



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

Certificate No.: **IECEX BVS 17.0070** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 Issue 1 (2019-12-09)
Date of Issue: 2025-05-26 Issue 0 (2018-01-22)
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:

Dr Franz Eickhoff

Position:

**Senior Lead Auditor, Certification Manager and officially
recognised expert**

Signature:
(for printed version)


2025-05-26

Date:
(for printed version)

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Certificate issued by:

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





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Manufacturer: **ABB STOTZ-KONTAKT GMBH**
Eppelheimer Strasse 82
69123 Heidelberg
Germany

Manufacturing locations: **ABB STOTZ-KONTAKT GMBH**
Eppelheimer Strasse 82
69123 Heidelberg
Germany

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

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](#) 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/QAR14.0004/12](#)



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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)

The production site of the applicant itself has been added as manufacturing location.

Annex:

[BVS_17_0070_ABB_Stotz_Issue2_Annex.pdf](#)



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Annex

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General product information

Table1: type overview

Type	Order number	Current setting range [A]
MS165-16	1SAM451000R1011	10 – 16
MS165-20	1SAM451000R1012	14 – 20
MS165-25	1SAM451000R1013	18 – 25
MS165-32	1SAM451000R1014	23 – 32
MS165-42	1SAM451000R1015	30 – 42
MS165-54	1SAM451000R1016	40 – 54
MS165-65	1SAM451000R1017	52 – 65
MS165-73	1SAM451000R1018	62 – 73
MS165-80	1SAM451000R1019	70 – 80

Electrical parameters

Number of poles: 3

Rated insulation voltage (U_i): 1000 V

Rated operational voltage (U_e): main circuit 690 V AC

Rated operational current (I_e): Depends on type of series MS165-**,

For each size and its current setting range an own curve is in place; this curve shows the triggering time in relation to x times the nominal current (three poles / two poles) in compliance with the requirements of explosion protection.

Current type: AC

Rated impulse withstand voltage (U_{imp}): mains circuit 8 kV

Tripping class: 10

The tripping class of all modules is identical

Other parameters

Degree of pollution: 3

Utilisation category: AC-3

Degree of ingress protection: IP20

Terminals: screw-type terminals

Ambient temperature range: -25 °C to +60 °C

The ambient temperature range is identical for all sizes and variations. Compared to IEC 60947-4-1 the ambient temperature range has been enlarged.