

Installation, Operation and Maintenance instruction

ΕN

EX Centrifugal Explosion proof fan

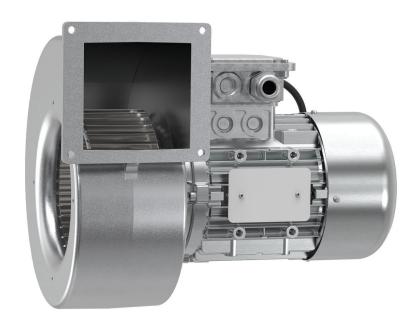










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1 Introduction

1.1 Product description

The EX is a explosion proof fan with an casing made from silium.

The product is not supplied with a safety switch, motor protection, external speed control or FK fast clamps, these parts are available and recommended as accessories.

1.2 Intended use

The EX is used for transport of air or explosive atmospheres with a maximum temperature of 60 °C and 95% air humidity.

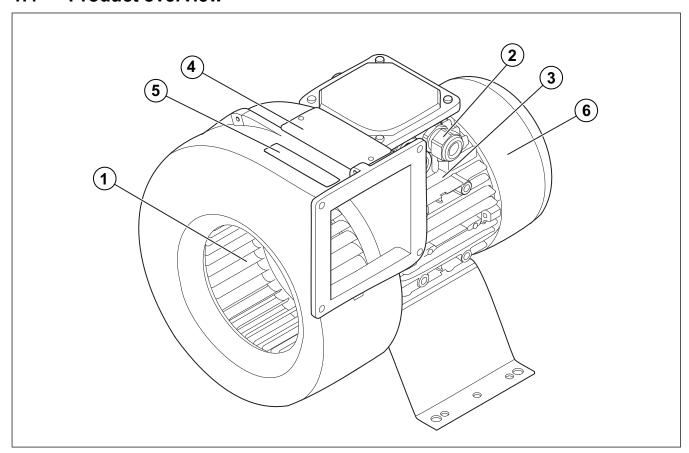
The product is applicable for transportation of air that contains explosive or flammable media. The product is applicable for locations where there is a risk of explosion.

1.3 Document description

This document contains instructions for installation, operation and maintenance of the product. The procedures must be done by approved personnel only.

Speak to Systemair for more information on how to install the product in different installation locations.

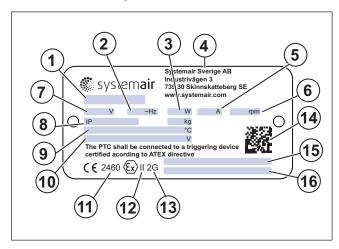
1.4 Product overview



- 1. Fan impeller
- 2. Connection box
- 3. Motor data

- 4. Fan data
- 5. Production label
- 6. Casing

1.5 Name plate



- Type designation: Product name, dimension and motor type. Refer to 1.5.2 Type designation.
- 2. Frequency, Hz
- 3. Input power, W
- 4. Country of production
- 5. Current, A

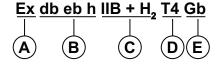
- 6. Revolutions per minute
- 7. Voltage, V
- 8. IP class, enclosure class
- 9. Ambient temperature
- 10. Speed controllable
- 11. Identification number of Notified Body
- 12. Equipment group II is intended for use in areas with explosive gas, except mining gas.
- Category 2, zone 1, G = potentially explosive gas mixture can be occasionally expected to during normal operation.
- 14. Scannable code 1
- 15. Explosion proof classification. Refer to 1.5.1 Classification and Certification
- Certification number. Refer to 1.5.1 Classification and Certification

Note:

The data on the name plate applies to "standard air" that is specified in the standard ISO5801.

1.5.1 Classification and Certification

Product name	Certification	Classification
EX 140-180	Presafe 16 ATEX 8598 X	Ex db eb h IIB + H ₂ T4 Gb



- A. Explosion-protected material
- B. Type of protection
- C. Gas group IIB + H₂
- D. Temperature class T4, maximum surface temperature for fan housing and motor is 135 °C, can be used for gas mixtures with ignition temperature exceeding 135 °C.
- E. EPL, Equipment Protection Level.

^{1.} Use a mobile device to scan the scannable code

1.5.2 Type designation

Product name	EX
Dimension	140A-2
	140A-2C
	140A-4
	140A-4C
	180A-4
	180A-4C
Motor type	1–phase, 220 V
	1–phase, 230 V
	3–phase, 230 V
	3–phase, 380 V
	3–phase, 400 V
	3–phase, 415 V

1.6 Product liability

Systemair is not liable for damages that the product causes in these conditions:

- The product is incorrectly installed, operated or maintained.
- The product is used together with accessories that are not original accessories from Systemair.
- · The product is used without motor protection.

2 Safety

2.1 Safety definitions

Warnings, cautions and notes are used to point out specially important parts of the manual.



Warning

If you do not obey these instructions, there is a risk of death or injury.



Caution

If you do not obey these instructions, there is a risk of damage to the product, other materials or the adjacent area.

Note:

Information that is necessary in a given situation.

2.2 Safety instructions



Warning

Read the warning instructions that follow before you do work on the product.

- Read this manual and make sure that you understand the instructions before you do work on the product.
- Obey local conditions and laws.
- The ventilation contractor and the operator are responsible for correct installation and intended use.
- · Keep this manual at the location of the product.
- · Do not install or operate the product if it is defective.
- · Do not remove or disconnect safety devices.
- Make sure that you can read all warning signs and labels on the product when it is installed. Replace labels that have damage.
- Only permit approved personnel to work on the product and to be in the adjacent area during all work on the product.
- Make sure that you know how to stop the product quickly in an emergency.
- Use applicable safety devices and personal protective equipment during all work on the product.
- Before you do work on the product, stop the product and wait until the fan impeller stops. Make sure that there is no voltage on the motor terminals.
- If the maintenance is not correctly and regularly done, there is risk of injury and damage to the product.
- Only do the maintenance as given in this manual. Speak to Systemair technical support if other servicing is necessary.
- Sound levels exceeding 70 dB(A) may occur depending on model and size. Visit www.systemair.com for more detailed information about your product.
- The product is not to be used by persons, including children, with reduced physical, sensory or mental

capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.

· Do not allow children to play with the product.

2.3 Personal protective equipment

Use personal protective equipment during all work on the product.

- · Approved eye protection
- · Approved protective helmet
- · Approved hearing protection
- · Approved protective gloves
- · Approved protective shoes
- · Approved work clothing

3 Transportation and storage



Warning

Make sure that the product does not become damaged or wet during transportation. A damaged or wet product can cause fire or electric shock.

- Before you move the product to the installation location, examine the packaging for damages.
- Make sure that the impeller do not touch parts of the fan casing.
- Do not move the product by the cables, terminal box, fan impeller, protection grille or inlet cone.
- If lifting equipment is used, make sure that the lifting equipment can hold the weight of the product. Refer to the name plate for information. Do not lift the product by the packaging.



Warning

Do not walk below a lifted product.

- Keep the correct side of the packaging up during transportation. Refer to the arrows on the packaging.
- · Load and unload the product carefully.
- Keep the product in a dry and clean location during storage. Make sure that the ambient temperature during storage is between –10 and +30 °C. A stable ambient temperature prevents damage from condensation.
- Keep the product in storage for maximum 1 year.

4 Installation



Warning

It is not permitted to install components with unprotected aluminium or steel surface before or after the product or in the direct air stream. To prevent an aluminothermic reaction, a surface protection is necessary that meet the crosscut test parameter of 2 / EN ISO 2409.



Warning

Rust particles must not be present in the air stream

Note:

Duct installations must be carried out so that enclosure class IP 20 (mesh width less than 12 mm) is fulfilled on the inlet and outlet side. Parts that assure the IP classification must be correctly designed with regard to strength and material.

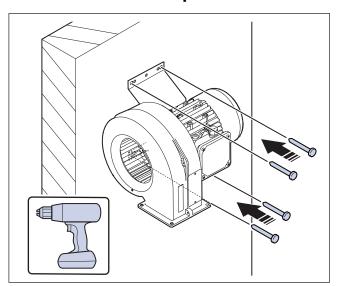
Note:

All fans can be installed in any angle.

4.1 To do before the installation of the product

- Make sure that you have the necessary installation accessories:
 - Refer to 15 Accessory overview for an overview of the accessories.
 - To decrease vibrations transmitted from the product to the duct system, Systemair recommends to install vibration dampers, fast clamps or flexible connections.
 - If you install the product with free suction or free discharge, it is necessary to install a protection grille.
 Make sure that the protection fulfils minimum IP 20 according to the standard EN 60529.
- Consider the ambient temperature, humidity, dirt in the environment and the air's corrosive properties.
- Use installation material with fire resistance rating for the installation location.
- Examine the packaging for transportation damage and remove the packaging from the product carefully.
- · Examine the product and all components for damage.
- Make sure that the motor effect and the fan performance agrees with the expectations at the installation location.
- Make sure that the information on the name plate and the motor name plate agrees with the operation conditions.
- Install the product in a location where there is space for commissioning, troubleshooting and maintenance.
- Make sure that the installation location is clean and dry, for full safety during electrical work.
- Make sure that the installation surface has sufficient capacity to hold the weight of the product.
- Refer to the airflow direction arrows on the name plate or on the product to install the product in the correct position.
- Make sure that all cable glands are tight against the cables to prevent leaks.

4.2 To install the product



- 1 Install the product in any angle, using applicable installation equipment. Obey these steps when applicable:
 - If a motor air intake is mounted upwards, the intake must be protected against falling objects or liquid.
 - The motor is cooled by an integrated cooling fan, which openings must not be covered. Minimum distance to the air intake is 40 mm.
 - If the product is installed near a wall, keep a distance of minimum 400 mm from the product to the wall to prevent unwanted vibrations.

4.3 To connect the ducts to the product

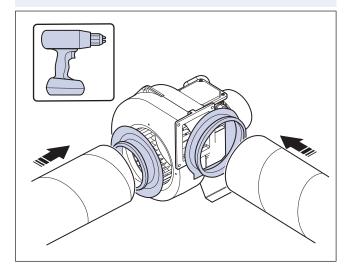
Note:

Systemair recommends using the connection kit to connect the ducts to the fan. The connection kit is available as an accessory.

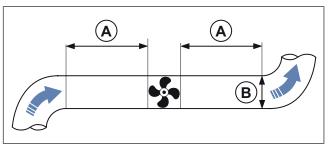
- 1 Put the ducts on each side of the product.
- 2 Use the sleeve connections on the outlet and inlet.

Note:

Installation example is only a guide for installation. The dimensioning of suspension devices must be carried by the installer and adapted to the prevailing conditions. Installation components mentioned in the text are accessories and not part of the ATEX certification.



- 3 Attach the product with the supplied screws.
- 4 If you install the product near a duct bend, do these steps to prevent vibrations, unwanted noise and decreased air pressure:
 - a. Measure the distance (A) between the product and the duct bend.
 - b. Make sure that the distance (A) is a minimum of 2.5 x the diameter (B) of the duct system. For circular ducts, (B) is the nominal diameter. For rectangular ducts, (B) is the hydraulic diameter.



5 Electrical connection

5.1 To do before the electrical connection

- Make sure that the electrical connection agrees with the product specification on the motor name plate.
- Make sure that the environment for electrical connection is clean and dry.
- Make sure that the wiring diagram that is included with the supply of the product agrees with the terminals in the connection box.

5.2 To connect the product to the power supply

- Complete the electrical connection for the motor. Refer to 14 Wiring diagrams.
- Make sure that the cross section of the protective earthing is equal to or larger than the cross section of the phase conductor.
- Install a circuit breaker in the permanent electrical installation, with a contact opening of a minimum 3 mm at each pole.
- If a residual current device (RCD) is installed, make sure that it is an all-current sensitive RCD.



Warning

Do not use VFD (Variable Frequency Drive) for speed control.

Note:

ATEX approved motor protection is required. Systemair recommend U-EK230E motor protection.

6 Commissioning



Caution

- If strong vibrations occur during commissioning, immediately increase or decrease the fan speed until the vibrations are decreased. Continuous strong vibrations can cause damage to components.
- Do not increase the fan speed to a higher rpm value than the maximum value that is given on the name plate.

The commissioning report is found at www.systemair.com.

6.1 To do before the commissioning

- Make sure that the installation and electrical connection are correctly done.
- Make sure that PTC resistors and monitoring units are professionally connected and fully functional.
- Verify that connection data corresponds with the data on the rating plate: Max. voltage +6%, -10%, according to IEC 38. Rated current/power must not be exceeded at rated voltage.
- The voltage of controllable fans is permitted to vary between 15% and 100% of nominal voltage with a transformer. Refer to transformer steps in 12 Technical data.
- · Make sure that the motor protection function.
- Make sure that the impeller do not hit parts of the fan housing.
- Visually examine the product and accessories for damage.
- · Make sure that the safety devices are correctly installed.
- Make sure that there are no blockages in the air intake and the air outlet.
- Make sure that installation material and unwanted objects are removed from the product and the ducts.

6.2 To do the commissioning

- 1 Set the installed safety switch in the OFF position.
- 2 If it is possible to get access to the fan impeller, do the steps that follows:
 - a. If it is necessary, remove parts of the installation.
 - Turn the fan impeller by hand and make sure that it turn easily.
 - c. Record the result in the commissioning report.
- 3 Make sure to turn the product in a direction that agrees with the related arrow on the product.
 - Record the result in the commissioning report.
- 4 If you removed parts of the installation to get access to the fan impeller, install the removed parts again.
- 5 Set the installed safety switch in the ON position.
- 6 Start the product.
- 7 Set the minimum operation speed.

- 8 Increase the operation speed gradually to the maximum operation speed.
 - Examine the vibrations in the casing and the bearing areas at all speed levels.
 - Make sure that the vibrations agree with the specifications in DIN ISO 14694.
 - Make sure that none of the speed levels cause unwanted noise in the product.
 - d. Record the result in the commissioning report.
- 9 Record the necessary data in the commissioning report.

7 Operation

7.1 To start the product

- 1 Make sure that the speed controller is set to position "0".
- 2 Adjust the fan speed with five fixed steps on the speed controller.



Warning

Do not use VFD (Variable Frequency Drive) for speed control.

7.2 To stop the product

- Set the installed speed controller in the OFF position. Refer to the instruction manual for the installed speed controller.
- 2 Set the installed safety switch in the OFF position.

7.2.1 To stop the product in an emergency

· Set the installed safety switch in the OFF position.

8 Maintenance



Warning

Set the installed safety switch in the OFF position before you do the maintenance unless the instructions tell you differently. Make sure that the safety switch is not accidentally set in the ON position.

8.1 Maintenance schedule

The intervals are calculated from continuous operation of the product.

Maintenance task		peration itions	Unusual operation conditions. 1			
	Each 6 months	Each year	Each 3 months	Each 6 months	Each year	
Visually examine the product and its components for damage, corrosion and dirt.		X		Х		
Examine the fan impeller for damage and imbalance.		x		X		
Clean the product and the ventilation system.	X		х			
Do a check of all fasteners and make sure that they are fully tightened.		Х			Х	
Make sure that the product and its components are correctly operated.	Х			Х		
Measure the power consumption and compare the result with the information on the name plate.		X		Х		
If vibration dampers are installed, make sure that they operate correctly and examine them for damage and corrosion.		Х			Х	
Make sure that the electrical protective equipment and the mechanical protective equipment operates correctly.		х			Х	
Make sure that you can read the name plates of the product.		Х		Х		
Examine all cable connections for damage. Make sure that the cable glands are tight against the cables.		Х			Х	
If flexible connections are installed, examine them for damage.	Х			Х		

^{1.} The unusual operation conditions are classified as follows: If a stable ambient temperature is higher than 30 °C or lower than -10° C, if the temperature changes are large or if very contaminated air is transported.

8.2 To clean the product



Caution

- Do not clean the product with a highpressure washer.
- Do not clean the product with steel brushes or sharp objects.
- · Do not bend the fan impeller blades.
- Be careful not to move the balance weights on the fan impeller.

- · Remove dirt from the fan and the duct.
- If access to the fan impeller is possible, clean the fan impeller with a moist cloth or soft brush.

8.3 Spare parts

Note:

Reparation or replacement of components is not permitted on EX fans.

9 Troubleshooting

Note:

If you cannot find a solution to your problem in this section, speak to Systemair technical support.

Problem	Cause	Solution
	The fan impeller is not correctly balanced.	Speak to Systemair technical support.
	There is dirt on the fan impeller.	Clean the fan impeller carefully. Refer to 8.2 To clean the product.
	The fan impeller has damages or deformations because the transported air contains aggressive media.	Speak to Systemair technical support.
The product does not energic smoothly	The fan impeller does not turn in the correct direction.	Make sure that the electrical connection is correctly done.
The product does not operate smoothly.	The fan impeller has deformations because of too high temperatures.	Make sure that the temperature of the transported air is not higher than the value on the name plate.
		Replace the product.
	There are unusually strong vibrations in the product or the duct system.	Make sure that the product is correctly installed. Do a check of the duct system.
	The product is operated in a resonant frequency range.	Increase or decrease the fan speed until the product operates smoothly. Refer to 6 Commissioning.
	The fan impeller does not turn in the correct direction.	Make sure that the electrical connection is correctly done.
	The electrical connection is not correctly done.	Make sure that the electrical connection agrees with the wiring diagrams.
The air output is not sufficient.	The air pressure is too low because of incorrect installation.	Do the necessary changes in the duct system and installed components to increase the air pressure. Refer to 6 Commissioning.
	The airflow shutters are closed or not fully open.	Adjust the airflow shutters.
	There is blockage in the air inlet or the duct system.	Remove the blockage.
	The product is not applicable for the installation location.	Make sure that the product is applicable for the installation location.
There is unusual noise when the product starts or operates.	There is strain in the connections of the duct system.	Loosen the connections, align the parts of the duct system correctly and tighten the connections.

Problem	Cause	Solution
	The fan impeller does not turn in the correct direction.	Make sure that the electrical connection is correctly done.
	A phase loss occurred.	If the motor is a 3-phase motor, make sure that no phase is missing.
Thermal contacts, PTC or resistors are	The motor is overheated.	Do a check of the motor cooling impeller.
released.		If it is possible, measure the resistance to do a check of the motor winding.
	The capacitor is not connected or not correctly connected.	Connect the capacitor correctly. Refer to the included motor wiring diagram.
	There is blockage in the motor.	Speak to Systemair technical support.
	Defective motor winding.	If it is possible, measure the resistance to do a check of the motor winding.
The few aread does not not the convict	The speed control is not correctly set.	Set the speed control correctly.
The fan speed does not get the nominal value.	The fan impeller cannot turn freely because of mechanical blockage.	Remove the blockage.
	Phase loss occurs.	If the motor is a 3-phase motor, make sure that no phase is missing.
	A component in the power supply is defective.	Do a check of the power supply. Replace defective components and connect the power supply again.
The section decreased with the	The electrical connection is not correctly done.	Make sure that the electrical connection agrees with the wiring diagrams.
The motor does not rotate.	The motor protection is released because the motor is overheated.	Let the motor become cool. Reset the motor protection. Find the cause of the overheated motor.
	A phase loss occurred.	If the motor is a 3-phase motor, make sure that no phase is missing.
	The motor is overloaded or the ambient temperature is too high.	Let the motor become cool. Reset the motor protection. Find the cause of the overheated motor.
The electronic components or the motor	The motor is overloaded.	Make sure that the product is applicable for the installation location.
is overheated.	The ambient temperature is too high.	Make sure that the product is applicable for the installation location.
	The cooling of the product is not sufficient.	Make sure that the space around the motor is sufficient to keep the temperature down.

10 Disposal

The product follows the WEEE directive. This symbol on the product or the packaging of the product shows that this product is not domestic waste. The product must be recycled at an approved disposal location for electrical and electronic equipment.



10.1 To disassemble and discard the parts of the product

- 1 Disconnect and disassemble the product in the opposite sequence of electrical connection and installation.
- 2 Recycle the product parts and the packaging at an applicable disposal location.
- 3 Obey the local and national requirements for disposal.

11 Warranty

For warranty claims, send a written maintenance plan and the commissioning report to Systemair. The warranty is only applicable for these conditions:

- · The product is correctly installed and operated.
- Motor protection is used.
- · The instructions in the data sheets are obeyed.
- · Maintenance instructions are obeyed.
- A product that is not operated continuously is operated for a minimum of 1 hour each month.

12 Technical data

	Rated data								
Fan type	Voltage/Frequency		1 A	rpm min-max	Isol class	Weight kg	Min. flow m³/h	Max. Flow m³/h	
	230V(D) 3~ 50Hz	725	2.44		_				
EX 140A-2	380-415V(Y) 3~ 50Hz	736	1.46	1229-2988	F	10	100	1181	
EX140A-2C	220-240V 1~ 50Hz	848	3.85	1320-2960	F	10.7	100	1260	
	230V(D) 3~ 50Hz	171	1.2	/ /	F	6.3	100	610	
EX 140A-4	380-415V(Y) 3~ 50Hz	178	0.73	820-1490				644	
	380-440V(Y) 3~ 60Hz	232	0.64	709-1805				722	
5V 440A 40	220-240V 1~ 50Hz	178	1.05	625-1485	_	0.7	400	620	
EX 140A-4C	220-240V 1~ 60Hz	218	0.94	545-1795	F	6.7	100	705	
	230V(D) 3~ 50Hz	0.40	1.25	044 4400				875	
EX 180A-4	380-415V(Y) 3~ 50Hz	248	0.73	611-1486	F	6.4	100	869	
	380-440V(Y) 3~ 60Hz	364	0.7	491-1801				1049	
5V 400A 46	220-240V 1~ 50Hz	234	1.18	450-1480	_	0.0		880	
EX 180A-4C	220-240V 1~ 60Hz	323	1.39	370-1780	F	6.9	100	1010	

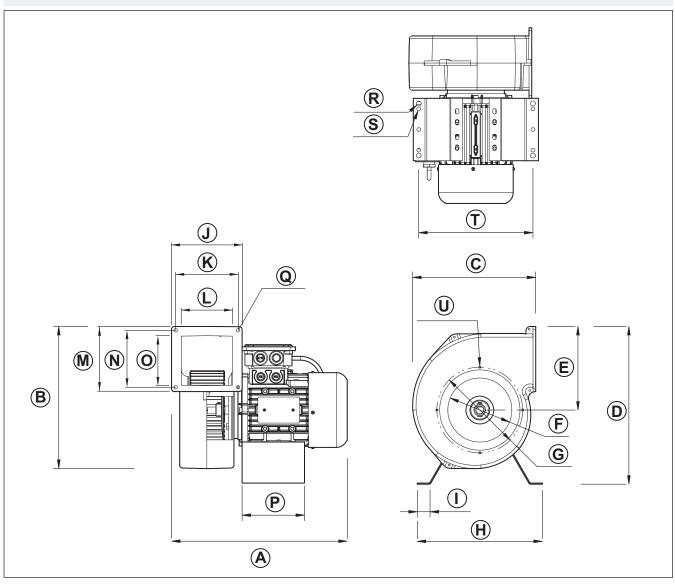
^{1.} The current may exceed the rated current on the fan label as long as the total power consumption does not exceed the rated power value given.

Transformer steps	1	2	3	4	5
Voltages 1~	80V	105V	130V	160V	230V
Voltages 3~	95V	145V	190V	240V	400V

13 Product dimensions

Note:

If the unit of measure is not specified, the dimensions are given in millimetres.



	Α	В	С	D	E	F	G	Н	ı	J	K
EX 140A-4 EX 140A-4C	301	262	227	285	154	118	158	211	23.5	130	115
EX 180A-4 EX 180A-4C	314	294	261	302	171	149	194	211	23.5	125	110
EX 140A-2 EX 140A-2C	324	262	227	291	154	118	158	231	23.5	130	115

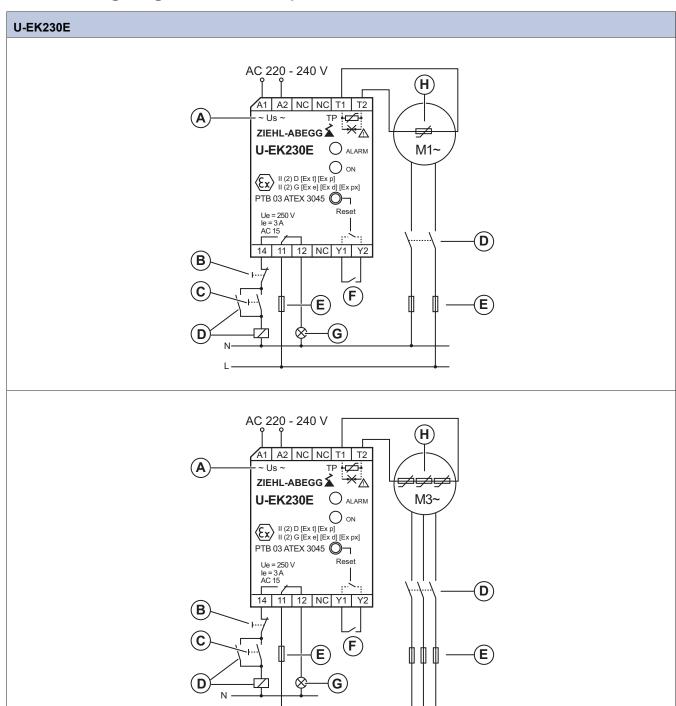
	L	М	N	0	Р	Q	R	S	Т	U
EX 140A-4 EX 140A-4C	94	120	105	92	115	ø6 (4x)	ø9(4x)	ø7(6x)	191.5	M4(4x)
EX 180A-4 EX 180A-4C	86	140	120	109	115	ø7(4x)	ø9(4x)	ø7(6x)	191.5	M4(4x)
EX 140A-2 EX 140A-2C	94	120	105	92	115	ø6 (4x)	ø9(4x)	ø7(6x)	210.5	M4(4x)

14 Wiring diagrams

EX fans	1-phase 220-240 V
EX 140A-2C	
EX 140A-4C	
EX 180A-4C	PTC CAP 18 28 11 W2 U2 V2 W1 W1 L N

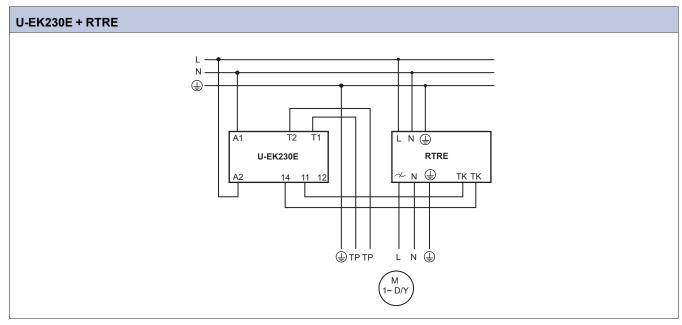
EX fans	3-phase 380-440 V (Y)	3–phase 230 V (D)
EX 140A-2		
EX 140A-4	РТС	PTC
EX 180A-4	10 20 V2 W2 U2 V2 W1 V1	16 26 W2 U2 V2 P P P P P P P P P P P P P P P P P P

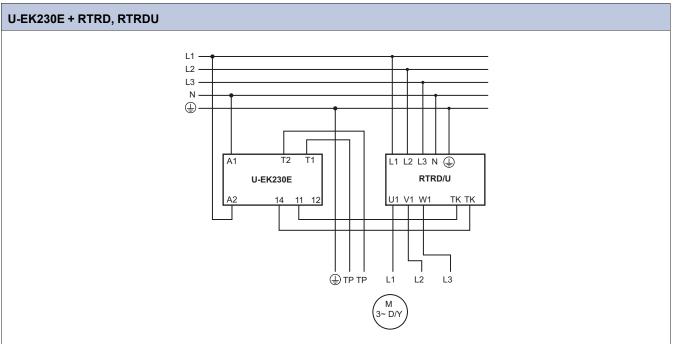
14.1 Wiring diagram for motor protection for ATEX motors



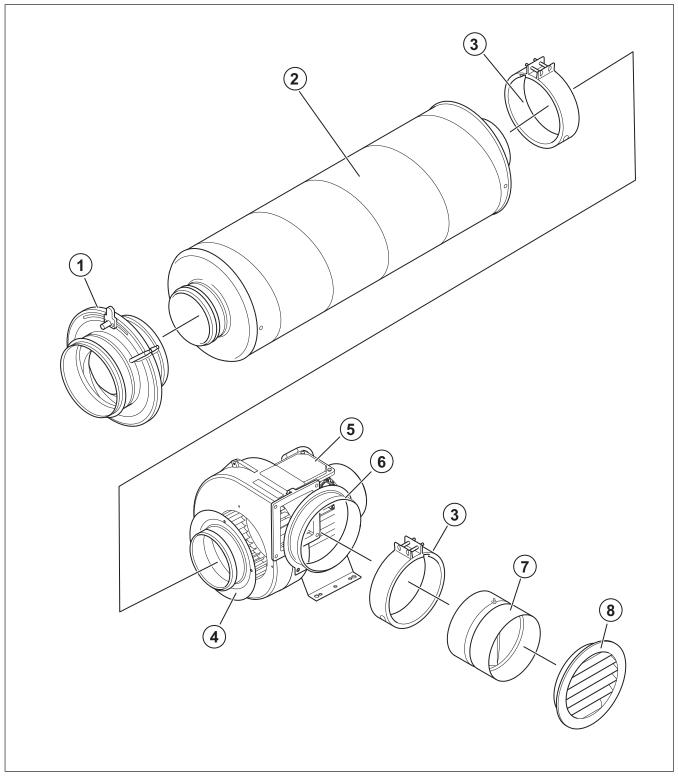
- A. Supply voltage (Us)
- B. Push button off (S1)
- C. Push button on (S2)
- D. Contactor (K1)
- E. Fuses (F1-F4)
- F. Push button external reset (S3)
- G. Fault indicator (H1)
- H. PTC termistor (TP)

14.2 Wiring diagram for speed controller for ATEX motors





15 Accessory overview



1. SPI: Iris damper

2. LDC: Silencer

3. FK: Fast clamp

4. IS: Inlet sleeve connection

5. Fan

6. US: Outlet sleeve connection

7. RSK: Back draft damper

8. IGC: Wall grid

Note:

The selection of accessories shown are not supplied with the product. For more information and other available accessories, refer to www.systemair.com or speak to Systemair technical support.

16 EU Declaration of Conformity

We, the manufacturer

Manufacturer	Systemair Sverige AB
Address	Industrivägen 3 739 30 Skinnskatteberg
	Sweden

declare under our sole responsibility that the products

Machine	Explosion proof fan
Type/Model	EX

fulfils the relevant provisions of following directives and standards

ATEX Directive 2014/34/EU

EN 60079-0:2018

Explosive atmospheres – Part 0: Equipment – General requirements.

EN 60079-1:2014

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Safety of machinery – Safety distances to prevent hazard zones being reached by upper or lower limbs.

EN 60529:2014

Degrees of protection provided by enclosures (IP Code).

<u>Directive electromagnetic compatibility (EMC) 2014/30/</u>EU

EN 61000-6-2:2005

Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity for industrial environments.

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Electromagnetic compatibility (EMC) – part 6-3: Generic standards – emission standard for residential, commercial and light-industrial environments.

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EN IEC 63000:2018

Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

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This declaration relates exclusively to the machinery in the state in which it was placed on the market and excludes components which are added or operations carried out subsequently by the final user.

Skinnskatteberg, Sweden 2023-05-08

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