



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 03 ATEX 3029



(4) Equipment: TMP tripping devices, types MS 220 VA. and MS. 220 VA.

(5) Manufacturer: Ziehl industrie-elektronik GmbH+Co.

(6) Address: Daimlerstr. 13, 74523 Schwäbisch Hall, 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-03-33116.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
**EN 60947-1; EN 60947-5 EN 60947-8 (DIN VDE 0660 part 302) DIN VDE 0660 part 303
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.

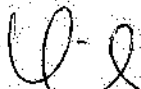
(11) This EC-type-examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

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

 **II (2) G**

Zertifizierungsstelle Explosionsschutz

By order:


Dr.-Ing. F. Lienes
Regierungsrat



Braunschweig, May 21, 2003

SCHEDULE**EC-TYPE-EXAMINATION CERTIFICATE PTB 03 ATEX 3029****(15) Description of equipment:**

All MS 220 VA. and MS. 220 VA. TMP tripping devices work according to the closed-circuit principle.

Among the most important functions are: overtemperature detection, detection of wire interruption and short-circuit detection in all detector circuits.

The operating state of supply voltage and failures (overtemperature, PTC wire interruption and PTC short-circuit) is signaled by LED displays.

All functions in the TMP tripping devices serve to protect non-explosion-protected motors and explosion-protected motors in regular operation and in case of failure.

Types MS 220 VA and MSR 220 VA are available in four variants.

Additional information can be taken from the operating instructions "PTC thermistors relays of types MS(R) 220 VA" of March 24, 2003, which are enclosed to the devices or downloaded from the Internet www.ziehl.de.

All functions in the TMP tripping devices serve to protect non-explosion-protected motors and explosion-protected motors in regular operation and in case of failure.

(16) Test report PTB Ex 03-33116**(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 March 18, 2003 [Technical description (1058 1600)]. Suitably selected and adjusted safety devices of this type are necessary for the safe operation of motors of the "Increased Safety" type of protection. The devices themselves are installed outside potentially explosive atmospheres (article 1, section 2 of the Directive).

Zertifizierungsstelle Explosionschutz
By order:

Braunschweig, May 21, 2003


Dr.-Ing. F. Lienesch
Regierungsrat



1. SUPPLEMENT

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

to EC-TYPE-EXAMINATION CERTIFICATE PTB 03 ATEX 3029

(Translation)

Equipment: TMP tripping devices, types MS 220 VA and MS 220 VA.

Marking:  II (2) GD

Manufacturer: Ziehl industrie-elektronik GmbH + Co

Address: Daimlerstr. 13, 74523 Schwäbisch Hall, Germany

Description of supplements and modifications

The TMP tripping devices, types MS 220 VA and MSR 220 VA, can be used to protect motors in areas with explosive gas atmospheres against inadmissible heating due to overload. With the extension to "D: dust" in the ATEX marking they can also be used as protection device for motors in locations with explosive dust atmospheres (EN 50282-1-1).

Additional information can be taken from the operating instructions "PTC thermistors relais of types MS(R) 220 VA (Zeichnungs-Nr. V 1166 0711)" of July 23, 2003, which are enclosed to the devices or downloaded from the Internet (www.ziehl.de).

All functions in the TMP tripping devices serve to protect non-explosion-protected motors and explosion-protected motors in regular operation and in case of failure.

Test report: PTB Ex 03-33326

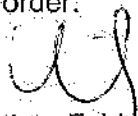
Essential health and safety requirements

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.) with document. 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, October 01, 2003

By order:



Dr.-Ing. F. Liénesch
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.