



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:

IECEx BVS 17.0066

issue No.:0

Certificate history:

Status:

Current

Date of Issue:

2018-01-24

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Applicant:

ABB STOTZ-KONTAKT GmbH  
Eppelheimer Straße 82  
69123 Heidelberg  
Germany

Equipment:

Thermal overload relay type TF65-\*\*

*Optional accessory:*

Type of Protection:

Equipment protection by flameproof enclosures "d", Equipment dust ignition protection by enclosure "t", Equipment protection by increased safety "e"

Marking:

[Ex]

*Approved for issue on behalf of the IECEx  
Certification Body:*

Jörg Koch

Position:

Head of Certification Body

*Signature:*

*(for printed version)*

  
24.1.18

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

DEKRA EXAM GmbH  
Dinnendahlstrasse 9  
44809 Bochum  
Germany

 **DEKRA**  
On the safe side.



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Manufacturer: **ABB STOTZ-KONTAKT GmbH**  
Eppelheimer Straße 82  
69123 Heidelberg  
Germany

## Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

## STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2011</b>	Explosive atmospheres - Part 0: General requirements
Edition: 6.0	
<b>IEC 60079-1 : 2014-06</b>	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition: 7.0	
<b>IEC 60079-31 : 2013</b>	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition: 2	
<b>IEC 60079-7 : 2015</b>	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition: 5.0	

*This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

## TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

### Test Report:

**DE/BVS/ExTR18.0005/00**

### Quality Assessment Report:

**DE/BVS/QAR14.0004/04**



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

#### General product information:

See Annex

#### SPECIFIC CONDITIONS OF USE: NO



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## EQUIPMENT(continued):

### Electrical parameters

Number of poles:	3
Number of aux. contacts break contact:	1
Number of aux. contacts make contact:	1
Rated insulating voltage ( $U_i$ ):	main circuit 690 V AC
Rated operational voltage ( $U_e$ ):	main circuit 690 V AC
	aux. circuit 600 V
Rated operational currents ( $I_e$ ):	depends on type of series TF65-**

For each module of the respective current setting range there is an own curve in place that shows the release time in relation to x-time the nominal current (two-poles or three-poles) in compliance with the requirements of explosion protection.

Current type:	AC, DC
Rated impulse withstand voltage ( $U_{imp}$ ):	main circuit 8 kV aux. circuit 6 kV
Trip class:	10

The trip class of all modules is identical.

### Other parameters

Contamination class:	3
Degrees of protection:	IP20
Terminals:	screw-type terminals
Ambient temperature range:	-25 °C...+60 °C

The ambient temperature range of all modules and variants is identical. Contrary to IEC 60947-4-1

the ambient temperature range has been extended.



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**Annex**  
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## General product information:

The thermal overload relays were tested according to IEC 60947-4-1:2009 and IEC 60947-5-1:2003.

A thermal overload relay (bi-metallic overload relay) has been installed, which has a delaying effect and a phase failure protection, so that the switches of the safety device (protective device for indirect temperature control) can be used to protect motors in order to avoid non-permitted temperatures.

In general they can be used if the electrical engine is protected by indirect temperature monitoring. This should be stated in the Test Report. The thermal overload relay will be erected outside of the hazardous area.

The thermal overload relays are safety devices. They contribute to or are required for the safe functioning of equipment with respect to the hazards of ignition or with respect to the hazard of uncontrolled explosion. The overload relays can be used as overload protective devices for electric motors of type of protection Ex e 'Increased Safety' or other types of protection, e.g. 'Flameproof Enclosure Ex d' and Dust ignition 'Protection by enclosure Ex t'.

The type series TF65-\*\* consists of 7 modules which differ in their current setting ranges, reaching from 28 A to 67 A. The individual types of each module are of identical electrical construction. In the full labelling, the asterisk (\*) will be replaced by the maximum rated operating current which can be set and which stands for the following values:

Type	Order number	Current setting range [A]
TF65-28	1SAZ811201R1001	22 – 28
TF65-33	1SAZ811201R1002	25 – 33
TF65-40	1SAZ811201R1003	30 – 40
TF65-47	1SAZ811201R1004	36 – 47
TF65-53	1SAZ811201R1005	44 – 53
TF65-60	1SAZ811201R1006	50 – 60
TF65-67	1SAZ811201R1007	57 – 67