



(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 02 ATEX 3045



(4) Equipment: Overload relays, types:

TA25DU...V1000 to T900DU/SU...V1000

(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 02-32017; 02-32056 and 02-32057.

(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 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, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of this 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:



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Zertifizierungsstelle Explosionsschutz

Braunschweig, May 16, 2002

By order:

Dr.-Ing. F. Lienesch
Regierungsrat



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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.

SCHEDULE

EC-TYPE-EXAMINATION CERTIFICATE PTB 02 ATEX 3045

(15) Description of equipment

The overload relays of type Typen TA25DU...V1000, TA42DU...V1000, TA75DU...V1000, TA80DU...V1000, TA110DU...V1000, T/TA200DU...V1000, T/TA450DU/SU...V1000 and T900DU/SU...V1000 are adjustable, phase failure sensitive and thermally delayed three-phase bimetallic tripping elements. In combination with the contactors according to the respective motor, overload relays can be used as protective devices for non-explosion-protected motors and explosion-protected motors. The devices T/TA...DU...V1000 are manufactured for the current ranges between 0,1 A to 850 A and tripping class 10 A and T/TA...SU...V1000 are manufactured for the current ranges between 40 A to 850 A and tripping class 30. The electrical data were determined for the equipment types T/TA450DU/SU and T900DU/SU at an ambient temperature from -5 °C to +40 °C (exception: TA25DU from -25 °C to +55 °C).

For installation and use, the instructions for installation and use from the operating instructions "Thermal overload relays T/TA...DU/SU...V1000 for monitoring of EExe motors of February 01, 2002" are to be observed.

(16) Test reports PTB Ex 02-32017; 02-32056 and 02-32057

(17) Special conditions for safe use

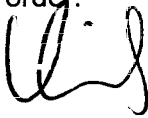
none

(18) 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 February 01, 2002. 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

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