

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

- For air control dampers up to approx. 2 m<sup>2</sup>
- Torque 10 Nm
- Nominal voltage AC/DC 24 V
- · Control: Open-close or 3-point



Technical data				
Electrical data	Nominal voltage		AC 24 V, 50/60 Hz DC 24 V	
	Nominal voltage range		AC/DC 19.2 28.8 V	
	Power consumption	In operation	1.5 W @ nominal torque	
		At rest	0.2 W	
		For wire sizing	4 VA	
	Connection		Terminals 4 mm <sup>2</sup> (Cable Ø 6 8 mm, three-core)	
Functional data	Torque (nominal torque)		Min. 10 Nm @ nominal voltage	
	Direction of rotation		Reversible with switch 0 🗸 or 1 🥕	
	Manual override		Gearing latch disengaged with pushbutton, detentable	
	Angle of rotation		Max. 95°	
			by means of adjustable, mechanical end stops	
	Running time		150 s / 90°⊲	
	Sound power level		Max. 35 dB (A)	
	Position indication		Mechanical, pluggable	
Safety	Protection class		III Safety extra-low voltage	
	Degree of protection		IP54 in any mounting position	
	EMC		CE according 89/336/EEC	
	Mode of operation		Type 1 (to EN 60730-1)	
	Rated impulse voltage		0.8 kV (to EN 60730-1)	
	Control Pollution Degree		3 (to EN 60730-1)	
	Ambient temperature range Non-operating temperature		−30 +50°C	
			−40 +80°C	
	Ambient humidity range		95% r.H., non-condensating (to EN 60730-1)	
	Maintenance		Maintenance-free	
Dimensions / Weight	Dimensions		See «Dimensions» on page 2	
	Weight		Approx. 750 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.
- 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.
- 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.

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# **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 operation is possible with the pushbutton (the gearing latch remains disengaged as long

as the pushbutton is pressed or detented).

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

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

end stop is reached.

### **Accessories**

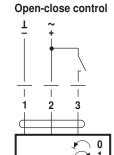
	Description	Data sheet
Electrical accessories	Auxiliary switch SA	T2 - SA
	Feedback potentiometer PA	T2 - PA
Mechanical accessories	Various accessories (clamps, shaft extensions etc.)	T2 - Z-NMA

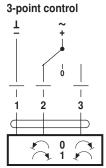
#### **Electrical installation**

### Wiring diagrams

#### Notes

- Connection via safety isolating transformer.
- Other actuators can be connected in parallel. Please note the performance data.



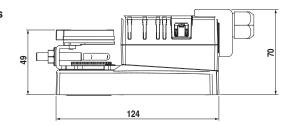


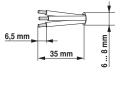
Direction of rotation



# **Dimensions [mm]**

## **Dimensional drawings**

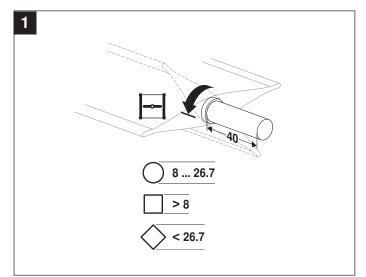


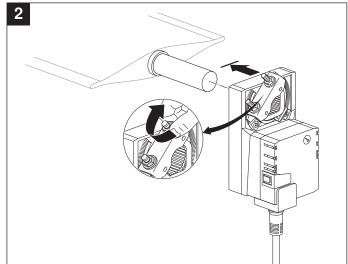


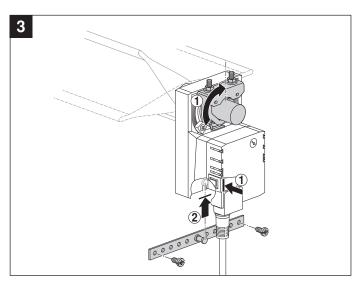


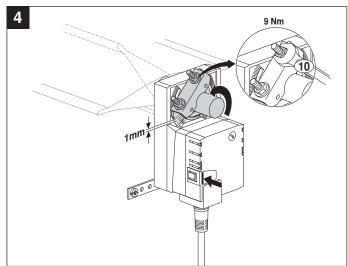
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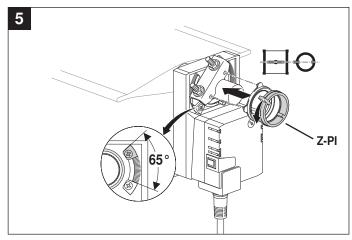


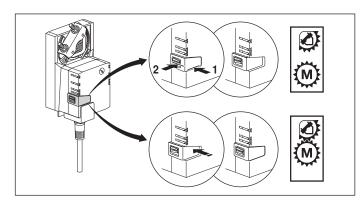






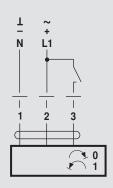


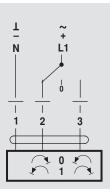








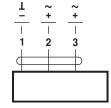


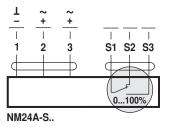


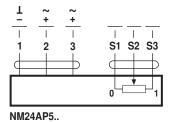


AC 24 V / DC 24 V

DC 48 ... 110 V (NM72A..)

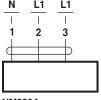


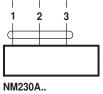


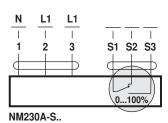


NM24A.. NM72A..

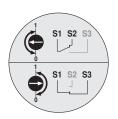
AC 100 ... 240 V





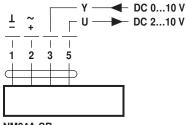


— DC 2...10 V

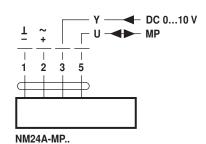


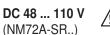


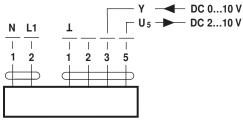
AC 24 V / DC 24 V



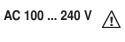


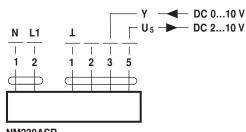












AC 24 V / DC 24 V (NM24A-V / VR..) <u>+</u> ~ VR.. 999 NM24A-V NM230A-V / VR..