4B; 4C; 4D; 4N; 4E; 4P; 4F
- Size S2: 1H; 1J; 1K; 4A; 4B; 4D; 4E; 4F; 4G; 4H; 4Q; 4J; 4K; 4R
- Size S3: 4D; 4E; 4F; 4H; 4J; 4K; 4L; 4M

c - Type of Terminals:

B; C; D; J

d - Mounting Type:

0; 1

2. Accessories:

3RU1900-1A; 3RU2900-1A	Mechanical RESET
3RU1900-1B/1C; 3RU2900-1B/1C	Cable releases with holder for RESET
3RU1900-2A; 3RU2900-2A	Modules for remote RESET electrical
3RU19/3RV19/3RT19; 3RU29/3RV29/3RT29	Terminal Covers or sealable covers
3RU2916-3A..; 3RU2926-3A..; 3RU2936-3A..;	Terminal brackets for stand-alone installation
3RU2946-3A..	
3RU2916-3A..; 3RU2926-3A..; 3RU2936-3A;	Connecting support for screw terminal
3RU2946-3A..	
3RU2916-3..; 3RU2926-3..; 3RT2916-4..; 3RT2926-4..	Cover for devices with ring lug terminal
3RV2908-0P	Sealable cover

Technical Data:

Number of poles:	3
Rated operational voltage: U_e / U_i :	690V AC (for 3RU2116, 3RU2126 and 3RU2136) 690V AC/1000V AC (for 3RU2146)
Rated frequency:	50/60Hz
Rated current: I_{th} / I_e :	max 16A (for 3RU2116); max 40A (for 3RU2126); max 80A (for 3RU2136); max. 100A (for 3RU2146)
Rated impulse withstand voltage: U_{imp} :	6kV
Rated conditional short-circuit: I_q :	100kA
Type of Terminals:	Screw, spring-type or ring lug terminals
Method of mounting:	On to contactor or stand alone installation
Tripping class:	Class 10
Degree of protection:	IP20 on the front for screw and spring-type terminals, IP00 on the front for ring lug terminals
Ambient temperature:	40°C up to 70°C (de-rating factor above 60°C)
Temperature compensation:	up to 60°C



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Thermal Overload Relay 3RU21 and accessories

Additional place of manufacture :

Siemens Electrical Apparatus Ltd., Suzhou
455, Zhujiang Road, Suzhou New District,
215129 Suzhou, China

Documents:

Drawings: - A5E03434666000A/RS-AC/004; A5E03434679000A/RS-AD/005; A5E03434777000A/RS-AD/005;
- A5E35332057000A/RS-AA/002; NEZ650200100000/02; NEZ650210100000/02; NEZ650220100000/02;
- NEZ650230100000/02; NEZ650240100000/02; NEZ651200100000/02; NEZ651210100000/02; NEZ651220100000/02;
- NEZ651230100000/02; NEZ651240100000/03;
Operating Instructions: - A5E03733540000A/RS-AB/002; A5E35733929001A/RS-AA/001; NEB650202010000/RS-AA/003;
Equipment under Test 17dr003, Version V3.1, 2018-10-17;
Catalog Excerpt: - IC10-2018_EN;
EU-Declaration of conformity: - 2962.09 dated 2018-06-19;

Test reports:

IPH Institut: - 205486-CC2-1 dated 2014-12-03; 205486-CC2-2 dated 2014-12-03;
Siemens AG: - 08046TMI01 dated 2010-03-26; 08046TMI02 dated 2010-03-26; 08046TMI03a dated 2013-07-11;
- 09055TMs dated 2010-07-30; 10010TMI01 dated 2010-08-13; 10010TMI02 dated 2010-08-13;
- 12079ENI01 dated 2014-02-07; 12079ENI02 dated 2014-02-11; 13051ENI01 dated 2013-07-11;
- 15068ENV01 dated 2016-04-06; 15077IR01 dated 2015-12-07; 15077IR02 dated 2016-08-09;
Type Test Certificates: -2995 b dated 2016-05-23; 2996 b dated 2016-05-23; 3208 a dated 2016-05-23;
- 3344 dated 2016-08-05;
VDE Prüf- und Zertifizierungsinstitut GmbH: - 40010-4402-0034/136201-(01) dated 2010-06-30;
- 40010-4402-0034/136201-(02) dated 2010-06-30; 40010-4402-0034/136201-(03) dated 2010-06-30;
- DE1-42377/A1 dated 2010-07-15; DE1-54971 dated 2014-12-03;

Remarks:

- The products fulfill **EC-Code: 3a1/41**.
- This certificate cancels and replaces the previous certificate ELE305217XG.

Hamburg February 24, 2022

