



**TYPE APPROVAL CERTIFICATE**  
No. ELE141616XG/003

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

*Issued in* **Hamburg** on **September 1, 2016**. *This Certificate is valid until* **August 31, 2021**

  
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

##### 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

##### c - Type of Terminals:

B; C; D; J

##### d - Mounting Type:

0; 1

#### 2. Accessories:

3RU1900-1A; 3RU2900-1A

3RU1900-1B/1C; 3RU2900-1B/1C

3RU1900-2A; 3RU2900-2A

3RU19/3RV19/3RT19; 3RU29/3RV29/3RT29

3RU2916-3A; 3RU2926-3A; 3RU2936-3A

3RU2916-3A..; 3RU2926-3A..; 3RU2936-3A..

3RU2916-3..; 3RU2926-3..; 3RT2916-4..; 3RT2926-4..

3RV2908-0P

Mechanical RESET

Cable releases with holder for RESET

Modules for remote RESET electrical

Terminal Covers or sealable covers

Terminal brackets for stand-alone installation

Connecting support for screw terminal

Cover for devices with ring lug terminal

Sealable cover

#### Technical Data:

Number of poles:

3

Rated operational voltage:  $U_e / U_i$ :

690V AC

Rated frequency:

50/60Hz

Rated current:  $I_{th} / I_e$ :

max 16A (for 3RU2116);

max 40A (for 3RU2126);

max 80A (for 3RU2136)

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:

IP 20

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

#### Documents:

Drawings: - A5E03434666000A Rev. 004; A5E03434679000A Rev. 005; A5E03434777000A Rev. 005;  
- A5E03733540000A/RS-AB/002; NEZ650200100000 Rev. 02; NEZ650210100000 Rev. 02; NEZ650220100000 Rev. 02;  
- NEZ650230100000 Rev. 02; NEZ650240100000 Rev. 02; NEZ651200100000 Rev. 02; NEZ651210100000 Rev. 02;  
- NEZ651220100000 Rev. 02; NEZ651230100000 Rev. 02; NEZ651240100000 Rev. 03;  
Catalog Excerpt: - IC10-2016\_EN;  
Operating Instruction: - A5E03733540000A/RS-AB/002; A5E03733599000A/RS-AA/01; NEB650058250000/RS-AA/002;  
- NEB650202010000/RS-AA/003;  
Equipment Under Test 14dr007 V2.0 dated 2016-06-15;  
EU-Declaration of conformity: - 2962.08 dated 2016-04-20;  
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;  
- Type Test Certificate; 2995 b dated 2016-05-23; 2996 b dated 2016-05-23; 3208 a dated 2016-05-23;  
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:

*This certificate cancels and replaces the previous certificate ELE113910CS. <sup>SN</sup>*

**Hamburg September 1, 2016**

