

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Siemens AG
Address	Werner-von-Siemens-Strasse 48, Amberg, 92220, Germany
Type	Relays - Thermal & Magnetic With Oil Dash Pot
Description	SIRIUS Innovation - Low voltage switchgear overload relays (thermal) Refer to the Appendix for further details.
Trade Name	3RU21
Application	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2 and ENV3 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – 2002.
Specified Standard	IEC 60947-4-1:2009-09+ A1:2012-07 IEC 60947-5-1:2016-05
Ratings	Rated operational voltage Ue: 690 V Rated frequency: 50/60 Hz
Other Conditions	Correction factor for ambient air temperature above 60°C is to be obtained from manufacturer.

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This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 11/20001 (E3)

The Design Appraisal Document HTS/ETS 41744-21/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

TYPE

3RU2116 - B 0
 I II III IV

I. Basic Type of 3 pole thermal overload relay

3RU2116 - Size S00
 3RU2126 - Size S0
 3RU2136 - Size S2
 3RU2146 - Size S3

II. Setting ranges size S00

-0A - 0.11 – 0.16 A
 -0B - 0.14 – 0.2 A
 -0C - 0.18 – 0.25 A
 -0D - 0.22 – 0.32 A
 -0E - 0.28 – 0.4 A
 -0F - 0.35 – 0.5 A
 -0G - 0.45 – 0.63 A
 -0H - 0.55 – 0.8 A
 -0J - 0.7 – 1 A
 -0K - 0.9 – 1.25 A
 -1A - 1.1 – 1.6 A
 -1B - 1.4 – 2 A
 -1C - 1.8 – 2.5 A
 -1D - 2.2 – 3.2 A
 -1E - 2.8 – 4 A
 -1F - 3.5 – 5 A
 -1G - 4.5 – 6.3 A
 -1H - 5.5 – 8 A
 -1J - 7 – 10 A
 -1K - 9 – 12.5 A
 -4A - 11 – 16 A

II. Setting ranges size S0

-1C - 1.8 – 2.5 A
 -1D - 2.2 – 3.2 A
 -1E - 2.8 – 4 A
 -1F - 3.5 – 5 A
 -1G - 4.5 – 6.3 A
 -1H - 5.5 – 8 A

-1J - 7 – 10 A
-1K - 9 – 12.5 A
-4A - 11 – 16 A
-4B - 14 – 20 A
-4C - 17 – 22 A
-4D - 20 – 25 A
-4N - 23 – 28 A
-4E - 27 – 32 A
-4P - 30 – 36 A
-4F - 34 – 40 A

II. Setting ranges size S2

-1H - 5.5 – 8 A
-1J - 7 – 10 A
-1K - 9 – 12.5 A
-4A - 11 – 16 A
-4B - 14 – 20 A
-4D - 18 – 25 A
-4E - 22 – 32 A
-4F - 28 – 40 A
-4G - 36 – 45 A
-4H - 40 – 50 A
-4Q - 47 – 57 A
-4J - 54 – 65 A
-4K - 62 – 73 A
-4R - 70 – 80 A

II. Setting Ranges Size S3

-4D - 18 – 25 A
-4E - 22 – 32 A
-4F - 28 – 40 A
-4H - 36 – 50 A
-4J - 45 – 63 A
-4K - 57 – 75 A
-4L - 70 – 90 A
-4M - 80 – 100 A

III. Type of terminals

B - S00/S0/S2/S3: Screw terminals

C - S00/S0: Spring terminals

D - S2/S3: Main circuit: Screw terminals; Auxiliary circuit: Spring terminals

J - S00/S0: Ring lug terminals

IV. Mounting type

- 0 - For mounting to the contactor
- 1 - Standalone mounting

Accessories for thermal overload relay

3RU1900	-	2A	B71
I		II	III

I. Basic Type

- 3RU1900 - Remote reset for use with 3RU1 and 3RU2
- 3RU2900 - Remote reset for use with 3RU2

II. Type of function

- 1A - mechanical remote reset, stabile
 - 1B - mechanical remote reset, flexible 400 mm
 - 1C - mechanical remote reset, flexible 600 mm
 - 2A - electrical mechanical remote reset
- Voltage ratings (for types 2A with screw terminals)
- B71 - 24 - 30 V ac/dc
 - F71 - 110 - 127 V ac/dc
 - M71 - 220 - 250 V ac/dc

Further accessories suitable for thermal overload relay size S00

- 3RU2916-3AA01 - Connecting support for screw terminal
- 3RU2916-3AC01 - Connecting support for spring terminal
- 3RU2916-3BJ21 - Cover for devices with ring lug terminal
- 3RU2916-3BJ20 - Cover for devices with ring lug terminal
- 3RT2916-4EA13 - Cover for devices with ring lug terminal
- 3RV2908-0P - Sealable cover

Further accessories suitable for thermal overload relay size S0

- 3RU2926-3AA01 - Connecting support for screw terminal
- 3RU2926-3AC01 - Connecting support for spring terminal
- 3RU2926-3BJ21 - Cover for devices with ring lug terminal
- 3RV2928-4AA00 - Cover for devices with ring lug terminal
- 3RT2916-4EA13 - Cover for devices with ring lug terminal

3RV2908-0P - Sealable cover

Further accessories suitable for thermal overload relay size S2
3RU2936-3AA01 - Connecting support for screw terminal
3RV2908-0P - Sealable cover

Further accessories suitable for thermal overload relay size S3
3RU2946-3AA01 - Connecting support for screw terminal
3RT2946-4EA2 - Terminal Cover
3RT1946-4EA1 - Cover for ring lug and busbar connection
3RV2908-0P - Sealable cover

PLACES OF PRODUCTION

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Germany

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