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# EU-TYPE EXAMINATION CERTIFICATE

[2] Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

[3] EU-Type Examination Certificate Number: **Presafe 16 ATEX 8598X** **Issue 7**

[4] Product: **Radial fan**

[5] Manufacturer: **Systemair Sverige AB**

[6] Address: **Industriv 3  
SE 739 30 Skinnskatteberg  
Sweden**

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

[8] DNV Product Assurance AS, notified body number 2460, in accordance with Article 17 and Article 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 the Directive.

The examination and test results are recorded in confidential reports listed in item 16.

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

**EN IEC 60079-0:2018, EN 60079-1:2014, EN IEC 60079-7:2015/A1:2018 and EN14986:2017**

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive 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 eb h IIB+H<sub>2</sub> T4 Gb, ambient temperature see [15]**



Date of issue:  
2024-10-28



Asle Kaastad  
For DNV Product Assurance AS  
The Certificate has been digitally signed.  
See [www.dnv.com/digitalsignatures](http://www.dnv.com/digitalsignatures) for info

[13] **Schedule**

[14] **EU-Type Examination Certificate No:** Presafe 16 ATEX 8598X **Issue 7**

[15] **Description of Product**

The centrifugal fan consists of Ex certified electric cage motor and fan casing with impeller. The impeller is mounted directly on the motor shaft and protected by metallic enclosure (“fan casing”) from the mechanical damage. Fan casing is fixed to motor through the “mounting disk” by fastening screws. The el. motors are fully covered by the EPT 17 ATEX 2588 X Issue 4 certificate. Single phase motors are not speed controllable (NC) while three phase motors are provided with either voltage controller or frequency drive (controller). Motors are equipped with PTC device which shall be connected to an appropriate protection device conforming to EN 50495.

**Type designation:** EX 140 and EX 180

**Models:** EX 140A-2, EX 140-2C NC, EX 140A-4, EX 140-4C NC, EX 180A-4, EX 180-4C NC.

**Electrical Data (rating) and ambient temperature are specified in Table 1:**

Model	Phase	Supply voltage	Tamb
EX 140-2C NC	1	220-240VAC 50Hz	-20°C to +50°C
EX 140A-2	3	230VAC (Δ) 10-50Hz	-20°C to +60°C
		380-415VAC (Y) 10-50Hz	
EX 140-4C NC EX 180-4C NC	1	220-240VAC 50Hz	-20°C to +50°C
		220-240VAC 60Hz	
EX 140A-4, EX 180A-4	3	230VAC (Δ) 10-50Hz	-20°C to +50°C
		380-415VAC (Y) 10-50Hz	
		380-440VAC (Y) 10-60Hz	

**Routine tests:** N/A

[16] **Report No.:** SC238858/07  
**Project No.:** PRJN-274468-2021-PA-NOR

[17] **Specific Conditions of Use**

1. Thermal protectors (PTC) applied in the motor windings shall be connected to an appropriate protection device conforming to EN 50495.
2. When the fans are installed in a duct system the degree of protection IP 20 at the inlet and outlet side acc. to (EN 60529) shall be fulfilled for the duct system. Components which contribute to the enclosure protection must be of suitable design material and durability.
3. The supply voltage must be within the values specified in table 1 in [15]
4. Flameproof joints are not intended to be repaired.

[18] **Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.

## [19] Drawings and documents

Number	Title	Rev.	Date
11286	Fanwheel KNA-e 146x62 R	F	2021-12-16
11989	Fanwheel KNA-e 180x70 R	F	2021-12-16
135271	Motorsida borråd EX140	A	2016-11-22
135273	Motorsida borråd EX180	A	2016-11-22
135260	Slutmontering EX 140/180	1	2018-03-13
135260_2	Konstruktionsmått EX 140/180	-	2016-09-09
135260_3	Elkoppling	A	2024-10-16
	Stycklista	-	2024-07-03
PNF071Q105EXBUSK	Disk	01	2016-07-13
80014-5-9985	Scrollhousing 140	-	2016-07-21
80015-5-9985	Scrollhousing 180	-	2016-07-21
13500-21	Etikett	B	2016-06-03
473295	Typskylt EX-140-2C NC	A	2024-10-21
473296	Typskylt EX-140-4C NC	A	2024-10-21
210953	Typskylt EX-140A-2	D	2021-11-11
210954	Typskylt EX-140A-4	E	2024-07-03
473297	Typskylt EX-180-4C NC	A	2024-10-21
210956	Typskylt EX-180A-4	E	2024-07-03

## [20] Certificate History

Issue	Description	Issue date	Report no.
0	Original issue	2016-09-30	D0002591
1	Minor documentation and design changes	2017-02-21	D0002591/01
2	Update to new versions of the harmonized standard, minor design and documentation changes	2018-04-05	D0002591/02
3	Update to new versions of the harmonized standard, new models of ATEX approved el. motors.	2021-12-30	SC274468/03
4	Minor design and documentation changes	2022-04-21	SC274468/04
5	ATEX certified el. motors change with new models (with frequency controller) due to new eco-design requirements.	2024-08-30	SC274468/05
6	Correction of typing errors.	2024-10-02	SC274468/06
7	Minor documentation changes	2024-10-28	SC274468/07

END OF CERTIFICATE