

Damper actuator for adjusting dampers in technical building installations

- Air damper size up to approx. 1 m²
- Torque motor 5 Nm
- Nominal voltage AC 100...240 V
- Control Open/close, 3-point
- Mechanical interface Form fit 8x8 mm



Technical data

| | | |
|------------------------|--|---|
| Electrical data | Nominal voltage | AC 100...240 V |
| | Nominal voltage frequency | 50/60 Hz |
| | Nominal voltage range | AC 85...265 V |
| | Power consumption in operation | 1.5 W |
| | Power consumption in rest position | 0.5 W |
| | Power consumption for wire sizing | 3.5 VA |
| | Connection supply / control | Cable 1 m, 3 x 0.75 mm ² |
| | Parallel operation | Yes (note the performance data) |
| Functional data | Torque motor | 5 Nm |
| | Direction of motion motor | selectable with switch 0 (ccw rotation) / 1 (cw rotation) |
| | Manual override | with push-button, can be locked |
| | Angle of rotation | Max. 95° |
| | Angle of rotation note | can be limited on both sides with adjustable mechanical end stops |
| | Running time motor | 150 s / 90° |
| | Sound power level, motor | 35 dB(A) |
| | Mechanical interface | Form fit 8x8 mm |
| | Position indication | Mechanically, pluggable |
| Safety data | Protection class IEC/EN | II, reinforced insulation |
| | Protection class UL | II, reinforced insulation |
| | Degree of protection IEC/EN | IP54 |
| | Degree of protection NEMA/UL | NEMA 2 |
| | Enclosure | UL Enclosure Type 2 |
| | EMC | CE according to 2014/30/EU |
| | Low voltage directive | CE according to 2014/35/EU |
| | Certification IEC/EN | IEC/EN 60730-1 and IEC/EN 60730-2-14 |
| | UL Approval | cULus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1 The UL marking on the actuator depends on the production site, the device is UL-compliant in any case |
| | Mode of operation | Type 1 |
| | Rated impulse voltage supply / control | 2.5 kV |
| | Pollution degree | 3 |
| | Ambient humidity | Max. 95% RH, non-condensing |
| | Ambient temperature | -30...50°C [-22...122°F] |
| | Storage temperature | -40...80°C [-40...176°F] |
| | Servicing | maintenance-free |

Weight Weight 0.41 kg

Safety notes


- This device has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- Outdoor application: only possible in case that no (sea) water, snow, ice, insulation or aggressive gases interfere directly with the device and that it is ensured that the ambient conditions remain within the thresholds according to the data sheet at any time.
- Caution: Power supply voltage!
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.
- 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.
- Cables must not be removed from the device.
- To calculate the torque required, the specifications supplied by the damper manufacturers concerning the cross-section, the design, the installation situation and the ventilation conditions must be observed.
- The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Product features

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| Simple direct mounting | Simple direct mounting on the damper shaft with form-fit hollow shaft. For screw fitting to the application the actuator is supplied with two fastening clips, one on each short side. |
| Manual override | Manual override with push-button possible (the gear train is disengaged for as long as the button is pressed or remains locked). |
| Adjustable angle of rotation | Adjustable angle of rotation with mechanical end stops. |
| High functional reliability | The actuator is overload protected, requires no limit switches and automatically stops when the end stop is reached. |

Accessories

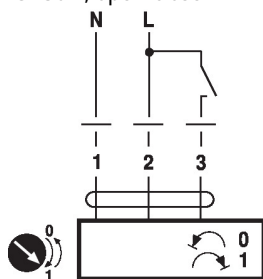
| Electrical accessories | Description | Type |
|-------------------------------|--------------------------------------|-------------|
| | Auxiliary switch 1 x SPDT add-on | S1A |
| | Auxiliary switch 2 x SPDT add-on | S2A |
| | Feedback potentiometer 140 Ω add-on | P140A |
| | Feedback potentiometer 200 Ω add-on | P200A |
| | Feedback potentiometer 500 Ω add-on | P500A |
| | Feedback potentiometer 1 kΩ add-on | P1000A |
| | Feedback potentiometer 2.8 kΩ add-on | P2800A |
| | Feedback potentiometer 5 kΩ add-on | P5000A |
| | Feedback potentiometer 10 kΩ add-on | P10000A |

| Mechanical accessories | Description | Type |
|------------------------|---|------------|
| | Shaft extension 170 mm Ø10 mm for damper shaft Ø 6...16 mm | AV6-20 |
| | Shaft clamp, for damper shafts L 13...30 mm, clamping range Ø8...12 mm, incl. anti-rotation mechanism 180 mm and 2 screws | K5A |
| | Anti-rotation mechanism 180 mm, Multipack 20 pcs. | Z-ARS180 |
| | Form fit insert 8x8 mm, Multipack 20 pcs. | ZF8-LMA |
| | Form fit insert 10x10 mm, Multipack 20 pcs. | ZF10-LMA |
| | Form fit insert 12x12 mm, Multipack 20 pcs. | ZF12-LMA |
| | Form fit insert 8x8 mm, with angle of rotation limiter and position indication, Multipack 20 pcs. | ZFRL8-LMA |
| | Form fit insert 10x10 mm, with angle of rotation limiter and position indication, Multipack 20 pcs. | ZFRL10-LMA |
| | Form fit insert 12x12 mm, with angle of rotation limiter and position indication, Multipack 20 pcs. | ZFRL12-LMA |
| | Position indicator, Multipack 20 pcs. | Z-PI |

Electrical installation

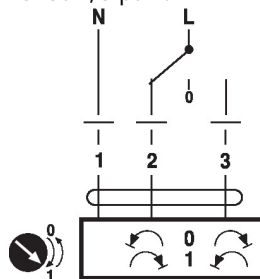
Caution: Power supply voltage!
Parallel connection of other actuators possible. Observe the performance data.
Wiring diagrams

AC 230 V, open/close


Cable colours:

- 1 = blue
- 2 = brown
- 3 = white

AC 230 V, 3-point


Cable colours:

- 1 = blue
- 2 = brown
- 3 = white

Dimensions
Spindle length
