

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 100...240 V
- Control Open/close
- with integrated auxiliary switch



Technical data

Electrical data	Nominal voltage	AC 100240 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 85265 V
	Power consumption in operation	3.5 W
	Power consumption in rest position	2 W
	Power consumption for wire sizing	6.5 VA
	Power consumption for wire sizing note	Imax 150 mA @ 10 ms
	Auxiliary switch	1x SPDT, 0100%
	Switching capacity auxiliary switch	1 mA3 A (0.5 A inductive), DC 5 VAC 250 V
	Connection supply / control	Cable 1 m, 2x 0.75 mm ²
	Connection auxiliary switch	Cable 1 m, 3x 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 mechanical limitation
	Running time motor	75 s / 90°
	Running time fail-safe	<20 s @ -2050°C / <60 s @ -30°C
	Sound power level, motor	50 dB(A)
	Mechanical interface	Universal shaft clamp 816 mm
	Position indication	Mechanical
	Service life	Min. 60'000 fail-safe positions
Safety data	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
	Hygiene test	According to VDI 6022 Part 1 / SWKI VA 104-01, cleanable and disinfectable, low emission
	Type of action	Туре 1.В



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Technical data			
Safety data	Rated impulse voltage supply / control	4 kV	
· · · · · · · · · · · · · · · · · · ·	Rated impulse voltage auxiliary switch	4 kV	
	Pollution degree	3	
	Ambient humidity	Max. 95% RH, non-condensing	
	Ambient temperature	-3050°C [-22122°F]	
	Storage temperature	-4080°C [-40176°F]	
	Servicing	maintenance-free	
Weight	Weight	1.7 kg	
Safety notes		tationary heating, ventilation and air-conditioning	
	 Outdoor application: only possible in case that no (sea) water, snow, ice, insolation or aggressive gases interfere directly with the device and that it is ensured that the ambient conditions remain within the thresholds according to the data sheet at any time. Caution: Power supply voltage! Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied with 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 and the design, as well as the installation situation 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			
Operating mode	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 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.		
Flexible signalling	With adjustable auxiliary switch (0100%)		
Accessories			
Electrical accessories	Description	Туре	
	Auxiliary switch 2x SPDT	S2A-F	
	Feedback potentiometer 1 k Ω	P1000A-F	
Mechanical accessories	Description	Туре	

Shaft extension 170 mm ø10 mm for damper shaft ø6...16 mm

Damper crank arm Slot width 8.2 mm, clamping range ø10...18 mm

Shaft clamp reversible, clamping range ø16...20 mm

Ball joint suitable for damper crank arm KH8 / KH10

Ball joint suitable for damper crank arm KH8

AV6-20

KG10A

K6-1

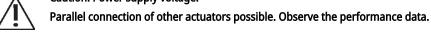
KG8

KH8



Description	Туре
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



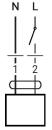
Caution: Power supply voltage!

Wire colours:

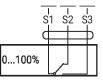
- 1 = blue
- 2 = brown
- S1 = violet S2 = red
- S3 = white

Wiring diagrams

AC 230 V, open/close



Auxiliary switch



Dimensions

Spindle length

	Min. 84
	Min. 20

Clamping range

OI	
816	816

