

Translation

# EU-Type Examination Certificate Supplement 1

Change to Directive 2014/34/EU

Equipment intended for use in potentially explosive atmospheres  
Directive 2014/34/EU

EU-Type Examination Certificate Number: **BVS 15 ATEX E 037 X**

Product: **Flameproof electric motors type 4 KTCR \*\*\* \*\* \*/\*\_\*\***

Manufacturer: **BARTEC VARNOST, d.o.o.**

Address: **Cesta 9. avgusta 59, 1410 Zagorje ob Savi, Slovenia**

This supplementary certificate extends EC-Type Examination Certificate No. BVS 15 ATEX E 037 X to apply to products designed and constructed in accordance with the specification set out in the appendix of the said certificate but having any acceptable variations specified in the appendix to this certificate and the documents referred to therein.

DEKRA EXAM GmbH, Notified Body number 0158, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential Report No. BVS PP 15.1008 EU.


Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

<b>EN 60079-0:2012 + A11:2013</b>	<b>General requirements</b>
<b>EN 60079-1:2014</b>	<b>Flameproof enclosure "d"</b>
<b>EN 60079-7:2015</b>	<b>Increased Safety "e"</b>

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following:

 **I M2 Ex db I Mb**  
**I M2 Ex db eb I Mb**

DEKRA EXAM GmbH  
Bochum, 2018-02-19

Signed: Jörg Koch

Certifier

Signed: Dr Franz Eickhoff

Approver



Optionally a space heater can be mounted inside the stator housing.

For direct temperature monitoring the winding of the motor is equipped with temperature sensors (thermistors according DIN 44081 respectively DIN 44082). The sensors are connected in series. Insulated bimetal switches can be mounted inside the windings as well.

Optionally the temperature at the bearings could be monitored separately certified resistance thermometers (Pt100).

The thermometers will be connected to a trigger unit which is certified for this purpose.

### 15.3 Parameters

#### Electrical parameters

Circuits of the flameproof electric motors				
Rated voltage		up to	1100	V AC
Frame size		up to	225	
Rated rotational speed	500	up to	3600	min <sup>-1</sup>
Rated rotational speed (with converter)	48	up to	6000	min <sup>-1</sup>
Frequency (mains)			50 / 60	Hz
Frequency (converter)	5	up to	100	Hz
Duty type	S1	up to	S9	

Rated power					
Frame size		50 Hz		60 Hz	
71	up to	0.55	kW	0.66	kW
80	up to	1.1	kW	1.3	kW
90	up to	2.2	kW	2.6	kW
100	up to	3	kW	3.6	kW
112	up to	4	kW	4.8	kW
132	up to	7.5	kW	9	kW
160	up to	18.5	kW	21	kW
180	up to	22	kW	26	kW
200	up to	37	kW	42	kW
225	up to	45.5	kW	52	kW

The electrical data of the respective version is determined by a routine test carried out by the manufacturer.

Monitoring circuit	
Temperature sensors (ptc thermistors)	According to the specifications given in the certificate of the trigger unit and the electrical design.
Circuits of the resistance thermometer (Pt100)	According to the specifications given in the certificate of the trigger unit and the electrical design.

### 16 Report Number

BVS PP 15.1008 EU, as of 2018-02-19

