



EC- Certificate of Conformity

Manufacturer: **VEM motors GmbH**
Elektromotorenwerk Wernigerode

Address: PO-Box 10 12 52 * 38842 Wernigerode
Carl-Friedrich-Gauß-Str. 1
38855 Wernigerode

Product Designation: **Three-phase asynchronous motors with squirrel-cage rotor**
K1..., K2..., W...
Size 112 ... 355
Degree of protection IP 55, IP 56 or IP 65 for conductive dust



II 3 D, IP55 T 125°C
(IP 65 for conductive dust)



II 3 D, Ex tD A22 IP55 T 125°C
(IP 65 for conductive dust)

The named product is in conformity with the following regulations of the Directives of the European Union:

94/9/EG, 98/37/EG, 2006/95/EG, 89/336/EWG

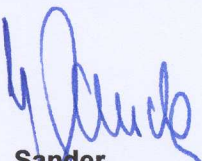
The conformity with the instructions of this Directive has been proved by the observation of the standards:

**DIN EN 50014, DIN EN 50281 and pr EN 61241-0 / DIN EN 61241-1,
DIN EN 60034, IEC 60072**

First marking with the CE mark: 04.1999

The named product is intended for the incorporation into a machinery. It must not be put into service until the relevant machinery into which it has been incorporated has been declared to be in conformity with the provisions of the Directive 98/37/EG.

First edition: 02.99
Wernigerode, 19th January 2007


Sander
Managing Director


Beutner
Factory Manager

The Quality Management System has been certified by IBExU Institut für Sicherheitstechnik GmbH, Named Authority No. **0637**, with the Approval No. IBExU02ATEXQ003.

This certificate attests the conformity with the named Directives, however, it is not a promise of properties in the meaning of product liability. Attention must be paid to the Safety Regulations of the product documentation.



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38855 Wernigerode

Product designation: Three-phase asynchronous motors with squirrel-cage rotor
K1.Q..., K2.Q ...
Size 112 ... 315
Degree of protection IP 65



II 2 D, IP65 T 125°C



II 2 D, Ex tD A21 IP65 T 125°C

The named product is in conformity with the following regulations of the Directives of the European Union:

94/9/EG, 98/37/EG, 2006/95/EG, 89/336/EWG

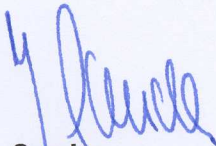
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DIN EN 60034, IEC 60072**

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Product Designation: Three-phase asynchronous motors with squirrel-cage rotor
K1..., K2..., KU..., KV..., W...
Size 112 ... 355
Type of protection "n"



II 3 G EEx nA II T2, T3 or T4



II 3 G Ex nA II T2, T3 or T4

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94/9/EG, 98/37/EG, 2006/95/EG, 89/336/EEG

The conformity with the instructions of this Directive has been proved by the observation of the standards:

**DIN EN 50014, DIN EN 50021, DIN EN 60079-0, DIN EN 60079-15,
DIN EN 60034, IEC 60072**

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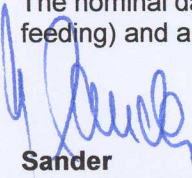
Inverter operation: the above designated motors for gas explosion protection


Group II, Category 3G (Zone 2) Temperature class T1-T3 and T4 respectively

are in accordance with the installation regulations DIN EN 60079-15 of May 2004 suitable for inverter feeding, if:

- the peak voltage is limited to 1 kV and du/dt to 500 V/ μ s by means of appropriate action or the system converter-motor is tested and characterised as a unit,
- the application range including the maximum speed and the speed-torque-characteristics given on the nameplate are not exceeded.

The nominal data and other data given on the nameplate are related to the nominal operation (no inverter feeding) and are only reference purposes for the inverter feeding.


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Product designation: Three-phase asynchronous motors with squirrel-cage rotor
K1.R ...
Size 112 ... 355
Type of protection „increased safety“



II 2 G EEx e II T2, T3 or T4



II 2 G Ex e II T2, T3 or T4

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94/9/EG, 98/37/EG, 2006/95/EG, 89/336/EWG

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**DIN EN 50014, DIN EN 50019, DIN EN 60079-0, DIN EN 60079-7,
DIN EN 60034, IEC 60072**

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K1.R., K2.R., W...
Size 112 ... 355

 II 3 G EEx nA II T2, T3 or T4
 II 3 G Ex nA II T2, T3 or T4

or

 II 3 D, Ex tD A22 IP55 T 125°C
(IP 65 for conductive dust)

or

 II 2 D, Ex tD A21 IP65 T 125°C

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DIN EN 60079-0, DIN EN 60079-15, DIN EN 60034, IEC 60072**

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pr EN 61241-0 / DIN EN 61241-1, DIN EN 50014, DIN EN 50019
DIN EN 60079-0, DIN EN 60079-7, DIN EN 60034, IEC 60072

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