

Modulating 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 modulating 2...10 V
- Position feedback 2...10 V



Technical data

ectrical	

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	1 W	
Power consumption for wire sizing	4 VA	
Connection supply	Cable 1 m, 2 x 0.75 mm ²	
Connection control	Cable 1 m, 4 x 0.75 mm ²	
Parallel operation	Yes (note the performance data)	
Torque motor	5 Nm	
O ''	2 4014	

Functional data

Torque motor	5 Nm	
Operating range Y	210 V	
Input Impedance	100 kΩ	
Position feedback U	210 V	
Position feedback U note	Max. 1 mA	
Auxiliary supply	DC 24 V ±30%, max. 10 mA	
Position accuracy	±5%	
Direction of motion motor	selectable with switch 0/1	
Direction of motion note	Y = 0 V: At switch position 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 620 mm	
Position indication	Mechanically, pluggable	
Protection class IEC/EN	II, reinforced insulation	

Safety data

Position indication	Mechanically, 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	



	recriffical data sfieet	LIVIZSUASK
Safety data	Mode of operation	Type 1
	Rated impulse voltage supply	2.5 kV
	Rated impulse voltage 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	0.57 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

Mode of operation The actuator is connected with a standard control signal of 0...10 V and drives to the position

defined by the control signal. Measuring voltage U serves for the electrical display of the

damper position 0...100% and as control signal for other actuators.

Simple direct mounting 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 accessories	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 Ω add-on	P2800A
	Feedback potentiometer 5 k Ω add-on	P5000A
	Feedback potentiometer 10 k Ω add-on	P10000A
	Signal converter voltage/current 100 kΩ Supply AC/DC 24 V	Z-UIC
	Positioner for wall mounting	SGA24
	Positioner for built-in mounting	SGE24
	Positioner for front-panel mounting	SGF24
	Positioner for wall mounting	CRP24-B1
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

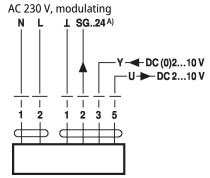
Electrical installation



Caution: Power supply voltage!

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

Wiring diagrams



A) Auxiliary supply only for positioner SG..24

Cable colours:

1 = blue

2 = brown

1 = black

2 = red

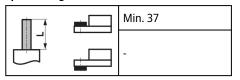
3 = white

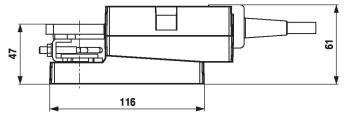
5 = orange



Dimensions

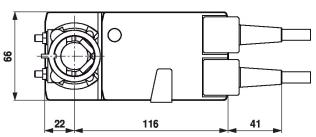
Spindle length



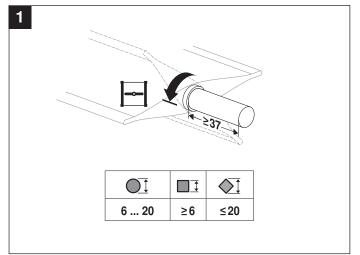


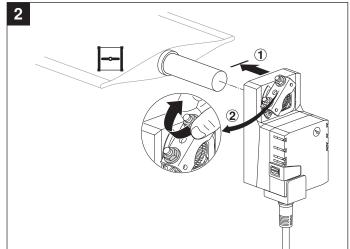
Clamping range

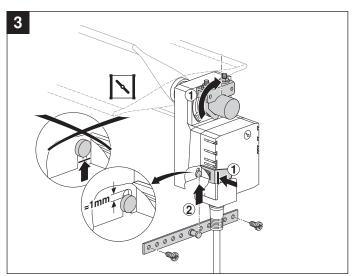
OI	1	♦ I
620	≥6	≤20

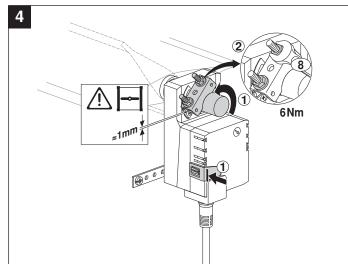


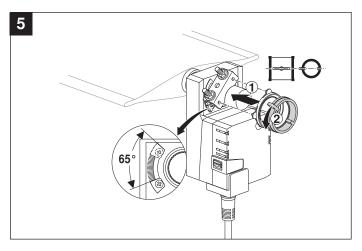


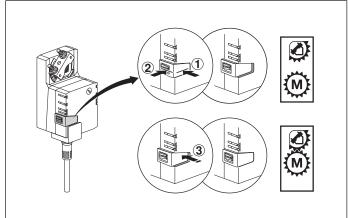






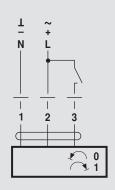


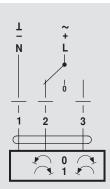








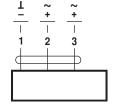


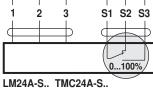


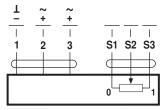


AC 24 V / DC 24 V

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





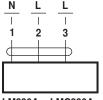


LM24A.. LMC24A.. LM72A.. TMC24A..

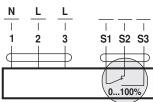
LM24A-S.. TMC24A-LM72A-S..

LM24AP5..

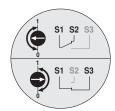
AC 100 ... 240 V





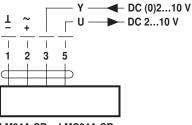


LM230A-S.. TMC230A-S..

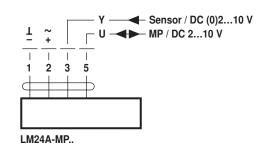




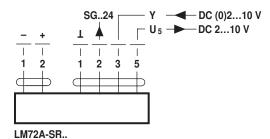
AC 24 V / DC 24 V



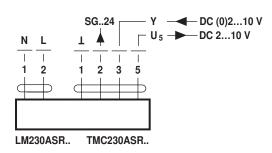
LM24A-SR.. LMC24A-SR.. LM24A-MF.. TMC24A-SR..

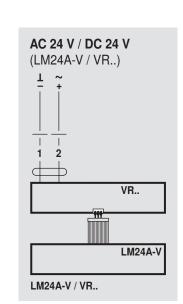






AC 100 ... 240 V 🥂





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

