



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 PTB 06.0022** issue No.:1

Certificate history:

Issue No. 1 (2009-4-6)
Issue No. 0 (2006-3-29)

Status: **Current**

Date of Issue: **2009-04-06**

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

Electrical Apparatus: **Three-phase explosion proof motors type CD 180-...**
Optional accessory:

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

Marking: **Ex d IIC T3 - T6 resp. Ex de IIC 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:

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



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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 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 : 2000 Edition: 3.1	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 : 2001 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosures 'd'
IEC 60079-7 : 2001 Edition: 3	Electrical apparatus for explosive gas atmospheres - Part 7: Increased safety 'e'

*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/ExTR06.0025/00
DE/PTB/ExTR09.0025/00

Quality Assessment Report:
DE/TUN/QAR06.0001/00



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description of equipment

The three-phase explosion proof motor Type CD 180-... 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 CD 180-... are designed for ratings within the following limits:

Voltage	1100 V
Current	100 A
Power	45 kW
Speed	6000 min ⁻¹
Frequency (main)	max. 60 Hz
Frequency (converter)	1 - 100 Hz

Key of type designation

CD 180 -....	e.g. CD 180 L-2
C	Group IIC , flameproof enclosure
D	Three phase current
180	Frame size
M/L	length of package

CONDITIONS OF CERTIFICATION: NO

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



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

This issue is to nominate the standard IEC 60079-7 for sperate certified terminal boxes in the certificate. All the details are specified in the Ex-TR's.