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 FTZU 14.0006X**	Page 1 of 5	Certificate history:
Status:	**Current**	Issue No: 2	Issue 1 (2017-08-31) Issue 0 (2014-03-25)
Date of Issue:	2022-09-27		
Applicant:	**BARTEC VARNOST d.o.o.** Cesta 9. avgusta 59 1410 Zagorje ob Savi **Slovenia**		
Equipment:	**Asynchronous electromotor 5KTCR 355...**		
Optional accessory:			
Type of Protection:	**Flameproof enclosure, Increased safety**		
Marking:	Ex db eb I Mb or Ex db I Mb Ex db eb IIA T4 Gb or Ex db IIA T4 Gb		

Approved for issue on behalf of the IECEx Certification Body:

Dipl. Ing. Lukáš Martinák

Position:

Head of the Certification Body

Signature:
(for printed version)

Date:
(for printed version)

2022-09-27

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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:

Fyzikalne technicky zkusebni ustav
(Physical -Technical Testing Institute)
Pikartska 7, 71607 Ostrava - Radvanice
Czech Republic

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Manufacturer: **BARTEC VARNOST d.o.o.**
Cesta 9. avgusta 59
1410 Zagorje ob Savi
Slovenia

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 60079-7:2015 **Explosive atmospheres – Part 7: Equipment protection by increased safety "e"**
Edition:5.0

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 Reports:

CZ/FTZU/ExTR14.0006/00 CZ/FTZU/ExTR14.0006/01 CZ/FTZU/ExTR14.0006/02

Quality Assessment Report:

SI/SIQ/QAR11.0003/07

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Three-phase squirrel-cage asynchronous electromotor type 5KTCR 355... and terminal box are protected by flameproof enclosure. Terminal box can be alternatively protected by increased safety. Terminal box is equipped with threaded entry for installation of Ex-cable glands. Enclosure is made out of cast iron; fan and fan-cover are made out of steal plate. In the terminal box are installed bushings type TOS16.400A.1600V, certificate IECEx SIQ 13.0001U for power circuits and line bushings type 07-9101-****, certificate IECEx PTB 06.0093U for control circuits.
In "e" terminal box are installed terminals type 07-9702-0220/1, certificate IECEx PTB 07.0007U
for connection of control circuits. Thermal protection of electromotor is ensured by PTC temperature sensors circuits. Nominal cut-off temperature of the PTC is +155 °C.
Entries into connection compartment enclosure of motor are designed for use of separately certified Ex-equipment cable glands.

Technical parameters:

TYPE 5KTCR 355	SA-4	SB-4	S(L)-4	M-4
Max. rated power	200 kW	250 kW	315 kW	400 kW
Rated supply voltage	1100 V ±5%			
Max. rated current	122 A	152 A	192 A	242 A
Rated frequency	50 Hz			
Duty type	S1 to S9			
Frequency range in inverter	5 Hz to 87 Hz			
Ambient temperature	-20 °C ≤ Ta ≤ +40 °C			

SPECIFIC CONDITIONS OF USE: YES as shown below:

Verified values of the maximum gaps and minimum constructional length of flameproof joints of this enclosure are different from relevant minimum and maximum values mentioned in standard. To obtain information about joints dimension it is necessary to contact the manufacturer.

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Equipment (continued):

Technical parameters of motor type 5KTCR 355 SB-6:

Max. rated power: 200 kW
Max rated supply voltage: 1100 V ± 10 %
Max. rated current: 348 A
Rated frequency: 50 Hz
Duty type: S1 to S9
Frequency range in inverter: 5 Hz to 87 Hz
Ambient temperature: -20 °C ≤ Ta ≤ +40 °C

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 2:

Assessment according to the new edition of the standard IEC 60079-0:2017.

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