

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 230 V
- Control: Open-close
 Two integrated auxiliary switches



Technical data				
Electrical data	Nominal voltage	AC 230 V, 50/60 Hz		
	Nominal voltage range	AC 195 264 V		
	Power consumption In operation	6 W @ nominal torque		
	At rest	2.5 W		
	For wire sizing	9.5 VA		
	Auxiliary switch	2 x SPDT, 1 mA 3 (0.5) A, AC 250 V 🗆		
		(1 x fix 10% / 1 x adjustable 10 90%)		
	Connection Motor	Cable 1 m, 2 x 0.75 mm ²		
	Auxiliary switch	Cable 1 m, 6 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	≤75 s (0 10 Nm)		
	Spring return	≤20 s @ −20 50 ° C / max. 60 s @ −30 ° C		
	Sound power level Motor Spring return	≤45 dB (A) ≤62 dB (A)		
	Service life	Min. 60,000 emergency positions		
	Position indication	Mechanical		
Safety	Protection class	II Totally insulated □		
	Protection mode	IP54		
		NEMA2, UL Enclosure Type 2		
	EMC	CE according to 2004/108/EC		
	Low-voltage directive	CE according to 2006/95/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.B		
	Rated impulse voltage Actuator	4 kV 2.5 kV		
	Auxiliary switch Control pollution degree	3		
	Ambient temperature			
	Non-operating temperature	-30 +30 °C		
	Ambient humidity	95% r.h., non-condensating		
	Maintenance	Maintenance-free		
Dimensions / Weight	Dimensions	See «Dimensions» on page 3		
Simonoiono, Weight	Weight	Approx. 2.0 kg		
	· · o·g·it	Approx. 2.0 hg		



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!
- 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 integrated switches of this actuator have to be connected either to Power supply voltage or safety extra low voltage. The combination Power supply voltage / safety extra low voltage is not allowed.
- 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 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.

Flexible signalization The actuator has one auxiliary switch with a fixed setting and one adjustable auxiliary switch.

They permit a 10% or 10 ... 90% angle of rotation to be signalled.

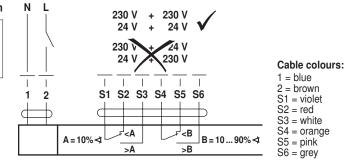
Electrical installation

Wiring diagram

Notes

Caution: Power supply voltage!

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



Accessories

 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

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>	Ī
	≥85	1925.4	1218
	≥15	(26.7)	1210

Variant 2:

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

Damper spindle	Length	<u>OĪ</u>	<u>♦</u> 1
	≥85	1019	1420
	≥15		

