

## SF230A and SF230A-S2 Damper Actuators

### Application

Damper actuators with spring return and two-point control for controlling air dampers in VAC plants with emergency function.

Easily mounted directly on the air damper axle with universal clamping device. The supplied locking element provides protection from distortion.

The valve actuating drive is overload resistant. The valve actuating drive stops automatically when the valve or motor stop is reached.

When the power supply is interrupted, the spring energy moves the air damper back into the emergency position.



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Änderungen vorbehalten - Contents subject to change - Sous réserve de modifications - Reservado el derecho a modificación - Wijzigingen voorbehouden - Con riserva di modifiche - Innehåll som skall ändras - Změny vyhrazeny - Zmiany zastrzeżone - Возможны изменения - A változtatások jogát fenntartjuk - 保留未经通知而改动的权力

## Important Information Regarding Product Safety

### Safety Instructions

This data sheet contains information on installing and commissioning the product "SF230A, SF230A-S2". Each person who carries out work on this product must have read and understood this data sheet. If you have any questions that are not resolved by this data sheet, you can obtain further information from the supplier or manufacturer.

If the product is not used in accordance with this data sheet, the protection provided will be impaired.

Applicable regulations must be observed when installing and using the device. Within the EU, these include regulations regarding occupational safety and accident prevention as well as those from the VDE (Association for Electrical, Electronic & Information Technologies). If the device is used in other countries, it is the responsibility of the system installer or operator to comply with local regulations.

Mounting, installation and commissioning work on the devices may only be carried out by qualified technicians. Qualified technicians are persons who are familiar with the described product and who can assess given tasks and recognize possible dangers due to technical training, knowledge and experience as well as knowledge of the appropriate regulations.

### Legend



#### WARNING

Indicates a hazard of medium risk which can result in death or severe bodily injury if it is not avoided.



#### CAUTION

Indicates a hazard of low risk which can result in minor or medium bodily injury if it is not avoided.



#### NOTICE

Indicates a hazard of medium risk which can result in material damage or malfunctions if it is not avoided.



#### NOTE

Indicates additional information that can simplify the work with the product for you.

### Notes on Disposal

For disposal, the product is considered waste from electrical and electronic equipment (electronic waste) and must not be disposed of as household waste. Special treatment for specific components may be legally binding or ecologically sensible. The local and currently applicable legislation must be observed.

**Product Description****SF230A, SF230A-S2****Item**

SF230A	Damper actuator AC 230 V with spring return and 20 Nm torque
SF230A-S2	As with SF230A, with two additional integrated auxiliary switches

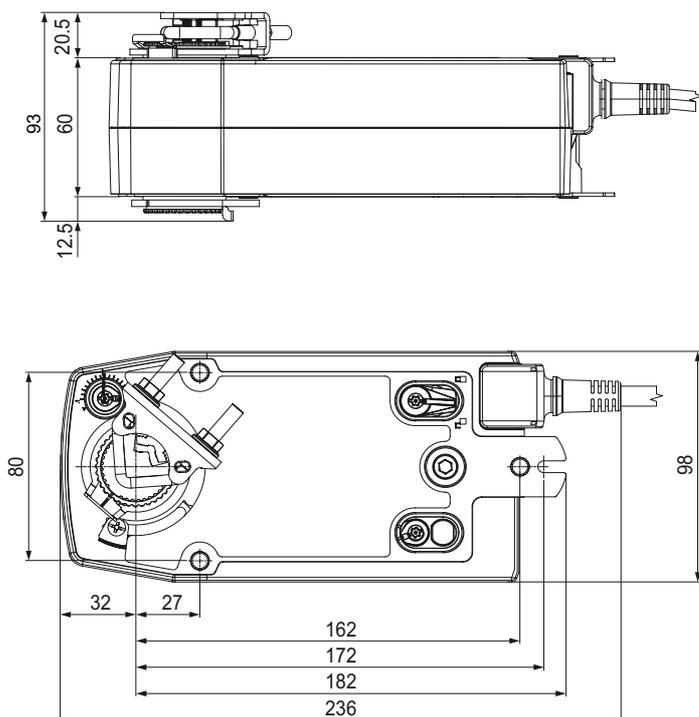
**Technical Data**

Nominal voltage	AC 230 V; 50/60 Hz	
Functional range	195 to 264 V	
Power consumption	Operation	6.5 W
	Idle position	3.5 W
	Dimensioning	18 VA
Connection	Cable 1 m; 2x 0.75 mm <sup>2</sup> for motor	
	With SF230A-S2: additional 1 m; 6x 0.75 mm <sup>2</sup> for auxiliary switch	
Control	Two-point	
Torque	20 Nm (for damper surface areas up to 4 m <sup>2</sup> )	
Rotational direction	Mount left or right to change	
Rotational angle	Max. 95°, can be limited in both directions using adjustable mechanical stops	
Run time	Motor	≤ 75 s
	Spring return	≤ 20 s between -20 °C and 50 °C; max. 60 s at -30 °C
Sound power level	Motor	≤ 45 dB (A)
	Spring return	≤ 62 dB (A)
Position indicator	Mechanical	
Operating life	Min. 60,000 movements to emergency position	
Auxiliary switch	Only with SF230A-S2 2x EPU, 1 mA to 3(0.5) A, AC 250 V (1x fixed at 10%, 1x settable between 10% and 90%)	
Manual adjustment	With manual wind-up crank and interlocking switch	
Degree of protection	IP54	
Protection class	II	
Maintenance	Maintenance-free	
Ambient temperature	-30 °C to +50 °C	
Ambient humidity	95% r.h., non-condensing	
Weight	SF230A 2.1 kg; SF230A-S2 2.3 kg	

**Accessories (not included in delivery)**

AV8/25	Axle extension
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Dimensions



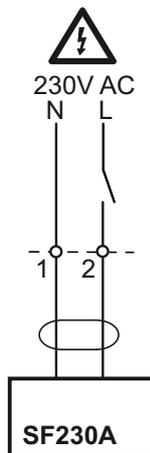
3/4" terminal block (with insert)

Air damper axle	Length [mm]	 [mm]	 [mm]	 [mm]
Clamping device, top	≥ 85	10 to 22	10	14 to 25.4
Clamping device, bottom	≥ 15	10 to 22	10	14 to 25.4

1" terminal block (without insert)

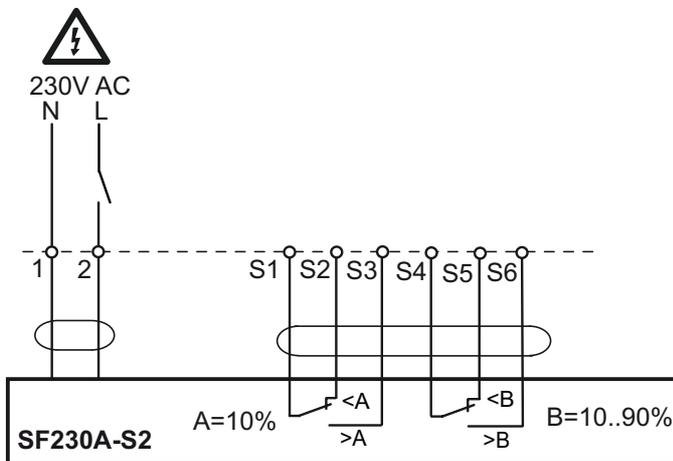
Air damper axle	Length [mm]	 [mm]	 [mm]
Clamping device, top	≥ 85	19 to 25.4 (26.7)	12 to 18
Clamping device, bottom	≥ 15	19 to 25.4 (26.7)	12 to 18

## Connection



### Cable colors:

1 = Black  
2 = Red



### Cable colors:

1 = Black  
2 = Red  
S1 = Violet  
S2 = Red  
S3 = White  
S4 = Orange  
S5 = Pink  
S6 = Gray

## Mounting



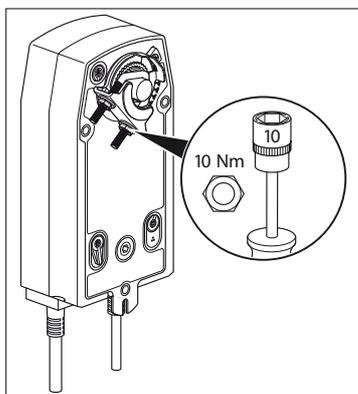
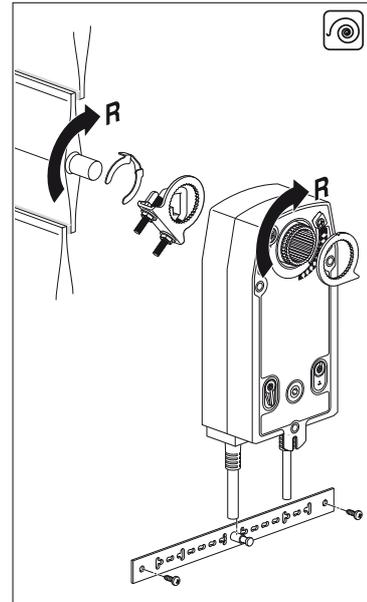
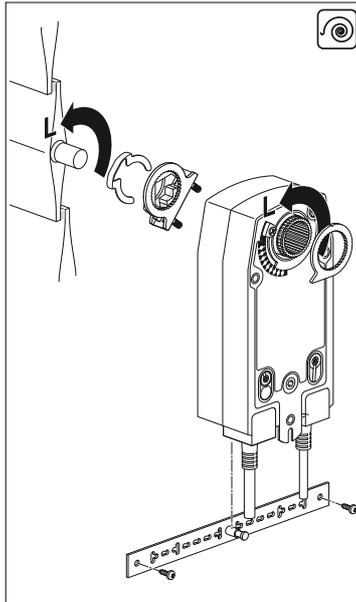
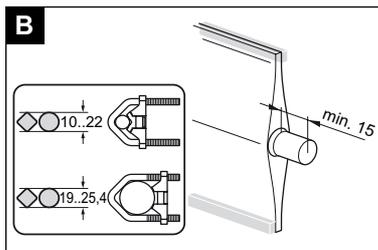
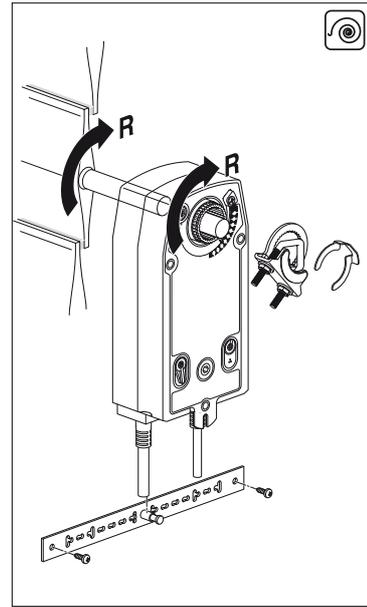
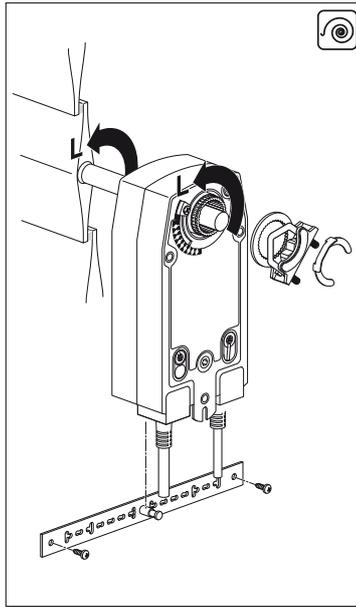
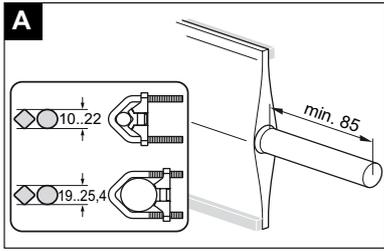
### WARNING

Contact with live parts of electrical domestic installation can cause death due to electric shock. Only connect the device and switch on the power supply if you are qualified to do so. Be sure to comply with VDE guidelines and local wiring regulations.

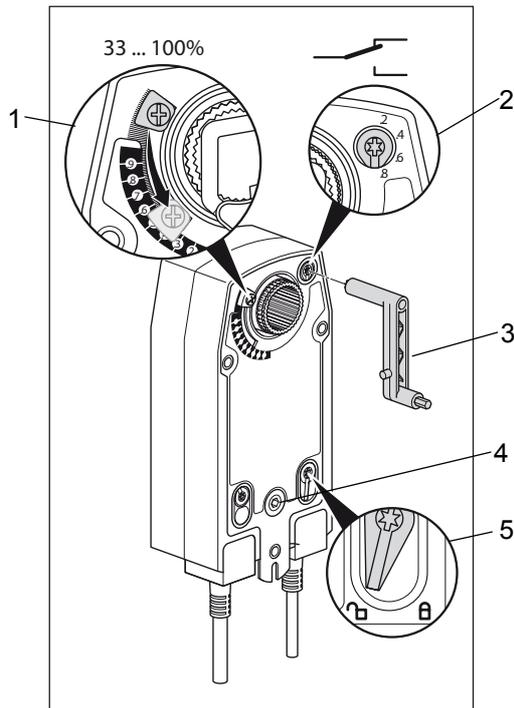
- ▶ The unit is connected according to the terminal connection diagram or the legally binding system circuit diagram.
- ▶ Only the manufacturer may open the valve actuating drive.
- ▶ The cable may not be removed from the valve actuating drive.

SF230A, SF230A-S2

Product Description

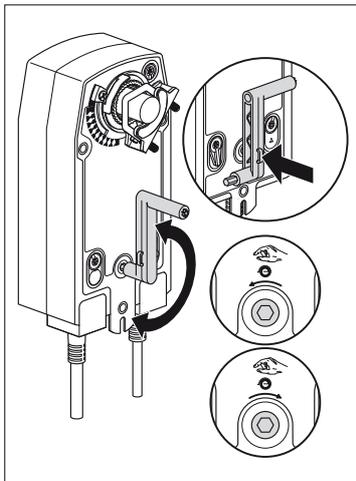


### Rotational angle limitation and setting of auxiliary switch



- (1) Mechanical rotational angle limitation
- (2) Setting of auxiliary switch only with SF230A-S2
- (3) Crank
- (4) Coupling sleeve for manual crank
- (5) Lock switch

### Manual adjustment



## Mounting Accessories

### AV8/25

For air damper axles with diameters between 8 mm and 25 mm.

Length: approx. 250 mm; diameter 20 mm

