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EU - Type Examination Certificate

- (1)
- (2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**
- (3) EU - Type Examination Certificate Number

EPS 18 ATEX 1 232 X

Revision 1

- (4) Equipment: Solenoid coil AC10-...-....
- (5) Manufacturer: Bürkert Werke GmbH & Co. KG
- (6) Address: Christian-Bürkert-Straße 13-17
74653 Ingelfingen
Germany
- (7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.
- (8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 18TH0430.
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN IEC 60079-7:2015/A1:2018

EN 60079-18:2015/ A1: 2017

EN 60079-31:2014

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.
- (11) This EU - Type Examination Certificate relates only to the design and examination of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.
- (12) The marking of the equipment shall include the following:

II 2G Ex mb IIC T* Gb (AC10-U3-*-JJ**-JW**-PX**)

II 2D Ex mb IIIC T***°C Db



II 2G Ex eb mb IIC T* Gb (AC10-U3-*-JA**-PX**)

II-2D Ex-mb tb IIIC T***°C Db

Certification department of explosion protection

Hamburg, 2019-11-07



H. Schaffer

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(13)

Annex

(14) **EU - Type Examination Certificate EPS 18 ATEX 1 232 X**

Revision 1

(15) Description of equipment:

The solenoid type AC10-...-... is used for actuating valves that control gaseous or liquid media. The electrical connection is provided by either a cable-connection or a terminal box. The terminal box is described and certified under the certificate number PTB 15 ATEX 1011 U/ IECEx PTB 15.0037U.

Description of modification with revision 1

Adaptation to the latest version of Standards, supplementing of measurement of temperature increase with dust layer, reducing of maximum ambient temperature for PX58 and PX61 (see values), conducting of O-ring seals and adding corresponding test reports, adding the Installation instructions for cables.

Electrical data:

Assembly, temperature:

VAR EPS	VAR PTB	Temperature class	Ambient temperature [°C]	Assembly
PX58	PX22	T4/T130°C	-40...+55	Single assembly
	PX23	T4/T130°C	-40...+55	Single assembly
PX59	PX24	T4/T130°C	-40...+40	Block assembly
PX60	PX25	T6/T80°C	-40...+40	Single assembly
PX61	PX26	T6/T80°C	-40...+55	Single assembly
PX62	PX27	T6/T80°C	-40...+50	Single assembly
PX63	PX28	T6/T80°C	-40...+40	Block assembly
PX64	PX29	T5/T95°C	-40...+60	Single assembly
PX65	PX30	T5/T95°C	-40...+50	Block assembly
PX66	PX31	T4/T130°C	-40...+80	Single assembly

ABD 1000383694 ML Version: A Status: RL (released | freigegeben) printed: 18.01.2021



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Wiring, power, voltage, frequency (size 32 mm):

code	wire- \emptyset [mm]	winding	R ₂₀ [Ohm]	power [W]	voltage [V]	frequency [Hz]
04EA	0,05	40000	21405	3	240	50, 60
					230	DC, 50, 60
08EA	0,067	25000	7840	7	240	50, 60
					230	DC, 50, 60
10EA	0,075	19110	4630	3	120	50, 60
					110	DC, 50, 60
13EB	0,09	13600	2580	7	120	50, 60
14EB	0,095	12800	1950	7	115	DC, 50, 60
14EA	0,095	12200	1830	7	110	DC, 50, 60
15EA	0,1	11150	1520	7	100	DC, 50, 60
16EA	0,106	9700	1160	3	60	DC, 50, 60
18EB	0,118	8000	775	3	48	DC, 50, 60
22EA	0,15	5200	312	7	48	DC, 50, 60
23EA	0,16	4500	235	2,25	24	DC, 50, 60
24EA	0,17	3900	184	3	24	DC, 50, 60
28EA	0,212	2600	79	7	24	DC, 50, 60
32EA	0,25	1930	42,3	3	12	DC, 50, 60
36EA	0,315	1250	17,1	7	12	DC, 50, 60

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Wiring, power, voltage, frequency (size 40 mm):

code	wire- \emptyset [mm]	winding	R ₂₀ [Ohm]	power [W]	voltage [V]	frequency [Hz]
05EB	0,056	56000	28974	1,8	240	50, 60
					230	DC, 50, 60
11EA	0,08	28000	7110	9	240	50, 60
				1,8	120	50, 60
					110	DC, 50, 60
12EA	0,085	25200	5662	9	230	DC, 50, 60
18EA	0,118	13700	1600	9	120	50, 60
19EB	0,125	12150	1270	9	110	DC, 50, 60
				1,8	48	DC, 50, 60
25EB	0,18	5600	275	1,8	24	DC, 50, 60
26EB	0,19	5300	240	9	48	DC, 50, 60
33EA	0,265	2860	67	1,8	12	DC, 50, 60
34EA	0,28	2600	54	9	24	DC, 50, 60
40EA	0,4	1320	13,4	9	12	DC, 50, 60

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(16) Reference number: 18TH0430

(17) Special conditions for safe use:

The device shall never be used in areas affected by strong charge-generating processes, mechanical friction and separation processes, electron emission (e.g. in the vicinity of electrostatic coating equipment), and pneumatically conveyed dust. For cleaning the surface of housing only antistatic- or damp- clothes are allowed. By installing of cable, the bending radius must be observed.

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The solenoid shall always be used with armature.

If there are used different coils with different power the electrical values of the solenoid with max power is valid.
Then the max ambient temperature is +40°C.

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection

Hamburg, 2019-11-07



H. Schaffer