



OBAC

Ośrodek Badań, Atestacji i Certyfikacji Sp. z o.o.
44-121 Gliwice, ul. Łabędzka 21

(1) TYPE EXAMINATION CERTIFICATE (Translation)

(2) Equipment, components and protective systems intended for use in potentially explosive atmospheres.
Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014.

(3) Type examination certificate No: **OBAC 19 ATEX 0321X**

(4) Product: **Centrifugal fan type: ELF-....-... 2G...**

(5) Manufacturer: **Venture Industries Sp. z o.o.**

(6) Address: **ul. Mokra 27, 05-092 Łomianki-Kiełpin**

(7) This equipment, component or protective system and any of its approved version is specified in this certificate and in documents listed in p. 19.

(8) Ośrodek Badań Atestacji i Certyfikacji OBAC Sp. z o.o. (The Institute for Research and Certification „OBAC” Ltd) certifies that this equipment, component or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment, component or protective systems intended for use in potentially explosive atmospheres given in Annex II to the European Council Directive 2014/34/EU.

The examination and test results are recorded in the confidential report No. OBAC/19/ATEX/0321.

(9) Compliance with the Safety Requirements has been assured by conformity with:

PN-EN ISO 80079-36:2016-07
(EN ISO 80079-36:2016)

PN-EN ISO 80079-37:2016-07
(EN ISO 80079-37:2016)

PN-EN 14986:2017-02
(EN 14986:2017)

(10) If the sign „X” is placed after the certificate number, it indicates that the product concerned is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This certificate is valid from **18.12.2019** until **17.12.2024** and relates only to the design, assessment and tests of the specified equipment according to the Directive 2014/34/EU. The certificate does not apply to further requirements of the Directive relating to the manufacture and placing on the market of this equipment.

(12) The marking of the equipment, component or protective system must include the following:



II 2G

Ex h IIB T3 Gb

II 2G

Ex h IIB T4 Gb



**by proxy of Certification
Body Manager**

Zbigniew Tarnawski M. Sc.

Gliwice, 18 December 2019.



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(13)

(14)

SCHEDULE **to the Type Examination Certificate** **no. OBAC 19 ATEX 0321X**

(15) Ex Product description:

Centrifugal fans type ELF are driven directly by a motor installed to the fan structure, located outside of the pressure area, with direct cooling on the motor shaft. The device constitutes a set of mechanical and electrical components with Ex designation, as well as of additional electrical elements. Depending on the model, the revolution speed of the fan is adjusted by changing the voltage frequency.

Marking:

ELF-a-bc d, x, y, z, v, AP

whereas:

ELF – fan type

a – number of poles and gears

b – fan size (97, 108, 120, 133, 146, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450)

c – number of phases (S - single-phase, T – tri-phase)

d – device category (2G or 2D)

x – fan figure (LG..., RD...)

y – fan voltage (230V, 230/400V, 400V, 440V, 480V, 400/690V, 265/460V, 460V)

z – fan frequency (50 Hz, 60 Hz)

v – inverter control (VFD)

AP - stainless version

The fans use electric motors with a temperature class adapted to the temperature class of the fan that have the following certificates:

EPT 17 ATEX 2588 X;
OBAC 14 ATEX 0048X;
KDB 15ATEX0082X;
CESI 13 ATEX 007 X /01;
PTB 18 ATEX 3005;
PTB 18 ATEX 3008;
PTB 18 ATEX 3011;
Baseefa02ATEX0017X;
Baseefa02ATEX0023X;
Baseefa02ATEX0018X;
Baseefa02ATEX0024X;

EUM1 12 ATEX 0744;
OBAC 15 ATEX 0114X;
CESI 05 ATEX 110 X /06;
FTZU 13 ATEX 0054;
PTB 18 ATEX 3006;
PTB 18 ATEX 3009;
Baseefa02ATEX0013X;
Baseefa02ATEX0019X;
Baseefa02ATEX0014X;
Baseefa02ATEX0020X;

OBAC 14 ATEX 0047X;
OBAC 16 ATEX 0118X;
CESI 13 ATEX 008 X /01;
CNEX 17 ATEX 0004 X;
PTB 18 ATEX 3007;
PTB 18 ATEX 3010;
Baseefa02ATEX0015;
Baseefa02ATEX0021X;
Baseefa02ATEX0016X;
Baseefa02ATEX0022X;





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(13)

SCHEDULE

(14)

to the Type Examination Certificate
no. OBAC 19 ATEX 0321X

Rated data:

Rated data of fans are presented in the manufacturer's documentation, referred to in item 19.

(16) **Centrifugal fan type: ELF-.... 2G...** meet the requirements for devices with explosion proof design and may be used as a device of group II, category 2G.


(17) Special conditions for safe operation:


- The fan structure in the installation point should be grounded in order to ensure outflow of static charges.
- Electrical motors of the fan should be protected from short-circuits and overloads in accordance with the requirements of the standard PN-EN 60204-1.
- Permissible ambient temperature range of the device and of the medium on the fan intake is -20°C to +60°C or smaller, in accordance with the rating plate and temperature class of the used electrical motor.

(18) The compliance with Safety Requirements has been assured by compliance with standards shown in p.9 of this certificate.

(19) List of agreed documentation:


- Use and installation manual of centrifugal fans type ELF-...


 II 2G Ex h IIB T3 Gb

 II 2G Ex h IIB T4 Gb

Instruction no. ELF-2019-V1 prepared by Venture Industries Sp. z o.o. shall prevail from 15.11.2019.

- Project documentation, directive: 2014/34/EU. Centrifugal fans - ELF.

 II 2G Ex h IIB T3 Gb

 II 2G Ex h IIB T4 Gb

Document version: DP/ELF/2019 prepared by Venture Industries Sp. z o.o. shall prevail from 15.11.2019.

