Damper actuator for adjusting dampers in technical building installations

- Air damper size up to approx. 1 m²
- Torque motor 5 Nm
- Nominal voltage AC/DC 24 V
- Control Open/close, 3-point
- Mechanical interface Form fit 8x8 mm



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Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.228.8 V / DC 19.228.8 V
	Power consumption in operation	1 W
	Power consumption in rest position	0.2 W
	Power consumption for wire sizing	1.5 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	150 s / 90°
	Sound power level, motor	35 dB(A)
	Mechanical interface	Form fit 8x8 mm
	Position indication	Mechanical, pluggable
Safety data	Protection class IEC/EN	III, Safety Extra-Low Voltage (SELV)
	Power source UL	Class 2 Supply
	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
	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	0.8 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
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.
- 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.

Technical data sheet

- 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 direct mounting on the damper shaft with form-fit hollow shaft. For screw fitting to the application the actuator is supplied with two fastening clips, one on each short side.

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

Electrical accessories

The actuator is overload protected, requires no limit switches and automatically stops when the

Type

end stop is reached.

Description

Accessories

Licea icai accessories	Description	1390	
	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 Ω add-on	P2800A	
	Feedback potentiometer 5 k Ω add-on	P5000A	
	Feedback potentiometer 10 k Ω add-on	P10000A	
Mechanical accessories	Description	Туре	
	Shaft extension 170 mm Ø10 mm for damper shaft Ø 616 mm	AV6-20	
	Shaft clamp, for damper shafts L 1330 mm, clamping range Ø812 mm,	K5A	
	incl. anti-rotation mechanism 180 mm and 2 screws		
	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



Supply from isolating transformer.

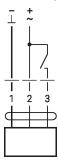
Parallel connection of other actuators possible. Observe the performance data.

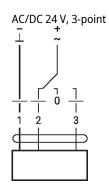
Wire colours:

- 1 = black
- 2 = red
- 3 = white

Wiring diagrams

AC/DC 24 V, open/close

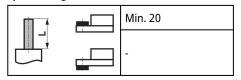


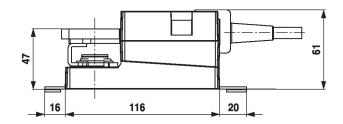


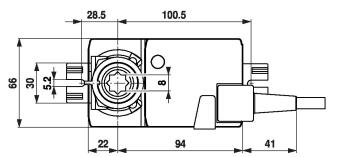
1	2	3		
	~	_		5
_~	~	~	((1)
_~	_/_	_/_	stop	stop
~	_/_	7	>	(1)

Dimensions

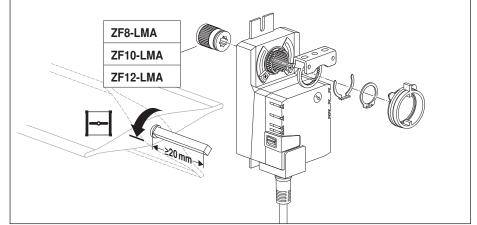
Spindle length

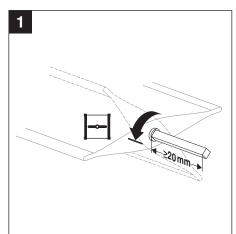


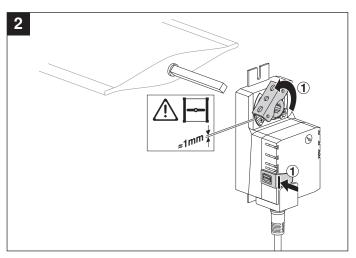


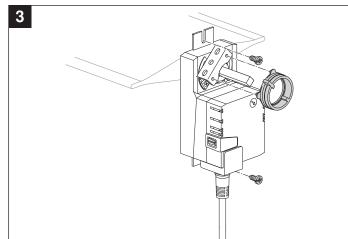


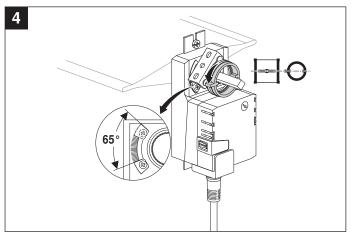


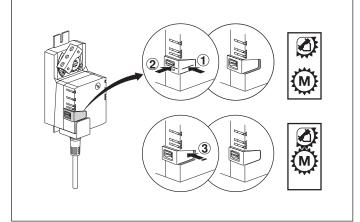






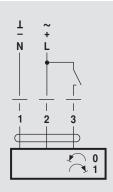


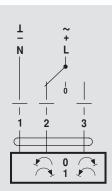










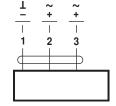


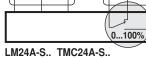
S1 S2 S3

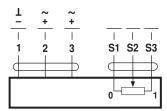


AC 24 V / DC 24 V

DC 48 ... 110 V (LM72A..)





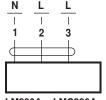


LM24A.. LMC24A.. LM72A.. TMC24A..

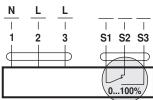
LM72A-S..

LM24AP5..

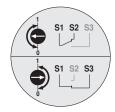
AC 100 ... 240 V





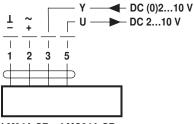


LM230A-S.. TMC230A-S..

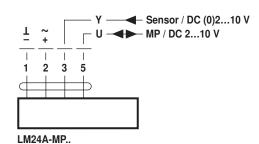




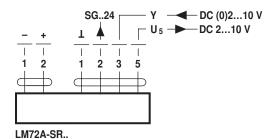
AC 24 V / DC 24 V



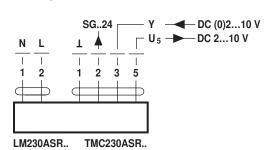
LM24A-SR.. LMC24A-SR.. LM24A-MF.. TMC24A-SR..



DC 48 ... 110 V (LM72A-SR..)



AC 100 ... 240 V 🥂



SALES CONTACT



www.airmax-hvac.com



080-614-4944, 063-268-8080



@airmax (Line Official)



windcontrol.info@gmail.com



Address
เลขที่ 56/392 หมู่ที่ 12
ตำบลศีรษะจรเข้น้อย
อำเภอบางเสาธง
จังหวัดสมุทรปราการ
10540

