

Damper actuator for adjusting dampers in technical building installations

- · Air damper size up to approx. 4 m²
- Nominal torque 20 Nm
- Nominal voltage AC/DC 24 V
- Control Open-close, 3-point
- · with integrated feedback potentiometer



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AC/DC 24 V
50/60 Hz
AC 19.228.8 V / DC 19.228.8 V
2 W
0.2 W
4 VA
5 kΩ ±5% 1 W
Cable 1 m, 3 x 0.75 mm ²
Cable 1 m, 3 x 0.75 mm ²
Yes (note the performance data)
Min. 20 Nm
selectable with switch 0 (ccw rotation) / 1 (cw rotation)

Functional data

l orque motor	Min. 20 Nm	
Direction of motion motor	selectable with switch 0 (ccw rotation) / 1 (cw rotation)	
Manual override	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 1020 mm	
Position indication	Mechanically, pluggable	
Protection class IEC/EN	III Safety Extra-Low Voltage (SELV)	
Protection class UL	UL Class 2 Supply	
Degree of protection IEC/EN	IP54	
Degree of protection NEMA/UL	NEMA 2, UL Enclosure Type 2	
EMC	CE according to 2014/30/EU	
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	
Rated impulse voltage supply / control	0.8 kV	
Control pollution degree	3	
Ambient temperature	-3050°C	
Non-operating temperature	-4080°C	

Weight

Safety

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.

1.1 kg

95% r.h., non-condensing

Maintenance-free

- 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
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.

Ambient humidity

Maintenance

Weight

Damper actuator, Open-close, 3-point, AC/DC 24 V, 20 Nm, with integrated feedback potentiometer



Safety notes

- 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

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).

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.

Position feedback U5 With integrated feedback potentiometer position feedback 0 ... 100%.

Accessories

Description	Туре
Auxiliary switch, add-on, 1 x SPDT	S1A
Auxiliary switch, add-on, 2 x SPDT	S2A
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 1 kOhm, add-on, grey	P1000A GR
Feedback potentiometer 2.8 kOhm, add-on	P2800A
•	P2800A GR
Feedback potentiometer 5 kOhm, add-on	P5000A
Feedback potentiometer 5 kOhm, add-on, grey	P5000A GR
	P10000A
Feedback potentiometer 10 kOhm, add-on, grey	P10000A GR
Description	Туре
Actuator arm, for standard spindle clamp (reversible) K-SA	AH-20
Shaft extension 250 mm for CrNi (INOX)	AV12-25-I
Shaft extension 250 mm, for damper spindles Ø 825 mm	AV8-25
Angled ball joint with M8, suitable for damper crank arms KH8	KG8
Straight ball joint with M8, suitable for damper crank arms KH8	KG10A
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
Universal mounting bracket 180 mm	Z-ARS180
Universal mounting bracket 230 mm	Z-ARS230
•	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
	Auxiliary switch, add-on, 1 x SPDT Auxiliary switch, add-on, 2 x SPDT Feedback potentiometer 140 Ohm, add-on Feedback potentiometer 140 Ohm, add-on, grey Feedback potentiometer 200 Ohm, add-on Feedback potentiometer 500 Ohm, add-on Feedback potentiometer 500 Ohm, add-on Feedback potentiometer 1 kOhm, add-on Feedback potentiometer 1 kOhm, add-on Feedback potentiometer 1 kOhm, add-on Feedback potentiometer 2.8 kOhm, add-on Feedback potentiometer 2.8 kOhm, add-on Feedback potentiometer 5 kOhm, add-on Feedback potentiometer 5 kOhm, add-on Feedback potentiometer 10 kOhm, add-on Feedback potentiometer 10 kOhm, add-on, grey Feedback potentiometer 10 kOhm, add-on, grey Feedback potentiometer 10 kOhm, add-on, grey Feedback potentiometer 10 kOhm, add-on seedback potentiometer 10 kOhm, add-on seedback potentiometer 10 kOhm, add-on, grey Description Actuator arm, for standard spindle clamp (reversible) K-SA Shaft extension 250 mm for CrNi (INOX) Shaft extension 250 mm, for damper spindles Ø 825 mm Angled ball joint with M8, suitable for damper crank arms KH8 Straight ball joint with M8, suitable for damper crank arms KH8 Damper crank arm, for damper spindles Spindle clamp, one side for NMA, SMA Spindle clamp, reversible for SMA Spindle clamp, reversible for SMA Spindle clamp, reversible for SMA A Spindle rotation limiter, for K-NA Form fit insert 10x10 mm, for NMA / SMA Form fit insert 10x10 mm, for NMA / SMA



Accessories

Description	Туре
Position indication for LMA, NMA, SMA, GMA	Z-PI
Base plate extension from SMA to SM/AM/SMD24R	Z-SMA

Electrical installation

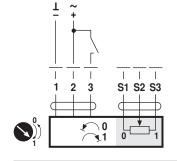


Notes

- · Connection via safety isolating transformer.
- Parallel connection of other actuators possible. Observe the performance data.

Wiring diagrams

AC/DC 24 V, open-close



Cable colours:

1 = black

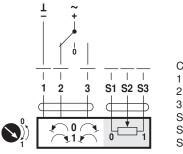
2 = red

3 = white

S1 = violet S2 = red

S3 = white

AC/DC 24 V, 3-point



Cable colours:

1 = black

2 = red

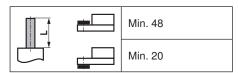
3 = white

S1 = violet S2 = red

S3 = white

Dimensions [mm]

Spindle length



Clamping range

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

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

Dimensional drawings

