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# Physikalisch-Technische Bundesanstalt

Braunschweig and Berlin

## EC-type examination certificate

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

EC-type examination certificate number **PTB 07 ATEX 1055 X**

Equipment: Direct current motor d-G... 2216 to d-G... 2230  
Manufacturer: Winkelmann GmbH & Co.  
Address: Im Neuen Felde 88 - 90; 29525 Uelzen; Germany

This equipment and any acceptable variations thereto are specified in the schedule to this certificate and the documents therein referred to.

The Physikalisch-Technische Bundesanstalt (PTB), 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 07-17289.

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

**EN 60079-0:2004**  
**EN 60079-7:2003**

**EN 60079-1:2004**

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.

This EC-type examination certificate relates only to the design and testing 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. These are not covered by this certificate.

The marking of the equipment shall include the following:

 **II 2G Ex d IIC T3 - T6 bzw. Ex de IIC T3 - T6**

Certifying body for explosion protection  
By order

Braunschweig, November 1, 2007

(Signature)

EC-type examination certificates without signature and seal are invalid.  
This EC-type examination certificate may only be distributed without alteration.  
Extracts or changes may only be made with the authority of the Physikalisch-Technische Bundesanstalt.

Physikalisch-Technische Bundesanstalt ■ Bundesallee 100 D-38116 ■ Braunschweig

# Physikalisch-Technische Bundesanstalt

## SCHEDULE

### EC-type examination certificate PTB 07 ATEX 1055 X

#### Description of equipment

The device is a DC motor designed to the requirements of the flameproof enclosure "d" type of protection. The case is made of a seamless steel tube, each end of which is covered with cast iron end shields. The shaft is mounted on roller bearings and forms an ignition breakdown shaft gap on both sides together with the end shield or the bearing cover. The power supply is provided by connection chambers that are separately certified in compliance with flameproof enclosure "d" or increased safety "e". The electrical connection between the motor chamber and connection chamber is made via separately certified stud or conductor bushings.

Permissible ambient temperature rating: -60°C to 100°C. This range may be restricted by the choice of the connection chamber or if the electrical data sheet specifies different values.

The electrical motor data as well as the specifications for temperature class compliance are shown on the attached data sheet for the EC-type examination certificate. The data sheets of the EC-type examination certificate PTB 01 ATEX 1140 also apply as data sheets for this EC-type examination certificate.

#### Test report PTB Ex 07-17289

#### Special conditions

The ignition breakdown shaft gaps may only be repaired in compliance with the constructive specifications from the manufacturer. Repair according to the values in Table 1 and 2 of EN 60079-1 is not permissible.

#### Additional notes for safe operation:

The only components (connection chambers, lead-ins, cable and wire entries, connection parts) that are permitted to be installed on or inside the device are those that meet the technical standards specified on the cover sheet and that have a separate certification. The special requirements of the components must be complied with and the components must be included in the type examination if necessary.

Monitoring systems must meet the requirements stipulated in Directive 94/9/EC and EN 1127-1.

Motors with forced ventilation must only be operated with the ventilator switched on.

#### Basic safety and health requirements

Covered by the aforementioned standards.

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