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 SIR 09.0099U**

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Status: **Current**

Issue No: 8

Date of Issue: 2020-12-09

Applicant: **Hoffman Enclosures Inc.**
2100 Hoffman Way
Anoka
Minnesota
55303
United States of America

Certificate history:

Issue 7 (2019-06-04)
Issue 6 (2015-08-17)
Issue 5 (2014-10-10)
Issue 4 (2012-05-03)
Issue 3 (2012-04-11)
Issue 2 (2012-03-06)
Issue 1 (2011-04-06)
Issue 0 (2010-02-25)

Ex Component: Type ATEX ABC SS61/SPL and EXE ABC SS6/SPL Range of Enclosures

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: **Increased Safety eb and Dust tb**

Marking: Ex eb IIC Gb
Ex tb III C Db

Approved for issue on behalf of the IECEx Certification Body: **N Jones**

Position: **Certification Manager**

Signature: (for printed version)

Date:

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:

SIRA Certification Service
CSA Group
Unit 6, Hawarden Industrial Park
Hawarden, Deeside, CH5 3US
United Kingdom

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Manufacturer: **Hoffman Enclosures Inc.**
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Anoka
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Additional manufacturing locations: These products may be manufactured at any Hoffman Enclosures Facility that has been audited for the manufacture of the type of protection defined on this certificate; in addition, the site must also be listed on Quality Assessment Report GB/SIR/QAR09.0018/00 or its subsequent Issues.

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 Reports:

GB/SIR/ExTR10.0034/01
GB/SIR/ExTR12.0045/00
GB/SIR/ExTR12.0096/00
GB/SIR/ExTR14.0242/00
GB/SIR/ExTR15.0221/00
GB/SIR/ExTR19.0158/00
GB/SIR/ExTR20.0219/00

Quality Assessment Report:

GB/SIR/QAR09.0018/13

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

The Type ATEX ABC SS61/SPL and EXE ABC SS6/SPL range of component enclosures are manufactured in painted mild steel, stainless steel or aluminium, which may optionally also be painted. The enclosures consist of a main body, a hinged lid with a latching mechanism, four wall mounting brackets and also up to four gland plates may be provided in the walls of the enclosure. The enclosures provide an ingress protection rating of IP 66.
All enclosures have an internal and external earth facility and the gaskets utilized between the hinged lid and main body are manufactured from silicone.
The enclosures may be manufactured in sizes between 260 x 260 x 125 mm to 1525 x 920 x 460 mm.
Refer to EQUIPMENT (continued) for Schedule of limitations and Conditions of Manufacture.

SCHEDULE OF LIMITATIONS:

1. The range of enclosures shall only be used in a service temperature range dependant on which gasket is fitted, as follows:

Gasket material fitted	Service Temperature range
Bisco HT-800 Silicone	-55°C to +180°C
U1E21 Polyurethane	-40°C to +70°C

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
This issue, Issue 8, recognises the following changes; refer to the certificate annex to view a comprehensive history:

1. Change width dimension of the hinge cover description on page 5 of 8 drawing 87923753 from “B” width dimension of 927mm to 1000mm.
2. Increase in enclosure material thickness to accommodate increased width dimension.
3. Addition of material thickness table to correlate the relationship between enclosure dimensions to material thickness.
4. Change of the notified body number from ‘0518’ to ‘2813’ on the label drawing to reflect the updated ATEX QAN.
5. Removal of CE marking from the component marking label.

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Additional information:
Conditions of Manufacture
The Manufacturer shall comply with the following:
1. The hinged cover enclosures may be manufactured in sizes between 100 x 100 x 76 mm to 2289 x 927 x 916 mm and the screw cover enclosures may be manufactured in sizes between 102 x 102 x 76 mm and 489 x 3048 x 458 mm. All sizes within this range shall comply with all other dimensional requirements on the Certification drawings.

Annex:

IECEx SIR 09.0099U Issue 8 Annexe.pdf

Issue 0 & 1

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
87923753	1 to 4	I	04 Feb 10	Empty enclosure ATEX/IECEx

Issue 2 & 3

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
87923753	1 to 4	M	21 Feb 12	Empty enclosure ATEX/IECEx

Issue 4

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
87923753	1 to 4	N	19 Apr 12	Empty enclosure ATEX/IECEx

Issue 5

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
87923753	1 to 8	O	16 Sep 14	Empty enclosure ATEX/IECEx

Issue 6

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
87923753	1 to 8	P	22 Jul 15	Empty Enclosure ATEX/IECEx schedule drawing

Issue 7

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
87923753	1 to 8	S	10 June 2019	Empty Enclosure ATEX/IECEx schedule drawing

Issue 8

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
87923753	1 to 8	U	20 Nov 20	Empty Enclosure ATEX / IECEx Schedule Drawing

FULL CERTIFICATE CHANGE HISTORY

Issue 1 – this Issue introduced the following change:

1. Re-issued to allow GB/SIR/ExTR10.0034/01 to replace GB/SIR/ExTR10.0034/00

Issue 2 – this Issue introduced the following changes:

1. The introduction of a new alternative gasket material; U1E21 Polyurethane gasket. Hence the introduction of new service temperature range of -40°C to +70°C.
2. The increase in service temperature range for the existing Bisco HT-800 silicone gasket from -20°C to +60°C to -55°C to +180°C was approved.
3. The introduction of smaller sized enclosures to the range, when using screw fasteners only; having sizes between 102 x 102 x 76 mm and 254 x 254 x 127mm was endorsed.
4. The Special Point for Noting and Condition of Manufacture were amended to reflect these changes.

Issue 3 – this Issue introduced the following change:

1. The correction of Typographical errors.

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Issue 4 – this Issue introduced the following changes:

1. An increase in the maximum height, width and depth dimensions; height (260-2289mm), width (260-927mm for single door or per door for multi-door option) and depth (125-916mm) was approved.
2. The option to use multiple doors on the enclosures was endorsed.
3. The addition of optional floor stands was acknowledged.
4. Following appropriate re-assessment to demonstrate compliance with the requirements of later standards, the documents previously listed, IEC 61241-0:2004 Ed 1 and IEC 61241-1:2004 Ed 1, were replaced by IEC 60079-31:2008 Ed 1.

Issue 5 – this Issue introduced the following changes:

1. Drawing 87923753 was amended to reflect the following modifications:
   - The introduction to the range of smaller sized, hinged enclosures. The Condition of Manufacture was amended to recognise that the smallest enclosure is now 100 x 100 x 76 mm and not 260 x 260 x 125 mm.
   - The introduction to the range of larger sized, screw enclosures. The Condition of Manufacture was amended to recognise that the largest enclosure is now 489 x 3048 x 458 mm and not 254 x 254 x 127 mm.
   - The quantity of gland plates was removed as more than four may now be utilised.
   - Multiple door locations have been added, these include doors to the rear of the enclosures in addition to the front.
   - The latch spacing details were improved.
2. The drawings detailed in the Annexe were clarified, because this is administrative, it is not mentioned in the ExTR.

Issue 6 – this Issue introduced the following changes:

1. Following appropriate re-assessment, IEC 60079-0:2007 Ed 5 and IEC 60079-31:2008 Ed 1 were replaced by IEC 60079-0:2011 Ed 6 and IEC 60079-31:2013 Ed 2, as a result the markings were modified.
2. The introduction of an increase in the maximum depth of the sheet metal enclosure from 916 mm to 1000 mm.

Issue 7 – this Issue introduced the following change:

1. Following appropriate re-assessment, IEC 60079-0:2011 Ed 6 and IEC 60079-7:2006-07 Ed 4 were replaced by IEC 60079-0:2017 Ed 7 and IEC 60079-7:2017 Ed 5.1 respectively. Standard IEC 60079-31:2013, Edition 2 is not affected. As a result of the assessment the product marking is changed.

Issue 8 – this Issue introduced the following changes:

1. Change width dimension of the hinge cover description on page 5 of 8 drawing 87923753 from "B" width dimension of 927mm to 1000mm.
2. Increase in enclosure material thickness to accommodate increased width dimension.
3. Addition of material thickness table to correlate the relationship between enclosure dimensions to material thickness.
4. Change of the notified body number from '0518' to '2813' on the label drawing to reflect the updated ATEX QAN.
5. Removal of CE marking from the component marking label.

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