



## (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 09 ATEX 1122X**

(4) Equipment: Three-phase motor, type 4 KTC 280

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

(6) Address: Cesta 9, Augusta 59, 1410 Zagorje ob Savi, Slovenia

(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 assessment and test report PTB Ex 09-19285.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
EN 60079-0:2006                      EN 60079-1:2007                      EN 60079-7:2007

(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 Ex d IIC T4 – T6 and Ex de IIC T4 – T6**

Zertifizierungssektor Explosionsschutz

Braunschweig, March 11, 2010

By order:

Dr.-Ing. M. Thedens  
Oberregierungsrat



## SCHEDULE

(13)

(14) **EC-TYPE-EXAMINATION CERTIFICATE PTB 09 ATEX 1122X**

(15) Description of equipment

The motor enclosure is designed to Flameproof Enclosure type of protection. The enclosure, which is of welded steel construction, is delimited on both sides by the end shields. The shaft rotates in rolling bearings. Together with the inner bearing caps, it forms the flameproof shaft joints on the drive and the non-drive ends. A terminal compartment of Flameproof Enclosure "d" or Increased Safety "e" type of protection is provided for connection of the motor or direct cable entry is used for connection. For electric power input into the motor compartment, separately certified bolt-type bushings or conductor bushings/cable glands are used.

The maximum permissible ambient temperatures are -50 °C to 60 °C. This temperature range may be limited as a result of the selected terminal boxes and components, or with the data sheet for the electric ratings.

All electric motor data, including the specifications for compliance with the temperature class, are defined in a data sheet that is attached to the EC Type Examination Certificate.

(16) Assessment and test report PTB Ex 09-19285

(17) Special conditions for safe use

For repair of the flameproof joints due regard must be given to the structural specifications provided by the manufacturer. Repair in compliance with the values in tables 1 and 2 of EN 60079-1 is not accepted.

Additional notes for safe operation:

The screws used for delimitation of the flameproof enclosure must as a minimum comply with strength class or 8.8. The operating instructions must include a note to this effect.

Components attached or installed (e.g. terminal compartments, bushings, cable glands, connectors) must be of a technical standard that complies with the specifications on the cover sheet. They must be suited for the operating conditions and be covered by a separate examination certificate. The special conditions specified for the components must be complied with, and the components have to be included in the type test, if necessary. This equally applies to the components mentioned in the technical description.

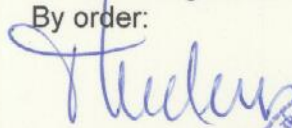
Monitoring devices must meet the requirements in Directive 94/9/EC and EN 1127-1.

(18) Essential health and safety requirements

Met by compliance with the afore-mentioned Standards.

Zertifizierungssektor Explosionsschutz

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Dr.-Ing. M. Thedens  
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Braunschweig, March 11, 2010

## DATA SHEET 01 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 09 ATEX 1122 X

**Manufacturer:** BARTEC - VARNOST d.o.o.

Cesta 9, Augusta 59, 1410 Zagorje ob Savi, Slovenia

for three-phase motor, type 4 KTC 280

### Ratings

The motors of type series 4 KTC 280 . , produced by BARTEC-VARNOST d.o.o., 1410 Zagorje ob Savi, are designed for ratings up to the following values:

Voltage (mains):	1000	V
Voltage (converter):	690	V
Output:	90	kW
Frequency (mains):	50 / 60	Hz
Frequency (converter):	5 - 87	Hz
Duty type:	S1 - S10	

For every motor design, compliance with the governing regulations must be verified in the form of a type test. Due regard must in this connection be given to the code of practice "Merkblatt für die elektrische Auslegung und Prüfung von Motoren in der Zündschutzart Druckfeste Kapselung im Rahmen der EG-Baumusterprüfbescheinigung".

The motors may be employed only for the duty type and at the ambient conditions for which they were type tested. This includes operation with frequency converter.

Zertifizierungssektor Explosionsschutz  
By order

Braunschweig, March 11, 2010

  
Dr.-Ing. M. Thedens  
Oberregierungsrat

