

Technical data sheet

315C-024-04/RE12 Rotary actuator

Description

Rotary actuator for adjusting dampers in HVAC installations

Running time
 Torque
 Nominal voltage
 Control
 24 VAC/DC
 continuous control
 2...10 VDC

• Damper size up to approx. 0,8 m²

Shaft coupling clamp

◊ 8-12 mm / Ø 8-12 mm



Technical data

| | Nominal voltage | 24 VAC/DC, 50/60 Hz |
|----------------|--|---|
| | Nominal voltage range | 1929 VAC/DC |
| | Power consumption motor (motion) | 1,0 W |
| | Power consumption standby (end position) | 0,8 W |
| | Wire sizing | 1,6 VA |
| | Control | continuous control 210 VDC / Ri > 50 k Ω 420 mA / Rext. = 500 Ω |
| | Feedback signal | 210 VDC / max. 5 mA |
| | Auxiliary switch | - |
| | Contact load | - |
| | Switching point | - |
| | Connection motor | cable 1000 mm, 4×0.75 mm ² |
| | Connection feedback potentiometer | - |
| | Connection auxiliary switch | - |
| | Connection GUAC | - |
| unctional data | | |
| | Torque | > 4 Nm |
| | Damper size | up to approx. 0,8 m ² |
| | Synchronised speed | ±5% |
| | Direction of rotation | by mounting selectable |
| | Manual override | Gearing latch disengaged with rotary switch, self-resetting |
| | Angle of rotation | 0°max. 310° with mechanical end stops adjusted in 2,5° increments |
| | Running time | < 150 s / 90° |



Technical data

| Functional data | | |
|---------------------|--------------------------------------|---|
| | Sound power level | < 30 dB(A) |
| | Shaft coupling | clamp ◊ 8-12 mm / Ø 8-12 mm |
| | Position indication | mechanical with pointer |
| | Service life | > 60 000 cycles (0°95°0°) |
| Safety | | |
| | Protection class | III (safety extra-low voltage) |
| | Degree of protection | IP 54 (plug port downwards) |
| | EMC | CE (2014/30/EU) |
| | LVD | CE (2014/35/EU) |
| | RoHS | CE (2011/65/EU) |
| | Mode of operation | Typ 1 (EN 60730-1) |
| | Rated impulse voltage | 0,8 kV (EN 60730-1) |
| | Control pollution degree | 3 (EN 60730-1) |
| | Ambient temperature normal operation | -30°C+50°C |
| | Storage temperature | -30°C+50°C |
| | Ambient humidity | 595% r.H., non condensing (EN 60730-1) |
| | Maintenance | maintenance free |
| Dimensions / Weight | | |
| | Dimensions | 160 x 60 x 61 mm |
| | Weight | 300 g |

Operating mode / Properties

Operating mode

Through connecting the power supply to BU+BN (1+2) and a reference signal Y to BK (3) of 2...10 VDC, moves the actuator to its specified position. The actual damper position 0...100% is a feedback signal U on GY (4) for example to share with other actuators.

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

Direct mounting

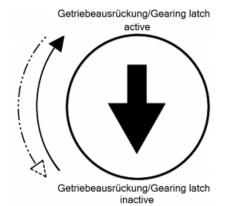
Simple direct mounting on the damper shaft with a clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.

Manual override

Manual override is possible with the selfresetting rotary switch (the gearing latch remains disengaged as long as the rotary switch is activated).

Adaption drive

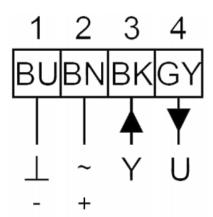
- -Actuator power off
- -Setting the mechanical end stops
- -Actuator power on
- -Adaption to enable
- -Actuator drive to position 0
- -Actuator drive to position 1
- -Adaption to disable if desired reached angular range or drive to endstop
- -"Y" refers to the measured angular range
- *Actuator will do adaption drive by each restart



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Connection / Safety remarks



Safety remarks

- -Connect via safety isolation transformer!
- -The device 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.
- -The device is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.
- -When calculating the required torque, the specifications supplied by the damper manufacturer's (cross-section, design, installation site), and the air flow conditions must be observed.



Technical drawing

