

Technical data sheet

315-024-04/4Ex

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 2/3 Point
- 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

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	2/3 Point
	Position feedback	-
	Connection Motor	1000 mm Cable with connector 3 x 0,75 mm ²
Functional data	Connection GUAC	-
	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
Safety	Service life	>60'000 cycles (0° - 95° - 0°)
	Protection class	III (safety extra-low voltage)
	Degree of protection	IP54
	EMC	CE (2004/108/EG)

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Safety	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)
	Maintenance	maintenance free
Dimensions/ Weight	Dimensions	160 x 60 x 38 mm
	Weight	ca.300 g

Operating mode / Properties

Operating mode

2 Point:

Applying the power supply to BU+BN (1+2), moves the actuator to position 1. If BK (1+2+3) is also connected to the power supply the actuator moves to position 0.

3 Point:

Applying the power supply to BU+BN (1+2), moves the actuator to position 1. When the power supply is interrupted the actuator remains in its current position. If BU+BK (1+3) are connected to the power supply the actuator moves to position 0.

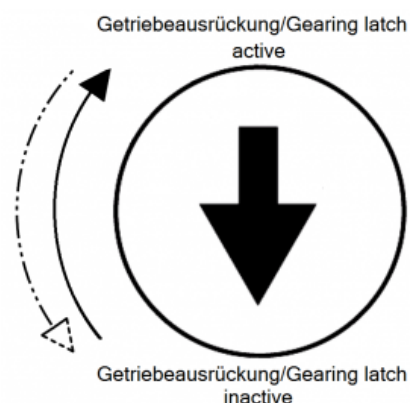
The actuator is overload-proof, requires no limit switches and stops automatically when the end position is reached.

Direct mounting

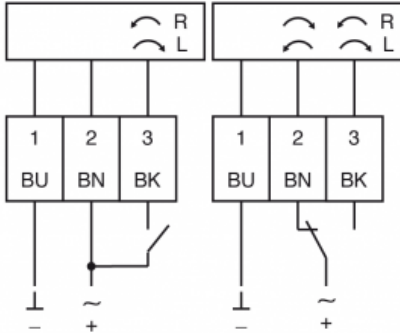
Simple direct mounting on the damper with form fit, supplied with anchoring supports to prevent the actuator from rotating.

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

