

Damper actuator for adjusting dampers in technical building installations

- Air damper size up to approx. 1 m²
- Torque motor 5 Nm
- Nominal voltage AC 100...240 V
- Control Open/close, 3-point
- Running time motor 35 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	2 W
Power consumption in rest position	0.5 W
Power consumption for wire sizing	4 VA
Connection supply / control	Cable 1 m, 3 x 0.75 mm ²
Parallel operation	Yes (note the performance data)

Functional data

Torque motor	5 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	35 s / 90°
Sound power level, motor	45 dB(A)
Mechanical interface	Universal shaft clamp 620 mm
Position indication	Mechanical, pluggable
Protection class IFC/FN	II reinforced insulation

Safety data

Position indication	Mechanical, pluggable
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
Type of action	Type 1
Rated impulse voltage supply / control	2.5 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



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Weight Weight 0.41 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 Sim

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

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 Ω add-on P1000A Feedback potentiometer 2.8 k Ω add-on P2800A Feedback potentiometer 5 k Ω add-on P5000A Feedback potentiometer 10 k Ω add-on P10000A	Description	Туре
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 Ω add-on P1000A Feedback potentiometer 2.8 k Ω add-on P2800A Feedback potentiometer 5 k Ω add-on P5000A	Auxiliary switch 1 x SPDT add-on	S1A
Feedback potentiometer 200 Ω add-onP200AFeedback potentiometer 500 Ω add-onP500AFeedback potentiometer 1 k Ω add-onP1000AFeedback potentiometer 2.8 k Ω add-onP2800AFeedback potentiometer 5 k Ω add-onP5000A	Auxiliary switch 2 x SPDT add-on	S2A
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Feedback potentiometer 1 k Ω add-on P1000A Feedback potentiometer 2.8 k Ω add-on P2800A Feedback potentiometer 5 k Ω add-on P5000A	Feedback potentiometer 200 Ω add-on	P200A
Feedback potentiometer 2.8 k Ω add-on P2800A Feedback potentiometer 5 k Ω add-on P5000A	Feedback potentiometer 500 Ω add-on	P500A
Feedback potentiometer 5 k Ω add-on P5000A	Feedback potentiometer 1 k Ω add-on	P1000A
'	Feedback potentiometer 2.8 kΩ add-on	P2800A
Feedback potentiometer 10 k Ω add-on P10000A	Feedback potentiometer 5 k Ω add-on	P5000A
	Feedback potentiometer 10 k Ω add-on	P10000A



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Mechanical accessories

Description	Туре
Shaft extension 170 mm Ø10 mm for damper shaft Ø 616 mm	AV6-20
Shaft clamp one-sided, clamping range Ø620 mm, Multipack 20 pcs.	K-ELA
Shaft clamp one-sided, clamping range Ø610 mm, Multipack 20 pcs.	K-ELA10
Shaft clamp one-sided, clamping range Ø613 mm, Multipack 20 pcs.	K-ELA13
Shaft clamp one-sided, clamping range Ø616 mm, Multipack 20 pcs.	K-ELA16
Anti-rotation mechanism 180 mm, Multipack 20 pcs.	Z-ARS180
Form fit insert 8x8 mm, Multipack 20 pcs.	ZF8-LMA
Form fit insert 10x10 mm, Multipack 20 pcs.	ZF10-LMA
Form fit insert 12x12 mm, Multipack 20 pcs.	ZF12-LMA
Form fit insert 8x8 mm, with angle of rotation limiter and position indication, Multipack 20 pcs.	ZFRL8-LMA
Form fit insert 10x10 mm, with angle of rotation limiter and position indication, Multipack 20 pcs.	ZFRL10-LMA
Form fit insert 12x12 mm, with angle of rotation limiter and position indication, Multipack 20 pcs.	ZFRL12-LMA
Position indicator, Multipack 20 pcs.	Z-PI

Electrical installation



Caution: Power supply voltage!

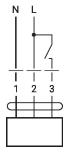
Parallel connection of other actuators possible. Observe the performance data.

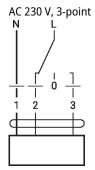
Wire colours:

- 1 = blue
- 2 = brown
- 3 = white

Wiring diagrams

AC 230 V, open/close

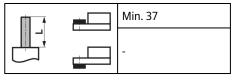




1	2	3		
		/		1
	_~	~	>	1
	/	_/_	stop	stop
_~	/	7		

Dimensions





Clamping range

