

Damper actuator for adjusting dampers in technical building installations

- Air damper size up to approx. 4 m²
- · Nominal torque 20 Nm
- · Nominal voltage AC 230 V
- · Control Open-close, 3-point
- With connecting terminals
- · With integrated auxiliary switch



Technical data Electrical data Nominal voltage AC 230 V Nominal voltage frequency 50/60 Hz AC 85...264 V Nominal voltage range Power consumption in operation 2.5 W Power consumption in rest position 0.6 W Power consumption for wire sizing 6 VA Auxiliary switch 1 x SPDT, 0...100% Switching capacity auxiliary switch 1 mA...3 (0.5 inductive) A, AC 250 V Connection supply / control Terminals 4 mm² (cable Ø 4...10 mm, 3-wire) Connection auxiliary switch Terminals 4 mm² (cable Ø 4...10 mm, 3-wire) Parallel operation Yes (note the performance data) **Functional data** Torque motor Min. 20 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 150 s / 90° Sound power level motor 45 dB(A) Spindle driver Universal spindle clamp reversible 10...20 mm Mechanically, pluggable Position indication Safety 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 Ambient temperature -30...50°C Non-operating temperature -40...80°C Ambient humidity 95% r.h., non-condensing

Safety notes



Weight

Maintenance

Weight approx.

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

0.96 kg

Maintenance-free

Damper actuator, Open-close, 3-point, AC 230 V, 20 Nm, With integrated auxiliary switch



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.

Product features

Simple direct mounting Simple direct mounting on the damper spindle with an universal spindle clamp,

supplied with an anti-rotation device to prevent the actuator from rotating.

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%)

Accessories

	Description	Type
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 GF
	Description	Туре
Mechanical accessories	Actuator arm, for standard spindle clamp (reversible) K-SA	AH-20
	Actuator arm, for one-sided spindle clamp K-ENSA	AH-25
	Shaft extension 250 mm for CrNi (INOX)	AV12-25-I
	Shaft extension 250 mm, for damper spindles Ø 825 mm	AV8-25
	Straight ball joint with M8, suitable for damper crank arms KH8	KG10A
	Angled ball joint with M8, suitable for damper crank arms KH8	KG8
	Damper crank arm, for damper spindles	KH8
	Spindle clamp, one side for NMA, SMA	K-ENSA
	Spindle clamp, one side for SMA	K-ENSA-I
	Spindle clamp, reversible for SMA and NMQ	K-SA



Accessories

Description	Туре
Universal mounting bracket 180 mm	Z-ARS180
Universal mounting bracket 230 mm	Z-ARS230
Angle of rotation limiter, for K-NA	20334-00001
Form fit insert 10x10 mm, for NMA / SMA	ZF10-NSA
Form fit insert 12x12 mm, for NMA / SMA	ZF12-NSA
Form fit insert 15x15 mm	ZF15-NSA
Form fit insert 16x16 mm, for NMA / SMA	ZF16-NSA
Mounting kit for linkage operation, SMA for flat installation	ZG-SMA
Position indication for LMA, NMA, SMA, GMA	Z-PI
Base plate extension from SMA to SM/AM/SMD24R	Z-SMA
Terminal protection IP54	Z-TP
Cable sleeve for Ø 4-6 mm, suitable for strain relief NG	43235-00001
Strain relief bushing (cable sleeve) for Ø 6-8 mm, suitable for strain relief NG	43235-00002
Cable sleeve for Ø 8-10 mm, suitable for strain relief NG	43235-00003

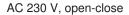
Electrical installation

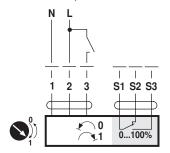


Notes

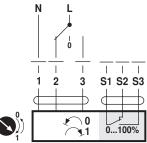
- · Caution: Power supply voltage!
- Parallel connection of other actuators possible. Observe the performance data.

Wiring diagrams



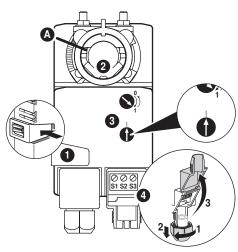






Operating controls and indicators

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 Terminal connection

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



Clamping range

	<u>OI</u>	_	♦1
	1020	≥10	≤20
CrNi (INOX)	1220	≥10	≤20

With utilisation of a round spindle made of CrNi (INOX): \varnothing 12...20 mm

Dimensional drawings

