IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx PTB 15.0037U**

Page 1 of 4

Certificate history:
Issue 2 (2018-07-04)
Issue 1 (2017-01-09)
Issue 0 (2016-01-13)

Status: **Current**

Issue No: 3

Date of Issue: 2019-11-20

Applicant: **Bürkert Werke GmbH & Co. KG**
Christian Bürkert Str. 13 - 17
74653 Ingelfingen
Germany

Ex Component: Terminal box type JA**

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **"eb", "tb"**

Marking: Ex eb IIC Gb
Ex tb III C Db

Approved for issue on behalf of the IECEx Certification Body: **Dr.-Ing. D. Markus**

Position: **Head of Department "Explosion Protection in Energy Technology"**

Signature: (for printed version)

Date: 26.11.19

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 www.iecex.com or use of this QR Code.

Certificate issued by:

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

Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin

IECEx Certificate of Conformity

Certificate No.: **IECEx PTB 15.0037U** Page 2 of 4

Date of issue: 2019-11-20 Issue No: 3

Manufacturer: **Bürkert Werke GmbH & Co. KG**
Christian Bürkert Str. 13 - 17
74653 Ingelfingen
Germany

Additional manufacturing locations:

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with 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/ExTR15.0045/03

Quality Assessment Report:

DE/PTB/QAR07.0002/09

IECEx Certificate of Conformity

Certificate No.: **IECEx PTB 15.0037U**

Date of issue: 2019-11-20

Ex Component(s) covered by this certificate is described below:

The terminal box type JA** consists of an enclosure out of aluminium which is equipped with three terminal blocks or three pcb terminals and one earthing terminal.
The connection is by - separately certified - cable glands.
It could be used as terminal box for - separately certified - solenoid coils by a specific interface.

Technical data and Nomenclature see Annex.

SCHEDULE OF LIMITATIONS:

The terminal box must not be used in areas affected by charge-producing processes, mechanical friction and separation processes, electron emission (e.g. in the vicinity of electrostatic coating equipment), and pneumatically conveyed dust.

IECEx Certificate of Conformity

Certificate No.: **IECEx PTB 15.0037U** Page 4 of 4

Date of issue: 2019-11-20 Issue No: 3

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
The interface to the magnet can optionally be sealed by an O-ring.

Annex:

COCA150037U-3.pdf

Applicant: Bürkert Werke GmbH & Co. KG
Christian-Bürkert-Straße 13 - 17
74653 Ingelfingen
Germany

Electrical Apparatus: Terminal box type JA**

Description

The terminal box type JA** consists of an enclosure out of aluminium which is equipped with three terminal blocks or three pcb terminals and one earthing terminal.
The connection is by - separately certified - cable glands.
It could be used as terminal box for - separately certified - solenoid coils by a specific interface.

Technical Data

Rated insulation voltage	250 V
Rated voltage	Max. 250 V+10%
Torque of the cover screw	2 Nm

Variants with terminal block	
Torque	1.2 Nm
Rated cross section	1.5 mm^2
Capacity	0.75 mm^2 to 1.5 mm^2
Number of cables	2 cables
Service temperature	-40 °C to +110 °C

Variants with pcb terminals	
Torque	0.25 Nm
Rated cross section	2.5 mm^2
Capacity	0.5 mm^2 to 2.5 mm^2
Number of cables	1 cable
Service temperature	-40 °C to +100 °C

Nomenclature

Type	Description
JA12	Terminal box, cable outlet 90°, inner thread M20 x 1,5, terminal block
JA13	Terminal box, cable outlet 90°, inner thread M20 x 1,5, pcb terminal
JA14	Terminal box, cable outlet 45°, inner thread M20 x 1,5, terminal block
JA16	Terminal box, cable outlet 45°, inner thread M20 x 1,5, pcb terminal
JA22	Terminal box, cable outlet 90°, inner thread NPT 1/2", terminal block
JA23	Terminal box, cable outlet 90°, inner thread NPT 1/2", pcb terminal
JA24	Terminal box, cable outlet 45°, inner thread NPT 1/2", terminal block
JA26	Terminal box, cable outlet 45°, inner thread NPT 1/2", pcb terminal

Schedule of Limitations

The terminal box must not be used in areas affected by charge-producing processes, mechanical friction and separation processes, electron emission (e.g. in the vicinity of electrostatic coating equipment) and pneumatically conveyed dust.

Installation of electrical components requires a further assessment by an ExCB.