

Technical data sheet

227-024-10

Rotary drive without spring return

Description

Actuator for adjusting air dampers of 90° angle of rotation to be used in HVAC installations.

Torque Motor
Nominal Voltage
Control
Damper size
10 Nm
24 VAC/DC
2/3 Point
up to approx. 2 m²

• Damper coupling Clamp

◊ 8-15 mm / Ø 8-20 mm



Technical data

Electrical data	Nominal voltage	24 VAC/DC
	Nominal voltage range	1929 VAC/DC
	Power consumption motor (motion)	2,0 W
	Power consumption standby (end position)	1,0 W
	Wire sizing	3,5 VA
	Control	2/3 Point
	Position feedback	-
	Auxiliary switch	-
	Contact load	-
	Switching point	-
	Connection Motor	Cable 1000 mm,
		3 x 0,75 mm ² (halogen free)
	Connection Auxiliary switch	· •
	Connection Position feedback	-
	Connection GUAC	-
Functional data	Torque Motor	> 10 Nm
	Synchronised speed	±5%
	Direction of rotation	selected by switch
	Manual override	Gearing latch disengaged with
		pushbutton, self-resetting
	Angle of rotation	0° max. 95°
		can be limited with adjustable mechanical
		end stop min 20°.
	Running time Motor	150 s / 90°
	Sound power level Motor	< 35 dB(A)
	Damper coupling	Clamp
		♦ 8-15 mm / Ø 8-20 mm
	Position indication	mechanical with pointer

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Technical data

Functional data	Service life	> 60'000 cycles (0° - 95° - 0°)
Safety	Protection class	III (safety extra-low voltage)
	Degree of protection	IP54 (Cable downwards)
	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+80°C
	Ambient humidity	595% r.F.,
		non condensing (EN 60730-1)
	Maintenance	maintenance free
Dimensions/ Weight	Dimensions	115 x 65 x 61 mm
	Weight	ca. 530 g

Operating mode / Properties

Operating mode

2 point:

Applying the power supply to BU+BN (1+2),rotation direction switch on position "R" the actuator moves 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),rotation direction switch on position "R" the actuator moves 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

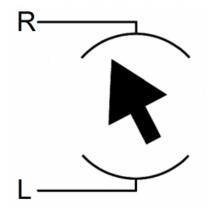
Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.

Manual override

Manual override is possible with the self-resetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed)

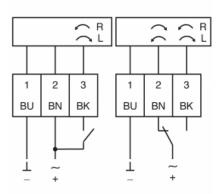
Rotary direction switch

R= clockwise L= counter clockwise





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

