

Damper actuator for operating air control dampers in ventilation and air-conditioning systems for building services installations

- For air control dampers up to approx. 1 m<sup>2</sup>
- Torque 5 Nm
- · Nominal voltage AC 100 ... 240 V
- Control: modulating DC 0 ... 10 V, position feedback DC 2 ... 10 V



Technische Daten		
Electrical data	Nominal voltage	AC 100 240 V, 50/60 Hz
	Nominal voltage range	AC 85 265 V
	Power consumption In operation	1.8 W @ nominal torque
	At rest	1 W
	For wire sizing	4 VA
	Connection Power supply	Cable 1 m, 2 x 0.75 mm <sup>2</sup>
	Signals	Cable 1 m, 4 x 0.75 mm <sup>2</sup>
Functional data	Torque (nominal torque)	Min. 5 Nm @ nominal voltage
	Control Control signal Y	DC 0 10 V, typical input impedance 100 $k\Omega$
	Working range	DC 2 10 V
	Position feedback (Measuring voltage)	DC 2 10 V, max. 1 mA
	Position accuracy	±5%
	Direction of rotation	Reversible with switch 0 / 1
	Direction of rotation at Y = 0 V	at switch position 0 🖍 resp. 1 🔿
	Manual override	Gearing latch disengaged with pushbutton,
	Analo of votation	self-resetting
	Angle of rotation	Max. 95°  , limited on both sides by means of adjustable, mechanical end stops
	Dunning time	150 s
	Running time	
	Sound power level Position indication	Max. 35 dB (A)
		Mechanical, pluggable
Safety	Protection class	II Totally insulated $\square$
	Degree of protection	IP54 in any mounting position
	EMC	CE according to 89/336/EEC
	Low voltage directive	CE according to 73/23/EWG
	Mode of operation	Type 1 (to EN 60730-1)
	Ambient temperature range	−30 +50°C
	Non-operating temperature	−40 +80°C
	Ambient humidity range	95% r.H., non-condensating (EN 60730-1)
	Maintenance	Maintenance-free
Dimensions / Weight	Dimensions	See «Dimensions» on page 2
ŭ	Weight	Approx. 700 g

### Safety notes



- The damper actuator is not allowed to be used outside the specified field of application, especially in aircraft or any other form of air transport.
- · Caution: Power supply voltage!
- Assembly must be carried out by trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- 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.
- The cable must not be removed from the device.
- When calculating the required torque, the specifications supplied by the damper manufacturers (cross section, design, installation site), and the air flow conditions must be observed.
- The device contains electrical and electronic components and is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.



### **Product features**

Mode of operation The actuator is controlled by means of a standard control signal DC 0 ... 10 V. It opens to the

position dictated by this signal. The measuring voltage U allows the damper position (0 ... 100%)

to be electrically indicated and serves as a follow-up control signal for other actuators.

Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with Simple direct mounting

an anti-rotation strap to prevent the actuator from rotating.

Manual override Manual operation is possible with the self-resetting pushbutton (the gearing latch remains

disengaged as long as the pushbutton is pressed).

Adjustable angle of rotation Adjustable angle of rotation with mechanical end stops.

The actuator is overload-proof, requires no limit switches and automatically stops when the High functional reliability

end stop is reached.

### **Accessories**

	Description	Data sheet
Electrical accessories	Auxiliary switch SA	T2 - SA
	Feedback potentiometer PA	T2 - PA
	Positioner SG24	T2 - SG24
Mechanical accessories	Shaft extensions AV6-20	T2 - 7-I M A

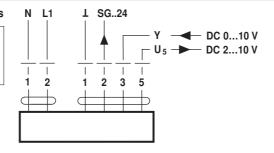
### **Electrical installation**

### Wiring diagrams

#### Notes

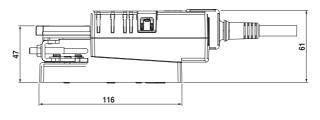
• Caution: Power supply voltage !

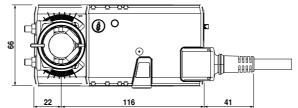
· Other actuators can be connected in parallel. Please note the performance data.



## **Dimensions** [mm]

# **Dimensional drawings**

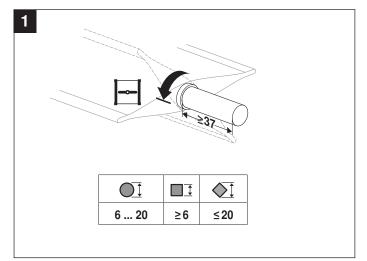


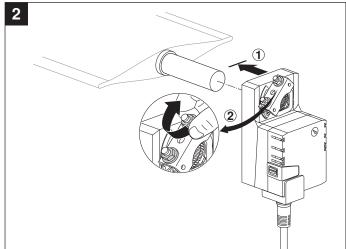


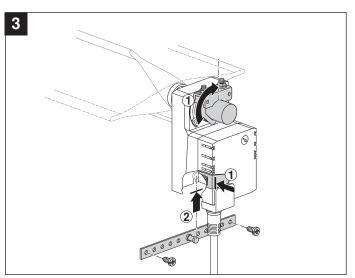
Damper spindle	Length	010
	min 37	6 20

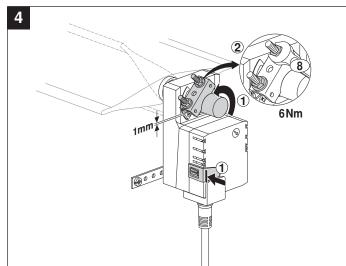


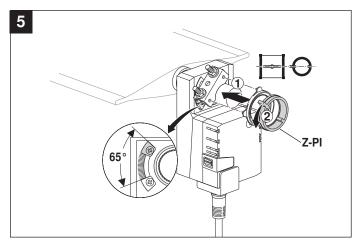


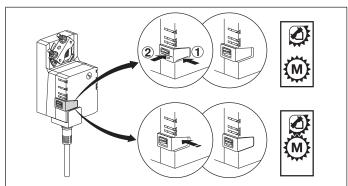






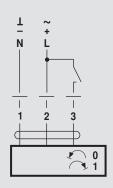


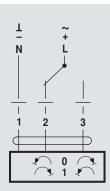








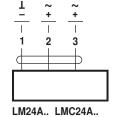


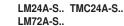


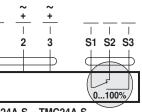


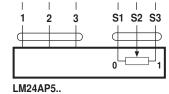
AC 24 V / DC 24 V  $\,$ 

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



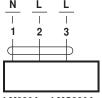




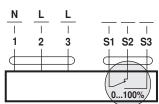


LM72A.. TMC24A..

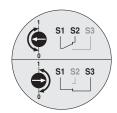
AC 100 ... 240 V



LM230A.. LMC230A.. TMC230A..

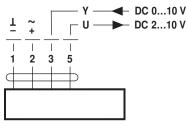


LM230A-S.. TMC230A-S..

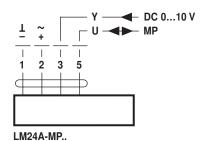


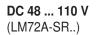


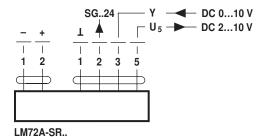
AC 24 V / DC 24 V



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







AC 100 ... 240 V

