

TYPE EXAMINATION CERTIFICATE



Component intended for use on/in an Equipment or Protective System Potentially Explosive Atmospheres Directive 2014/34/EU

Type Examination Certificate Number: **UL 24 ATEX 3223U Rev. 0**

Component: **EC Component Fans, Models OA172EC-UR-2WBIP68A, OA172EC-UR-1WBIP68A**

Manufacturer: **Knight Electronics Inc.**

Address: **10557 Metric Dr., Dallas, TX 75243**

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

UL International Demko A/S 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 Directive 2014/34/EU of 26 February 2014.

The examination and test results are recorded in confidential report no. **4791254395.1.1.**

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

EN IEC 60079-0:2018

EN IEC 60079-7:2015/A1:2018

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

The sign "U" placed behind the certificate number indicates that this certificate should not be confused with certificates issued for equipment or protective systems. This partial certification may be used as a basis for certification of an equipment or protective systems. "Schedule of limitations" is listed under item 17 of this certificate.

This Type Examination Certificate relates only to the technical design of the specified product and not to specific items of component subsequently manufactured.

The marking of the component shall include the following:

II 3 G Ex ec IIC Gc

Certification Manager
Thomas Wilson

This is to certify that the sample(s) of the Component described herein ("Certified Component") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the component 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 component. The Manufacturer are solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. 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: 2024-08-14

Certification Body

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Schedule
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Description of Component:

The devices are EC component fans, brushless type, service temperature range -20°C to 117.7°C under ambient temperature range of -20°C to +62°C and is intended for use in a Zone 2 Group IIC Hazardous Locations. All PCB were potted by potting compound and the devices are intended for installation into an end-user supplied enclosure that utilizes a tool-accessible door or cover.

Models OA172EC-UR-2WBIP68A and OA172EC-UR-1WBIP68A are identical except ratings and high or medium speed which driven by different software.

Compliance with Design of Fans Working in Potentially Explosive Atmospheres, EN 14986:2017, has not been verified for the component as part of this certificate.

Temperature range:

The service temperature range is -20°C to +117.7°C.

Electrical data

Model	V ac	Hz	W	A
OA172EC-UR-2WBIP68A	115-230	50/60	17	0.25
OA172EC-UR-1WBIP68A	115-230	50/60	20.5	0.3

Routine tests:

A routine dielectric strength test shall be carried out between input live parts and metal frame under test voltage 1000 V for 1 second without breakdown.

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Descriptive Documents:

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this Type Examination Certificate.

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Schedule of Limitations:

- The service temperature range is -20°C to 117.7°C on Q6 in potting compound under ambient temperature -20°C to 62°C. This temperature range must not be exceeded in the end use application.
- All connections provided are factory wiring only. The connection secureness and separation distances of input leads shall be evaluated in end-use application.
- The equipment shall be installed in an enclosure that provides a minimum ingress protection in accordance with EN IEC 60079-0, or the device must be evaluated as part of end-product evaluation.

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Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information



The trademark will be used as the company identifier on the marking label.