



(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:

**SIQ 14 ATEX 039 X**



- (4) Equipment: Electric motor, types 4 KTS 90 L4, 4 KTS 90 S4, 4 KTS 100 LB4, 4 KTS 132 S4  
and 4 KTS 160 M4
- (5) Manufacturer: Bartec Varnost, d.o.o.
- (6) Address: Cesta 9. avgusta 59, SI-1410 Zagorje ob Savi, Slovenia
- (7) This equipment and any acceptable variations thereto are specified in the schedule to this certificate  
and in the documents therein referred to.
- (8) SIQ Ljubljana, Notified body number 1304 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 test report TEx039/14.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance  
with the following standards:

**EN 60079-0 : 2012**

**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 with 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 e IIB T4 Gb**

Certification body

Ljubljana, 25 April 2014

Igor Likar

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The EC-type-examination certificate is valid only if signed.  
The certificate may be reproduced only in full and without changes. Any extracts and changes shall be approved by SIQ Ljubljana.  
In the case of dispute, Slovenian text shall prevail.

SIQ Ljubljana, Tržaška cesta 2, SI-1000 Ljubljana



(13)

## SCHEDULE

(14)

### EC-TYPE-EXAMINATION CERTIFICATE SIQ 14 ATEX 039 X

(15) Description of the equipment

The three phase four poles electric motors types 4 KTS 90 L4, 4 KTS 90 S4, 4 KTS 100 LB4, 4 KTS 132 S4 and 4 KTS 160 M4 are designed in the type of protection flameproof enclosure with terminal box in the type of protection increased safety. They are enclosed and without fan. Their enclosure is made from cast-iron (EN-GJL-200) and squirrel-cage rotor from aluminium. Between flameproof enclosure and terminal box line bushings are installed. For direct temperature monitoring the windings of the electric motors are equipped with temperature sensors (thermistors according to DIN 44081 or DIN 44082).

Motors were previously tested according to EN 50000 series of standards. Certificate PTB 02 ATEX 1141 with 1<sup>st</sup> supplement was issued.

#### Technical data

Nominal voltage, Frequency	From 220 V AC to 690 V AC, 50 Hz / 60 Hz	
Ambient temperature range	From -20°C to +40°C	
Duty type	S1 to S9	
Temperature class	T4	
Rated power (50 Hz)	4 KTS 90 S4	0.64 kW
	4 KTS 90 L4	0.86 kW
	4 KTS 100 LB4	1.82 kW
	4 KTS 132 S4	2.66 kW
	4 KTS 160 M4	4.28 kW
Rated speed (50 Hz)	4 KTS 90 S4	1420 min <sup>-1</sup>
	4 KTS 90 L4	1430 min <sup>-1</sup>
	4 KTS 100 LB4	1425 min <sup>-1</sup>
	4 KTS 132 S4	1448 min <sup>-1</sup>
	4 KTS 160 M4	1470 min <sup>-1</sup>
IP Code (standard IEC 60529 : 2001)	IP68	

(16) Test report

TEx039/14 dated 25 April 2014.

(17) Special conditions for safe use

Repair on flameproof joints may only be performed in accordance with the manufacturer's design specifications. Repair on the basis of the values in Tables 1 and 2 of EN 60079-1 : 2007 is not permitted.

(18) Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements has been assured by compliance with the requirements of the standards listed under item (9).