

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 m²
- 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 ² |
| | Signals | Cable 1 m, 4 x 0.75 mm ² |
| 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 |

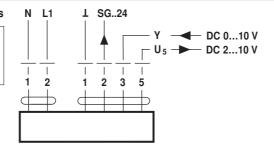
Electrical installation

Wiring diagrams

Notes

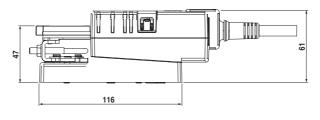
• Caution: Power supply voltage !

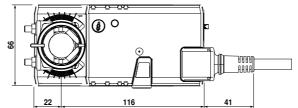
· Other actuators can be connected in parallel. Please note the performance data.



Dimensions [mm]

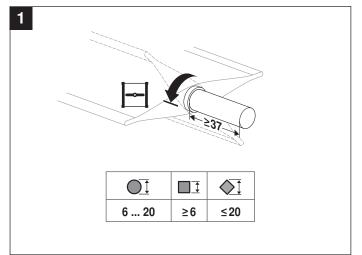
Dimensional drawings

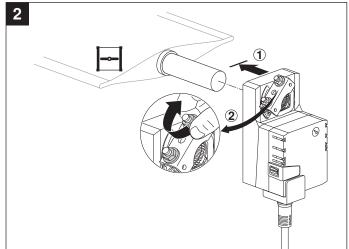


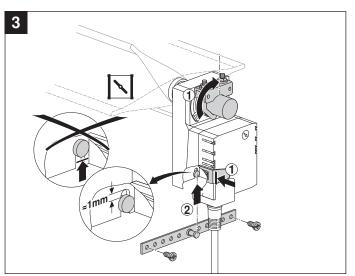


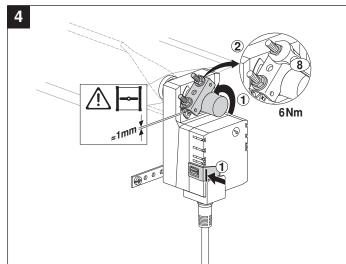
| Damper spindle | Length | 010 |
|----------------|--------|------|
| | min 37 | 6 20 |

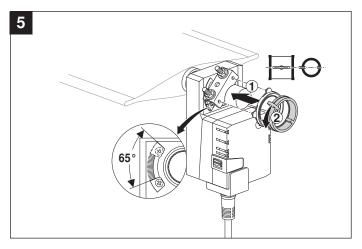


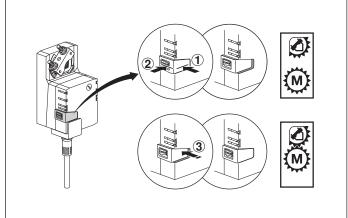






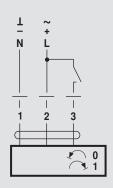


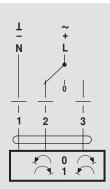








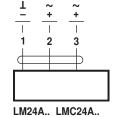






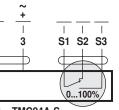
AC 24 V / DC 24 V

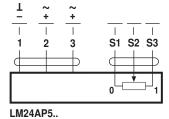
DC 48 ... 110 V (LM72A..)



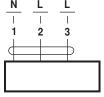
LM72A.. TMC24A..



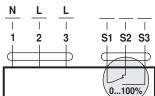




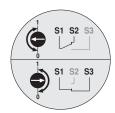
AC 100 ... 240 V



LM230A.. LMC230A.. TMC230A..

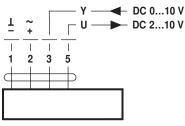


LM230A-S.. TMC230A-S..

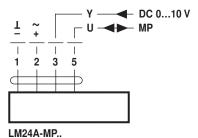




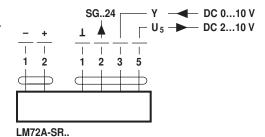
AC 24 V / DC 24 V



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



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



AC 100 ... 240 V

