

Spring return actuator with emergency function for adjusting air dampers in ventilation and air conditioning systems in buildings

- For air dampers up to approx. 2 m²
- Torque 10 Nm
- Nominal voltage

AC 24 ... 240 V / DC 24 ... 125 V

• Control: Open-close



Technical data				
Electrical data	Nominal voltage		AC 24 240 V, 50/60 Hz / DC 24 125 V	
	Nominal voltage range		AC 19,2 264 V / DC 21,6 137,5 V	
	Power consumption In	operation	6 W @ nominal torque	
		rest	2.5 W	
		or wire sizing	9.5 VA	
	Connection		Cable 1 m, 2 x 0.75 mm ²	
Functional data	Torque Motor		Min. 10 Nm @ nominal voltage	
	Spring return		Min. 10 Nm	
	Direction of rotation		Can be selected by mounting L / R	
	Manual override		With hand crank and interlocking switch	
	Angle of rotation		Max. 95°	
			adjustable mechanical end stop	
	Running time Motor Spring return Sound power level Motor Spring return Service life Position indication		≤75 s (0 10 Nm)	
			20 s @ -20 50°C / max. 60 s @ -30°C	
			≤45 dB (A) ≤62 dB (A)	
			Min. 60,000 emergency positions	
			Mechanical	
Cofety				
Safety	Protection class		II Totally insulated □ IP54	
	Degree of protection		NEMA2, UL Enclosure Type 2	
	EMC		CE according to 2004/108/EC	
	Low-voltage directive		CE according to 2004/108/EC CE according to 2006/95/EC	
	Certification		Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14	
	001000		cULus according to UL 60730-1A and UL 60730-2-14	
			and CAN/CSA E60730-1:02	
	Mode of operation Rated impulse voltage Control pollution degree Ambient temperature Non-operating temperature Ambient humidity Maintenance		Type 1.AA	
			4 kV	
			3	
			−30 +50°C	
			−40 +80°C	
			95% r.h., non-condensating	
			Maintenance-free	
Dimensions / Weight	Dimensions		See «Dimensions» on page 3	
_	Weight		Approx. 2.0 kg	



Safety notes



- The actuator is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- · Caution: Power supply voltage possible!
- It may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- The device may only be opened at the manufacturer's site. It does not contain any parts that can be replaced or repaired by the user.
- The cable must not be removed from the device.
- When calculating the required torque, the specifications supplied by the damper manufacturers (cross-section, design, installation site), and the air flow conditions must be observed.
- The device contains electrical and electronic components and is not allowed to be disposed
 of as household refuse. All locally valid regulations and requirements must be observed.

Product features

Mode of operation

The actuator is equipped with a universal power module and can process supply voltages from AC 24 \dots 240 V plus DC 24 \dots 125 V.

The actuator moves the damper to the operating position at the same time as tensioning the return spring. The damper is turned back to the emergency position by spring force if the supply voltage is interrupted.

Simple direct mounting

Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.

Manual override

Manual operation of the damper with the hand crank, locking in any position with the interlocking switch. Unlocking is manual or automatic by applying the operating voltage.

Adjustable angle of rotation

Adjustable angle of rotation with mechanical end stop.

High operational reliability

The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

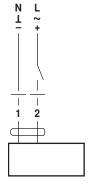
Electrical installation

Wiring diagram

Notes

Caution: Power supply voltage possible!

Parallel connection of other actuators possible.
 Note the performance data.



Cable colours:

1 = black

2 = red

Accessories

	Description	Data sheet
Electrical accessories	Auxiliary switch unit S2A-F *	T2 - S2A-F
	Feedback potentiometer unit P200A-F *	T2 - P200A-F

Mechanical accessories

Various accessories

^{*} further versions on request



Dimensions [mm]

Dimensional drawings

Variant 1a:

3/4"-spindle clamp (with insertion part) EU Standard

Damper spindle	Length	<u>OĪ</u>		<u>♦</u> <u>T</u>
	≥85	10 00	10	1425.4
	≥15	1022	10	1425.4

Variant 1b:

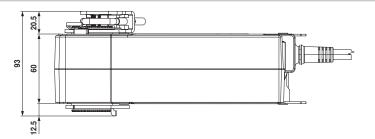
1"-spindle clamp (without insertion part) EU Standard

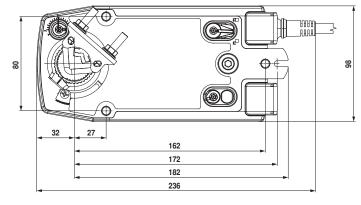
Damper spindle	Length	<u>OĪ</u>	■I
	≥85	1925.4	1218
	≥15	(26.7)	1210

Variant 2:

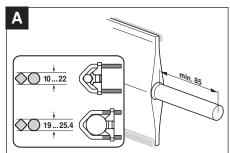
1/2"-spindle clamp (optional via configuration)

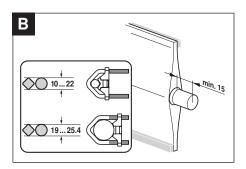
/2 opinion champ (opinional tra comigaration)				
Damper spindle	Length	<u>OĪ</u>	<u>♦</u> <u>1</u>	
	≥85	10 10	1420	
	>15	1019	1420	

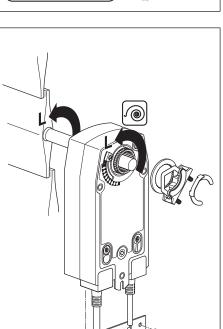


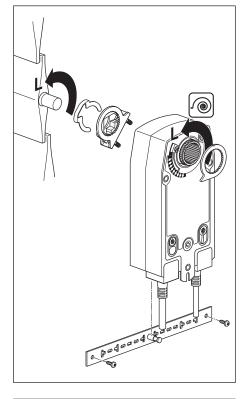


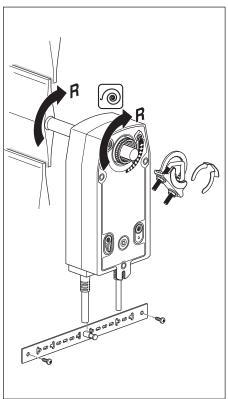


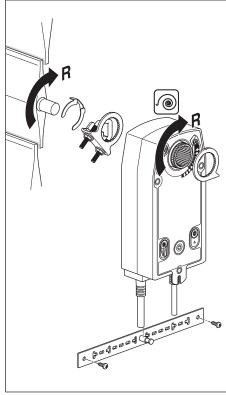


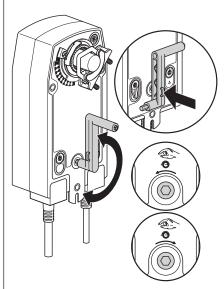


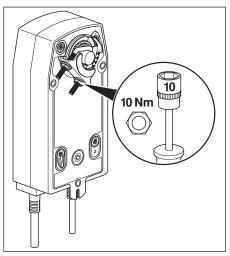


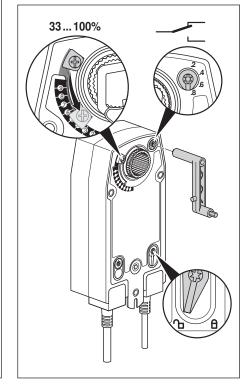




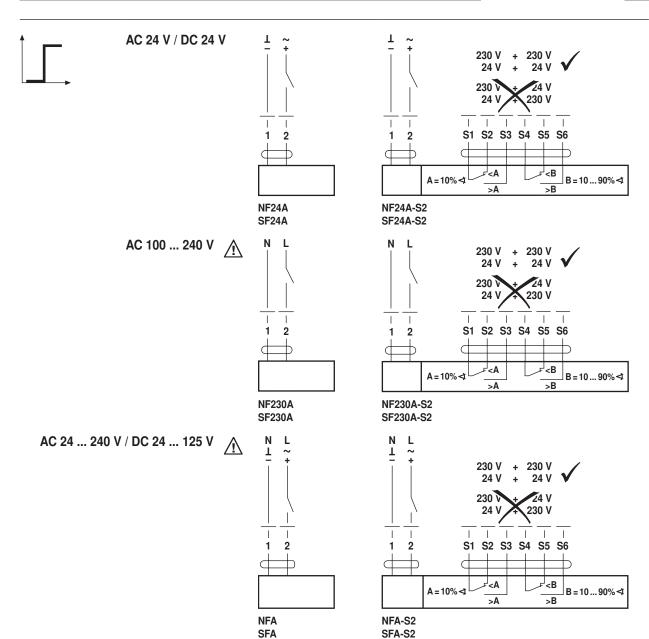












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