

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 EPS 16.0021X	Issue No: 2	Certificate history:
Status:	Current	Page 1 of 4	Issue No. 2 (2016-11-04)
Date of Issue:	2016-11-04		Issue No. 1 (2016-09-05)
			Issue No. 0 (2016-04-05)
Applicant:	Bürkert Werke GmbH Christian-Bürkert-Straße 13-17 74653 Ingelfingen Germany		
Equipment:	Solenoid AC10-U3-* PX** JA1*		
Optional accessory:			
Type of Protection:	eb mb tb		
Marking:	Ex eb mb IIC T6...T4 Gb Ex mb tb IIIC T80°C...130°C Db		

Approved for issue on behalf of the IECEX
Certification Body:

D. Zitzmann

Position:

Manager Certification

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:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany





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Manufacturer: Bürkert Werke GmbH
Christian-Bürkert-Straße 13-17
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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-18 : 2014 Edition:4.0	Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by 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:

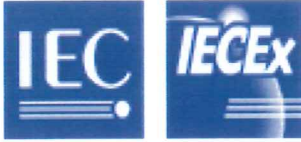
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[DE/EPS/ExTR16.0021/02](#)

Quality Assessment Report:

[DE/PTB/QAR07.0002/06](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The solenoid type AC10-U3-* PX** JA1* is an assembly of a certified Ex equipment "solenoid coil" with a certified Ex component "terminal box". The solenoid coil complies with the type of protection "mb", the terminal box with types of protection "eb" for gas and "tb" for dust. The solenoid coil is described within the certificate IECEX PTB 14.0049X, the terminal box is described within the certificate IECEX PTB 15.0037U.

Optionally certified fuses can be used in the solenoid type AC10 * JA11. The fuses are described in the certificate IECEX PTB 16.0019U and protected by kind of ignition protection "mb".

Type	Temperature class	Tamb (°C)	Rated voltage (V)	Rated power (W)	Rated cold current (mA)	Mounting
PX22 + JA1*	T4	-40 - 60	12 - 240	7.0	30 - 620	Single mounting
PX23 + JA1*	T4	-40 - 60	12 - 240	9.0	30 - 790	Single mounting
PX24 + JA1*	T4	-40 - 40	12 - 240	7.0	30 - 620	Block mounting
PX25 + JA1*	T6	-40 - 40	12 - 240	3.0	10 - 250	Single mounting
PX26 + JA1*	T6	-40 - 60	12 - 240	1.8	10 - 160	Single mounting
PX27 + JA1*	T6	-40 - 50	12 - 240	2.25	10 - 200	Block mounting
PX28 + JA1*	T6	-40 - 40	12 - 240	2.25	10 - 200	Single mounting
PX29 + JA12	T5	-40 - 60	12 - 240	3.0	10 - 250	Block mounting
PX30 + JA12	T5	-40 - 50	12 - 240	3.0	10 - 250	Single mounting
PX31 + JA12	T4	-40 - 80	12 - 240	3.0	10 - 250	Single mounting

CONDITIONS OF CERTIFICATION: YES as shown below:

A fuse corresponding to the rated current of the magnet (max. 3 x IB according to IEC 60127) shall be connected in series to each solenoid as short-circuit protection. The rated voltage of the fuse shall be the same as or higher than the maximum value of the nominal voltage (UN + 10%) specified for the magnet. The breaking capacity of the fuse link shall be the same or higher than the maximum short-circuit current expected to occur at the place of installation (usually 1500 A).

If types of different power are used for the solenoids intended for block mounting, the technical data of the type with the highest power shall apply with respect to the specification of the temperature class. In this case the maximum permissible ambient temperature is +40 °C.

The valve body shall comply with the following requirements as a minimum:

Material: Metal (brass, aluminum, stainless steel) or polyamide
Minimum dimensions: 32 mm x 32 mm x 10 mm

The device shall never be used in areas affected by charge-generating processes, mechanical friction and separation processes, electron emission (e.g. in the vicinity of electrostatic coating equipment), and pneumatically conveyed dust.



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

Additional variants in block assembly (variants PX24, PX28 and PX30)