



# 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 KEM 10.0076X

Issue No: 1

Certificate history:

Status: **Current**

[Issue No. 1 \(2019-01-08\)](#)

[Issue No. 0 \(2010-09-07\)](#)

Date of Issue: **2019-01-08**

Page 1 of 4

Applicant: **Friedrich Schwingtechnik GmbH**  
Am Höfgen 24  
42761 Haan  
**Germany**

Equipment: **Three-phases asynchronous vibration motors**

*Optional accessory:*

Type of Protection: **Ex e and tD**

Marking:

Ex e II T3 or T4  
Ex tD A21 T120 °C IP66

*Approved for issue on behalf of the IECEx  
Certification Body:*

R. Schuller

*Position:*

Certification Manager

*Signature:  
(for printed version)*

*Date:*

2019-01-08

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:

**DEKRA Certification B.V.**  
Meander 1051  
6825 MJ Arnhem  
The Netherlands





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Page 2 of 4

Manufacturer: **Friedrich Schwingtechnik GmbH**  
Am Höfgen 24  
42761 Haan  
**Germany**

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 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:

**IEC 60079-0 : 2004** Electrical apparatus for explosive gas atmospheres - Part 0: General requirements  
Edition:4.0

**IEC 60079-7 : 2006-07** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:4

**IEC 61241-0 : 2004** Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements  
Edition:1

**IEC 61241-1 : 2004** Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"  
Edition:1

*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:

[NL/KEM/ExTR10.0105/00](#)

Quality Assessment Report:

[GB/FME/QAR18.0013/00](#)



# IECEx Certificate of Conformity

Certificate No: IECEx KEM 10.0076X

Issue No: 1

Date of Issue: 2019-01-08

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Three-phases asynchronous vibration motors series ,YE...-... and FE...-....

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

The maximum surface temperature of the enclosure T120 °C is based on a maximum ambient temperature of 40 °C.

### Electrical data

The electrical data mentioned in the tables in Annex A are suitable for motors in type of explosion protection increased safety "e" and for the motors for use in the presence of combustible dust. Only the electrical data IA/IN and tE -time apply for the increased safety "e" motors.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

In case that the motor is provided with a permanently connected unterminated cable the certificate number on the motor marking shall be followed by the symbol "X". The free end of the permanently connected, unterminated cable is to be connected in an appropriate way, e.g. in a suitable Ex e or Ex d junction box



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Certificate No: IECEx KEM 10.0076X

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Date of Issue: 2019-01-08

Page 4 of 4

**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

Linked to new QAR.