



# 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 FTZU 14.0006X** issue No.: **0** Certificate history:

Status: **Current**

Date of Issue: **2014-03-25** Page 1 of 3

Applicant: **BARTEC VARNOST d.o.o**  
Cesta 9. Augusta 59  
1410 Zagorje ob Savi  
Slovenia

Electrical Apparatus: **Asynchronous electromotor 5KTCR 355...**  
Optional accessory:

Type of Protection: **Flameproof enclosure, Increased safety**


Marking: **Ex de I Mb or Ex d I Mb**  
**Ex de IIA T4 Gb or Ex d 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:

  
2014-03-25



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.

Certificate issued by:





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Page 2 of 3

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

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 : 2007-04</b> Edition: 6	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:

CZ/FTZU/ExTR14.0006/00

##### Quality Assessment Report:

SI/SIQ/QAR11.0003/01





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Page 3 of 3

## Schedule

### 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 steel 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			

### CONDITIONS OF CERTIFICATION: 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.

