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

Certificate No.: **IECEx UL 09.0021X**

Page 1 of 4

Status: **Current**

Issue No: 5

Certificate history:
Issue 4 (2018-01-08)
Issue 3 (2013-10-12)
Issue 2 (2013-03-11)
Issue 1 (2013-01-31)
Issue 0 (2009-08-06)

Date of Issue: 2021-11-04

Applicant: **Adalet/Scott Fetzer Company**
4801 W. 150th Street
Cleveland, OH 44135
United States of America

Equipment: **High Voltage Junction Box**

Optional accessory:

Type of Protection: **Dust Ignition Protection by Enclosure "tb" and Increased Safety "e"**

Marking: Ex e II T5 Gb

Ex tb IIIC T90°C Db IP66

-50°C to +55°C

Approved for issue on behalf of the IECEx Certification Body: **Katy A. Holdredge**

Position: **Senior Staff Engineer**

Signature: (for printed version)

Date: 2021-11-04

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:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America

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Certificate No.: **IECEx UL 09.0021X**

Date of issue: 2021-11-04

Issue No: 5

Manufacturer: **Adalet/Scott Fetzer Company**
4801 W. 150th Street
Cleveland, OH 44135
United States of America

Additional manufacturing locations: **Adalet/Scott Fetzer Co.**
201 Cunard Street
Cardington, OH 43315
United States of America

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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

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

IEC 60079-7:2006-07 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:4

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:

US/UL/ExTR09.0024/00
US/UL/ExTR09.0024/01
US/UL/ExTR09.0024/02
US/UL/ExTR09.0024/03
US/UL/ExTR09.0024/04

Quality Assessment Reports:

US/UL/QAR08.0003/10
US/UL/QAR16.0016/04

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The Type HV Series of stainless steel enclosures are for high power use. These enclosures are manufactured of powder coated cold rolled steel, brushed finish stainless steel 304 and brushed finish steel 316L respectively and are available in various sizes and depths. The boxes consist of a cover, hinge assembly, body, grounding lug, gland plates, gaskets and two types of porcelain stand-offs used for terminal connections. The porcelain stand-offs may be provided with a 1x1 terminal construction or a 2x2 terminal construction. The enclosures may be mounted in a vertical or horizontal position and can be fitted with up to eight gland plates.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- These enclosures shall be installed to flat rigid surface using the mounting means provided.
- All unused device openings must be fitted with a certified close up plug equivalent of the apparatus and must be marked with an IP66 rating.
- This approval applies to equipment without cable/conduit entries. When installing cable or conduit entries, the cable/conduit fitting must be certified as flameproof "d" or increased safety "e", dust protection type "tb" and have a minimum IP66 rating equal to the marking on the enclosure.
- Conductors shall be chosen that have a rating above the anticipated maximum ambient temperature. The operating temperature of conductors should be controlled at or below the conductor rating by coordinating conductor size, number of associated conductors, and ampacity for the particular conductor rating and ambient temperature.
- After installation, all creepage distances and clearances shall be according to Table 1 in IEC 60079-7, 4th Edition.
- To minimize the risk of electrostatic charge, provisions shall be made for adequate grounding and equipment shall be installed in such a manner so that accidental discharge shall not occur.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Issue 1: Added alternate terminal construction for the HV Series of enclosures.

Issue 2: Correction to max rating. and type of protection, "tD" to "tb".

Issue 3: Change in temperature code and maximum voltage.

Issue 4: Updated IEC 60079-31 to the 2nd edition and minor drawing revisions.

Issue 5: Adds Manufacturer Adalet/Scott Fetzer Co., Cardington, OH (US/UL/QAR16.0016/04). No ExTR revision for this update.

Annex:

Annex to IECEx UL 09.0021X Issue 5.pdf

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TYPE DESIGNATION

Nomenclature for Type HV:

HV4	-241206	06	-A
I	II	III	IV

I – Enclosure Material

HV4 – Powder Coated Cold Rolled/Hot Rolled Steel
HV4X – Brushed Finish Stainless Steel 304
HV4X6 – Brushed Finish Stainless Steel 316L

II – Enclosure Sizes

Size (L x W) Dimensions in mm

-1616	406 x 406
-2012	508 x 305
-2014	508 x 356
-2016	508 x 406
-2020	508 x 508
-2412	610 x 305
-2416	610 x 406
-2420	610 x 508
-2424	610 x 610
-2518	635 x 457
-3016	762 x 406
-3020	762 x 508
-3022	762 x 559
-3024	762 x 610
-3624	914 x 610
-3625	914 x 635
-6036	1524 x 914

III – Enclosure Depth

XX – Maximum 406 mm

IV – Gland Plate Location(s)*

A – Gland plate on topside
B – Gland plate on bottom side
C – Gland plate on left side
D – Gland plate on right side

*Omit dashes when multiple gland plates are installed

PARAMETERS RELATING TO THE SAFETY

11 kV, 500 A maximum; 1.1 kV, 1000 A maximum

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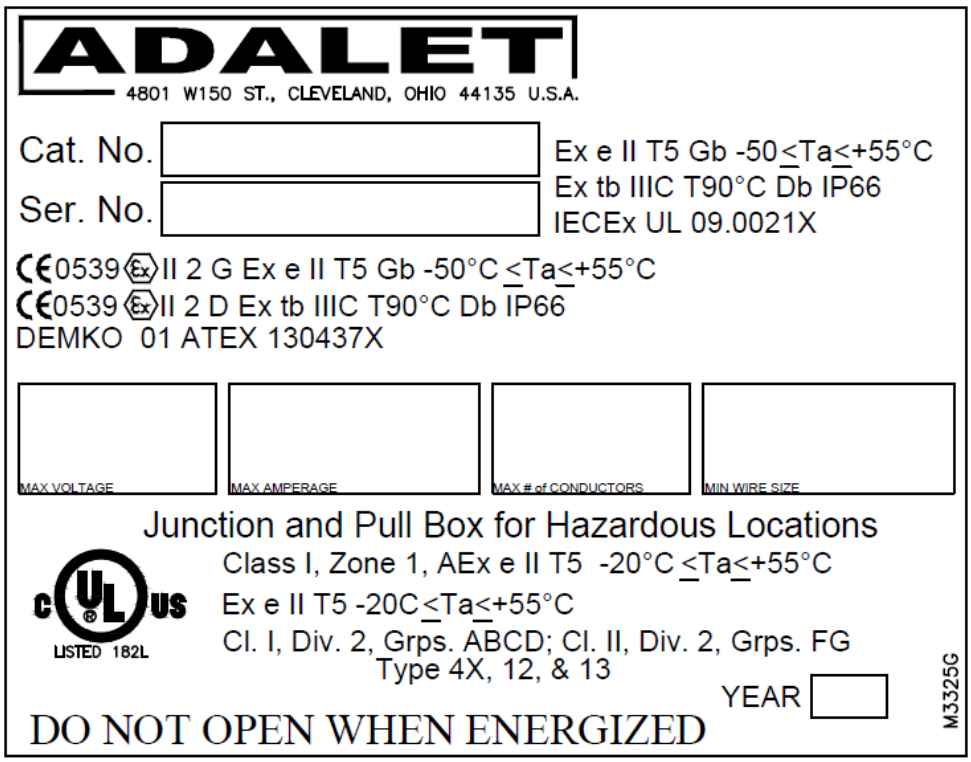
MARKING



ROUTINE EXAMINATIONS AND TESTS

Routine Dielectric Tests are required per Clause 7 of IEC 60079-7, Fourth Edition.