



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 07.0018X** issue No.: **0** Certificate history:

Status: **Current**

Date of Issue: **2007-09-05** Page 1 of 4

Applicant: **Steute Schaltgeräte GmbH & Co. KG**
Brückenstraße 91
32584 Löhne
Germany

Electrical Apparatus: **Solenoid interlock type EEx AZ* 415... or EEx AZ* 415...***
Optional accessory:


Type of Protection: **Flameproof enclosure 'd'; Construction, test and marking of type of protection encapsulation 'm'; Equipment protection by increased safety 'e'; Protection by enclosures 'tD'**

Marking: **Ex demb IIC T6/T5**
Ex tD A21 IP67 T 80 °C / T 95 °C or
Ex tD A21 IP64 T 80 °C / T 95 °C

Approved for issue on behalf of the IECEx Certification Body: **Dr. R. Jockers**

Position: **Head of Certification Body**

Signature:
(for printed version)


05.09.2007

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:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

 **DEKRA**
DEKRA EXAM GmbH



IECEX Certificate of Conformity

Certificate No.: IECEx BVS 07.0018X

Date of Issue: 2007-09-05

Issue No.: 0

Page 2 of 4

Manufacturer: **Steute Schaltgeräte GmbH & Co. KG**
Brückenstraße 91
32584 Löhne
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 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 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 : 2003 Edition: 5	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'
IEC 60079-18 : 2004 Edition: 2.0	Electrical apparatus for explosive gas atmospheres - Part 18: Construction, test and marking of type of protection encapsulation 'm' electrical apparatus
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
IEC 61241-0 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
IEC 61241-1 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

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/ExTR07.0014/00
DE/BVS/ExTR07.0022/00

Quality Assessment Report:

DE/BVS/QAR06.0023/00



IECEx Certificate of Conformity

Certificate No.: IECEx BVS 07.0018X

Date of Issue: 2007-09-05

Issue No.: 0

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

General product information

The first asterisk in the type designations EEx AZ* 415... and EEx AZ* 415...-* of the solenoid interlock will be replaced by the characters M or P.

The solenoid interlock type EEx AZM 415... is designed in type of protection increased safety "e" and is equipped with a switch insert in type of protection flameproof enclosure "d" and with a coil (actuation magnet) designed in type of protection encapsulation "m".

The solenoid interlock type EEx AZP 415... is equipped with a pneumatic actuation.

The ingress protection of these types is IP67.

The second asterisk in the type designation EEx AZ* 415...-* will be replaced by the extensions TE or TEI or FE or FE/TE. The ingress protection of these types is IP64.

For a further differentiation the dots in the type designation will be replaced regarding actuation and contact function.

The solenoid interlock is suitable for the application in areas potentially hazardous by combustible gases and dusts.

CONDITIONS OF CERTIFICATION: YES as shown below:

Special conditions for safe use

If no external fuse is used with a switching capacity of at least 1,500 A the maximum possible short circuit current of the feeding source has to be limited to the breaking capacity of the internal fuse of 50 A.



IECEx Certificate of Conformity

Certificate No.: IECEx BVS 07.0018X

Date of Issue: 2007-09-05

Issue No.: 0

Page 4 of 4

EQUIPMENT(continued):

Ratings

Rated operating voltage (coil, actuation magnet)	DC 24 V
Rated switching voltage	DC 230 V AC 250 V
Rated switching current	DC 0.25 A AC 6 A
Utilization category	DC 13 AC 15
Rated connecting Capacity (min.)	0.75 mm ²
Ambient temperature range	-20 °C ≤ Ta ≤ +40 °C for T6 and T 80 °C -20 °C ≤ Ta ≤ +55 °C for T5 and T 95 °C
Rated operating pressure (only for types EEx AZP 415... and EEx AZP 415...*)	4 to 7 bar