DNV·GL

Certificate No:
TAE0000060

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Time Relay

with type designation(s)
3RP

Issued to
Siemens AG GWA
Amberg, Germany

is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until **2018-12-31**.

Issued at **Høvik** on **2015-09-21**

for **DNV GL**

DNV GL local station: **Essen**

Approval Engineer: **Marta Alonso Pontes**

Marit Laumann
Head of Section

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.

© DNV GL 2014. DNV GL and the Horizon Graphic are trademarks of DNV GL AS.

Product description

Solid-State Time Relays type Sirius 3RP 10..-/ 15..-/ 19..-/ 20..- according to function and time setting as listed below. Operating voltage = 24-240 V, 24 V DC. Insulation voltage = 300 V.

The Solid-State Time 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.

3RP1505-….	Multi-function 15 time setting ranges 0,05 sec. up to 100 hours
3RP1525-….	ON-delay function 15 time setting ranges 0,05 sec. up to 100 hours
3RP1540-….	OFF-delay function 7 time setting ranges 0,05 sec. up to 100 sec.
3RP157.-….	Star-delta function 1 time setting range 1 sec. up to 60 sec.
3RP153.-….	OFF-delay function 1 time setting range0,5 sec. up to 100 sec.
3RP1555-….	Clock-pulse relay 15 time setting ranges 0,05 sec. up to 100 hours
3RP1527-….	ON-delay functions, 4 time setting ranges 0,05 sec. up to 240 Sec.
3RP19..-….	Accessories
3RP2005-….	Multifunction 15 times setting ranges 0,05 sec. up to 1000
3RP2025-….	ON-delay function 15 times setting ranges 0,05 sec. up to 1000

Accessories include mechanical installation equipment.

Application/Limitation

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

Type Approval documentation
Tests carried out

IEC / EN60947, dry heat, damp heat, salt mist, vibration, high voltage, EMC, inclination, flame retardancy.

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)
- 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