



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

Certificate No.: **IECEX UL 09.0031X** issue No.:7

Status: **Current**

Date of Issue: **2014-04-18** Page 1 of 4

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

Certificate history:

- Issue No. 7 (2014-4-18)
- Issue No. 6 (2013-7-15)
- Issue No. 5 (2013-1-18)
- Issue No. 4 (2012-3-10)
- Issue No. 3 (2012-2-28)
- Issue No. 2 (2011-7-22)
- Issue No. 1 (2010-9-4)
- Issue No. 0 (2009-12-30)

Electrical Apparatus: **High Voltage Terminal Enclosure**
Optional accessory:

Type of Protection: **Flameproof "d", Protection by Enclosure "tD"**

Marking: **Ex d IIB T6 Gb, Ex tb IIIC T73°C Db IP66**

Approved for issue on behalf of the IECEx Certification Body: Paul T. Kelly

Position: Principal Engineer, Global Hazardous Locations

Signature:
(for printed version)

Date: 2014-04-18

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:

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





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

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

IEC 60079-1 : 2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition: 6

IEC 60079-31 : 2008 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
Edition: 1

*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:
[US/UL/ExTR13.0027/00](#)

[US/UL/ExTR13.0027/01](#)

Quality Assessment Report:

[US/UL/QAR08.0003/05](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The XHVX Series of terminal enclosures contain porcelain stand-offs used for terminal connections within the enclosures. The enclosures contain up to either six single lug connectors or three 4 lug connectors. Enclosures provided with a cover gasket (Model No. suffix N4) can be marked IP66 and are suitable for dust environments.

See Annex for more details.

CONDITIONS OF CERTIFICATION: YES as shown below:

- Enclosures shall be installed to a flat rigid surface using the mounting means provided.
- When the enclosure is installed, a minimum of 30 mm separation between the flameproof flanged joint and any solid object, which is not part of the enclosure, shall be maintained.
- For conduit/cable layout information, refer to drawing DS590M/DS591M.
- All unused openings must be fitted with IECEx certified flameproof "d" and "tb" blanking elements and have a minimum gas and IP marking equal to the marking on the enclosure.
- The enclosure certification applies to equipment without cable glands. When installing cable glands, they must be certified as flameproof and have a minimum gas, dust and IP marking equal to the marking on the enclosure.
- The end user shall provide the bonding means as necessary.
- The flanged joint has the following joint parameters: Width: 19mm, Gap: 0.08mm.
- The approval applies to equipment without cable/conduit fittings. When installing cable/conduit fittings, the cable/conduit fitting must be certified as Flameproof "d" and "tb" and have a minimum IP rating equal to the marking on the enclosure.
- Type "Bd" breather/drains are only suitable for bottom entry.
- The threads of the internal plug of the Type "Bd" Breather Drains must be fully tightened within the main body and not protrude above the body surface.
- The threaded spigots of Type "Bd" Breather Drains and taper threaded Type "Be" Breather Drains are not permitted to protrude into the associated enclosure to maintain their ingress protection ratings.



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

Issue 1: Addition of model numbers.

Issue 2: Conductor size on Model XHVX 181808 is being decreased. Conductor size is being changed on Models XHVX 161608, 181808, 183008, 183608, 243008, 243608, 162410, 164610 and 183610.

Issue 3: Updated the XHVX series of high voltage enclosures to IEC 60079-0 Fifth Edition. Also, added a 2 x 2 terminal construction to the enclosures.

Issue 4: Reference to routine testing for Model 121208.

Issue 5: Revisions were made to the ExTR's to clarify certain clauses.

Issue 6: Updating to the latest IEC 60079-0 Ed. 6 and IEC 60079-31 Ed. 1.

Issue 7: Nomenclature and drawing updates.

Annex to IECEx UL 09.0031X

1X1 PHASE CONNECTION SERIES (Shielded or Un-Shielded Cable)

| ENCLOSURE CATALOG NUMBER | MAX WORKING VOLTAGE | MAX CURRENT per phase(A) | ENCLOSURE CATALOG NUMBER | MAX WORKING VOLTAGE | MAX CURRENT per phase(A) |
|---------------------------------|----------------------------|---------------------------------|---------------------------------|----------------------------|---------------------------------|
| XHVX-121208(-N4) | 2.5kV | 160 | XHVX-243008(-N4) | 6.6kV | 315 |
| XHVX-161608(-N4) | 6.6kV | 200 | XHVX-243608(-N4) | 6.6kV | 315 |
| XHVX-162408(-N4) | 6.6kV | 315 | XHVX-162410(-N4) | 6.6kV | 315 |
| XHVX-181808(-N4) | 6.6kV | 225 | XHVX-164610(-N4) | 6.6kV | 315 |
| XHVX-182408(-N4) | 6.6kV | 315 | XHVX-182410(-N4) | 6.6kV | 315 |
| XHVX-183008(-N4) | 6.6kV | 315 | XHVX-183610(-N4) | 6.6kV | 315 |
| XHVX-183608(-N4) | 6.6kV | 315 | XHVX-242410(-N4) | 8kV | 315 |
| XHVX-242408(-N4) | 6.6kV | 315 | XHVX-243610(-N4) | 8kV | 400 |

2X2 PHASE CONNECTION SERIES (Two Parallel Cables Optional)

| ENCLOSURE CATALOG NUMBER | MAX WORKING VOLTAGE | MAX CURRENT per phase(A) | ENCLOSURE CATALOG NUMBER | MAX WORKING VOLTAGE | MAX CURRENT per phase(A) |
|---------------------------------|----------------------------|---------------------------------|---------------------------------|----------------------------|---------------------------------|
| XHVX-182408(-N4) | 2.5kV | 630 | XHVX-182410(-N4) | 2.5kV | 630 |
| XHVX-183008(-N4) | 2.5kV | 800 | XHVX-183610(-N4) | 2.5kV | 800 |
| XHVX-183608(-N4) | 2.5kV | 800 | XHVX-242410(-N4) | 7.5kV | 630 |
| XHVX-242408(-N4) | 5kV | 630 | XHVX-243610(-N4) | 7.5kV | 1000 |
| XHVX-243008(-N4) | 5kV | 800 | | | |
| XHVX-243608(-N4) | 5kV | 800 | | | |