



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

Certificate No.: IECEx BVS 14.0022X Issue No: 0 Certificate history:
Issue No. 0 (2014-03-06)

Status: **Current** Page 1 of 4

Date of Issue: **2014-03-06**

Applicant: **Getriebebau Nord GmbH & Co. KG**
Rudolf-Diesel-Strasse 1
22941 Bargteheide
Germany

Equipment: **Three phase cage motor type SK *** **/* IDB *******
Optional accessory: **Three phase cage motor type SK *** **/* IDC *******

Type of Protection: **Equipment dust ignition protection by enclosure 't'**

Marking: Ex tb IIIC T°C Db
Ex tc IIIB T°C Dc

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

H.-Ch. Simanski

Position:

Head of Certification Body

*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](http://www.iecex.com).

Certificate issued by:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany





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Certificate No: IECEx BVS 14.0022X Issue No: 0
Date of Issue: 2014-03-06 Page 2 of 4
Manufacturer: **Getriebebau Nord GmbH & Co. KG**
Rudolf-Diesel-Strasse 1
22941 Bargteheide
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 electrical 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 : 2007-10 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:5
IEC 60079-31 : 2008 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
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:

[DE/BVS/ExTR14.0023/00](#)

Quality Assessment Report:

[DE/PTB/QAR10.0005/01](#)



IECEX Certificate of Conformity

Certificate No: IECEx BVS 14.0022X

Issue No: 0

Date of Issue: 2014-03-06

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Subject and Type

Three phase cage motor type SK *** **/* IDB *****

Asterisk Description

1.3 Size

This value defines the height of the shaft (63, 71, 80, 90, 100, 112, 132, 160, 180 and 200)

4.5 Power class

Identification character for the power assignment within a size of motor
Possible values are S, M, L, LA, MA, SA, MB, LB, LX, MX, SH, MH, LH,
SP, MP, LP, XH, XP, AH, AP or RH.

6 Quantity of poles

7..14 Optional values for variants

TF Thermistors

RD Protective cover

WE Second shaft ending

KB Draining hole

OL Without fan

OL/H Without fan / hood

CONDITIONS OF CERTIFICATION: YES as shown below:

The lids of the terminal compartments shall be protected against the high degree of mechanical risk.



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Certificate No: IECEx BVS 14.0022X

Issue No: 0

Date of Issue: 2014-03-06

Page 4 of 4

EQUIPMENT (continued):

Description

The complete motor is designed in type of protection Protection by Enclosure 't' for use in areas endangered by dust atmosphere. This three phase cage motor will be constructed with different sizes for the same design. Optionally the motor is equipped with thermistors (DIN 44082) for the direct temperature monitoring. The joint between the stator housing and the bearing shields on both sides can be sealed by use of a flat gasket.

The motor can be used within an ambient temperature range of -20 °C ... 40 °C. Furthermore the motor can be used up to an upper temperature range of 60 °C while reducing the rated power of the motor. The motor can be used with converters if it has been tested with the related converter or with a comparable converter with identical parameters.

Parameters

The exact fixation of the electrical parameters of the motor including the ambient temperature range and, if applicable, the direct temperature monitoring will be done by the manufacturer. The verification of this commitment regarding the temperature measurements and the validation of the results will be done by the manufacturer according to the agreement with the BVS.