

[1]

TYPE EXAMINATION CERTIFICATE



[2]

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

[3]

Type Examination Certificate Number: **DEMKO 17 ATEX 1974U Rev. 2**

[4]

Component: **Energy Saving Technology (EST) Component Fan, Model AFL12AUxE, AFL12AUxE-A, AFL12AUxE-C Series**

[5]

Manufacturer:

[6]

Address:

Delta Electronics, Inc.

Delta Electronics (Netherlands) BV

**252, Shangying Road, Guishan
Industrial Zone, TAOYUAN
COUNTY 33341, TAIWAN, R.O.C.**

**Zandsteen 15, 2132 MZ Hoofddorp,
The Netherlands**

[7]

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

[8]

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. **US/UL/ExTR17.0139/02.**

[9]

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.

[10]

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.

[11]

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

[12]

The marking of the component shall include the following:

UL 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: 2018-04-18

Re-issued: 2024-02-16

Certification Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com

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[14]

Schedule

TYPE EXAMINATION CERTIFICATE No.

DEMKO 17 ATEX 1974U Rev. 2

[15]

Description of Component:

The devices are AC Component Fans, Model AFL12AUxE, AFL12AUxE-A and AFL12AUxE-C Series. They are open type, low power AC component fans with brushless, single-phase motor and intended for use in industrial application. All motor coil were completely encapsulated in potting compound (for AFL12AUxE, AFL12AUxE-A series only), PCB were coated by conformal coating and the devices are intended for installation into an end-user supplied enclosure that utilizes a tool-accessible door or cover.

Nomenclature:

AFL12AUxE, AFL12AUxE-A, AFL12AUxE-C

x: V, H, M, L for different rating and Rated speed.

Model AFL12AUxE is similar to model AFL12AUxE-A except for Model designation, impeller and rating.
Model AFL12AUxE-C is similar to model AFL12AUxE except for model designation and impeller.

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 ambient temperature range is -40 °C to +60 °C.

Electrical data

Models	Electrical Rating
AFL12AUVE, AFL12AUVE-C	Input: 100-240VAC, 7.0 W max.
AFL12AUHE, AFL12AUHE-C	Input: 100-240VAC, 4.6 W max.
AFL12AUME, AFL12AUME-C	Input: 100-240VAC, 3.0 W max.
AFL12AULE, AFL12AULE-C	Input: 100-240VAC, 1.7 W max.
AFL12AUVE-A	Input: 100-240VAC, 6.6 W max.
AFL12AUHE-A	Input: 100-240VAC, 4.1 W max.
AFL12AUME-A	Input: 100-240VAC, 2.7 W max.
AFL12AULE-A	Input: 100-240VAC, 1.7 W max.

Routine tests:

No routine tests necessary.

[16]

Descriptive Documents

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

[17]

Schedule of Limitations:


- The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP 54 in accordance with EN IEC 60079-0.
- The devices shall only be used in an area of not more than pollution degree 2, as defined in EN 60664-1.
- Transient protection shall be provided that is set at a level not exceeding 140% of the peak rated voltage value at the supply terminal to the devices.
- The devices are for use in -40°C to 60°C ambient temperature. During temperature test, the highest measured temperature within device was 89°C at 60°C ambient temperature.

[18]

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.