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BELIMO

NM230A damper actuator

NM230A

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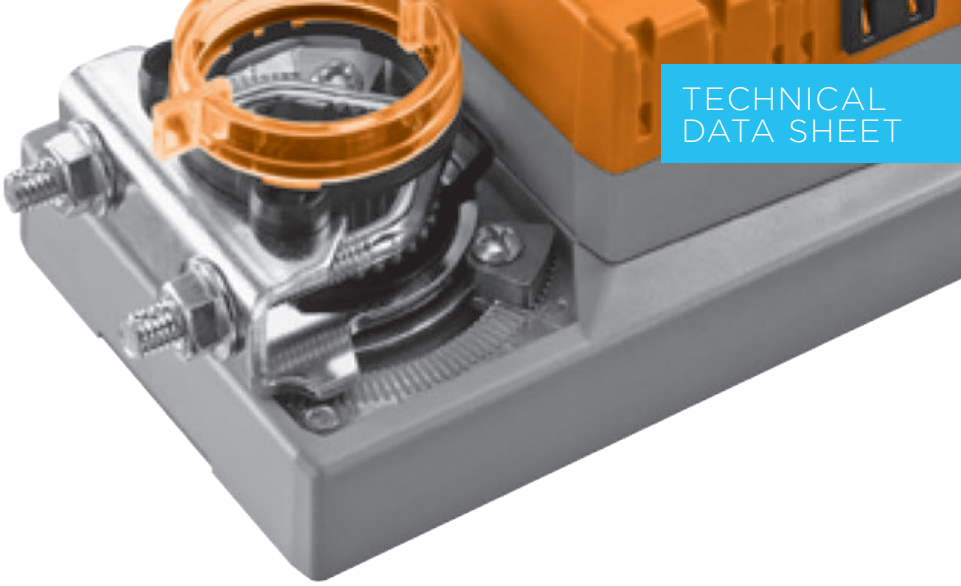
TECHNICAL DATA SHEET



BELIMO

NM230A DAMPER ACTUATOR

Overview

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 m². Torque 10 Nm. Nominal voltage AC 100 ... 240 V. Control: Open-close or 3-point.

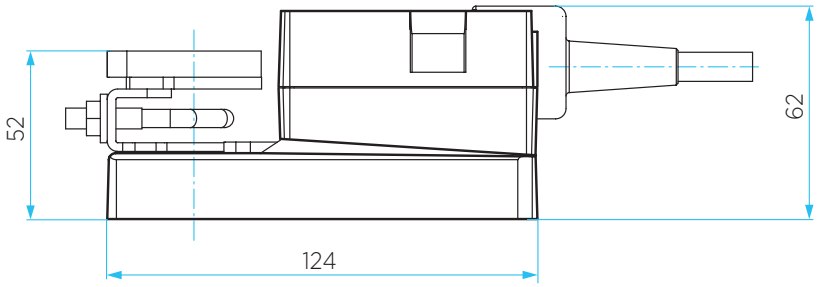
Technical Data

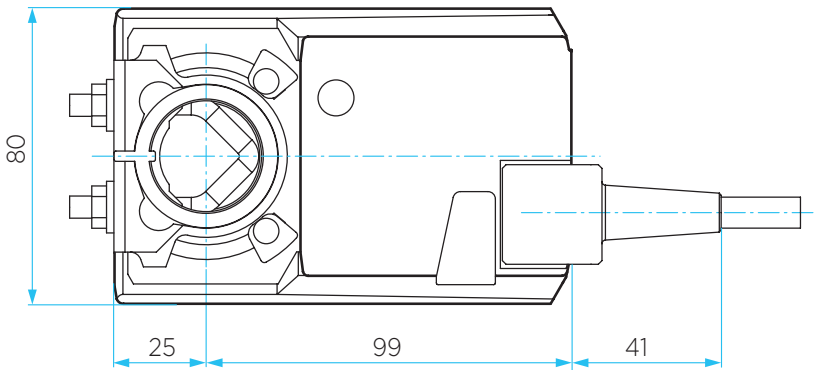
Technical Data		
Electrical Data	Nominal Voltage	AC 100 ... 240 V, 50/60 Hz
	Nominal Voltage Range	AC 85 ... 265 V
	Power Consumption - In Operation - At Rest - For Wire Sizing	2.5 W @ nominal torque 0.6 W 5.5 VA
	Connection	Cable 1m, 3 x 0.75mm²
Functional Data	Torque (Nominal Torque)	Min. 10 Nm @ nominal voltage
	Direction of Rotation	Reversible with switch 0 ↶ or 1 ↷
	Manual Override	Gearing latch disengaged with pushbutton, detentable
	Angle of Rotation	Max. 95° ∢, limited on both sides by means of adjustable, mechanical end stops
	Running Time	150s / 90° ∢
	Sound Power Level	Max. 35 dB (A)
	Position Indication	Mechanical, pluggable
Safety	Protection Class	II Totally insulated ⧈
	Degree of Protection	IP54 in any mounting position
	EMC Low Voltage Directive	CE according to 89/336/EEC CE according to 73/23/EEC
	Mode of Operation	Type 1 (EN 60730-1)
	Rated Impulse Voltage	2.5 kV (EN 60730-1)
	Control Pollution Degree	3 (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 **Product Specifications** on page 3
	Weight	Approx. 750g

Safety Notes

- The 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 Specifications





Damper Spindle	Length	○	□	◇
	≥40	8 ... 26.7	≥8	≥26.7
	≥20	8 ... 20	≥8	≥20

* Option (Accessory K-NA)

Product Specifications	
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 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.
High Functional Reliability	The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

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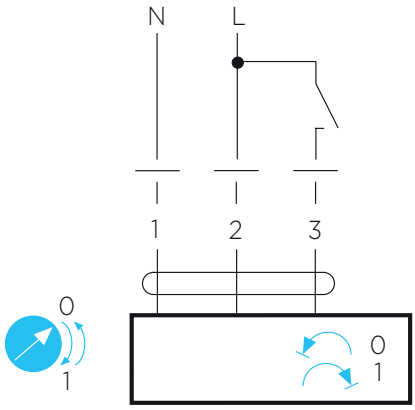
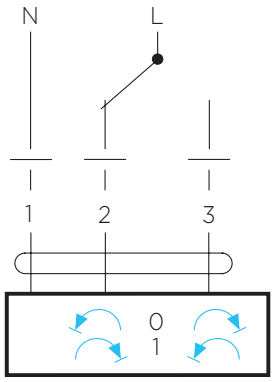
Electrical Installation



OPEN-CLOSE CONTROL
WIRING DIAGRAM



3-POINT CONTROL
WIRING DIAGRAM

Note -

- **Caution: Power Supply Voltage!**
- Other actuators. can be connected in parallel. Please note the performance data.

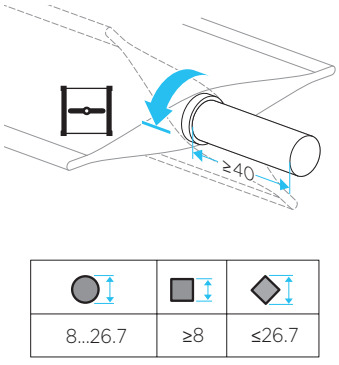
Cable colours:

1 = blue
2 = brown
3 = white

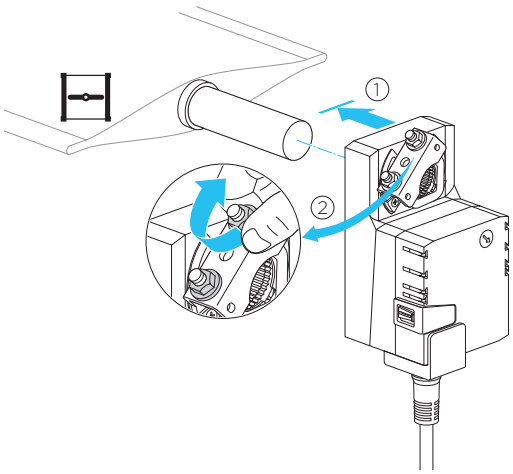
Accessories

	Description	Data Sheet
Electrical Accessories	**Auxiliary Switch S..A..**	T2 - S..A..
	Feedback Potentiometer P..A..	T2 - P..A..
Mechanical Accessories	**Various Accessories (clamps, shaft extensions etc.)**	T2 - Z-NM..A..

Technical Drawings



DRAWING 1



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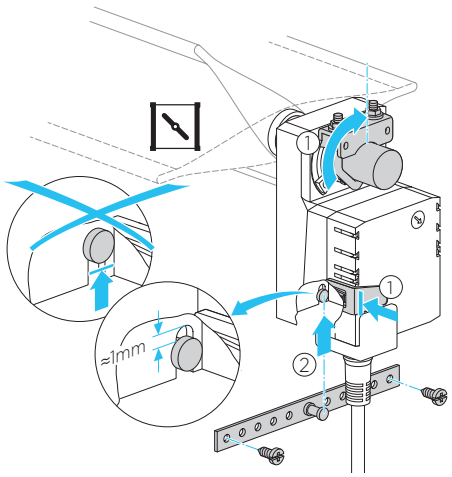

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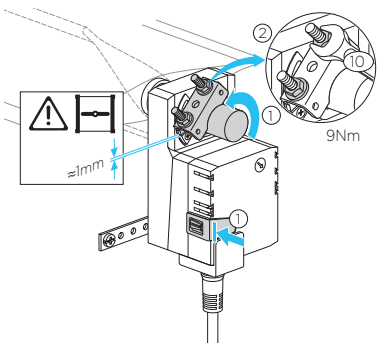

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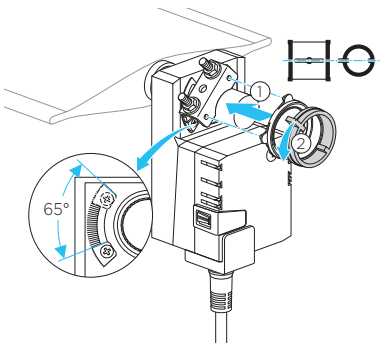

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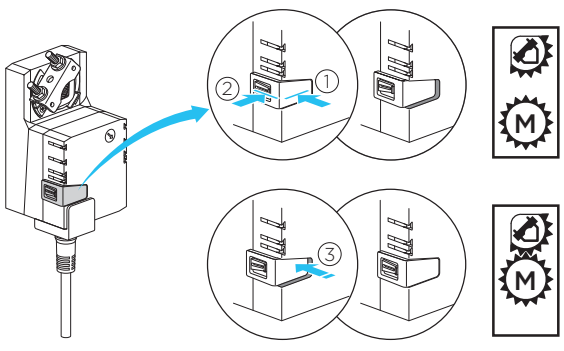

DRAWING 6

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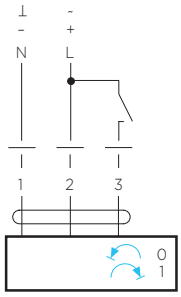
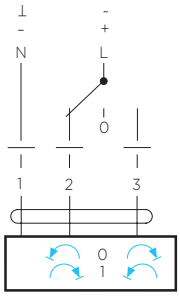
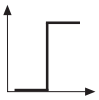
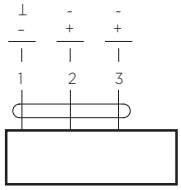


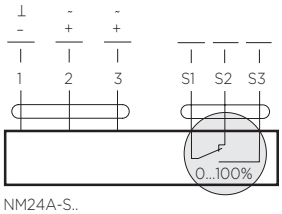




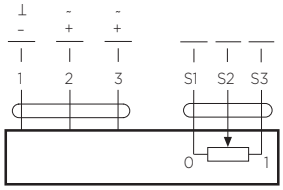
AC 24 V / DC 24 V
DC 48...110 V
(NM72A..)



NM24A..
NM72A..

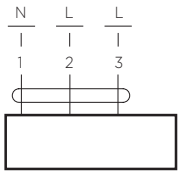


NM24A-S..

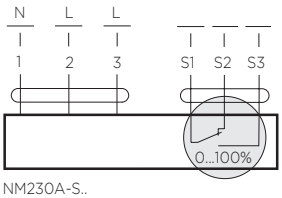


NM24AP5..

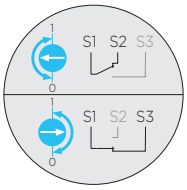
AC 100...240 V



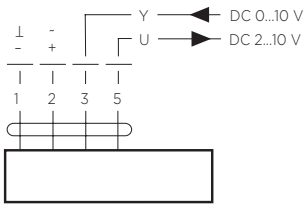
NM230A..



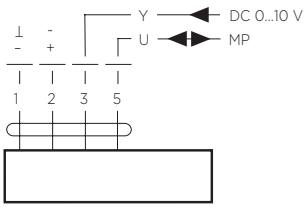
NM230A-S..



AC 24 V / DC 24 V

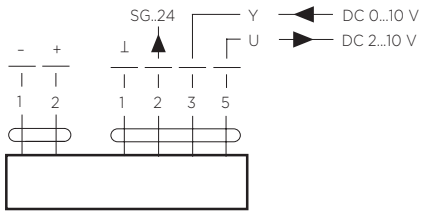


NM24A-SR..
NM24A-MF..



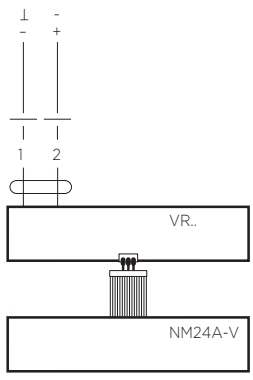
NM24A-MP..

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



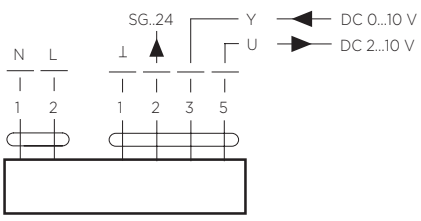
NM72A-SR..

AC 24 V / DC 24 V
(NM24A-V / VR..)



NM24A-V / VR..

AC 100...240 V



NM230ASR..