

Technical data sheet

315C-024-04/4Ex

Continuous control rotary drive

Description

---preliminary data sheet!---

Actuator for adjusting air dampers of 0°...120° angle of rotation to be used in HVAC installations.

- Torque Motor 4 Nm
- Nominal Voltage 24 VAC/DC
- Control Continuous 0(2)...10 VDC
- Damper size up to approx. 0,8 m²
- Damper coupling form fit 8 mm (4E8)
 form fit 10 mm (4E10)
 form fit 12 mm (4E12)



Technical data

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| Electrical data | Nominal voltage | 24 VAC (50/60Hz), 24 VDC |
| | Nominal voltage range | 19...29 VAC/DC |
| | Power consumption motor (motion) | 2,0 W |
| | Power consumption standby (end position) | 1,0 W |
| | Wire sizing | 3,0 VA |
| | Control | Continuous 0(2)...10 VDC / Ri > 100 kΩ 0(4)...20 mA / Rext. = 500 Ω |
| | Position feedback | 0(2)...10VDC, max. 5 mA |
| | Connection Motor | 1000 mm Cable with connector 3 x 0,75 mm ² |
| | Connection GUAC | - |
| | Connection GUAC | - |
| Functional data | Torque Motor | >4 Nm |
| | Synchronised speed | ± 5% |
| | Direction of rotation | by mounting selectable |
| | Manual override | Gearing latch disengaged with rotary switch, self -resetting |
| | Angle of rotation | 0°...max.120° with mechanical end stops adjusted in 2,5° increments |
| | Running time Motor | 100 s / 90° |
| | Sound power level Motor | <35 dB(A) |
| | Damper coupling | form fit 8 mm (4E8) form fit 10 mm (4E10) form fit 12 mm (4E12) |
| | Position indication | mechanical with pointer |
| | Service life | >60'000 cycles (0° - 95° - 0°) |
| Safety | Protection class | III (safety extra-low voltage) |

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| Safety | Degree of protection | IP54 |
| | EMC | CE (2004/108/EG) |
| | LVD | CE (2006/95/EG) |
| | 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 | 5...95% relative humidity, non condensing (EN 60730-1) |
| Dimensions/ Weight | Maintenance | maintenance free |
| | Dimensions | 160 x 60 x 38 mm |
| | Weight | ca.300 g |

Operating mode / Properties

Operating mode

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

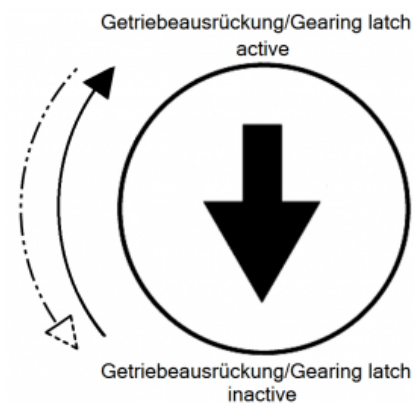
The actuator is overload-proof, requires no limit switches and stops automatically when the end position is reached.

Direct mounting

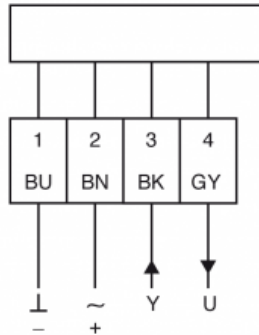
Simple direct mounting on the damper with form fit, supplied with anchoring supports to prevent the actuator from rotating.

Manual override

Manual override is possible with the self-resetting rotary switch (the gearing latch remains disengaged as long as the rotary switch is activated)



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.
- The actuator is adapted and mounted to the fire and smoke damper by the damper manufacturer. For this reason, the actuator is only supplied direct to safety damper manufacturers. The manufacturer then bears full responsibility for the proper functioning of the damper.

Technical drawing

