



TYPE APPROVAL CERTIFICATE

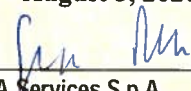
No. ELE098115XG

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	Thermal overload relay
<i>Type</i>	Thermal Overload Relay TF65; TF96 and TF140DU
<i>Applicant</i>	ABB STOTZ-KONTAKT GMBH EPPELHEIMER STR. 82 69123 HEIDELBERG GERMANY
<i>Manufacturer</i>	ABB STOTZ-KONTAKT GMBH
<i>Place of manufacture</i>	SEE ATTACHMENT
<i>Reference standards</i>	IEC 60947-2:2006 (ed.4) am1:2009 and RINA Rules for the Classification of the Ships, Part C, Ch. 3, Sec 6

Issued in **HAMBURG** on **August 6, 2015**. This Certificate is valid until **August 5, 2020**





RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure

TYPE APPROVAL CERTIFICATE

No. **ELE098115XG**

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Thermal Overload Relay TF65

TF96 and TF140DU

Model type: TF 65

Ratings and principal characteristics :

Main Circuit:

Standards

EC/EN 60947-1, IEC/EN 60947-4-1, IEC/EN 60947-5-1

Rated operational voltage Ue

690 V AC

Rated frequency

50/60 Hz

Trip class

10

Number of poles

3

Duty time

100 %

Operating frequency without early tripping duty"

Up to 15 operations/h, see "Technical diagram - Intermittent periodic

Rated impulse withstand voltage Uimp

8 kV

Rated insulation voltage Ui

690 V

Model type: TF96

Ratings and principal characteristics :

Standards

IEC/EN 60947-1, IEC/EN 60947-4-1, IEC/EN 60947-5-1

Rated operational voltage Ue

690 V AC

Rated frequency

50/60 Hz

Trip class

10

Number of poles

3

Duty time

100 %

Operating frequency without early tripping duty"

Up to 15 operations/h, see "Technical diagram - Intermittent periodic

Rated impulse withstand voltage Uimp

8 kV

Rated insulation voltage Ui

690 V

Model type: TF140DU

Ratings and principal characteristics :

Standards

IEC/EN 60947-1, IEC/EN 60947-4-1, IEC/EN 60947-5-1

Rated operational voltage Ue

690 V AC

Rated frequency

DC, 50/60 Hz

Frequency range

0 ... 400 Hz

Trip class

10A

Number of poles

3

Duty time

100 %

Operating frequency without early tripping duty"

Up to 15 operations/h, see "Technical diagram - Intermittent periodic

Rated impulse withstand voltage Uimp

8 kV

Rated insulation voltage Ui

690 V

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Thermal Overload Relay TF 65;
TF96 and TF140DU

Places of Manufacture:

TF65 and TF96:

ABB Xinhui low Voltage Switchgear Co. Ltd.
Jinguzhou Industrial Development Zone
Xinhui District , JiangMen, Guangdong
529100 China

TF140DU:

ABB Low Voltage Products and Systems
Herspicka 13
61900 Brno
Czech Republic

Documents

- Test reports
 - Atex_TF140DU_eng.pdf
 - Cal2014003.pdf
 - D2014003.pdf
 - Environmental_14-5678-BE-Thermal Overload Relays.pdf
 - TF140DU_CB2012CQC-041686.pdf
 - TF65-CB2014CQC-057827.pdf
 - TF96-CB2014CQC-057828.pdf
- Technical Data Sheets
 - Catalog_1SBC100173C0201.pdf
 - TF140DU_Datasheet_2CDC106061D0201.pdf
 - TF140DU_Installation_instruction_2CDC106050M6801d.pdf
 - TF65_Installation_instruction_2CDC106051M6801.pdf
 - TF65_TF96_Datasheet_2CDC106069D0201.pdf
 - TF96_installation_instruction_2CDC106052M6801.pdf

HAMBURG August 6, 2015

