



# 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](http://www.iecex.com)

Certificate No.: IECEx TSA 08.0006X

Issue No: 1

Certificate history:

Status: **Current**

Issue No. 1 (2017-05-11)

Issue No. 0 (2008-07-31)

Date of Issue: **2017-05-11**

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Applicant: **Austdac Pty Ltd**  
Unit 1, 42 Carrington Road  
Castle Hill NSW 2154  
**Australia**

Equipment: **Solenoid Magnetic Coil type AC10-Z3-6-PD94**  
Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking:  
Austdac  
Solenoid Magnetic Coil type AC10-Z3-6-PD94  
Ex ia I IP54  
IECEX TSA 08.0006X  
S/N: \_\_\_\_\_

Approved for issue on behalf of the IECEx  
Certification Body:

Debbie Wouters

Position:

Acting Quality & Certification Manager

Signature:  
(for printed version)

Date:

11 MAY 2017

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:

**TestSafe Australia**  
919 Londonderry Road  
Londonderry NSW 2753  
Australia





# IECEX Certificate of Conformity

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Manufacturer: **Burkert Werke GmbH & Co.**  
Christian-Burkert-Strasse 13-17  
D-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 : 2004** Electrical apparatus for explosive gas atmospheres - Part 0: General requirements  
Edition:4.0  
**IEC 60079-11 : 2006** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "I"  
Edition:5

*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:

AU/TSA/EXTR08.0010/00

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 Magnetic Coil Type AC10-Z3-6-PD94 is used to operate valves that control flammable liquids or gaseous fluids. Three diodes connected in parallel with the coil provide protection from unsafe fly-back voltage at interruption of the supply. The solenoid is powered from an intrinsically safe source through a plug and socket connection. The type designation of the coil is coded as follows:

"AC10" is the solenoid coil type.

"Z3 " is the type of interface between the coil and armature.

"6" is the coil size (50 mm length, by 40 mm width by 41 mm height).

"PD94" is the variation code; PD94 is the code for coil size 6 and diodes in the coil.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

Please refer to the Annexe of the certificate.



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

Issue 1:

Change of Applicant address from  
"1 / 4 Packard Avenue, Castle Hill, NSW 2154, Australia"  
To  
"Unit 1, 42 Carrington Road, Castle Hill, NSW 2154, Australia"



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**Additional Information:**

**Annex:**

[Annexe\\_IECEX TSA 08.0006X-1.pdf](#)



# IECEX Certificate of Conformity Annexe

|                             |                    |            |   |
|-----------------------------|--------------------|------------|---|
| Annexe for Certificate No.: | IECEX TSA 08.0006X | Issue No.: | 1 |
|-----------------------------|--------------------|------------|---|

## Drawing list pertaining to Issue 0 of this Certificate:

| Drawing/Document Number: | Page/s: | Title:  | Revision Level: | Date: (yyyy-mm-dd) |
|--------------------------|---------|---|-----------------|--------------------|
| 90-156-13                | 1       | Solenoid Magnetic Coil Type AC10-Z3-6-6PD94 Label Details | 02              | 2008/02/05         |
| AC10-253 85S             | 2       | Parts List For Drawing                                    | -               | 1995/12/06         |
| G1 649 898               | 1       | Spule mit Jochpaket ( <i>Coil Components</i> ) 40 mm      | 01              | 2000/03/15         |
| F1 644 051               | 1       | Circuit Diagram, Schaltbild                               | A               | 1998/06/22         |
| Z1 253 85S               | 1       | Magnetspule Magnet Coil                                   | -               | 1995/12/05         |

## Conditions of Certification pertaining to Issue 0 of this Certificate:

1. It is a condition of safe use that the following parameters shall be taken into account during installation:

|                                    |           |
|------------------------------------|-----------|
| Maximum Input Voltage $U_i$        | 23.1 V    |
| Maximum Input Current $I_i$        | 625 mA    |
| Maximum Input Power $P_i$          | 3.6 W     |
| Maximum Internal Capacitance $C_i$ | 0 $\mu$ F |
| Maximum Internal Inductance $L_i$  | 0 mH      |

## Variation permitted by Issue 1:

- Change of Applicant address from  
"1 / 4 Packard Avenue, Castle Hill, NSW 2154, Australia"  
To  
"Unit 1, 42 Carrington Road, Castle Hill, NSW 2154, Australia"

## Conditions of Certification pertaining to Issue 1 of this Certificate:

No changes. The previous conditions still apply.

Certificate issued by:

|   |   |
|---|---|
|  | <b>TestSafe Australia</b><br>919 Londonderry Road<br>Londonderry NSW 2753 Australia |
|---|---|