



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX SEV 21.0016X** Page 1 of 4 [Certificate history:](#)  
Status: **Current** Issue No: 0  
Date of Issue: 2021-09-15  
Applicant: **Hoffmann Technics AG**  
Sittentalstrasse 34  
9014 St. Gallen  
Switzerland  
Equipment: **Flameproof three-phase asynchronous motor H6DX series, H3DX series**  
Optional accessory: ---  
Type of Protection: **"d", "t"**  
Marking: Ex db IIA/IIB T4 Gb  
Ex tb IIIA/IIIB/IIIC T120 °C Db




Approved for issue on behalf of the IECEx  
Certification Body:

**Patrick Gutensohn**

Position:

**Manager Product Certification**

Signature:  
(for printed version)

  
\_\_\_\_\_

Date:

2021-09-15

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

**Eurofins Electric & Electronic Product Testing AG**  
Luppenstrasse 3  
CH-8320 FEHRALTORF  
Switzerland



E&E



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Manufacturer: **Hoffmann Technics AG**  
Sittentalstrasse 34  
9014 St. Gallen  
**Switzerland**

Additional  
manufacturing  
locations:

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 equipment 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 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-1:2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

This Certificate **does not** indicate compliance with 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:

[CH/SEV/ExTR21.0017/00](#)

Quality Assessment Report:

[NO/DNV/QAR21.0021/00](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

### General product information:

H6DX series motors are variable frequency speed-regulating explosion-proof three-phase asynchronous type while H3DX series motors are high efficiency explosion proof three-phase asynchronous type. H6DX series motors must be connected to external variable frequency power supply.

H6DX series motor is based on H3DX series motor structure. It has two types: structure with built-in fan cooling which is same as H3DX series and structure with auxiliary motor cooling fans (BG series) with independent power supply. Model 80 to 132 comprise of motor base and front/rear end cover while model 160 to model 355 are composed of motor base, front/end cover, front/end internal and external bearings covers. The core rotating part consisting stator, rotor, shaft and rolling-element bearings are equipped on the motor. Terminal boxes incorporated with above two series motors are mainly composed of base and lid. They are equipped with terminal stud, terminal sleeve (or terminal board). Two or one thread entries on terminal boxes are drilled for external wiring connection purpose on-site, and only Ex certified (Ex db) cable glands shall be used. Unused entries shall be closed by Ex certified (Ex db) blanking element. Connection bolts are installed inside for wiring.

Motors supplied by a frequency converter may be equipped with thermal protection devices embedded in the stator winding (one per phase) to ensure the insulation class and temperature class.

The degree of protection of the enclosure is IP65, according to IEC 60079-0 and IEC 60529.

### Ratings:

Maximum voltage: 1140 V AC, 50/60 Hz;

Maximum power: 315 kW

Classification of installation and use	Stationary
Ingress protection	IP65
Rated ambient temperature range (°C)	-55 °C ... +60 °C
Rated ambient temperature range (°C) for Ex Components	N/A

### Warning labels:

WARNING – FREQUENCY CONVERSION POWER SUPPLY CANNOT BE USED FOR FAN MOTOR

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

WARNING – FREQUENCY CONVERSION POWER SUPPLY CANNOT BE USED FOR FAN MOTOR

CAUTION – USE FASTENERS WITH YIELD STRESS  $\geq 640$  Mpa

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

- The flameproof joints are not intended to be repaired
- Potential electrostatic charging hazard – See instruction
- Frequency conversion power supply cannot be used for fan motor
- Warning – Only Use Cables Suitable For 135 °C



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## Equipment (continued):

### Type designation:

H3DX series	H6DX series
H3DX 80	H6DX 80
H3DX 90	H6DX 90
H3DX 100	H6DX 100
H3DX 112	H6DX 112
H3DX 132	H6DX 132
H3DX 160	H6DX 160
H3DX 180	H6DX 180
H3DX 200	H6DX 200
H3DX 225	H6DX 225
H3DX 250	H6DX 250
H3DX 280	H6DX 280
H3DX 315	H6DX 315
H3DX 355	H6DX 355
H3DX 400	H6DX 400
H3DX 450	H6DX 450

For technical documentation refer to test report CH/SEV/ExTR20.0015.

