



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:	IECEx SIQ 14.0002X	Issue No: 2	<u>Certificate history:</u>
Status:	Current	Page 1 of 5	Issue No. 2 (2016-05-30)
Date of Issue:	2016-05-30		Issue No. 1 (2016-01-14)
			Issue No. 0 (2014-04-25)
Applicant:	<b>Bartec Varnost, d.o.o.</b> Cesta 9. avgusta 59 SI-1410 Zagorje ob Savi Slovenia		
Electrical Apparatus:	<b>Electric motor, types 4 KTS 90 L4, 4 KTS 90 S4, 4 KTS 100 LB4, 4 KTS 132 S4, 4 KTS 160 M4, 4 KTS 180 M4, and 4 KTS 180 L4</b>		
Optional accessory:			
Type of Protection:	<b>Flameproof enclosure and increased safety</b>		
Marking:	Ex db e IIB T4 Gb (4 KTS 90 L4, 4 KTS 90 S4, 4 KTS 100 LB4, 4 KTS 132 S4, 4 KTS 160 M4, 4 KTS 180 M4) Ex db e IIB T3 Gb (4 KTS 180 L4)		

Approved for issue on behalf of the IECEx

Igor Likar

Certification Body:

Position:

Managing Director

Signature:

(for printed version)

Date:

30.5.2016

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Slovenian Institute of Quality and Metrology (SIQ)  
Trzaska cesta 2  
SI-1000 Ljubljana  
Slovenia





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Date of Issue: 2016-05-30

Manufacturer: **Bartec Varnost, d.o.o.**  
Cesta 9. avgusta 59  
SI-1410 Zagorje ob Savi  
Slovenia

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Additional Manufacturing  
location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

## STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-7 : 2006-07</b> Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

## TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

[SI/SIQ/ExTR14.0001/02](#)

Quality Assessment Report:

[SI/SIQ/QAR11.0003/03](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The three phase four poles electric motors types 4 KTS 90 L4, 4 KTS 90 S4, 4 KTS 100 LB4, 4 KTS 132 S4, 4 KTS 160 M4, 4 KTS 180 M4 and 4 KTS 180 L4 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 of cast-iron (EN-GJL-200). Between flameproof enclosure and terminal box line bushings are installed. The squirrel-cage rotor is made of aluminium. The shaft is made of steel C45 or C60. The shaft seal is made of NBR 70. Stator windings are equipped with three temperature sensors (PTC) connected in series. Optionally stator windings can be equipped with three bimetal switches (PTO). External surface of the electric motor is painted. In the wall of the terminal box holes for external connections are provided.

### CONDITIONS OF CERTIFICATION: YES as shown below:

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 IEC 60079-1 : 2014, Edition 7.0, is not permitted.

Temperature sensors (PTC) and/or bimetal switches (PTO) shall be connected to a suitable certified disconnecting device.





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## EQUIPMENT (continued):

### Technical data

All types:

Rated voltage	From 220 V a.c. up to 690 V a.c.
Frequency	50 Hz/60 Hz
Duty type	From S1 to S9
Ingress protection (standard IEC 60529 : 2001)	IP68

Type	Ambient temperature range	Temperature class	Rated power (50 Hz)	Rated speed (50 Hz)
4 KTS 90 S4	From -20°C to +40°C	T4	0.64 kW	1420 rev/min
4 KTS 90 L4	From -20°C to +40°C	T4	0.86 kW	1430 rev/min
4 KTS 100 LB4	From -20°C to +40°C	T4	1.82 kW	1425 rev/min
4 KTS 132 S4	From -20°C to +40°C	T4	2.66 kW	1448 rev/min
4 KTS 160 M4	From -20°C to +40°C	T4	4.28 kW	1470 rev/min
4 KTS 180 M4	From -20°C to +60°C	T4	7.5 kW	1465 rev/min
4 KTS 180 L4	From -20°C to +40°C	T3	11 kW	1465 rev/min



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

### Issue 1:

New type 4 KTS 180 M4 was added and conformity with new edition of standard IEC 60079-1 : 2014, Edition 7.0, for all types was assessed.

### Issue 2:

New type 4 KTS 180 L4 was added.