



# 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 10.0077X** issue No.: **0** Certificate history: .....

Status: **Draft**

Date of Issue: **2010-09-07** Page 1 of 3

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

Electrical Apparatus: **Three-phases asynchronous vibration motors**  
Optional accessory:

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

Marking: **Ex e II T4 IP66**  
**Ex tD A21 IP66 T120**

Approved for issue on behalf of the IECEx Certification Body: **C.G. van Es**

Position: **Certification Manager**

Signature:  
(for printed version)

Date:

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:

**KEMA Quality B.V.**  
Utrechtseweg 310  
6812 AR Arnhem  
The Netherlands

**KEMA Quality**  
a DEKRA company



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

**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 product 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 electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identification documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-7 : 2006-07</b> Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
<b>IEC 61241-0 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
<b>IEC 61241-1 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "ID"

*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/EXTR10.0106/00

Quality Assessment Report:

NL/KEM/QAR09.0035/00



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## Schedule

### EQUIPMENT:

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

Three-phases asynchronous vibration motors types HXE ....-4, HXE ....-6, KXE ....-4, KXE ....-6, KXEZ... and HXEZ... Ambient temperature range -20 °C ... +40 °C.  
The maximum surface temperature T 120 °C of the motors is referred to a maximum ambient temperature of 40 °C.  
**Electrical data** Electrical data is given in Annex A.

### CONDITIONS OF CERTIFICATION: 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.

Heat resistant cable suitable for a temperature of at least 85 °C shall be used.