



(1) **EC-TYPE-EXAMINATION CERTIFICATE**
(Translation)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**



(3) EC-type-examination Certificate Number:

PTB 01 ATEX 3307

(4) Equipment: Circuit-breaker for motor protection, type MS325

(5) Manufacturer: ABB Stotz-Kontakt GmbH

(6) Address: Eppelheimer Str. 82, 69123 Heidelberg, Germany

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC 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 confidential report PTB Ex 01-30071.

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

EN 60947-1 EN 60947-4-1 EN 60947-5-1 EN 60947-2 EN 60079-14

(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 schedule to this certificate.

(11) This EC-type-examination Certificate relates only to the design and construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

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

II (2) G

Zertifizierungsstelle Explosionsschutz

Braunschweig, March 21, 2002

By order:

Dr.-Ing. U. Engel
Regierungsdirektor



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SCHEDULE

(14) EC-TYPE-EXAMINATION CERTIFICATE PTB 01 ATEX 3307

Description of equipment

The circuit-breaker for motor protection of type MS325 comprise an overload release with current-dependent delay on bimetallic basis and an undelayed electromagnetic overcurrent release against short-circuit. In connection with suitable contactors or without contactors, they will be used to protect non-explosion-protected motors and explosion-protected motors. Type MS325 is available in fourteen designs. It is manufactured for the current ranges between 0,1 A to 25 A and tripping class 10 A.

For installation and use, the instructions for installation and use from the operating instructions "circuit-breaker for motor protection of type M325" for monitoring of EExe motors of December 13, 2001 are to be observed.

(16) Test report PTB Ex 01-30071

Special conditions

none

Essential health and safety requirements

The tests carried out and their positive results as well as the proof furnished have confirmed compliance with the standards and thus with Directive 94/9/EC, Annex II (in particular point 1.5) of December 17, 2001. Suitably selected and adjusted safety devices of this type are necessary for the safe operation of motors of the type of protection "Increased Safety". The devices themselves are installed outside potentially explosive atmospheres (article 1, section 2 of the Directive).

Zertifizierungsstelle Explosionsschutz

By order:

Dr.-Ing. U. Engel
Regierungsdirektor



Braunschweig, March 21, 2002

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EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.


1. SUPPLEMENT

according to Directive 94/9/EC Annex III.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 01 ATEX 3307

(Translation)

Equipment: Circuit-breaker for motor protection, type MS325-...

Marking:  II (2) G

Manufacturer: ABB Stotz Kontakt GmbH
Address: Eppelheimer Str. 82
69123 Heidelberg, Germany

Description of supplements and modifications

The circuit-breaker for motor protection of type MS325 comprise an overload release with current-dependent delay on bimetallic basis and an undelayed electromagnetic overcurrent release against short-circuit. In connection with suitable contactors or without contactors, they are to be used to protect non-explosion-protected motors and explosion-protected motors. Type MS325 is available in fourteen designs. It is manufactured for the current ranges between 0.1 A to 25 A and tripping class 10 A.

For types MS325 – 4 to 6.3 A (tripping characteristic SA M10 0513 of March 14, 2003), the tripping times of the characteristic were optimized.

Test report: PTB Ex 03-33138

Essential health and safety requirements

The tests carried out and their positive results as well as the proof furnished have confirmed compliance with the standards and thus with Directive 94/9/EC, Annex II (in particular point 1.5) of December 17, 2001. Suitably selected and adjusted safety devices of this type are necessary for the safe operation of motors of the type of protection "increased safety". The devices themselves are installed outside potentially explosive atmospheres (article 1, section 2 of the Directive).

Zertifizierungsstelle Explosionsschutz

Braunschweig, May 26, 2003

By order:



Dr.-Ing. F. Lienesch
Oberregierungsrat



Pe/26-5

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EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.


2. SUPPLEMENT

according to Directive 94/9/EC Annex III.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 01 ATEX 3307

(Translation)

Equipment: Circuit-breaker for motor protection, type MS325-...

Marking:  II (2) G

Manufacturer: ABB Stotz Kontakt GmbH

Address: Eppelheimer Str. 82
69123 Heidelberg, Germany

Description of supplements and modifications

The circuit-breaker for motor protection of type MS325 comprise an overload release with current-dependent delay on bimetallic basis and an undelayed electromagnetic overcurrent release against short-circuit. In connection with suitable contactors or without contactors, they are to be used to protect non-explosion-protected motors and explosion-protected motors. Type MS325 is available in fourteen designs. It is manufactured for the current ranges between 0,1 A to 25 A and tripping class 10 A.

Alternatively, a new material is used for the lower and the central part of the enclosure and for the contact carrier of types M325. The name of the material used is Lonza.

Test report: PTB Ex 03-33315

Additional information can be taken from PTB Report PTB Ex 01-30071 of March 21, 2003 and PTB Ex 03-33178 of May 26, 2003.

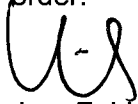
Essential health and safety requirements

The tests carried out and their positive results as well as the proof furnished of December 17, 2001 have confirmed compliance with the standards and thus with Directive 94/9/EC, Annex II (in particular point 1.5). Suitably selected and adjusted safety devices of this type are necessary for the safe operation of motors of the type of protection "increased safety". The devices themselves are installed outside potentially explosive atmospheres (article 1, section 2 of the Directive).

Zertifizierungsstelle Explosionsschutz

Braunschweig, September 10, 2003

By order:



Dr.-Ing. F. Lienesc
Oberregierungsrat



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EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.


3. SUPPLEMENT

according to Directive 94/9/EC Annex III.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 01 ATEX 3307

(Translation)

Equipment: Circuit-breaker for motor protection, type MS325-...

Marking:  II (2) GD

Manufacturer: ABB Stotz Kontakt GmbH

Address: Eppelheimer Str. 82, 69123 Heidelberg, Germany

Description of supplements and modifications

The circuit-breakers for motor protection of type MS325 comprise an overload release with current-dependent delay on bimetalic basis and an undelayed electromagnetic short-circuit release against short-circuit. They are to be used in connection with suitable contactors or without contactors to protect non-explosion-protected motors and explosion-protected motors. Type MS325 is available in fourteen device designs and for current ranges between 0.1 A - 25 A in tripping class 10 A.

With the extension to "D: = dust" in the ATEX marking, they may also be used as protection devices for motors in potentially explosive dust atmospheres (EN 50281-1-1).

Additional information can be taken from:

- Test Reports PTB Ex 01-30071 of March 21, 2002 and PTB Ex 03-33138 of May 26, 2003
- Operating instructions "Circuit-breakers for motor protection"
- Internet page "<http://www.abb.com/lowvoltage>" →documentations → control products → manual motor starters

and ABB main catalogue part 1 "Switching and Control Technique" chapter 4 "Circuit-breakers for motor protection".

Test report: PTB Ex 06-36007

Special conditions

none

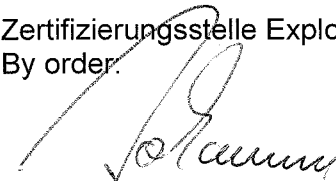
3. SUPPLEMENT TO EC-TYPE-EXAMINATION CERTIFICATE PTB 01 ATEX 3307

Essential health and safety requirements

The tests carried out and their positive results as well as the proof furnished of December 17, 2001 have confirmed compliance with the standards and thus with Directive 94/9/EC, Annex II (in particular point 1.5). Suitably selected and adjusted safety devices of this type are necessary for the safe operation of motors of the type of protection "Increased Safety". The devices themselves are installed outside potentially explosive atmospheres (article 1, section 2 of the Directive).

Zertifizierungsstelle Explosionsschutz
By order.

Braunschweig, June 29, 2006


Dr.-Ing. U. Johannsmeyer
Direktor und Professor

