



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 17.0072**

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Certificate history:

[Issue 0 \(2018-05-03\)](#)

Status: **Current**

Issue No: 1

Date of Issue: 2020-08-27

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

Equipment: **Motor starter type MS132-* and MS132-*K**

Optional accessory:

Type of Protection: **Increased Safety "e"**

Marking: [Ex eb Gb]

Approved for issue on behalf of the IECEx
Certification Body:

Dr Michael Wittler

Position:

Deputy 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 or use of this QR Code.



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

Additional manufacturing locations: **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 60079-7:2017 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/ExTR18.0030/01](#)

Quality Assessment Report:

[DE/BVS/QAR14.0004/07](#)



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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):

Parameters

Electrical parameters

Number of poles:	3
Rated insulating voltage (U_i):	690 V
Rated operational voltage (U_e):	690 V AC / 250 V DC
Rated operational currents (I_e):	Depends on type of series MS132-* and MS132-*K, 0.1-32 A. 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, DC
Rated impulse withstand voltage(U_{imp}):	main circuit 6 kV
Trip class:	10
The trip class of all modules is identical.	

Other parameters

Contamination class:	3
Utilisation category:	AC-3/AC-3e
Degrees of protection:	IP20
Terminals:	
For MS132-*	screw type
For MS132-*K	push-in spring type
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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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Additional production site was registered.
- The devices are tested according new product standard IEC 60947-4-1:2018.
- The devices are tested according new standard IEC 60079-7:2017.
- The marking was changed to associated devices.

Annex:

[BVS_17_0072_ABB_Stotz_Annex_issue_1.pdf](#)



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General product information:

The motor starters 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 protective devices for indirect temperature control in order to protect motors by avoiding the occurrence of excess temperatures at the motor. This should be stated in the Test Report. The motor starters will be erected outside of the hazardous area.

The motor starters are associated devices and 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 motor starters 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 MS132-* and MS132-*K consists of 15 modules each which differ in the terminal connection. The MS132-* series is equipped with screw type terminals while the MS132-*K series uses push-in spring terminals. 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:

For the MS132-* series with screw type terminals:

Type	Order number	Current setting range
MS132-0.16	1SAM350000R1001	0.10 – 0.16
MS132-0.25	1SAM350000R1002	0.16 – 0.25
MS132-0.4	1SAM350000R1003	0.25 – 0.40
MS132-0.63	1SAM350000R1004	0.40 – 0.63
MS132-1.0	1SAM350000R1005	0.63 – 1.00
MS132-1.6	1SAM350000R1006	1.00 – 1.60
MS132-2.5	1SAM350000R1007	1.60 – 2.50
MS132-4.0	1SAM350000R1008	2.50 – 4.00
MS132-6.3	1SAM350000R1009	4.00 – 6.30
MS132-10	1SAM350000R1010	6.30 – 10.00
MS132-12	1SAM350000R1011	8.00 – 12.00
MS132-16	1SAM350000R1012	10.00 – 16.00
MS132-20	1SAM350000R1013	16.00 – 20.00
MS132-25	1SAM350000R1014	20.00 – 25.00
MS132-32	1SAM350000R1015	25.00 – 32.00



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For the MS132-*K series with push-in spring terminals:

Type	Order number	Current setting range
MS132-0.16K	1SAM350010R1001	0.10 – 0.16
MS132-0.25K	1SAM350010R1002	0.16 – 0.25
MS132-0.4K	1SAM350010R1003	0.25 – 0.40
MS132-0.63K	1SAM350010R1004	0.40 – 0.63
MS132-1.0K	1SAM350010R1005	0.63 – 1.00
MS132-1.6K	1SAM350010R1006	1.00 – 1.60
MS132-2.5K	1SAM350010R1007	1.60 – 2.50
MS132-4.0K	1SAM350010R1008	2.50 – 4.00
MS132-6.3K	1SAM350010R1009	4.00 – 6.30
MS132-10K	1SAM350010R1010	6.30 – 10.00
MS132-12K	1SAM350010R1012	8.00 – 12.00
MS132-16K	1SAM350010R1011	10.00 – 16.00
MS132-20K	1SAM350010R1013	16.00 – 20.00
MS132-25K	1SAM350010R1014	20.00 – 25.00
MS132-32K	1SAM350010R1015	25.00 – 32.00