

Translation

(1) EC-Type Examination Certificate

(2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC

(3) No. of EC-Type Examination Certificate: **BVS 14 ATEX E 009**

(4) Equipment: **Motor starter type MS132-***

(5) Manufacturer: **ABB STOTZ-KONTAKT GmbH**

(6) Address: **Eppelheimer Straße 82, 69123 Heidelberg, Germany**

(7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this type examination certificate.

(8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in the Test and Assessment Report BVS PP 14.2025 EG.

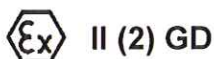
(9) The Essential Health and Safety Requirements are assured by compliance with:

| | |
|--------------------|--|
| EN 60079-0: 2012 | Explosive atmospheres, Part 0: General requirements |
| EN 60079-1: 2007 | Explosive atmospheres, Part 1: Equipment protection by flameproof enclosures 'd' |
| EN 60079-7: 2007 | Explosive atmospheres, Part 7: Equipment protection by increased safety 'e' |
| EN 60079-31: 2009 | Explosive atmospheres, Part 31: Equipment dust ignition protection by enclosure |
| EN 60079-14: 2008 | Explosive atmospheres, Part 14: Electrical installations design, selection and erection |
| EN 60947-1: 2007 | Low-voltage switchgear and control gear, Part 1: General rules |
| EN 60947-4-1: 2010 | Low-voltage switchgear and control gear, Part 4-1: Contactors and motor starters |
| EN 60947-2: 2006 | Low-voltage switchgear and control gear, Part 2: Circuit breakers |

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the appendix to this certificate.

(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:



DEKRA EXAM GmbH
Bochum, dated 2014-02-05

Signed: Simanski

Certification body

Signed: Dr. Wittler

Special services unit

- (13) Appendix to
- (14) **EC-Type Examination Certificate**
BVS 14 ATEX E 009
- (15) 15.1 Subject and type

Motor starter type MS132- *.

15.2 Description

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 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 MS132-* consists of 15 sizes which differ in their current setting ranges from 0.16 A to 32 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:

| 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 |

15.3 Parameters

Electrical parameters:

| | |
|------------------------------------|---|
| Number of poles: | 3 |
| Rated isolation voltage (U_i): | 690 V |
| Rated servicing voltage (U_e): | 690 V AC / 250 V DC A - |
| Rated servicing current (I_e): | Depends on type of series MS132-*, 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 dielectric strength: | mains circuit 6 kV |
| Tripping class: | 10 |

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 EN 60947-4-1 the ambient temperature range has been enlarged. |

(16) Test and Assessment Report

BVS PP 14.2025 EG, as of 2014-02-05

(17) Special conditions for safe use

None

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH
44809 Bochum, 2014-02-05
BVS-Alh/Mu A 20131096



Certification body



Special services unit

Translation

EU-Type Examination Certificate Supplement 1

Change to Directive 2014/34/EU

Safety Device, Controlling Device or Regulating Device intended for use outside a potentially explosive atmosphere but required for or contributing to the safe functioning of Equipment and Protective Systems with respect to the risks of explosion
Directive 2014/34/EU

EU-Type Examination Certificate Number: **BVS 14 ATEX E 009**

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

Manufacturer: **ABB STOTZ-KONTAKT GmbH**

Address: **Eppelheimer Straße 82, 69123 Heidelberg, Germany**

This supplementary certificate extends EC-Type Examination Certificate No. BVS 14 ATEX E 009 to apply to products designed and constructed in accordance with the specification set out in the appendix of the said certificate but having any acceptable variations specified in the appendix to this certificate and the documents referred to therein.

DEKRA EXAM GmbH, Notified Body number 0158, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential Report No. BVS PP 14.2025 EU.

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

IEC 60079-0:2017, Ed.7

EN 60079-1:2014

EN 60079-7:2015

EN 60079-31:2014

EN 60079-14:2014

IEC 60947-4-1:2009 + AMD 1:2012

IEC 60947-2:2016

General requirements

Flameproof enclosure "d"

Increased Safety "e"

Protection by Enclosure "t"

Explosive atmospheres, Part 14:

Electrical installations design, selection and erection

Low-voltage switchgear and control gear,

Part 4-1: Contactors and motor starters

Low-voltage switchgear and control gear,

Part 2: Circuit breakers

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:

 II (2) GD

DEKRA EXAM GmbH
Bochum, 2018-04-25

Signed: Jörg Koch

Certifier

Signed: Dr Franz Eickhoff

Approver

13 Appendix

14 EU-Type Examination Certificate

BVS 14 ATEX E 009 Supplement 1

15 Product description

15.1 Subject and type

Motor starter type MS132- * and MS132-*K

15.2 Description

With this supplement the certificate is changed to Directive 2014/34/EU.

(Annotation: In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 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 the hazardous area. 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".

Reason for the supplement:

The devices are tested according current standards.

The variants MS132-*K with push-in spring terminals are added to the series MS132-* with screw 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:

| 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 |

The electrical parameters of the devices with push-in spring terminals do not differ from the devices with screw terminals.

15.3

Parameters

Electrical parameters:

| | |
|------------------------------------|--|
| Number of poles: | 3 |
| Rated isolation voltage (U_i): | 690 V |
| Rated servicing voltage (U_e): | 690 V AC / 250 V DC |
| Rated servicing current (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 dielectric strength: | mains circuit 6 kV |
| Tripping class: | 10 |

Other parameters:

| | |
|-------------------------------|---|
| Degree of pollution: | 3 |
| Utilisation category: | AC-3 |
| Degree of ingress protection: | IP20 |
| Terminals: | |
| For MS132-* | screw type |
| For MS132-*K | push-in spring type |
| 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. |

16 Report Number

BVS PP 14.2025 EU as of 2018-04-25

17 Special Conditions for Use

None

18 Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by the standards listed under item 9.

19 Drawings and Documents

Drawings and documents are listed in the confidential report.

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH
Bochum, dated 2018-04-25
BVS-AIh/Nu A 20180346

Certifier

Approver