

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 m<sup>2</sup>
- Torque 10 Nm
- Nominal voltage AC/DC 24 V
- · Control: Open-close



Technical data			
Electrical data	Nominal voltage	AC 24 V, 50/60 Hz / DC 24 V	
	Nominal voltage range	AC 19.2 28.8 V / DC 21.6 28.8 V	
	Power consumption In operation	6 W @ nominal torque	
	At rest	2.5 W	
	For wire sizing	8.5 VA	
	Connection	Cable 1 m, 2 x 0.75 mm <sup>2</sup>	
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°	
		mechanical end stop	
	Running time Motor	≤75 s (0 10 Nm)	
	Spring return	≤20 s @ –20 50°C / max. 60 s @ –30°C	
	Sound power level Motor	≤45 dB (A)	
	Spring return	≤62 dB (A)	
	Service life	Min. 60,000 emergency positions  Mechanical	
	Position indication		
Safety	Protection class	III Extra low voltage	
		UL Class 2 Supply	
	Degree of protection	IP54	
		NEMA2, UL Enclosure Type 2	
	EMC	CE according to 2004/108/EC	
	Certification	Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14	
		cULus according to UL 60730-1A and UL 60730-2-14	
		and CAN/CSA E60730-1:02	
	Mode of operation	Type 1.AA	
	Rated impulse voltage	0.8 kV	
	Control pollution degree	3	
	Ambient temperature	−30 +50°C	
	Non-operating temperature	−40 +80°C	
	Ambient humidity	95% r.h., non-condensating	
	Maintenance	Maintenance-free	
Dimensions / Weight	Dimensions	See «Dimensions» on page 3	

Approx. 1.8 kg

Weight



# 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.
  - 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 moves the damper to the operating position at the same time as tensioning the

return spring. The damper is turned back to the safety 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.

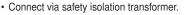
High operational reliability The actuator is overload-proof, requires no limit switches and automatically stops when the end

stop is reached.

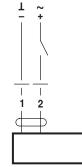
# **Electrical installation**

## Wiring diagram

## Notes



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



Cable colours:

1 = black2 = 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

<sup>\*</sup> further versions on request



# **Dimensions [mm]**

# **Dimensional drawings**

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

Damper spindle	Length	<u>OĪ</u>		<u>♦</u> <u>1</u>
	≥85	10 00	10	1425.4
	≥15	1022	10	1425.4

# Variant 1b:

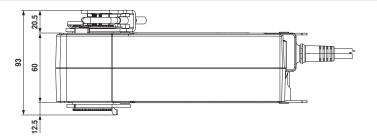
1"-spindle clamp (without insertion part) EU Standard

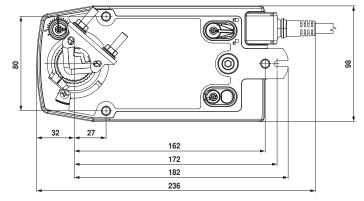
Damper spindle	Length	<u>OĪ</u>	
	≥85	1925.4	1218
	≥15	(26.7)	1210

# Variant 2:

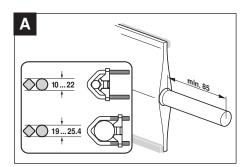
½"-spindle clamp (optional via configuration)

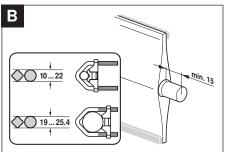
/2 Spiriale Glamp	Spiriale diamp (optional via comigaration)			
Damper spindle	Length	<u>OĪ</u>	<u>♦</u> <u>1</u>	
	≥85	10 10	1420	
	≥15	1019	1420	

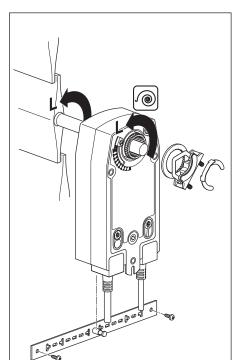


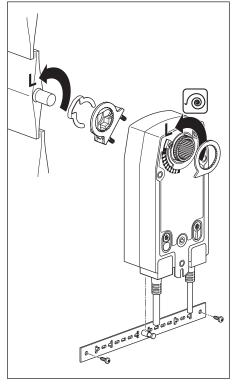


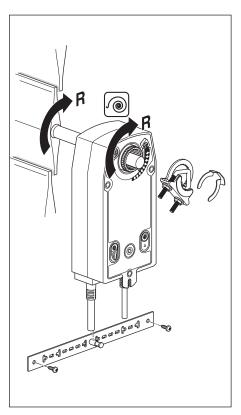


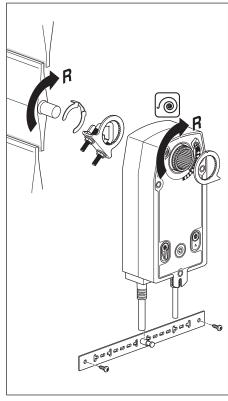


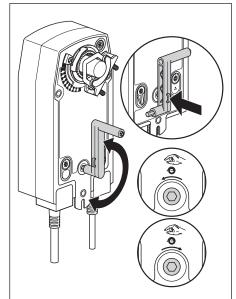


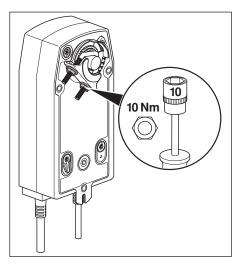


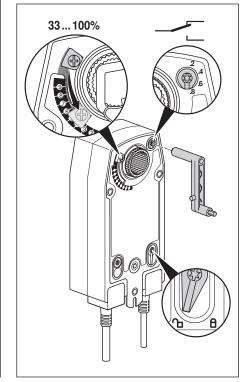




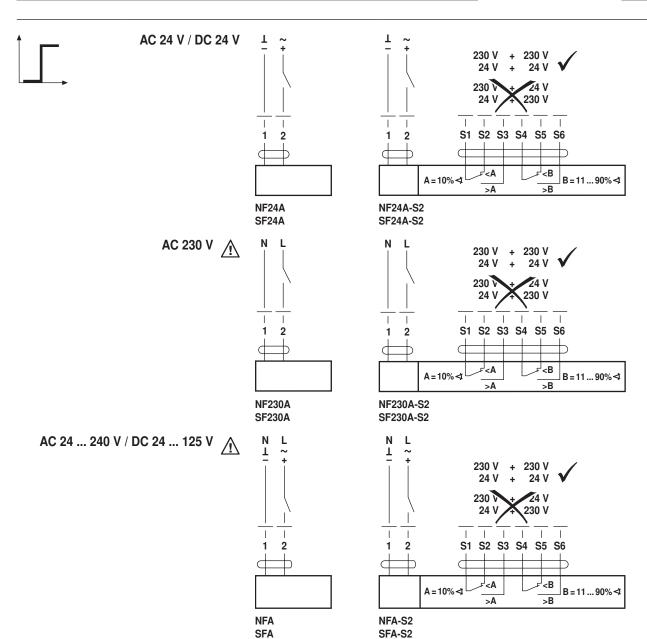












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