

# CERTIFICATE OF CONFORMITY

**1. HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**

2. **Certificate No:** FM20US0138X

3. **Equipment:** AC10 Series  
(Type Reference and Name) Solenoid Coils

4. **Name of Listing Company:** Bürkert Werke GmbH & Co KG

5. **Address of Listing Company:** Christian-Bürkert-Straße 13-17, D74653 Ingelfingen, Germany

6. The examination and test results are recorded in confidential report number:

PR455799 dated 16<sup>th</sup> March 2021

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM 3600:2018, FM 3615:2018, FM 3616:2011, FM 3810:2018, ANSI/UL 60079-0:2019, ANSI/UL 60079-18:2015, ANSI/UL 60079-31:2015, ANSI/UL 61010-1:2015

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

10. **Equipment Ratings:**

See ANNEX

11. **The marking of the equipment shall include:**

See ANNEX

12. **Description of Equipment:**

General -

**Certificate issued by:**



J.E. Marquedant  
VP, Manager - Electrical Systems

26 February 2026

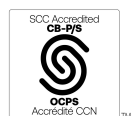
Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

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FM Approvals LLC. One Technology Way, Norwood, MA 02062 USA  
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## SCHEDULE

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The solenoid coil Type AC10 is an electromagnetic actuator for valves to control gaseous or liquid media. The valve function results from the connection of the solenoid coil with a fluid housing, whereby coil and fluid housing are connected by a locknut. The coil is therefore a push-over coil. The magnetic core serves as actuating element. When the coil is energized, the magnetic core gets attracted to the operating position. A spring returns the magnetic core to the safety position when the coil is de-energized. Due to the operation principle, the solenoid coil Type AC10 is counted as a plunger coil. The solenoid coil is separated from the fluid by the armature guide tube.

### Construction -

The AC10 Series Solenoid Coil housing is composed of epoxy resin. The power supply is connected via a cable. The cable is permanently integrated in the solenoid coil. All metallic components are grounded via the protective conductor in the cable.

### Ratings -

Depending on type, the Type AC10 Series Solenoid Coils operate at 12, 24, 110 VDC, and 24, 120 and 240 VAC, up to 10 Watts nominal power. The AC10 Series Solenoid Coils are rated for use in an ambient temperature range of -40°C to +50°C, -40°C to +40°C.

### Model Code:

See ANNEX

### 13. Specific Conditions of Use:

See ANNEX

### 14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

### 15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

### 16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
16 March 2021	Original Issue.
10 June 2021	<u>Supplement 1:</u> Report Reference: - RR228156 dated 10 June 2021. Description of the Change: Addition of Solenoid Coil Model 24UA, Revised "Specific Conditions of Use", and minor non safety related drawing changes.

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Date	Description
9 January 2026	<u>Supplement 2:</u> Report Reference: RR249111 dated 9 January 2026. Description of the Change(s): added AC10-19UB, updated Certificate and Listings
26 February 2026	<u>Supplement 3:</u> Report Reference: RR249606 dated 26 February 2026. Description of the Change(s): Model code corrections.

ABD\_1000484843\_EN\_Version\_C\_Status\_RL (released | freigegeben) | printed: 23.03.2026



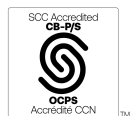
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# ANNEX

## AC10-29UA, AC10-25UA, AC10-24UA Solenoid Coils

### Equipment Ratings:

Explosionproof for Class I, Division 1, Groups A, B, C and D; Dust-ignitionproof for Class II,III, Division 1, Groups E, F and G; and Class I, Zone 1, AEx mb IIC T4 Gb, Zone 21 AEx mb IIIC T130°C Db, hazardous (classified) locations, with an ambient temperature rating of -40°C to +50°C

or

Explosionproof for Class I, Division 1, Groups A, B, C and D; Dust-ignitionproof for Class II,III, Division 1, Groups E, F and G; and Class I, Zone 1, AEx mb IIC T6 Gb, Zone 21 AEx mb IIIC T80°C Db, hazardous (classified) locations, with an ambient temperature rating of -40°C to +40°C

### Markings:

CI I, ZN 1, AEx mb IIC T4 Gb  
ZN 21, AEx mb IIIC T130°C Db  
CI I, Div 1, Gr A, B, C, D T4  
CI II,III, Div 1, Gr E, F, G, T4  
Ta = -40°C to +50°C  
Factory Sealed

or

CI I, ZN 1, AEx mb IIC T6 Gb  
ZN 21, AEx mb IIIC T80°C Db  
CI I, Div 1, Gr A, B, C, D T6  
CI II,III, Div 1, Gr E, F, G, T6  
Ta = -40°C to +40°C  
Factory Sealed

### Description of Equipment:

#### Model Code -

#### **AC10-29UA, AC10-25UA a b Solenoid Coils**

a = Supply voltage: 24 VDC  
b = Coil Frequency (Hz): DC

#### **AC10-24UA a b Solenoid Coils**

a = Supply voltage: 120 VAC  
b = Coil Frequency (Hz): 60

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### Specific Conditions of Use:

1. Refer to the manufacturer's instructions to reduce the potential of an electrostatic charging hazard on the equipment enclosure.
2. Solenoid leads must be terminated in a suitable junction box.

## AC10-40UA, AC10-34UC, AC10-19UB, AC10-44UB, AC10-29UA, AC10-22UC Solenoid Coils

### Equipment Ratings:

Explosionproof for Class I, Division 1, Groups A, B, C and D; Dust-ignitionproof for Class II,III, Division 1, Groups E, F and G; and Class I, Zone 1, AEx mb IIC T4 Gb, Zone 21 AEx mb IIIC T130°C Db, hazardous (classified) locations, with an ambient temperature rating of -40°C to +50°C

### Markings:

CI I, ZN 1, AEx mb IIC T4 Gb  
ZN 21, AEx mb IIIC T130°C Db  
CI I, Div 1, Gr A, B, C, D T4  
CI II,III, Div 1, Gr E, F, G, T4  
Ta = -40°C to +50°C  
Factory Sealed

### Description of Equipment:

#### Model Code -

#### **AC10-40UA a b Solenoid Coils**

a = Supply voltage: 12 VDC  
b = Coil Frequency (Hz): DC

#### **AC10-34UC a b Solenoid Coils**

a = Supply voltage: 24 VDC  
b = Coil Frequency (Hz): DC

#### **AC10-19UB a b Solenoid Coils**

a = Supply voltage: 110 VDC  
b = Coil Frequency (Hz): DC

#### **AC10-44UB a b Solenoid Coils**

a = Supply voltage: 24 VAC  
b = Coil Frequency (Hz): 60

#### **AC10-29UA a b Solenoid Coils**

a = Supply voltage: 120 VAC

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b = Coil Frequency (Hz): 60

### **AC10-22UC a b Solenoid Coils**

a = Supply voltage: 240 VAC

b = Coil Frequency (Hz): 60

### **Specific Conditions of Use:**

1. Refer to the manufacturer's instructions to reduce the potential of an electrostatic charging hazard on the equipment enclosure.
2. Solenoid leads must be terminated in a suitable junction box.



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