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Physikalisch-Technische Bundesanstalt

Braunschweig and Berlin

EC- type examination certificate

Equipment and protection systems for designated use in areas subject to explosion hazards - **Directive 94/9/EC**

EC - type examination certificate number **PTB 06 ATEX 1044 X**

Equipment: Direct current motor d-GN... 315 .. /.
Manufacturer: Winkelmann GmbH & Co.
Address: Im Neuen Felde 88 - 90; 29525 Uelzen; Germany

The design of this electrical device and any acceptable variation thereto are determined in the annex to this EC-type examination certificate as well as in the documents specified there.

The Physikalisch-Technische Bundesanstalt (PTB) as notified body No. 0102 according to Article 9 of the Directive of the European Communities of 23. March 1994 (94/9/EC), confirms the compliance with essential safety- und health requirements for the concept and manufacturing of equipment and protection systems for designated use in areas subject to explosive hazards according Appendix II of the Directive.

The results of the examination are recorded in the confidential test report **PTB Ex 06-16041**.

The essential safety- and health requirements are fulfilled by the compliance with

EN 60079-0:2004

EN 60079-1:2004

EN 60079-7:2003

The mark "X" behind the certification number refers to special conditions for safety application of the equipment mentioned in the annex of this certificate.

This EC - type examination certification does only apply to the concept and examination of the specified equipment according Directive 94/9/EC. Further requirements of this Directive apply to the production and the issue of the equipment. These requirements are not covered by this certification.

The marking of the equipment must contain the following information:

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

Certifying body for explosion protection
On behalf

Braunschweig,

(Signature)

EC - type examination certificates without signature and without seal are not valid.
This EC - type examination certificate may only be distributed without any alteration.
Extracts or changes may only be made with the authority of the Physikalisch-Technische Bundesanstalt.

Physikalisch-Technische Bundesanstalt

ANNEX

to the EC- type examination certificate PTB 06 ATEX 1044 X

Description of the equipment

The device is a DC -motor in flameproof enclosure „d“. The case is made of a seamless steel tube, each end covered with cast iron end shields. Shaft supported with ball bearings combined with the bearing cover inside forms a shaft gap safe from any breakdown of ignition at both ends. End shield on NDE is equipped with openings for maintenance and allowing adaptor of an additional terminal box socket. Shaft end on NDE may be optional of enclosed design.

Power supply is made by separately certified wiring locations in flameproof enclosure "d" or increased safety "e". The electrical connection between area for the motor and for the connection is to be made with separately certified bolt- or wire connection lead-ins.

Max. permissible range of the ambient temperature: - 60°C to 60°C. This range may be restricted by the choice of the wiring location or if the electrical data sheet states another value.

The electrical data of the motor including the definition of the compliance with the temperature class are specified on a data sheet of the EC - type examination certificate.

Test report PTB Ex 06-16041

Special conditions

Shaft gaps safe from breakdown of ignition at our device exceed the minimum requirements acc. to EN 60079-1, table 1+2. In case of repair of the gaps contact the manufacturer please. A repair acc. to the values shown in the table 1+2 EN 60079-1 is not permissible.

further notes for secure operation:

For installation/attaching of any components (wiring locations, bushings, cable entries, connecting parts) only those parts are permitted, which technically comply with the standards mentioned on the cover sheet, which are suitable for the operating conditions and for which a separate certificate is available. Special conditions of the components must be observed and the components may be included in the qualification test.

Ensure that forced-ventilated motors may only operate with switched-on ventilator.

Monitoring devices must meet the requirements acc. to the Directive 94/9/EC and EN 1127-1.

Forced-ventilated motors must only operate with switched-on ventilator.

Basic safety,- and health requirements

Covered by aforementioned standards.

Certifying body for explosion protection
On behalf

Braunschweig

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