

Damper actuator for adjusting dampers in technical building installations

- Air damper size up to approx. 3.2 m²
- Torque motor 16 Nm
- Nominal voltage AC 100...240 V
- Control Open/close, 3-point
- Running time motor 20 s



Technical data

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Nominal voltage	AC 100240 V
Nominal voltage frequency	50/60 Hz
Nominal voltage range	AC 85265 V
Power consumption in operation	4.5 W
Power consumption in rest position	1 W
Power consumption for wire sizing	8 VA
Power consumption for wire sizing note	Imax 4 A @ 5 ms
Connection supply / control	Cable 1 m, 3 x 0.75 mm ²
Parallel operation	Yes (note the performance data)
Torque motor	16 Nm

Functional data

Torque motor	16 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	20 s / 90°
Sound power level, motor	55 dB(A)
Mechanical interface	Universal shaft clamp reversible 1020 mm
Position indication	Mechanically, pluggable
Protection class IEC/EN	II reinforced insulation

Safety data

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Protection class IEC/EN	II, reinforced insulation	
Protection class UL	II, reinforced insulation	
Degree of protection IEC/EN	IP54	
Degree of protection NEMA/UL	NEMA 2	
Enclosure	UL Enclosure Type 2	
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	
UL Approval	cULus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1	
	The UL marking on the actuator depends on	
	the production site, the device is UL-compliant	
	in any case	
Mode of operation	Type 1	
Rated impulse voltage supply / control	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	



Technical data sheet SMD230A

Weight Weight 1.0 kg

Safety notes



- This device has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application, especially 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 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 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 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

Simple direct mounting Simple of

Simple direct mounting on the damper shaft with a universal shaft clamp, supplied with an anti-

rotation device to prevent the actuator from rotating.

Manual override

Manual override with push-button possible (the gear train 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.

Accessories

Electrical accesso	nies
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Description	Туре
Auxiliary switch 1 x SPDT add-on	S1A
Auxiliary switch 2 x SPDT add-on	S2A
Feedback potentiometer 140 Ω add-on	P140A
Feedback potentiometer 200 Ω add-on	P200A
Feedback potentiometer 500 Ω add-on	P500A
Feedback potentiometer 1 $k\Omega$ add-on	P1000A
Feedback potentiometer 2.8 $k\Omega$ add-on	P2800A
Feedback potentiometer 5 k Ω add-on	P5000A
Feedback potentiometer 10 k Ω add-on	P10000A



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Mechanical accessories

Description	Туре
Actuator arm for standard shaft clamp (reversible)	AH-20
Shaft extension 240 mm Ø20 mm for damper shaft Ø 1221 mm CrNi	AV12-25-I
Shaft extension 240 mm Ø20 mm for damper shaft Ø 822.7 mm	AV8-25
Ball joint suitable for damper crank arm KH8, Multipack 10 pcs.	KG8
Ball joint suitable for damper crank arm KH8 / KH10, Multipack 10 pcs.	KG10A
Damper crank arm Slot width 8.2 mm, clamping range Ø1018 mm	KH8
Shaft clamp one-sided, clamping range Ø826 mm, Multipack 20 pcs.	K-ENSA
Shaft clamp one-sided, clamping range Ø1226 mm, for CrNi shaft	K-ENSA-I
(INOX), Multipack 20 pcs.	
Shaft clamp reversible, clamping range Ø1020 mm	K-SA
Anti-rotation mechanism 230 mm, Multipack 20 pcs.	Z-ARS230
Form fit insert 10x10 mm, Multipack 20 pcs.	ZF10-NSA
Form fit insert 12x12 mm, Multipack 20 pcs.	ZF12-NSA
Form fit insert 15x15 mm, Multipack 20 pcs.	ZF15-NSA
Form fit insert 16x16 mm, Multipack 20 pcs.	ZF16-NSA
Mounting kit for linkage operation for flat installation	ZG-SMA
Position indicator, Multipack 20 pcs.	Z-PI
Base plate extension for SMA to SM/AM/SMD24R	Z-SMA

Electrical installation

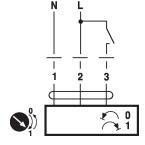


Caution: Power supply voltage!

Parallel connection of other actuators possible. Observe the performance data.

Wiring diagrams

AC 230 V, open/close

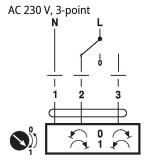


Cable colours:

1 = blue

2 = brown

3 = white



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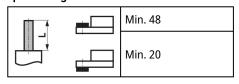
1 = blue

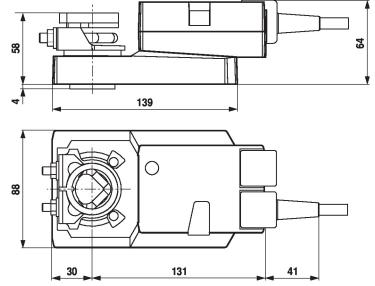
2 = brown

3 = white

Dimensions

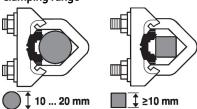
Spindle length

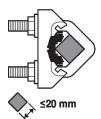






Clamping range





When using a round shaft made of CrNi (INOX): Ø 12...20 mm