

Technical data sheet

Damper actuator for adjusting dampers in technical building installations

- Air damper size up to approx. 2 m²
- Torque motor 10 Nm
- Nominal voltage AC 100...240 V
- Control Open/close, 3-point
- PWIS/LABS-compliant according to VDMA 24364



Technical data

Electrical data	Nominal voltage	AC 100240 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 85265 V
	Power consumption in operation	2.5 W
	Power consumption in rest position	0.6 W
	Power consumption for wire sizing	5.5 VA
	Connection supply / control	Cable 1 m, 3x 0.75 mm ²
	Parallel operation	Yes (note the performance data)
Functional data	Torque motor	10 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	35 dB(A)
	Mechanical interface	Universal shaft clamp 826.7 mm
	Position indication	Mechanical, pluggable
Safety data	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
	PWIS/LABS-conformity	According to VDMA 24364 (test class C1) Approved for use in zone II Cleaning with low-pressure plasma treatment



Safety data	Hygiene test	According to VDI 6022 Part 1 / SWKI VA 104-01, cleanable and disinfectable, low emission
	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	-1040°C [14104°F]
	Servicing	maintenance-free
Weight	Weight	0.72 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 with 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 and the design, as well as 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.
- PWIS/LABS-conformity is guaranteed as long as the packaging is unopened. Once the PWIS/ LABS-compliant packaging has been opened, the proper handling of the products is the responsibility of the customer. PWIS/LABS-conformity of unopened products is guaranteed for a period of one year after cleaning, provided they are handled properly, professionally and cleanly. Proof of proper, professional and clean handling is the responsibility of the purchaser. Ensure that the required cleanliness of the products is maintained. Do not touch the products with bare hands. Belimo accepts no liability for the consequences resulting from the contamination of a product caused by the customer.

Product features

	Simple direct mounting Simple direct mounting on the damper shaft with a universal shaft clamp, supplied anti-rotation device to prevent the actuator from rotating.		າp, supplied with an
	Manual override Manual override with push-button possible (the gear train is disengaged for as long a button is pressed or remains locked).		d for as long as the
	Adjustable angle of rotation Adjustable angle of rotation with mechanical end stops.		
ories			
	Electrical accessories	Description	Туре

Electrical accessories	Description	Туре
	Auxiliary switch 1x SPDT add-on	S1A
	Auxiliary switch 2x SPDT add-on	S2A

Accesso



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	Description	Туре
	Feedback potentiometer 140 Ω add-on	P140A
	Feedback potentiometer 1 k Ω add-on	P1000A
	Feedback potentiometer 10 k Ω add-on	P10000A
Mechanical accessories	Description	Туре
	Actuator arm for standard shaft clamp (one-sided)	AH-25
	Shaft extension 240 mm ø20 mm for damper shaft ø822.7 mm	AV8-25
	Ball joint suitable for damper crank arm KH8	KG8
	Ball joint suitable for damper crank arm KH8 / KH10	KG10A
	Damper crank arm Slot width 8.2 mm, clamping range ø1018 mm	KH8
	Shaft clamp one-sided, clamping range ø826 mm with insert,	K-ENMA
	Multipack 20 pcs.	
	Shaft clamp one-sided, clamping range ø826 mm, Multipack 20 pcs.	K-ENSA
	Shaft clamp reversible, clamping range ø820 mm	K-NA
	Form fit insert 8x8 mm, Multipack 20 pcs.	ZF8-NMA
	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-NMA
	Anti-rotation mechanism 180 mm, Multipack 20 pcs.	Z-ARS180
	Baseplate extension for NMA to NM	Z-NMA
	Position indicator, Multipack 20 pcs.	Z-PI

Electrical installation

Caution: Power supply voltage!

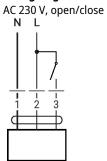


Parallel connection of other actuators possible. Observe the performance data.

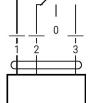
Wire colours:

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

Wiring diagrams



AC 230 V, 3-point Ν L



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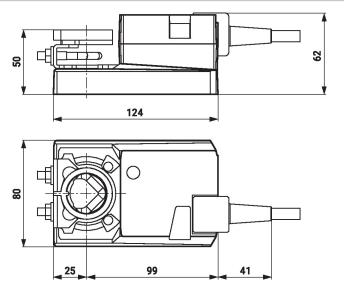
Dimensions

Spindle length

	Min. 40	
	Min. 20 mm [0.75"]	

Clamping range

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	826.7	≥8	≤26.7
*	820	≥8	≤20



*Option: Shaft clamp mounted below (accessories K-NA needed)