



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 13.0011X	issue No.:0	Certificate history:
Status:	Current		
Date of Issue:	2013-03-11	Page 1 of 4	
Applicant:	Bürkert Werke GmbH & Co. Christian-Bürkert-Straße 13 74653 Ingelfingen Germany		
Electrical Apparatus:	Electromagnet, type 7..-.....		
Optional accessory:			
Type of Protection:	encapsulation, increased safety		
Marking:	II 2 G Ex mb IIC T6 Gb II 2 G Ex e mb IIC T6 Gb		
Approved for issue on behalf of the IECEx Certification Body:	Dr.-Ing. Ulrich Johannsmeyer		
Position:	Head of Department "Intrinsic Safety and Safety of Systems"		
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





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Manufacturer: **Bürkert Werke GmbH & Co.**
Christian-Bürkert-Straße 13
74653 Ingelfingen
Germany

Additional 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 60079-18 : 2009 Explosive atmospheres Part 18: Equipment protection by encapsulation "m"
Edition: 3

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/ExTR13.0015/00](#)

Quality Assessment Report:
[DE/PTB/QAR07.0002/04](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The magnet coil, type 7..-..... , is used to operate valves controlling gaseous or liquid media. The coil is either potted with the guide sleeve of the armature, or it is mounted on the armature's guide sleeve and secured by means of a nut. The assembled system is always a closed system, and the equipment may also be applied as EPL Gb equipment in petrol pumps for the control of petrol. The valve bodies may optionally be made from metal or polyimide.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. A fuse corresponding to magnet's rated current (max. $3 \times I_B$ according to IEC 60127) or a motor protecting switch with short-circuit or thermal instantaneous tripping (adjusted to rated current) shall be connected in series to each magnet. This fuse may be accommodated in the corresponding power supply unit or it shall be separately connected in series. The rated voltage of the fuse shall be the same as or higher than the maximum value of the rated voltage specified for the magnet.
The breaking capacity of the fuse link shall be the same as or higher than the maximum short-circuit current expected to occur at the place of installation (usually 1500 A).
2. When the magnet coil, type 7.. , is used as EPL Gb equipment in petrol pumps for petrol control, the valve body must be made from metal. The coil is mounted on the assembly's guide sleeve and may only be removed by the manufacturer. The valves always form a closed system.
3. The ambient temperature range specified under "Electrical data" shall be considered for each type.
4. The type of protection of the type 7 ... magnet coil changes by mounting a terminal box.
5. If the equipment is connected inside the hazardous area, the non-detachable connecting cable of the magnet shall be connected in an enclosure that meets the requirements of an approved type of protection according to IEC 60079-0.



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EQUIPMENT(continued):

Electrical Data

Type 71.
 Type of current universal
 Rated voltage 12 V ... 380 V +/-10%
 Rated current 0.38 A ... 0.012 A
 Limit rating 5 W
 Max. permissible ambient temperature -40 °C ... +60 °C
 Temperature class T6
 Frequency 0 Hz ... 60 Hz
 Individual installation yes

Type 72.
 Type of current universal
 Rated voltage 12 V ... 380 V +/-10%
 Rated current 1.2 A ... 0.038 A
 Limit rating 16 W
 Max. permissible ambient temperature -40 °C ... +40 °C
 Temperature class T4
 Frequency 0 Hz ... 60 Hz
 Individual installation yes

Type 73.
 Type of current universal
 Rated voltage 12 V ... 380 V +/-10%
 Rated current 0.53 A ... 0.017 A
 Limit rating 7 W
 Max. permissible ambient temperature -40 °C ... +60 °C
 Temperature class T6
 Frequency 0 Hz ... 60 Hz
 Individual installation yes

Type 735
 Type of current universal
 Rated voltage 12 V ... 380 V +/-20%
 Rated current 0.42 A ... 0.013 A
 Limit rating 6 W
 Max. permissible ambient temperature -40 °C ... +40 °C
 Temperature class T6
 Frequency 0 Hz ... 60 Hz
 Individual installation yes