

[1] **EU-TYPE EXAMINATION CERTIFICATE - TRANSLATION**



[2] Equipment and protective systems intended for use in potentially explosive atmospheres, directive 2014/34/EU

[3] EU-Type Examination Certificate Number **IBExU02ATEX1027 X** | Issue 1

[4] Equipment: **Three-phase Submersible motor**  
Type: T 34-./...Ex

[5] Manufacturer: **WILO SE**

[6] Address: **Wilopark 1  
44263 Dortmund  
GERMANY**

[7] This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8] IBExU Institut für Sicherheitstechnik GmbH, Notified Body number 0637 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 test report IB-23-3-0056.

[9] Compliance with the essential health and safety requirements has been assured by compliance with:  
**EN IEC 60079-0:2018 EN 60079-1:2014**  
Except in respect of those requirements listed at item [18] of the schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the specific conditions of use specified in the schedule to this certificate.

[11] 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.

[12] The marking of the product shall include the following:

**⊕ II 2 G Ex db IIB T4...T3 Gb**

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By order

Dr.-Ing. P. Cimalla



(Notified Body number 0637)

Certificates without seal and signature are not valid. Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail

Freiberg, 2024-02-02



[13] **Schedule**

[14] **Certificate Number IBExU02ATEX1027 X | Issue 1**

[15] **Description of product**

The Three-phase Submersible motor type T 34-./...Ex is a closed surface-cooled three-phase asynchronous motor with squirrel-cage rotor. The outer enclosure is made of grey cast iron. The electric connection is carried out with connecting cables, which are inserted into the flameproof enclosure directly with special cable entries.

The Three-phase Submersible motor is functionally designed without an external fan. The cooling of the motor is made by the surrounding conveying medium. The motor is equipped with temperature limiters.

The Three-phase Submersible motor may be produced also as motor with high efficiency (IE3) and optional optionally marked (e.g. with -IE3).

Rated values and technical data

- Rated voltage: 400 V
- Property class fastening screws: mind. A2-50 according to ISO 4762
- Ambient temperature range: -20 °C up to +40 °C or +60 °C

The exact electrical data as well as the permissible operating modes and the classification of the temperature class are specified in the Continuation Sheets to this certificate.

*Variations compared to the EC-Type Examination Certificate and its additions:*

- The Three-phase Submersible motor fulfils also the requirements of the current standard edition of EN IEC 60079-0.
- The manufacturer's address has been updated.
- The marking is extended to include temperature class T3 for inverter operation.
- The motor can be operated in fully submerged operation with reduced power also at a maximum ambient and conveying medium temperature of +60 °C.

[16] **Test report**

The test results are recorded in the confidential test report IB-23-3-0056 of 2024-01-30. The test documents are part of the test report and they are listed there.

*Summary of the test results*

The Three-phase Submersible motor type T 34-./...Ex fulfils the requirements of explosion protection for equipment of Group II, Category 2 G, type of protection flameproof enclosure "db" for explosive atmospheres with gases and vapors up to explosion group IIB and temperature class T4 or T3.

[17] **Special conditions for use**

- Repairs of the flameproof joints must be made in compliance with the constructive specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in tables 2 and 3 of EN 60079-1.
- Only fastening screws (property class A2-50 according to ISO 4762), specified by the manufacturer, shall be used.
- The three-phase submersible motor can also be used in an extended temperature range. The maximum ambient and conveying medium temperature is specified in the relevant continuation sheet and on the type plate.
- To comply with the temperature class the motors must be protected by a device for the direct temperature control. It consists of temperature sensors built into the winding and an appropriate release device in accordance with directive 2014/34/EU.
- The instructions and the electrical data contained in the Continuation Sheets to the EU-Type Examination Certificate have to be observed for the single motor types.

**[18] Essential health and safety requirements**

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item [9], the following are considered relevant to this product, and conformity is demonstrated in the test report:

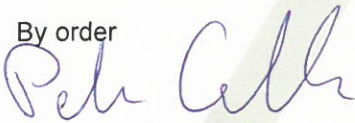
- not applicable -

**[19] Drawings and documents**

The documents are listed in the test report.

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Freiberg, 2024-02-02