



Marine & Offshore

Certificate number: 39874/B0 BV

File number: ACE2/17/18

Product code: 2652H

*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*

**ABB STOTZ-KONTAKT GmbH**

Heidelberg - GERMANY

*for the type of product*

**OVER-LOAD RELAYS OR RELEASES**

TF140DU-series

**Requirements:**

Bureau Veritas Rules for the Classification of Steel Ships  
IEC 60947-4-1:2012

*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: 28 Jun 2026**

**For Bureau Veritas Marine & Offshore,**

At BV HAMBURG, on 28 Jun 2021,

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](http://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 2 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION:

TF140DU and TF140DU-xx-V1000 series are thermal overload relays.

#### **1.1 - Main characteristics:**

Rated operational voltage U<sub>e</sub>: 690V AC, 50/60Hz  
 Trip class: 10A  
 Mounting on contactor: AF-series  
 Degree of protection: IP20

#### **1.2 - Variants of TF140DU:**

Type	Order code	Setting range [A]
TF140DU-90	1SAZ431201R1001	66-90
TF140DU-110	1SAZ431201R1002	80-110
TF140DU-135	1SAZ431201R1003	100-135
TF140DU-142	1SAZ431201R1004	110-142
TF140DU-90-V1000*	1SAZ431301R1001	66-90
TF140DU-110-V1000*	1SAZ431301R1002	80-110
TF140DU-135-V1000*	1SAZ431301R1003	100-135
TF140DU-142-V1000*	1SAZ431301R1004	110-142

\* With ATEX certification

### 2. DOCUMENTS AND DRAWINGS:

- 2CDC 106 061 D0201 dated 07.2014; 1SBC100173C0201; 1SAZ400404 Rev. A;  
 - 1SAZ431201 Rev. A dated 03.12.12; 2CDC 106 050 M6801(d) dated 01.2013  
 - DEKRA EXAM GmbH: BVS 14 ATEX F 002 dated 2014-07-09

### 3. TEST REPORTS:

- China Quality Certification Centre: CN23763 dated 2012-06-15  
 - Paconsult GmbH: - 14-5678 dated 17 March 2014  
 - Shanghai Testing & Inspection Institute for Electrical Equipment: C009-CB2012CQC-041686 dated 2012-05-29

### 4. APPLICATION/LIMITATION:

4.1 - Bureau Veritas Rules and Regulations for the Classification of Steel Ships and IEC 60947 series.  
 4.2 - Bureau Veritas Environmental Category, **EC Code: 31**  
 4.4 - Ex-certification is not covered by this certificate. Applications in hazardous areas are to be approved in each case according to the Rules and Conditions for Safe Use specified in a valid Ex-Certificate issued by a Notified or Recognised Certification Body.

### 5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above mentioned products are to be supplied by **ABB STOTZ-KONTAKT GmbH** 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 - **ABB STOTZ-KONTAKT GmbH** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products:

**ABB Bulgaria EOOD**  
**1, Varna Str.**  
**2850 Petrich**  
**BULGARIA**

### 6. MARKING OF PRODUCT:

- According to IEC 60947 specification

### 7. OTHERS:

7.1 - It is the responsibility of **ABB STOTZ-KONTAKT GmbH** 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.  
 7.2 - This certificate supersedes the Type Approval Certificate N° 39874/A0 BV issued on 07 Jan 2015 by the Society.

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