



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX SIQ 14.0002X** Page 1 of 5 **Certificate history:**
Status: **Current** Issue No: 3 **Issue 2 (2016-05-30)**
Date of Issue: **2020-04-20** **Issue 1 (2016-01-14)**
Applicant: **Bartec Varnost, d.o.o.** **Issue 0 (2014-04-25)**
Cesta 9. avgusta 59
SI-1410 Zagorje ob Savi
Slovenia
Equipment: **Electric motor, types 4 KTS 90 S4, 4 KTS 90 L4, 4 KTS 100 LB4, 4 KTS 132 S4, 4 KTS 160 M4, 4 KTS 180 M4,
and 4 KTS 180 L4**
Optional accessory:
Type of Protection: **Flameproof enclosure and increased safety**
Marking: **Ex db eb 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 eb IIB T3 Gb
(4 KTS 180 L4)

Approved for issue on behalf of the IECEx
Certification Body:

Bojan Pečavar

Position:

Certification Manager

Signature:
(for printed version)

Date:

20. 4. 2020

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 www.iecex.com or use of this QR Code.



Certificate issued by:

Slovenian Institute of Quality and Metrology (SIQ)
Masera-Spasicева ulica 10
SI-1000 Ljubljana
Slovenia





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

Additional
manufacturing
locations:

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 equipment 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

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with 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/ExTR14.0001/03](#)

Quality Assessment Report:

[SI/SIQ/QAR11.0003/05](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The three phase four poles electric motors types 4 KTS 90 S4, 4 KTS 90 L4, 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. Between flameproof enclosure and terminal box line bushings are installed. The squirrel-cage rotor is made of aluminium. The shaft is made of steel. 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.

SPECIFIC CONDITIONS OF USE: 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
Ambient temperature range	From -20°C to +40°C

Type	Temperature class	Rated power (50 Hz)	Rated speed (50 Hz)
4 KTS 90 S4	T4	0.64 kW	1420 rev/min
4 KTS 90 L4	T4	0.86 kW	1430 rev/min
4 KTS 100 LB4	T4	1.82 kW	1425 rev/min
4 KTS 132 S4	T4	2.66 kW	1448 rev/min
4 KTS 160 M4	T4	4.28 kW	1470 rev/min
4 KTS 180 M4	T4	7.5 kW	1465 rev/min
4 KTS 180 L4	T3	11 kW	1465 rev/min



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Change of installed components and conformity assessment according to new editions of standards IEC 60079-0 : 2017 and IEC 60079-7 : 2017, including IEC 60079-1 : 2014 / COR 1 : 2018