

Damper actuator for adjusting dampers in technical building installations

- · Air damper size up to approx. 0.4 m²
- Nominal torque 2 Nm
- · Nominal voltage AC 230 V
- · Control Open-close, 3-point
- Running time motor 35 s
- Spindle driver Form fit 8x8 mm
- · With integrated auxiliary switch



Technical data

Electrical data

Nominal voltage	AC 230 V
Nominal voltage frequency	50/60 Hz
Nominal voltage range	AC 85264 V
Power consumption in operation	2 W
Power consumption in rest position	0.5 W
Power consumption for wire sizing	4 VA
Auxiliary switch	1 x SPDT, 0100%
Switching capacity auxiliary switch	1 mA3 (0.5 inductive) A, AC 250 V
Connection supply / control	Cable 1 m, 3 x 0.75 mm ²
Connection auxiliary switch	Cable 1 m, 3 x 0.75 mm ²
Parallel operation	Yes (note the performance data)
Torque motor	Min. 2 Nm
Direction of motion motor	Selectable with switch 0 (ccw rotation) / 1 (cw rotation)

Functional data

Connection auxiliary Switch	Cable 1 III, 5 x 0.75 IIIIII-
Parallel operation	Yes (note the performance data)
Torque motor	Min. 2 Nm
Direction of motion motor	Selectable with switch 0 (ccw rotation) / 1 (cw rotation)
Manual override	Gear disengagement with push-button, can be locked
Angle of rotation	Max. 95°
Angle of rotation note	can be limited on both sides with adjustable mechanical end stops
Running time motor	35 s / 90°
Sound power level motor	40 dB(A)
Spindle driver	Form fit 8x8 mm
Position indication	Mechanically, pluggable
Protection class IEC/EN	II Protective insulated
Protection class UL	Il Protective insulated
Protection class auxiliary switch IEC/EN	II Protective insulated
Degree of protection IEC/EN	IP54
Degree of protection NEMA/UL	NEMA 2. UL Enclosure Type 2

Safety

Sound power level motor	40 dB(A)	
Spindle driver	Form fit 8x8 mm	
Position indication	Mechanically, pluggable	
Protection class IEC/EN	II Protective insulated	
Protection class UL	II Protective insulated	
Protection class auxiliary switch IEC/EN	II Protective insulated	
Degree of protection IEC/EN	IP54	
Degree of protection NEMA/UL	NEMA 2, UL Enclosure Type 2	
EMC	CE according to 2004/108/EC	
Low voltage directive	CE according to 2006/95/EC	
Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14	
Certification UL	cULus according to UL 60730-1A, UL 60730-2-14 and CAN/CSA E60730-1:02	
Mode of operation	Type 1.B	
Rated impulse voltage supply / control	2.5 kV	
Rated impulse voltage auxiliary switch	2.5 kV	
Control pollution degree	3	
Ambient temperature	-3050°C	
Non-operating temperature	-4080°C	
Ambient humidity	95% r.h., non-condensing	
Maintenance	Maintenance-free	
Weight	0.57 kg	

Weight

Safety notes



• The device must not be used outside the specified field of application, especially not in aircraft or in any other airborne means of transport.

Damper actuator, Open-close, 3-point, AC 230 V, 2 Nm, Running time motor 35 s, For fast running times



Safety notes

- 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.
- 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.
- Cables must not be removed from the device.

Product features

Simple direct mounting Simple direct mounting on the damper spindle with form-fit hollow spindle. For screw

fitting to the application the actuator is supplied with two fastening clips, one on each

short side.

Manual override Manual override with push-button possible (the gear is disengaged for as long as the

button is pressed or remains locked).

High functional reliability The actuator is overload protected, requires no limit switches and automatically stops

when the end stop is reached.

Adjustable angle of rotation Adjustable angle of rotation with mechanical end stops.

Flexible signalization With adjustable auxiliary switch (0 ... 100%)

Description

Accessories

	Description	Туре
Electrical accessories	Auxiliary switch, add-on, 1 x SPDT	S1A
	Auxiliary switch, add-on, 2 x SPDT	S2A
	Auxiliary switch, add-on, 2 x SPDT, grey	S2A GR
	Feedback potentiometer 140 Ohm, add-on	P140A
	Feedback potentiometer 140 Ohm, add-on, grey	P140A GR
	Feedback potentiometer 200 Ohm, add-on	P200A
	Feedback potentiometer 500 Ohm, add-on	P500A
	Feedback potentiometer 500 Ohm, add-on, grey	P500A GR
	Feedback potentiometer 1 kOhm, add-on	P1000A
	Feedback potentiometer 2.8 kOhm, add-on	P2800A
	Feedback potentiometer 2.8 kOhm, add-on, grey	P2800A GR
	Feedback potentiometer 1 kOhm, add-on, grey	P1000A GR
	Feedback potentiometer 5 kOhm, add-on	P5000A
	Feedback potentiometer 5 kOhm, add-on, grey	P5000A GR
	Feedback potentiometer 10 kOhm, add-on	P10000A
	Feedback potentiometer 10 kOhm, add-on, grey	P10000A GR
	Description	Туре
Mechanical accessories	Shaft extension 170 mm, for damper spindles Ø 620 mm	AV6-20
	Spindle clamp for LMA-F, for damper spindles shorter 30 mm	K5A
	Spindle clamp for LMA, clamping range 620 mm	K-ELA
	Spindle clamp for LMA, clamping range 610 mm	K-ELA10
	Spindle clamp for LMA, clamping range 613 mm	K-ELA13
	Spindle clamp for LMA, clamping range 616 mm	K-ELA16
	Universal mounting bracket 180 mm	Z-ARS180
	Form fit insert 8x8 mm, for LMA	ZF8-LMA
-	-	

Typo

Damper actuator, Open-close, 3-point, AC 230 V, 2 Nm, Running time motor 35 s, For fast running times



Accessories

Description	Туре
Form fit insert 10x10 mm, for LMA	ZF10-LMA
Form fit insert 12x12 mm, for LMA	ZF12-LMA
Form fit insert 8x8 mm, with angle of rotation limiter and position indication for LMA	ZFRL8-LMA
Form fit insert 10x10 mm, with angle of rotation limiter and position indication for LMA	ZFRL10-LMA
Form fit insert 12x12 mm, with angle of rotation limiter and position indication for LMA	ZFRL12-LMA
Position indication for LMA, NMA, SMA, GMA	Z-PI

Electrical installation

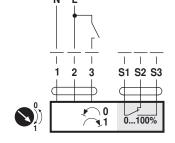


Notes

- · Caution: Power supply voltage!
- Parallel connection of other actuators possible. Observe the performance data.

Wiring diagrams

AC 230 V, open-close



Cable colours:

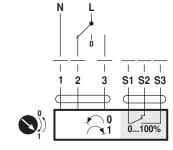
1 = blue

2 = brown

3 = white

S1 = violet

S2 = redS3 = white AC 230 V, 3-point



Cable colours:

1 = blue

2 = brown

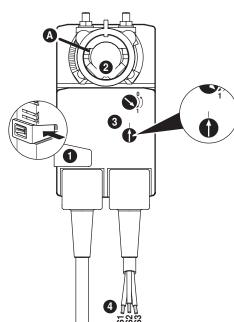
3 = white

S1 = violet

S2 = redS3 = white

Operating controls and indicators

Auxiliary switch settings





Note

Perform settings on the actuator only in deenergised state.

Gear disengagement

Holding button pressed down: Gear is disengaged.

Manual override is possible.

2 Spindle clamp

Turn until edge line (A) displays the desired switching position of the actuator and release button (1).

3 Auxiliary switch
Turn rotary knob until the arrow points to the vertical line.

4 Cable

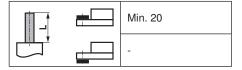
Connect continuity tester to S1 + S2 or to S1 + S3.

If the auxiliary switch should switch in the opposite direction, rotate the auxiliary switch by 180°.



Dimensions [mm]

Spindle length



Dimensional drawings

