

## Translation

# EU-Type Examination Certificate

Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

EU-Type Examination Certificate Number: **BVS 22 ATEX E 019 X** Issue: **00**

Equipment: **Motor type T 17.3\*-\*/\*\*\*Ex-\*\***

Manufacturer: **WILO SE**

Address: **Wilopark 1, 44263 Dortmund, Germany**

This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.

DEKRA Testing and Certification 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 \*\*.\*\*\*\* EU.

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

**EN IEC 60079-0:2018**                      **General requirements**  
**EN 60079-1:2014/AC:2018**           **Flameproof enclosure "d"**

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance to the Directive 2014/34/EU. 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:

 **II 2G Ex db IIB T4/T3 Gb**

DEKRA Testing and Certification GmbH  
Bochum, 2022-06-09

Signed: Jörg-Timm Kilisch

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Managing Director



13 **Appendix**

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15 **Product description**

15.1 **Subject and type**

Motor type T17.3<sup>\*1)</sup>-<sup>\*2)</sup>/<sup>\*\*3)</sup>\*4)Ex-<sup>\*\*5)</sup>

- |                     |                          |
|---------------------|--------------------------|
| 1) Motor type       | Motor type 17.3L, T17.3M |
| 2) Number of poles  | 4                        |
| 3) Package length   | 12, 16, 20, 24           |
| 4) Mech. design     | G, K                     |
| 5) Efficiency class | P0 ... P6                |

15.2 **Description**

The motor is intended as a drive for a submersible pump.

It is equipped with 2 bimetal thermostats (rated cut-off temperature 140 °C) in the upper winding head.

Alternatively, the motor is equipped with 3 PTC-thermistors (rated cut-off temperature 140 °C) in the upper winding head. These temperature devices are connected to a functional tested safety device. The connection is made by flexible cords with a separately certified cable entry (PTB 00 ATEX 1090 U)

The motor is equipped with a double shaft seal. The interspace between these two seals can be monitored by an electrode. The electrode (IBExU20ATEX1125U) is part of the explosion-proof enclosure and it is connected to an electronic in the explosion proof enclosure.

15.3 **Parameters**

Motor circuit

Type T17.3 M/L (number of poles 4)

Rated voltage	400 V
Rated frequency	50 Hz
Rated speed	1500 min <sup>-1</sup>

Duty type

S1 (submerged), S2-30 (emerged), S3-40 (with flooding for 1 minute, emerged operation (only with temperature control 100 °C))

Motor type	Number of poles	Package length	f (Hz)	Max. power P1 (kW) at 40 °C*	Max. Power P1 (kW) at 60 °C*
T17.3	4	12	50	6,1	4,55
T17.3	4	16	50	8,2	6,8
T17.3	4	20	50	10,1	8,4
T17.3	4	24	50	14.3	11,9

<sup>\*)</sup> The maximum operation temperature is the limit for the ambient temperature as well as the limit for the temperature of the water to be pumped.



Thermistor circuit:

Rated voltage 7.5 V

Bimetal-thermostat circuits:

Voltage 250 V

Current 2.5 A

Motor monitoring:

Voltage max. 24 V DC

Current max. 22 mA

Max. permissible submersion depth: 20 m

Ambient temperature range: -20 °C up to +40/60 °C

Maximum temperature of the water to be pumped: +40/60 °C

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17 **Specific Conditions of Use**

The motor has to be protected additional to the motor protection switch with temperature sensor which is mounted in the stator winding and in combination with a functional tested safety device for this purpose.

The fasteners screws of the flameproof enclosure parts must appear a yield stress  $\geq 450 \text{ N/mm}^2$ .

In case of the parts forming the joint shall be replaced or repaired, the dimensions information of the flameproof joints must be obtained from the manufacturer, because the gap length of the flameproof joint of this apparatus are in parts longer and the gap width are in parts smaller than required by Table 2 of EN 60079-1:2014/AC:2018.

If the motor is used for the Gas Group IIB, the painting of the enclosure must not be thicker than 2 mm according table 9 (EN IEC 60079-0:2018).

18 **Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.

19 **Remarks and additional information**

Drawings and documents are listed in the confidential report.

We confirm the correctness of the translation from the German original.  
In the case of arbitration only the German wording shall be valid and binding.

DEKRA Testing and Certification GmbH  
Bochum, 2022-06-09

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Managing Director