

Technical data sheet

Rotary actuator fail-safe for adjusting dampers in technical building installations

- Air damper size up to approx. 0.8 m²
- Torque motor 4 Nm
- Nominal voltage AC 230 V
 Control Open/close
- with integrated auxiliary switch



Technical data

Electrical data	Nominal voltage	AC 230 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 198264 V
	Power consumption in operation	5 W
	Power consumption in rest position	3 W
	Power consumption for wire sizing	7 VA
	Power consumption for wire sizing note	Imax 150 mA @ 10 ms
	Auxiliary switch	1 x SPDT, 0100%
	Switching capacity auxiliary switch	1 mA3 A (0.5 A inductive), AC 250 V
	Connection supply / control	Cable 1 m, 2 x 0.75 mm ²
	Connection auxiliary switch	Cable 1 m, 3 x 0.75 mm ²
	Parallel operation	Yes (note the performance data)
Functional data	Torque motor	4 Nm
	Torque fail-safe	4 Nm
	Direction of motion motor	selectable by mounting L/R
	Direction of motion fail-safe	selectable by mounting L/R
	Manual override	No
	Angle of rotation	Max. 95°
	Angle of rotation note	Adjustable 37100% with integrated
	Describes there exists	mechanical limitation
	Running time motor	4075 s / 90°
	Running time fail-safe	<pre><20 s / 90°</pre>
	Running time fail-safe note	@ -2050°C / <60 s @ -30°C
	Sound power level, motor Mechanical interface	50 dB(A)
	Position indication	Universal shaft clamp 816 mm Mechanical
	Service life	
		Min. 60'000 fail-safe positions
Safety	Protection class IEC/EN	II reinforced insulation
	Protection class auxiliary switch IEC/EN	II reinforced insulation
	Degree of protection IEC/EN	IP54
	EMC	CE according to 2014/30/EU
	Low voltage directive	CE according to 2014/35/EU
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
	Mode of operation	Type 1.B
	Rated impulse voltage supply / control	4 kV
	Rated impulse voltage auxiliary switch	4 kV
	Control pollution degree	3
	Ambient temperature	-3050°C
	Storage temperature	-4080°C
	Ambient humidity	Max. 95% r.H., non-condensing
	Servicing	maintenance-free
Weight	Weight	2.5 kg

Rotary actuator fail-safe, Open/close, AC 230 V, 4 Nm, with integrated auxiliary switch



Safety notes	
\wedge	• The device must not be used outside the specified field of application, especially not in aircraft or in any other airborne means of transport.
	 Outdoor application: only possible in case that no (sea) water, snow, ice, insolation or aggressive gases interfere directly with the actuator and that is ensured that the ambient conditions remain at any time within the thresholds according to the data sheet.
	Caution: Power supply voltage!
	 Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.
	• 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.
	Cables must not be removed from the device.
	 To calculate the torque required, the specifications supplied by the damper manufacturers concerning the cross-section, the design, the installation site and the ventilation conditions must be observed.
	 The device contains electrical and electronic components and must not 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 sprin energy when the supply voltage is interrupted.
Simple direct mounting	Simple direct mounting on the damper shaft with a universal shaft clamp, supplied with an anti-rotation device to prevent the actuator from rotating.
Adjustable angle of rotation	Adjustable angle of rotation with mechanical end stops.
High functional reliability	The actuator is overload protected, requires no limit switches and automatically stops when the end stop is reached.

	Description	Туре
Electrical accessories	Auxiliary switch 2 x SPDT	S2A-F
	Feedback potentiometer 200 Ω	P200A-F
	Feedback potentiometer 1 k Ω	P1000A-F
	Description	Туре
Mechanical accessories	Shaft extension 170 mm Ø10 mm for damper shaft Ø 616 mm	AV6-20
	Shaft extension 240 mm Ø20 mm for damper shaft Ø 822.7 mm	AV8-25
	Shaft clamp reversible, clamping range Ø1620 mm	K6-1
	Ball joint suitable for damper crank arm KH8 / KH10	KG10A
	Ball joint suitable for damper crank arm KH8	KG8
	Damper crank arm Slot width 8.2 mm, clamping range Ø1018 mm	KH8
	Actuator arm, clamping range Ø816 mm, Slot width 8.2 mm	KH-LF
	Angle of rotation limiter, with end stop	ZDB-LF
	Form fit adapter 8x8 mm	ZF8-LF
	Mounting kit for linkage operation for flat installation	ZG-LF1
	Mounting kit for linkage operation for side installation Slot width 6.2 mm	ZG-LF3
	Anti-rotation mechanism 180 mm, Multipack 20 pcs.	Z-ARS180L

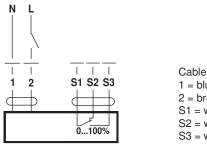
Electrical installation		
\triangle	Notes	 Caution: Power supply voltage! Parallel connection of other actuators possible. Observe the performance data.



Electrical installation

Wiring diagrams

AC 230 V, open/close



Cable colours: 1 = blue 2 = brown S1 = white S2 = white S3 = white

Dimensions [mm]

Spindle length

	Min. 84
	Min. 20

Clamping range

816	816

Dimensional drawings

