



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.: **IECEx BVS 17.0070**

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Certificate history:

[Issue 0 \(2018-01-22\)](#)

Status: **Current**

Issue No: 1

Date of Issue: 2019-12-09

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

Equipment: **Motor starter type MS165-\*\***

Optional accessory:

Type of Protection: **Flameproof enclosures "d", Dust ignition protection by enclosure "t", 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)

Date:

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 [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**DEKRA Testing and Certification GmbH**  
Certification Body  
Dinnendahlstrasse 9  
44809 Bochum  
Germany

 **DEKRA**  
On the safe side.



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Manufacturer: **ABB Xinhui Low Voltage Switchgear Company Limited**  
Jinguzhou Industrial Development Zone  
Xinhui District  
Jiangmen City, Guangdong Province 529100  
**China**

Additional  
manufacturing  
locations:

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 equipment 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

**IEC 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-1:2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

**IEC 60079-7:2017** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

This Certificate **does not** indicate compliance with 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/ExTR18.0004/01](#)

Quality Assessment Report:

[DE/BVS/QAR14.0004/06](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

### **General product information:**

The motor starters MS165-\*\* were tested according to IEC 60947-4-1:2018 and IEC 60947-2:2016.

A thermally delayed tripping device has been installed with a function for motor protection in case of phase failure; therefore, the motor starters can be used as safety devices (protective devices for indirect temperature control) in order to protect motors by avoiding the occurrence of excess temperatures at the motor. The motor starters will be erected outside of hazardous areas.

The manual motor starters are electromagnetic protective devices for the mains circuit. They are protective switches with bimetallic triggers. The motor current flows through the bimetallic tripping units and heats them up – directly and indirectly. In case of overload or overcurrent the bimetallic components bend to one side and interrupt – with a thermal delay – the mains circuit.

The motor starters are short-circuit resistant, sensitive to phase failure and equipped with a setting scale in amperes in order to set the required nominal current of the motor within certain limits. The series MS165-\*\* consists of 9 sizes which differ in their current setting ranges from 16 A to 80 A. The individual types of each size are of identical mechanical and electrical design. In the full text labelling, the asterisk will be replaced by the maximum rated servicing current to be set with the following meanings:

Table see Annex

### **Electrical parameters**

See Annex

### **Other parameters**

See Annex

**SPECIFIC CONDITIONS OF USE: NO**



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

- Devices for the current ranges up to 73 A and 80 A were added.
- Testing of the device series according to the product standards IEC 60947-2:2016 and IEC 60947-4-1:2018 for the utilization category AC-3e.