


EU-Type Examination Certificate

- [2] EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 2014/34/EU
- [3] EU-Type Examination Certificate Number: Presafe 16 ATEX 8598 X Issue 0
- [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 Nemko Presafe AS, notified body number 2460, in accordance with Article 17 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 section 16.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 60079-0:2012/A11:2013, EN 60079-1:2007, EN 60079-7:2007 and EN14986-1:2007
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- [11] This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. 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 d e IIC T4 Gb, ambient temperature see [15]

Bjørn Spongsveen
For DNV Nemko Presafe AS
Information on electronic signature www.presafe.com



Date of issue: 2016-09-30

This certificate may only be reproduced in its entirety and without any change, schedule included.

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[13]

Schedule

[14] EU-TYPE EXAMINATION CERTIFICATE No.: Presafe 16 ATEX 8598 X

Issue 0

[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. This motor is covered by the EUM1 10 ATEX 0350 certificate. Motor is equipped with PTC device which shall be connected to an appropriate protection device conforming to EN 50495. The maximum surface temperature was re-tested and determined for the fan & motor assembly based on input voltage and ambient temperature according to table 1 below.

Type designation: EX 140 and EX 180

Models: EX 140A-2, EX 140A-2C, EX 140A-4, EX 140A-4C, EX 180A-4, EX 180A-4C

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

Model	Phase	Supply voltage	Tamb
EX 140A-2C	1	220-230V AC 50Hz	-20°C to +50°C
EX 140A-2	3	230V (Δ) AC 50Hz	-20°C to +50°C
		380-400V(Y) AC 50Hz	
EX 140A-4C, EX 180A-4C	1	220-240 AC 50Hz	-20°C to +60°C
		220-240V AC 60Hz	
EX 140A-4, EX 180A-4	3	230V(Δ) AC 50Hz	-20°C to +60°C
		380-415V(Y) AC 50Hz	
		440V(Y) AC 60Hz	

Routine tests

No.

[16] Report No.: D0002591

[17] Specific Conditions of Use

Thermal protectors (PTC) applied in the motor windings shall be connected to an appropriate protection device conforming to EN 50495.

Ducts or sockets on inlet and outlet has to be protected with IP20 according to EN 60529.

The fastening screws used for el. motor have to comply with quality 8.8 ISO 898-1.

The supply voltage must be within the values specified on table 1 in [15]

[18] Essential Health and Safety Requirements

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

[19] Drawings and documents

Number	Title	Rev.	Date
11286	Fanwheel 140	E	2014-04-24
11989	Fanwheel 180	E	2014-04-25
135271	Motorsida borrhå EX140	-	2016-07-08
135273	Motorsida borrhå EX180	-	2016-07-08
135260	Slutmontering EX 140/180	-	2016-09-16
135260_2	Konstruktionsmått EX 140/180	-	2016-09-09
PNF071Q105EXBUSK	Disk	01	2016-02-22
80014-5-9985	Scrollhousing 140	-	2016-07-16
80015-5-9985	Scrollhousing 180	-	2016-07-16
13500-21	Etikett	B	2016-06-03
210951	Typskylt EX-140A-2C	-	2016-09-08
210952	Typskylt EX-140A-4C	-	2016-09-08
210953	Typskylt EX-140A-2	-	2016-09-08
210954	Typskylt EX-140A-4	-	2016-09-08
210955	Typskylt EX-180A-4C	-	2016-09-08
210956	Typskylt EX-180A-4	-	2016-09-08

[20] Certificate History

Issue	Description	Issue date	Report no.
0	Original issue	2016-09-30	D0002591

END OF CERTIFICATE