

Certificate No: TAE000005Z

TYPE APPROVAL CERTIFICATE

his is to certify:
hat the Overcurrent- and Short-Circuit Relay
ith type designation(s) RU11
Siemens AG GWA Siemens, Germany
found to comply with et Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det orske Veritas' Offshore Standards
pplication:
roduct(s) approved by this certificate is/are accepted for installation on all vessels classed y DNV GL.
nis Certificate is valid until 2018-12-31 .
sued at Høvik on 2015-09-21 for DNV GL
NV GL local station: Essen
pproval Engineer: Marta Alonso Pontes
Marit Laumann Head of Section

Form code: TA 1411a Revision: 2015-05 © DNV GL 2014. DNV GL and the Horizon Graphic are trademarks of DNV GL AS. www.dnvgl.com Page 1 of 3

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.

Job Id: **262.1-011117-2** Certificate No: **TAE000005Z**

Product description

Overload Relays type Sirius 3RU 1116/ 1126/ 1136/ 1146 according to size and power range as listed below. Max operating voltage = 690 V. Insulation voltage = 600 (IT-net) or 1000 V. Frequency = 50/60 Hz.

The Overload Relays are part of the Siemens Sirius 3R system comprising Circuit Breakers, Contactors, Contactor relays, Time relays, Overload relays, Load Feeders and other accessories. All are type approved and listed in various DNV type approval certificates.

3RU1116(size S00)	3-phase motor P_N : 0,06 kW up to 5,5 kW Current setting range: 0,11 A up to 12 A Rated insulated voltage: 600 V (IT-net) .
3RU1126(size S0)	3-phase motor P_N : 0,75 kW up to 11 kW Current setting range: 1,8 A up to 25 A Rated insulated voltage: 600 V (IT-net).
3RU1136(size S2)	3-phase motor P_N : 3 kW up to 22 kW Current setting range: 5,5 A up to 50 A Rated insulated voltage: 1000 V (IT-net).
3RU1146(size S3)	3-phase motor P_N : 11 kW up to 45 kW Current setting range: 18 A up to 100 A Rated insulated voltage: 1000 V (IT-net).

Accessories include adapter to installing as a single unit (3RU19-), remote reset (3RU19-).

Application/Limitation

For installation inside switchboards/ enclosures onboard ships and offshore units.

With Uimp = 6 kV the max. rated voltage is 600 V when used in a IT (ship) net. It can be used in applications with directly earthed systems with rated voltage of 400/690 V.

Type Approval documentation Tests carried out

Type testing in accordance with IEC/ EN60947, dry heat, damp heat, salt mist, vibration, high voltage, EMC, inclination, flame retardancy tests.

Marking of product

Manufacturer's label containing data and manufacturer's type number.

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 Routines (RT) checked (if not available tests according to RT to be carried out)

Form code: TA 1411a Revision: 2015-05 www.dnvql.com Page 2 of 3

Job Id: 262.1-011117-2 Certificate No: TAE000005Z

- 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 second year.

END OF CERTIFICATE

Form code: TA 1411a Revision: 2015-05 www.dnvgl.com Page 3 of 3