



Marine & Offshore

Certificate number: 42595/A0 BV

File number: ACE10/726/3

Product code: 2656D

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**Siemens AG - GWA**

Amberg - GERMANY

*for the type of product*

**AUXILIARY RELAYS**

Time Relays Type 3RP25

### Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

EC Code: 31

IEC 61812-1:2011

IEC 60947-5-1:2016

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 27 Nov 2024**

**For Bureau Veritas Marine & Offshore,**

At BV HAMBURG, on 27 Nov 2019,

Dirk Hoepfner



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION :

**3RP25** series are time relays in 22.5 mm or 17.5 mm housing for rail mounting or push-in lugs screw mounting.

#### **Variants:**

Type: **3RP25 a b c d e f**

#### **a= Function**

- 0 - Multi function
- 1 - On- delay, one time setting range
- 2 - On- delay, More than one time setting range
- 3 - Off- delay, more than one time setting range, with auxiliary voltage
- 4 - Off- delay, more than one time setting range
- 5 - Clock pulse
- 6 - Star delta with idling time
- 7 - Star delta

#### **b= Time setting ranges**

- 0 - 0.05 to 600 seconds
- 1 - 0.5 to 10 seconds
- 2 - 1.5 to 30 seconds
- 3 - 5 to 30 seconds
- 4 - 1 to 20 seconds
- 5 - 0.05 to 100 hours in 7 different time ranges
- 6 - 3 to 60 seconds
- 7 - 0.05 to 240 seconds in 4 different time ranges

#### **c= Type of terminals**

- 1 - Screw terminal
- 2 - Push- in terminal

#### **d= Switching elements**

- A - Relay output, 1 change over contact
- B - Relay output, 2 changeover contacts
- C - Solid state, ac/dc , 1 NO
- E - Solid state, ac/dc single wire, 1 NO
- N - Relay output, 2 NO
- S - Relay output, 3 NO
- R - Relay output, 2 changeover contacts

#### **e= Operating Voltage**

- W - 12 to 240 V ac/dc except 3RP250- RW30: 24 to 240V ac/dc
- M - 200 to 240V and 380 to 440V ac
- B - 24 V ac/dc
- T - 400 to 440V ac

#### **f= Frequency**

- 2 - 50/60 Hz ac
- 3 - 50/60 Hz ac or dc

#### **Accessories:**

- 3ZY1311-0AA00 – Push-in Lug
- 3ZY1321-1AA00 – Sealing cap 17.5 mm
- 3ZY1321-2AA00 – Sealing cap, 22.5 mm

### 2. DOCUMENTS AND DRAWINGS :

- A5E32807449000F Rev.002 dated 2014-09-11
- 3ZX1012-0RP25-1AA1 dated 16 June 2014
- IC 10.2015, 3304a dated 2019-07-02

**3. TEST REPORTS :**

TÜV Rheinland LGA Products GmbH

- 21240560-001 dated Sep 24, 2015; 21240560-002 dated Sep 23,2015

Vojensky technicky listav, s.p.

- 194300-401/2015 dated 1.9.2015; 194300-400/2015 dated 1.9.2015

- 194000-397/2015 dated 19.10.2015; 194300-396/2015 dated 19.10.2015

- 194300-394/2015 dated 19.10.2015; 194300-392/2014 dated 19.10.2015

**4. APPLICATION / LIMITATION :**

4.1 - Bureau Veritas Rules for the Classification of Steel Ships

4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT** and **AUT-IMS**.

4.3 - Bureau Veritas Environmental Category, **EC Code: 31**

4.4 - Equipment is to be supplied with manual(s) for installation, use and maintenance.

**5. PRODUCTION SURVEY REQUIREMENTS :**

5.1 - The above mentioned products are to be supplied by **Siemens AG - GWA** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **Siemens AG - GWA** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

**Siemens AG - GWA**  
**Werner-von-Siemens Str. 48**  
**92224 Amberg**  
**Germany**

**6. MARKING OF PRODUCT :**

According to IEC standard.

**7. OTHERS :**

It is the responsibility of **Siemens AG - GWA** to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

\*\*\* END OF CERTIFICATE \*\*\*