

SUBMERSIBLE FLAMEPROOF ELECTRICAL MOTORS**SERIES 4KTS****IP68**

➔ The motors are manufactured according to the European standards EN50014, EN50018 and EN50019.

➔ Comply with European directive 94/4 ECI (ATEX)

➔  II 2G EEx de IIB T4

➔ IP68

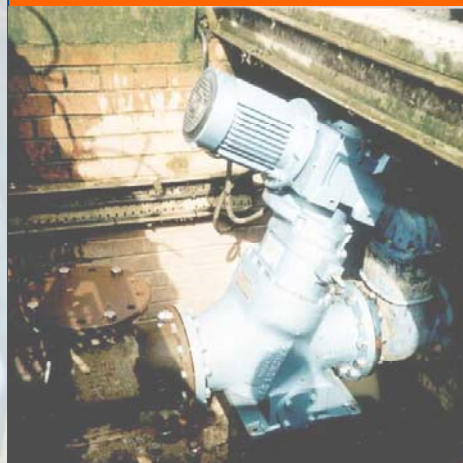
ATEX**Featured lines:**

- ➔ Maximal depth 12m
- ➔ TENV – Totally Enclosed, Non Ventilated
- ➔ Certified for inverter duty application 25Hz to 60Hz
- ➔ Duty cycle S1 to S10
- ➔ Thermal overload protection with PTC
- ➔ Insulation class H
- ➔ Standard arrangements by the IEC 34-7, EN 60 034-7, IM B3, IM B5...
- ➔ Modular construction
- ➔ Cast iron
- ➔ Stainless steel name plate

APPLICATION:

Industrial areas where the motors should sometimes run under the water and sometimes in hazardous areas.

For example: in sewage systems for drive pumps, grinders, valves...



Other features:

- ➔ Three phase
- ➔ Squirrel cage rotor
- ➔ EEx de terminal box
- ➔ Maximal ambient temperature 40°C
- ➔ Leakage detection
- ➔ Special mechanical arrangements
- ➔ Special paint
- ➔ Special voltages up to 750V

Costumized solutions:

Our experience in hazardous areas and our flexibility permit us to answer the most special requirements for different applications of flameproof motors.

➔ Technical data

Frame size	Type	Power (kW)	Current (A)	Voltage (V)	Speed (rpm)	Duty cycle
90	4KTS 90 S-4	0,55	1,3	400	1420	S1 to S10
	4KTS 90 L-4	0,75	1,7	400	1430	S1 to S10
100	4KTS 100 LB-4	1,50	3,1	400	1425	S1 to S10
132	4KTS 132 S-4	2,20	4,5	400	148	S1 to S10
160	4KTS 160 M-4	3,70	7,2	400	1470	S1 to S10

➔ CERTIFICATE:

Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin

PTB



(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 02 ATEX 1141

(4) Equipment: three-phase motor of the type series 4KTS 100, 132 and 160

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

(6) Address: 1410 Zagorje ob Savi, Cesta 9 Avgusta 59, 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 report PTB Ex 02-12209.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014:1997 • A1 + A2 **EN 50018:2000** **EN 50018:1994**

(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, 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 EEx de IIB T4**

Zertifizierungsstelle Explosionsschutz
Braunschweig, 28 January 2003


Dr.-Ing. U. Klausmeyer
Regierungsdirektor

sheet 1/3

EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be simulated 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 • Bundesallee 100 • D-38110 Braunschweig

Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin

PTB

1st SUPPLEMENT
according to Directive 94/9/EC Annex III.B

to EC-TYPE-EXAMINATION CERTIFICATE PTB 02 ATEX 1141
(Translation)

Equipment: Three-phase motor, types 4KTS 90, 100, 132 and 160

Marking:  **II 2 G de IIB T4**

Manufacturer: BARTEC-VARNOST d.o.o.

Address: 1410 Zagorje ob Savi, Cesta 9 Avgusta 59, Slovenia

Description of supplements and modifications

The EC type-examination certificate has been expanded to include model 4KTS 90. This supplementation is covered by data sheets 4 and 5.

Test report: PTB Ex 04-14064

Zertifizierungsstelle Explosionsschutz
Braunschweig, March 31, 2004

By order:

Dr.-Ing. U. Klausmeyer
Regierungsdirektor



Sheet 1/1

EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be simulated 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 • Bundesallee 100 • D-38110 Braunschweig

INDIVIDUAL SOLUTIONS ARE OUR STANDARDS