



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 08.0029** issue No.: **0** Certificate history: _____

Status: **Current**

Date of Issue: **2008-07-07** Page 1 of 3

Applicant: **Lutz Pumpen GmbH**
Erlenstrasse 5-7
97864 Wertheim
Germany

Electrical Apparatus: **Universal motor for driving barrel and tank pumps**
Optional accessory:

Type of Protection: **Flameproof Enclosures, Increased Safety**

Marking: **Ex de IIC T4, T5 resp. T6**

Approved for issue on behalf of the IECEx Certification Body: Dr.-Ing Uwe Klausmeyer

Position: Head of department "Flame transmission processes"

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:

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





IECEX Certificate of Conformity

Certificate No.: IECEx PTB 08.0029

Date of Issue: 2008-07-07

Issue No.: 0

Page 2 of 3

Manufacturer: **Lutz Pumpen GmbH**
Erlenstrasse 5-7
97864 Wertheim
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 : 2007-10** Explosive atmospheres - Part 0: Equipment - General requirements
Edition: 5
- IEC 60079-1 : 2007-04** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition: 6
- IEC 60079-7 : 2006-07** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
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/ExTR08.0034/00](#)

Quality Assessment Report:

[DE/TPS/QAR08.0003/00](#)



IECEx Certificate of Conformity

Certificate No.: IECEx PTB 08.0029

Date of Issue: 2008-07-07

Issue No.: 0

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Universal motor for driving barrel and tank pumps type ME II is used for the drive of drum and container pumps, for the application in hazardous locations or for the pumping of flammable liquids. The motor is equipped with an on/ off switch, an overload protection switch and a no-voltage circuit switch. The motor housing is constructed with the protection type flameproof enclosure "d", the link space is constructed in increased security "e". At the lower end of the motor housing is a thread for the connection of the engine with an explosion-proof pump, which has to be certified separately, for the zone 0 (category 1). If a no-voltage circuit cannot be designated for operational reasons (e.g. supervisory control), the drum pump unit is to be arranged in such a way, that no rubbing and impact sparks develop, and the operating conditions ensure a safe operation. _

Technical data

Rated power: 380 ... 930 W

Rated voltage: 24 to 230 V DC/AC

Rated amperage: 2.35 ... 17 A

Power factor: 0.79 ... 0.88

Frequency: 50 ... 60 Hz

Speed: 7 500 ... 11 000 rpm

Duty type: S1

Temperature class: Optionally T4, T5 or T6, subject to the design used.

Ambient temperature: The T6 and T5 designs may be used at -20 °C to +60 °C when downgrading the temperature class to T4.

CONDITIONS OF CERTIFICATION: NO

Additional notes for safe operation

1. In view of the outer total insulation, the motor is not provided with any outer protective conductor or equipotential bonding conductor terminal. The inner metal enclosure has to be connected to the protective conductor system by means of the connecting cable (open-ended line).
2. If connection is made inside the potentially explosive area, the end of the open-ended line must be provided with an explosion-protected connector, tested and certified for an approved type of protection.