

# CERTIFICATE

## (1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **DEKRA 24ATEX0103X** Issue Number: **0**

(4) Product: **Submersible Motor Type AM 120TM.1,7/2DEX**

(5) Manufacturer: **KESSEL SE & Co.KG**

(6) Address: **Bahnhofstraße 31, 85101 Lenting, Germany**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., Notified Body number 0344 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 confidential test report mentioned in item (16).

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

**EN IEC 60079-0 : 2018 + A11**

**EN 60079-1 : 2014 + A11**

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**

Date of certification: 11 November 2025

DEKRA Certification B.V.

R. Schuller  
Certification Manager



Throughout this document, a point is used as the decimal separator.

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(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 24ATEX0103X** Issue No. 0

(15) **Description**

Submersible Motor Type AM 120TM.1,7/2DEX is electric submersible motor designed to drive pump hydraulic. The pump hydraulic used can deliver municipal and industrial fresh and wastewater with sludge, solids, fiber or faeces.

The motor type AM 120TM.1,7/2DEX is cooled by submersion in the fluid.

Submersible Motor Type AM 120TM.1,7/2DEX is made of cast iron.

A thermal protector in the stator windings is used for direct temperature control. The nominal switching temperatures can be found in the electrical data.

Ambient temperature range: -20 °C to +40 °C.

Maximum fluid temperature: +40 °C.

When supplied by a fixed frequency the temperature class is T4.

When supplied by a frequency converter the temperature class is T3.

**Electrical data**

See Annex 1 to test report mentioned in item (16).

**Installation instructions**

The instructions provided with the product shall be followed in detail to assure safe operation.

The free end of the permanently connected unterminated power supply cable shall be connected either by using a suitable certified junction box when the connection is made inside the hazardous area or by using any suitable junction box when the box is placed outside the hazardous area.

(16) **Report Number**

229351600-2 Issue 0.

(17) **Specific conditions of use**

For motors supplied by a frequency converter the built-in winding PTC thermistors which respond at the specified nominal switching temperatures in accordance with DIN 44 082 in combination with a protective device shall be installed in the motorcircuits in such a way that operation of the PTC thermistors leads to switching-off of the motor.

The resetting of the supply shall be manually.

The rated voltage may fluctuate to  $\pm 5$  % and the rated frequency to  $\pm 2$  % in accordance with EN 60034-1 Zone A.

Contact the manufacturer for information on the dimensions of the flameproof joints.

The motors are provided with special fasteners of property class A2-70.

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 24ATEX0103X** Issue No. **0**

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in test report mentioned in item (16).