

Technical data sheet

361-024-20

Spring return actuator

Description

Spring-return actuator for adjusting and regulating dampers and valves in air conditioning and ventilation.

- Torque Motor 20 Nm
- Torque Spring 20 Nm
- Nominal Voltage 24 VAC/DC
- Control 2-Point
- Damper size up to approx 4 m²
- Damper shaft Clamp
 \diamond 9-18 mm / \varnothing 9-26 mm



Technical data

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| Electrical data | Nominal voltage | 24 VAC (50/60 Hz), 24 VDC |
| | Nominal voltage range | 19...29 VAC/DC |
| | Power consumption motor (motion) | 9,0 W |
| | Power consumption standby (end position) | 2,5 W |
| | Wire sizing | 12,0 VA |
| | Control | 2-Point |
| | Position feedback | - |
| | Auxiliary switch | - |
| | Contact load | - |
| | Switching point | - |
| | Connection Motor | Cable 1000 mm, 2 x 0,75 mm ² (halogen free) |
| | Connection Auxiliary switch | - |
| | Connection GUAC | - |
| Functional data | Torque Motor | >20 Nm |
| | Torque Spring | >20 Nm |
| | Synchronised speed | ±5% |
| | Direction of rotation | selected by mounting |
| | Manual override | Manual operation |
| | Angle of rotation | 0°...max.+95° Can be limited with adjustable mechanical end stop min 35° |
| | Running time Motor | <75 s / 90° |
| | Running time Spring | <20 s / 90° |
| | Sound power level Motor | <45 dB(A) |
| | Sound power level Spring | <65 dB(A) |
| | Damper coupling | Clamp \diamond 9...18 mm / \varnothing 9...26 mm |

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| Functional data | Position indication | mechanical with pointer |
| | Service life | >60.000 cycles (0°...+95°...0°) |
| Safety | Protection class | III (safety extra-low voltage) |
| | Degree of protection | IP54 |
| | EMC | CE (2004/108/EG) |
| | LVD | CE (2006/95/EG) |
| | RoHS | CE (2011/65/EU) |
| | Mode of operation | Typ 1.AA B (EN60730-1) |
| | Rated impulse voltage | 0,8 kV (EN60730-1) |
| | Control pollution degree | 3 (EN60730-1) |
| | Ambient temperature normal operation | -30°C...+50°C |
| | Storage temperature | -30°C...+80°C |
| | Ambient humidity | 5...95% relative humidity, non condensing (EN 60730-1) |
| | Maintenance | maintenance-free |
| Dimensions/ Weight | Dimensions | 193 x 96 x 70 mm |
| | Weight | ca. 2.400g |

Operating mode / Properties

Operating mode

Applying the power supply to BU+BN (1+2), moves the actuator to position 1. At the same time the return spring is tensioned. If the power supply is interrupted the damper is moving back to the position 0 by spring force. In position 0, the actuator still provides the rated torque.

The actuator is overload-proof, requires no limit switches and stops automatically when the end position is reached.

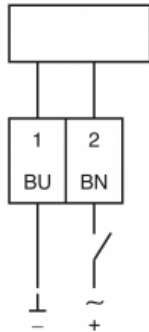
Direct mounting

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 operation

The actuator can be operated manually while the power supply is disconnected. With the supplied lever the position of the damper can be varied and locked. Applying the voltage automatically unlocks the damper.

Connection / Safety remarks

**Safety remarks**

- Connect via safety isolation transformer
- The actuator is not allowed to be used outside the specified field of application, especially in airplanes.
- It may only be installed by suitably 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.
- 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 actuator is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Technical drawing

