



# 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.:  issue No.:  History:

Status:

Date of Issue: **2007-06-18** Page 1 of 4

Applicant: **ATB Motorentchnik GmbH**  
Helgoländer Damm 75  
26954 Nordenham  
Germany

Electrical Apparatus: **Three-phase explosion proof motors type BD 200.-...**  
Optional accessory:

Type of Protection: **Flameproof Enclosure "d"**

Marking: **Ex d IIB T3 - T6 resp. Ex de IIB T3 - T6**  
**Tamb -55 °C to +60 °C**

Approved for issue on behalf of the IECEX  
Certification Body:

Dr.-Ing. Uwe Klausmeyer

Position:

Head of Section "Flameproof Enclosure"

Signature:  
(for printed version)

Date:

20.7.07

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:

**Physikalisch-Technische Bundesanstalt (PTB)**  
Bundesallee 100  
38116 Braunschweig  
Germany





# IECEX Certificate of Conformity

Certificate No.: IECEX PTB 07.0031

Date of Issue: 2007-06-18

Issue No.: 0

Page 2 of 4

Manufacturer: **ATB Motorentechnik GmbH**  
Helgoländer Damm 75  
26954 Nordenham  
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 manufacture'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:

**IEC 60079-0 : 2000** Electrical apparatus for explosive gas atmospheres - Part 0: General requirements  
Edition: 3.1

**IEC 60079-1 : 2001** Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosures 'd'  
Edition: 4

*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/PTB/ExTR07.0036/00

Quality Assessment Report:

DE/TUN/QAR06.0001/00



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Certificate No.: IECEx PTB 07.0031

Date of Issue: 2007-06-18

Issue No.: 0

Page 3 of 4

## Schedule

### EQUIPMENT:

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

see annex

### CONDITIONS OF CERTIFICATION: NO

see annex



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Certificate No.: IECEx PTB 07.0031

Date of Issue: 2007-06-18

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Page 4 of 4

**Additional information:**

see annex

**Annexe:** annex.pdf



#### Description of equipment

The three-phase explosion proof motor Type BD 200.-... is a rotary electric machine, which is designed to flameproof enclosure "d" type of protection for use in area with potentially explosive gas, vapour, mist, air mixtures. The enclosure is provided with cooling fins. It may optionally come as a cast or a welded steel unit. The shaft rotates in anti-friction bearings. Together with the inside end shields provided at the drive end and the opposite end, the shaft forms a flameproof shaft joint. Electric energy is supplied by means of separately certified terminal compartments

#### Electrical data

The motors of type series BD 200.-... are designed for ratings within the following limits:

|                       |                        |
|-----------------------|------------------------|
| Voltage               | 1100 V                 |
| Current               | 100 A                  |
| Power                 | 60 kW                  |
| Speed                 | 6000 min <sup>-1</sup> |
| Frequency (main)      | max. 60 Hz             |
| Frequency (converter) | 1 - 100 Hz             |

#### Key of type designation

|  |   |
|--|---|
| BD 200 .-....  | e.g. BD 200 L-2                               |
| B  | Group IIB , flameproof enclosure              |
| D  | Three phase current                           |
| 200  | Frame size                                    |
| L  | length of package                             |
| 2,4,6,8,...  | number of poles                               |
| 4/2, 6/4, 8/4,...  | change-pole motor                             |
| optional the following characters can be added, example: |   |
| A  | axial fan                                     |
| F  | separately driven fan                         |
| W  | water cooling system                          |
| O  | without an external fan                       |
| R  | with speed monitor                            |
| K  | without Terminal box, with direct cable entry |
| E  | Terminal box "Increased Safety"               |
| D  | Terminal box "Flameproof Enclosure"           |
| 0-9  | Generation of the Construction                |



## IECEX Ex TEST REPORT COVER

|   |   |                                 |
|---|---|---------------------------------|
| ExTR Reference Number .....   | DE/PTB/ExTR07.0036/00                             |                                 |
| ExTR Free Reference Number .....  | DE/PTB/ExTR07.0036/00                             |                                 |
| Complied by + signature (ExTL).....   | Jörg Flötotto                                     | <i>Jörg Flötotto</i> 2007-07-03 |
| Reviewed by + signature (ExTL).....   |   | <i>[Signature]</i>              |
| Approved by + signature (ExCB).....   | Dr. U. Klausmeyer                                 | <i>[Signature]</i>              |
| Date of issue .....   | 2007-06-28  |                                 |
| Ex Certification Body (ExCB) .....  | PTB - Physikalisch-Technische Bundesanstalt (PTB) |                                 |
| Address .....   | Bundesallee 100, 38116 Braunschweig               |                                 |
| Ex Testing Laboratory (ExTL) .....  | PTB - Physikalisch-Technische Bundesanstalt (PTB) |                                 |
| Address .....   | Bundesallee 100, 38116 Braunschweig               |                                 |
| Applicant's name .....  | ATB Motorentechnik GmbH                           |                                 |
| Address .....   | Helgoländer Damm 75, 26954 Nordenham              |                                 |
| Standards.....  | IEC 60079-0 (Ed.3.1); IEC 60079-1 (Ed.4)          |                                 |
| Test procedure .....  | IECEX Scheme                                      |                                 |
| Test Report Form No.....  | ExTR Cover_1                                      |                                 |
| TRF Originator.....   | Underwriters Laboratories Inc. (UL)               |                                 |
| Master TRF .....  | dated 2006-08                                     |                                 |
| <b>Instructions for Intended Use of Cover Sheet:</b><br>This document is to be compiled and reviewed by the ExTL, with the ExCB giving the final approval, or compiled by the ExCB without the involvement of the ExTL. It is to serve as the sole cover for an ExTR package, which may be comprised of a single ExTR document or multiple ExTR documents. This ExTR Cover is to be completed and attached to the completed ExTR package.   |   |                                 |
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| Test item description .....   | Three phase motor type BD 200.-...                |                                 |
| Trademark.....  | Three phase motor type BD 200.-...                |                                 |
| Model/type reference.....   | Three phase motor type CD 200.-...                |                                 |
| Manufacturer .....  | ATB Motorentechnik GmbH                           |                                 |
| Address .....   | Helgoländer Damm 75, 26954 Nordenham              |                                 |
| Code (e.g. Ex __ II__ T__ ).....  | Ex d IIB T3 - T6 resp. Ex de IIB T3 - T6          |                                 |
| Rating .....  | see DE/PTB/ExTR06.0026/00                         |                                 |

TRF No.:ExTR Cover\_1

TRF originator: Underwriters Laboratories Inc.



Copy of Marking Plate

see DE/PTB/ExTR06.0026/00

E 0 - 50 - 1005

**Particulars: test item vs. test requirements**

Classification of installation and use ..... : portable / stationary / hand-held  
 Ingress protection ..... : IP  
 Rated ambient temperature range (°C) ..... : see DE/PTB/ExTR06.0026/00

**General remarks:**

**General product information:**

This motor shall be certified for gas group IIB instead of IIC without any constructive changes.  
 See reference IECEx Test Report DE/PTB/ExTR06.0026/00 and Certificate IECEx PTB 06.0023

**Manufacturer's Documents**

| Title:   | Drawing No.:          | Rev. Level: | Date: |
|----------|-----------------------|-------------|-------|
| see ExTR | DE/PTB/ExTR06.0026/00 |             |       |
|          |                       |             |       |
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