

1 **EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

3 EU - Type Examination Certificate Number: **Baseefa16ATEX0173X**

4 Product: **Model X70101 and Model X70202 Electrical Feed-Throughs**

5 Manufacturer: **ACD LLC**

6 Address: **2321 5 Pullman Street, Santa Ana, CA, 92705, United States of America**

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 SGS Baseefa, Notified Body number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR16.0343/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0: 2012: A11: 2013 EN 60079-1: 2014

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following :

⊕ II 2G Ex db IIB T4 Gb (T_{amb} -40°C to +65°C)

SGS Baseefa Customer Reference No. **7573**

Project File No. **16/0283**

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R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

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Schedule

14

Certificate Number Baseefa16ATEX0173X

15 Description of Product

The electrical feed-through are cylindrical enclosures, with square flanged ends, manufactured in stainless steel with 4 conductors passing through glass/metal seals at each end.

The central chamber may have up to 2 off 1/8"-27 NPT threaded entries, to facilitate the mounting of separately certified leakage/pressure monitoring devices.

The units are produced in two sizes:-

1. The Model X70101. Rated up to 90A.
2. The Model X70202. Rated up to 250A.

16 Report Number

SGS Baseefa Confidential Report No. GB/BAS/ExTR16.0343/00

17 Specific Conditions of Use

1. The connections to the conductor pins at each end of the feed-through shall be either located in a non-hazardous area/zone, or be protected from ignition hazards by other means (separately certified).
2. The T4 Temperature Classification applies to the enclosure and internal surfaces only.
An increased Temperature Classification of T3 (or greater) may be applicable where the electrical contacts can have access to external gas atmospheres (i.e. if the associated electrical contact pins at each end connector utilise other specific protection concepts [Ex e etc])
3. The connection flanges at each end of the conductor feedthroughs unit are not flameproof joints (Ex d) i.e. the joints do not meet the minimum flamepath length requirements of IEC 60079-1.
4. The integral marked earth/ground conductor is electrically insulated from the stainless steel enclosure body.
5. There is no dedicated external earth bonding connection on the cable feed through. External earth bonding may be achieved by means of the connection flange fixings. Any such external earth bonding connection shall include lock washers etc to avoid loosening by pulling/twisting.
6. Up to two entry ports threaded 1/8"-27 NPT may be provided for the fitting of suitably certified flameproof pressure/leakage monitoring devices. Any such interface device shall maintain the flameproof integrity of the enclosure (i.e. meet the minimum flamepath requirements with the mating thread, not significantly increase the enclosure volume and have a withstand/sealing pressure greater than 30bar without leakage). Any unused entry holes are to be sealed with suitably certified flameproof stopping plugs.
7. The 250A rated units are intended for use with three phase loads (i.e. <150A/phase)
8. Eight M10 threaded holes are provided for mounting the bushings via the provided flanges. The mounting fasteners shall be provided in resilient metals (e.g. stainless steel), and be capable of being self-supporting whilst withstanding a 7J impact.
9. These conductor feedthroughs are considered to be closed units. Repairs to the enclosure are not permitted. Repairs to damaged/defective units shall only be performed by the original manufacturer.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject	Remarks
1.2.8	Overloading of equipment (protection relays, etc.)	Covered by installation rules and manufacturer's Instructions

Clause	Subject	Remarks
1.4.1	External effects	The Purchaser should make the manufacturer aware of such issues. Covered in Instructions
1.4.2	Aggressive substances, etc.	The Purchaser should make the manufacturer aware of such issues.

19 Drawings and Documents

Number	Issue	Date	Description
X70101 Sheets 1 & 2	H	3/21/17	Feed-Thru Assembly, 90A
X70202 Sheets 1 & 2	B	3/22/17	Feed-Thru Assembly, 250A
67243	A	10MAY17	Certification Labels, Feedthrough, ATEX
68014 Sheets 1 & 2	-	3-16-17	Feed-Thru Body, 90A
68178 Sheets 1 & 2	A	03MAY17	Feed-Thru Body, 250A
68189	-	11-12-15	Louver, Spring Socket, 250A
68231 Sheets 1 & 2	-	3-21-17	Connector, Double Ended Socket (-001 90A & -002 250A)
68755 Sheets 1 & 2	-	3-16-17	Assembly, Contact Header, 90A
68756	A	4-24-17	Socket, Spring, Louver , 90A
68840 Sheets 1 & 2	-	3-22-17	Assembly, Contact Header, 250A

These drawings are common to IECEx BAS 16.0125X and Baseefa16ATEX0173X and are held with the former

1 **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

3 Supplementary EU - Type Examination Certificate Number: **Baseefa16ATEX0173X/1**

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016

4 Product: **Model X70101 and Model X70202 Electrical Feed-Throughs**

5 Manufacturer: **ACD LLC**

6 Address: **2321 5 Pullman Street, Santa Ana, CA, 92705, United States of America**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa16ATEX0173X** to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 SGS Baseefa, Notified Body number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

SGS Baseefa Customer Reference No. 7573

Project File No. 17/0807

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SGS Baseefa Limited

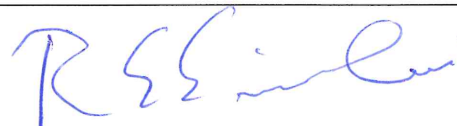
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TECHNICAL MANAGER
On behalf of SGS Baseefa Limited

13

Schedule

14

Certificate Number Baseefa16ATEX0173X/1

15 Description of the variation to the Product

Variation 1.1

To allow for dimensional and minor drawing changes to certified drawing.

Variation 1.2

To allow for a design change of the body, to accommodate a Metric M16 ATEX Ex d equipment certified stopping plug

Variation 1.3

To allow for the X70101 and X70202 to be manufactured from stainless steel 304L as an optional material of manufacture

This change in design affects the product description which will now read:

The electrical feed-through are cylindrical enclosures, with square flanged ends, manufactured in stainless steel with 4 conductors passing through glass/metal seals at each end.

The central chamber may have up to 2 off M16 threaded entries, to facilitate the mounting of separately certified leakage/pressure monitoring devices.

The units are produced in two sizes:-

The Model X70101. Rated up to 90A.

The Model X70202. Rated up to 250A.

16 Report Number

Baseefa report No GB/BAS/ExTR17.0361/00

17 Specific Conditions of Use

Specific Condition of Use Number 6 has now changed, and has been amended as below:

6. Up to two threaded M16 entries may be provided for the fitting of suitably certified flameproof pressure/leakage monitoring devices. Any such interface device shall maintain the flameproof integrity of the enclosure (i.e. meet the minimum flamepath requirements with the mating thread, not significantly increase the enclosure volume and have a withstand/sealing pressure greater than 30bar without leakage). Any unused entry holes are to be sealed with suitable. Ex d ATEX equipment certified stopping plugs.

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
X70101	Sheets 1-2	N	2-19-19	Electrical Feed-Thru Assembly, 90A PG100
X70202	Sheets 1-2	E	2-18-19	Electrical Feed-Thru Assembly, 250A (SS316L)
68014	Sheets 1-2	G	3-28-19	Feed-Thru Body, SS316L 90A
68178	Sheets 1-2	E	2-1-19	Feed-Thru Body, SS316L 250A
68189	Sheet 1	A	08/09/18	Louver spring socket.
68231	Sheets 1-2	D	1-14-19	Connector, Double Ended Socket



Number	Sheet	Issue	Date	Description
68755	Sheets 1 & 2	A	11-7-17	Assembly, Contact Header, Feedthrough 90A PG100
68756	Sheet 1	B	02-19-19	Socket, Spring, Louver .225 DIA

These drawings are common to, and held with, IECEx BAS 16.0125X