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UNITED KINGDOM CONFORMITY ASSESSMENT
UK-TYPE EXAMINATION CERTIFICATE

[2]

**Product or Protective System Intended for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1**

[3] UK-Type Examination Certificate No.: **UL21UKEX2250X Rev. 0**
[4] Product: **Over-Voltage Protector (OVP)**
[5] Manufacturer: **Dairyland Electrical Industries Inc.**
[6] Address: **340 Business Park Circle, PO Box 187, Stoughton, WI 53589 USA**

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

[8] UL International (UK) Ltd, Approved Body number 0843, in accordance with Regulation 44 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696), 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 Schedule 1 of the Regulations. The examination and test results are recorded in the confidential report **UKRCC-4790055714.4**

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

EN IEC 60079-0:2018 EN 60079-1:2014

Except in respect of those requirements listed at section 19 of the schedule to this certificate.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to specific conditions of use specified in the schedule to this certificate.

[11] This UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations 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 2 G Ex db IIB+H2 T5 Gb**

Certification Manager
David Lloyd

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the Ex UK Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Regulations. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2021-11-25

Approved Body UL International (UK) Ltd Unit 1-3 Horizon Kingsland Business Park Wade Road, Basingstoke RG24 8AH, UK
Phone : +44 (0)1256 312100



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[14]

Schedule

UK-TYPE EXAMINATION CERTIFICATE No.

UL21UKEX2250X Rev. 0

[15]

Description of Product

The Over-Voltage Protector (OVP) is a solid-state device designed for use in conjunction with cathodically protected systems to provide over-voltage protection of insulated joints from lightning and AC faults and to provide AC grounding and simultaneous DC isolation of cathodically protected electrical equipment. It consists of an enclosure with a threaded cover and a feed thru assembly, both of which form threaded joints. The feed thru assembly consists of a feed thru stud and feed thru insulating sleeve that are press fit into the feed thru shell engaging the enclosure to form a cylindrical joint. This feed thru provides the connection between the internal assembly and the external device.

Nomenclature:

<u>OVP</u>	-	<u>2/2</u>	-	<u>3.7</u>	-	<u>100</u>
I		II		III		IV

I – OVP – Basic Catalog Number

II – Blocking Threshold

2/1	-	-2/+1V rating
2/2	-	-2/+2 V rating
3/1	-	-3/+1 V rating
3/3	-	-3/+3V rating
4/1	-	-4/+1 V rating
4/2	-	-4/+2V rating
4/4	-	-4/+4 V rating

III - AC Fault Current

3.7	-	3.7kA rating
5.0	-	5.0kA rating

IV – Impulse Current

100	-	100kA rating, 8x20µs waveform
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Temperature range

The ambient temperature range is -45 °C to +85 °C.

Electrical data

Blocking Threshold: -2/+1V, -2/+2 V, -3/+1V, -3/+3V, -4/+1 V, -4/+2V, -4/+4 V

AC Fault Current: 3.7 kA, 5.0 kA

Impulse Current: 100 kA, 8x20µs waveform

Routine tests

Routine tests according to EN 60079-1 cl. 16 are not required, as the enclosures have been successfully tested at four times the reference pressure.

[16]

Test Report No. (associated with this certificate issue)

US/UL/ExTR14.0045/04

[17]

Specific conditions of use:

Contact Dairyland Electrical Industries for information on the dimensions of the flameproof joints.

[18]

Conditions of certification:

None

[19]

Essential Health and Safety Requirements (Regulations Schedule 1)

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the relevant reports.



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[14]

Schedule
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UL21UKEX2250X Rev. 0

The manufacturer shall inform the approved body concerning all modifications to the technical documentation as described in Annex III to UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1.

[20] Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
OVP ATEX/IECEX CERTIFIED DRAWING (7 Sheets)	100023	E	2021/02/23
OVP UKCA CERTIFIED DRAWING (2 Sheets)	100023-UK	A	2021/10/29

