



(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 99 ATEX 1005

(4) Equipment: Three-phase motors of types 4 KTC 80 to 132

(5) Manufacturer: BARTEC-VARNOST d.o.o.

(6) Address: Cesta 9, Avgusta 59, SLO-1410 Zagorje ob Savi

(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 99-17058.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014:1997 **EN 50018:1994** **EN 50019:1994**

(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 EEx d IIC T4 resp. EEx de IIC T4

Zertifizierungsstelle Explosionsschutz

Braunschweig, April 16, 1999

By order:

Dr.-Ing. U. Klausmeyer
Oberregierungsrat



Datum: 2004-05-21 Podpis

SCHEDULE

(13)

(14) **EC-TYPE-EXAMINATION CERTIFICATE PTB 99 ATEX 1005**

(15) Description of equipment

The three-phase motors consist of cast iron casings, which are closed with shaft and an end shield at the non-drive end. At the non-drive end accommodates an external fan, which is protected by a hood.

The electrical connection is via separate terminal boxes of the Flameproof Enclosure or Increased Safety type of protection. The electrical connection between terminal box and motor compartment is ensured by a bushing, which is in the scope of this certificate.

To comply with the temperature class, the three-phase motors will be provided with three PTC's arranged in the winding and a suitable electronic cut-off device.

According to type and design, the three-phase motors may be designed within the following technical data:

Permissible ambient temperature range	from -20 °C to 40 °C (Normal)
Special model	from -50 °C to 60 °C
Operation modes [EN 60034:1998]	S1 to S10 and Frequency converter operation
Rated voltages	380 V to 690 V ± 10 % AC
Rated frequencies	50 Hz / 60 Hz
Rated powers	0.14 kW to 7.5 kW
Rated rotations (S1 to S10)	500 1/min to 3600 1/min
Frequency converter operation	150 1/min to 3600 1/min
Nominal Cut-off temperature of the PTC's	145 °C

(16) Test report PTB Ex 99-17058

(17) Special conditions for safe use

None

2004-05-21

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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.

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

SCHEDULE TO EC-TYPE-EXAMINATION CERTIFICATE PTB 99 ATEX 1005

(18) Essential health and safety requirements

Met by the standards mentioned above

Zertifizierungsstelle Explosionsschutz

Braunschweig, April 16, 1999

By order:

[Handwritten Signature]
 Dr.-Ing. U. Klausmeyer
 Oberregierungsrat



[Faint stamp]
 Datum: 2004-05-21 Podpis: