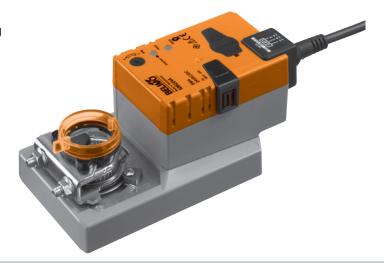


Technical data sheet

Damper actuator for operating air control dampers in ventilation and air-conditioning systems for building services installations • For air dampers up to approx. 1.5 m²

- Torque 8 Nm
- Nominal voltage AC/DC 24 V
- Control: Open-close (not made for 3-point applications) • Running time 4 s

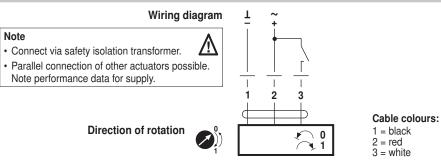


Technical data

Electrical data	Nominal voltage	AC 24 V, 50/60 Hz / DC 24 V
	Nominal voltage range	AC 19.2 28.8 V / DC 21.6 28.8 V
	Power consumption In operation	12 W @ nominal torque
	At rest	1.5 W
	For wire sizing	18 VA (I max. 20 A @ 5 ms)
	Connection	Cable 1 m, 3 x 0.75 mm ²
Functional data	Torque (nominal torque)	Min. 8 Nm @ nominal voltage
	Direction of rotation	Reversible with switch 0 🍋 resp. 1 🔿
	Manual override	Gearing latch disengaged with pushbutton, can be locked
	Angle of rotation	Max. 95°⊄, can be limited at both ends with adjustable mechanical end stops
	Angle of rotation limiting	min. 30°∢
	Running time	4 s / 90°∢
	Automatic adjustment of operating range to match the mechanical angle of rotation	Manual triggering of the adaption by pressing the «Adaption» button
	Sound power level	52 dB (A)
	Position indication	Mechanical, pluggable
	Negative torque	≤50% from nominal torque (Caution: can only be used with restrictions. Please contact your Belimo representative.)
Safety	Protection class	III Safety extra-low voltage / UL Class 2 Supply
·	Degree of protection	IP54 in any mounting position NEMA 2, UL Enclosure Type 2
	EMC	CE according to 2004/108/EC
	Certification	CULus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02 Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14
	Mode of operation	Type 1 (EN 60730-1)
	Rated impulse voltage	0.8 kV (EN 60730-1)
	Control pollution degree	3 (EN 60730-1)
	Ambient temperature	$-30 \dots +40^{\circ}C$ (no restrictions)
		+40 +50°C (Caution: can only be used with restrictions. Please contact your Belimo
		representative.)
	Non-operating temperature	-40 +80°C
	Ambient humidity	95% r.H., non-condensating (EN 60730-1)
	Maintenance	Maintenance-free
Dimensions / Weight	Dimensions	See «Dimensions» on page 3
•	Weight	Approx. 970 g



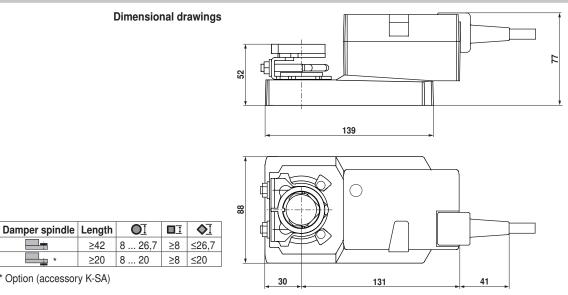
Safety notes			
Ŕ	 The actuator is not allowed to be used outside the specified fiele aircraft or in any other airborne means of transport. It may only be installed by suitably trained personnel. Any legal issued by authorities must be observed during assembly. The device may only be opened at the manufacturer's site. It do can be replaced or repaired by the user. The cable must not be removed from the device. Self adaptation is necessary when the system is commissioned the angle (press the adaptation push-button) When calculating the required torque, the specifications supplimanufacturers (cross section, design, installation site), and the observed. The device contains electrical and electronic components and of as household refuse. All locally valid regulations and required 	Il regulations or regulations oes not contain any parts that d and after each adjustment of ied by the damper e air flow conditions must be is not allowed to be disposed	
Product features			
Simple direct mounting	Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap 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. A minimum permissible angle of rotation of $30^{\circ} \triangleleft$ must be allowed for.		
High functional reliability	The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.		
Home position	When the supply voltage is switched on for the first time, i.e. at commissioning or after pressing the «gear disengagement» switch, the actuator moves to the home position.		
	Pos. Direction of rotation Home position		
	Y = 0		
	Y = 0 $Y = 0$ Right stop		
	The actuator then moves into the position defined by the control s	ignal.	
Accessories			
	Description	Data sheet	
Electrical accessories	Auxiliary switch SA	T2 - SA	
	Feedback potentiometer PA.	T2 - PA	
Mechanical accessories	Various accessories (clamps, shaft extensions etc.)	T2 - Z-SMA	
Electrical installation			



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Dimensions [mm]



Operating controls and indicators



1 Direction of rotation switch

Switching over: Direction of rotation changes

(2) Push-button and green LED display

Off:	No voltage supply or fault
-	No vollage supply of fault
On:	In operation
Proce button:	Switches on angle of rotation adapt

Switches on angle of rotation adaptation followed by standard operation Press button:

(3) Push-button and yellow LED display

	, , ,
Off:	Standard operation
Dn:	Adaptation or synchronising process active
ress button:	No function
Dn:	Adaptation or synchronising process activ

(4) Gear disengagement switch

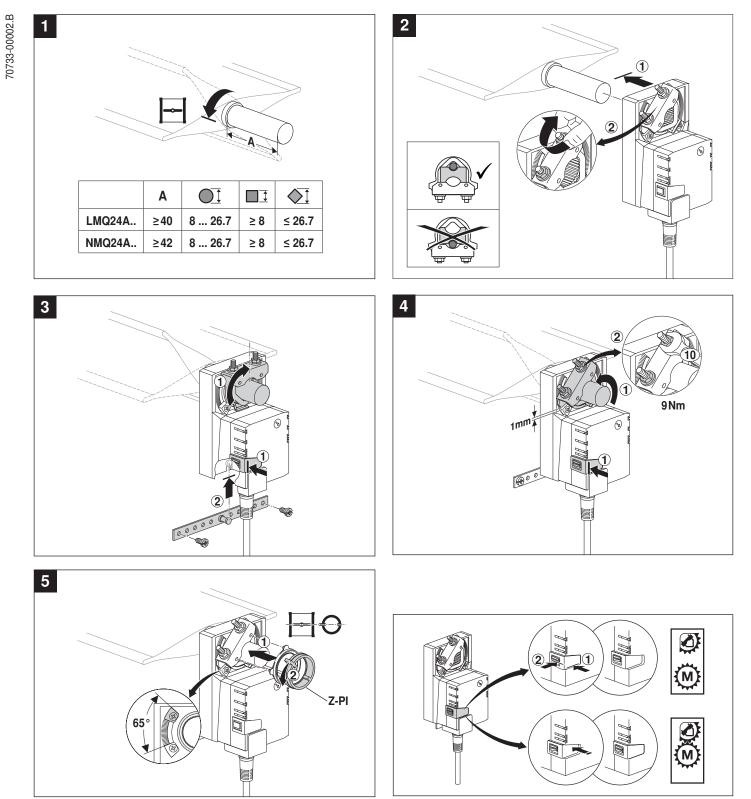
Press button: Gear disengaged, motor stops, manual override possible Release button: Gear engaged, synchronisation starts, followed by standard operation

Check voltage supply connection

- (2) Off and (3) On a)
- Check the supply connections. Possibly \perp and $\widetilde{+}$ are swapped over. (2) Blinking and (3) Blinking b)

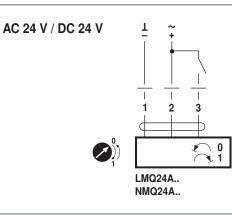
BELIMO

LMQ24A.. / NMQ24A..





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AC 24 V / DC 24 V

