

Technical data sheet

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

Technical data

- Nominal voltage AC 100 ... 240 V
- Control: modulating DC 0 ... 10 V, position feedback DC 2 ... 10 V



| Electrical data | Nominal voltage | AC 100 240 V, 50/60 Hz | |
|---------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--|
| | Nominal voltage range | AC 85 265 V | |
| | Power consumption In operation | 3.5 W @ nominal torque | |
| | At rest | 1 W | |
| | For wire sizing | 6.5 VA | |
| | Connection Power supply Signals | Terminals 4 mm ² (Cable Ø 6 8 mm, two-core) Terminals 4 mm ² (Cable Ø 6 8 mm, four-core) | |
| Functional data | Torque (nominal torque) | Min. 10 Nm @ nominal voltage | |
| | Control Control signal Y Working range | DC 0 10 V, typical input impedance 100 k Ω DC 2 10 V | |
| | Position feedback (Measuring voltage) | DC 2 10 V, max. 1 mA | |
| | Auxiliary supply | DC 24 V ±30%, max. 10 mA | |
| | Position accuracy | ±5% | |
| | Direction of rotation | Reversible with switch | |
| | Direction of rotation at Y = 0 V | At switch position 🖍 resp. 🔿 | |
| | 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 | 150 s / 90°⊲ | |
| | Sound power level | Max. 35 dB (A) | |
| | Position indication | Mechanical, pluggable | |
| Safety | Protection class | II Totally insulated \Box | |
| | Degree of protection | IP54 in any mounting position | |
| | EMC | CE according 89/336/EEC | |
| | Low voltage directive | CE according 73/23/EEC | |
| | Mode of operation | Type 1 (to EN 60730-1) | |
| | Rated impulse voltage | 4 kV (to EN 60730-1) | |
| | Control Pollution Degree | 3 (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 | |
| - | Weight | Approx. 950 g | |
| | | | |

Safety notes



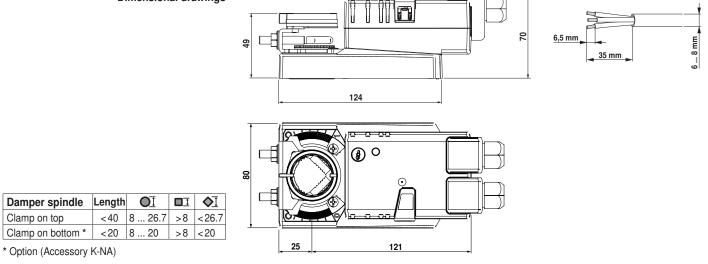
• The damper actuator is not allowed to be used outside the specified field of application, especially in aircraft or any other form of air transport.

- 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.

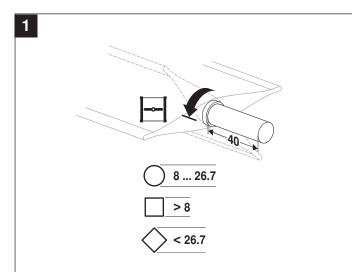
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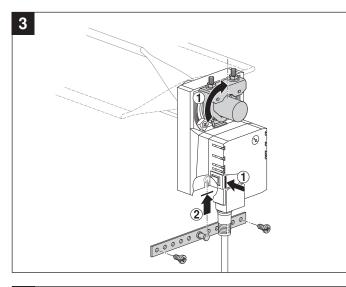


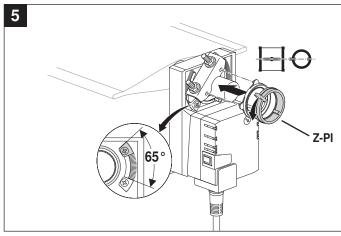
| Safety notes | (Continued) | | |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--|
| | 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 | 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 P.A. | T2 - PA | |
| | Positioner SG24 | T2 - SG24 | |
| Mechanical accessories | Shaft extension AV6-20 | T2 - Z-NMA | |
| Electrical installation | | | |
| Wiring diagram Notes • Caution: Power supply voltage ! • Other actuators can be connected in parallel. Please note the performance data. | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | |
| Dimensions [mm] | | | |
| Dimensional drawings | | | |

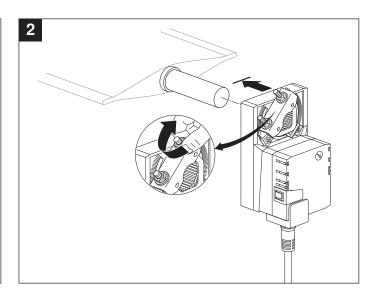


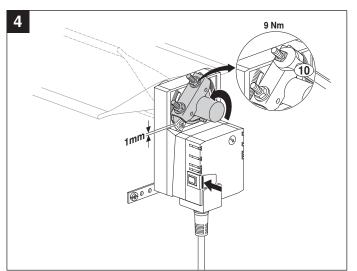


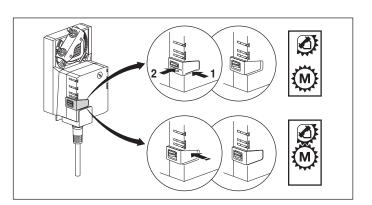






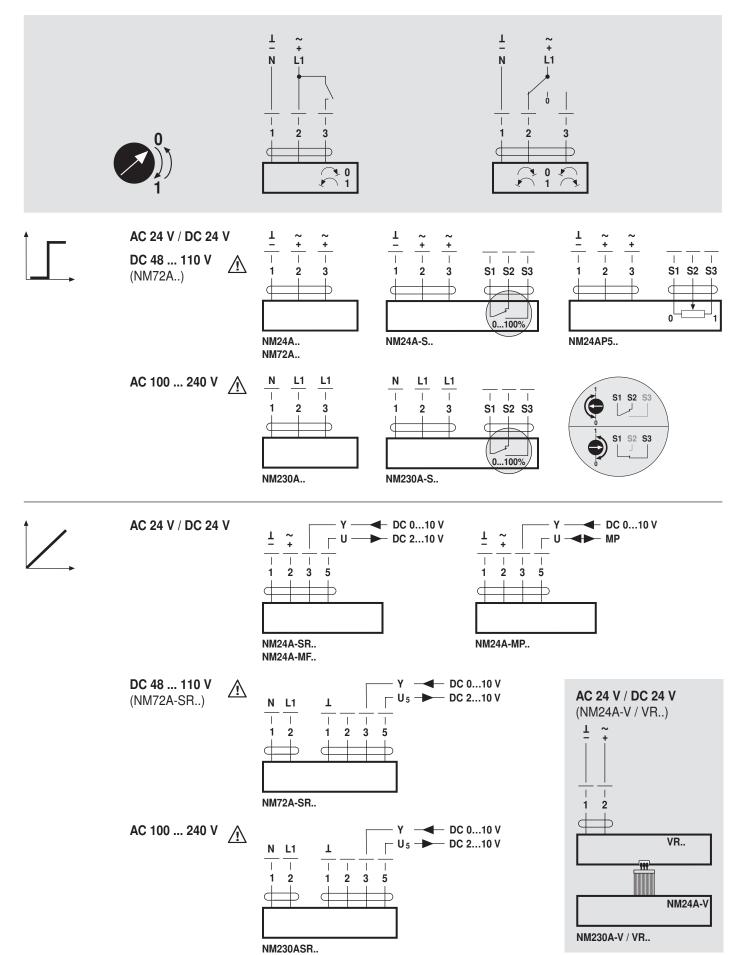






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