

Technical data sheet

363-024-40-S2

Rotary drive without spring return

Description

Actuator for adjusting air dampers of 90° angle of rotation to be used in ventilation and air conditioning systems in buildings.

- Torque Motor 40 Nm
- Nominal Voltage 24 VAC/DC
- Control 2/3 Point
- Connection 2x freely adjustable
- Auxiliary switch
- Valve size up to approx. 8 m²
- Damper coupling Clamp
∅ 9-18 mm / Ø 9-26 mm



Technical data

Nominal voltage	Nominal voltage	24 VAC (50/60Hz), 24 VDC
	Nominal voltage range	19...29 VAC/DC
	Power consumption Motor (Motion)	5,5 W
	Power consumption Standby (end position)	1,5 W
	Wire sizing	7,0 VA
	Control	2/3-point
	Position feedback	-
	Auxiliary switch	2 x SPDT (Ag)
	Contact load	5 (2,5) A, 250 VAC
	Switching point	0...95°
Functional data	Connection Motor	Cable 1000 mm, 3 x 0,75 mm ² (halogen free)
	Connection Auxiliary switch	Cable 1000 mm, 6 x 0,75 mm ² (halogen free)
	Connection Position feedback	-
	Connection GUAC	-
	Torque Motor	>40 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
	Running time Motor	<150 s / 90°
Safety	Sound power level Motor	< 45 dB(A)
	Damper coupling	Clamp ∅ 9-18 mm / Ø 9-26 mm
	Position indication	mechanical with pointer
	Service life	>60'000 cycles (0° - 95° - 0°)
Safety	Protection class	III (low voltage safety current)

Technical data

Safety	Degree of protection	IP54 in any mounting position
	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 ... +50°C
	Storage temperature	-30 ... +80°C
	Ambient humidity	5...95% r.F., non-condensating (EN 60730-1)
Dimensions/ Weight	Maintenance	maintenance free
	Dimensions	193 x 96 x 60 mm
	Weight	ca. 1700 g

Operating mode / Properties

Operating mode

2- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. Is also BK (1+2+3) connected to the power supply the actuator is moving to position 0.

3- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. If the power supply is interrupted the actuator maintains its current position. Is also BU+BK (1+3) connected to the power supply the actuator is moving in direction 0.

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

Signaling

The two integrated auxiliary switches are freely adjustable in the angle of 0 – 95°. These are activated corresponding to the adjusted angle. The damper position can be checked by the mechanical pointer.

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.

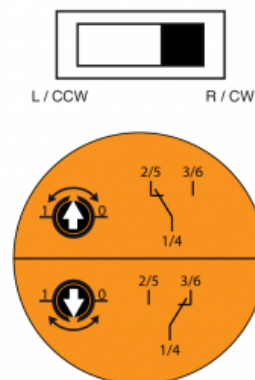
Manual override

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

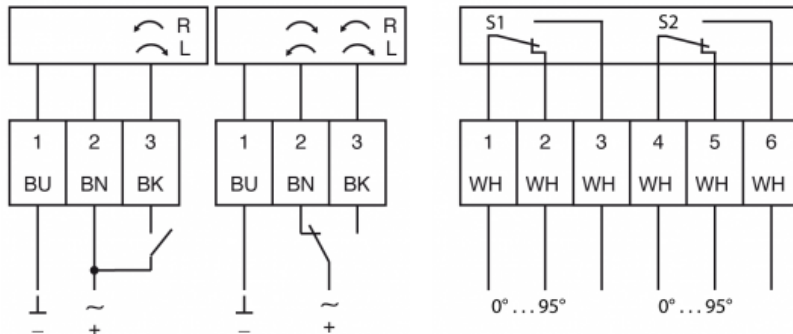
Rotary direction switch

R/CW= clockwise

L/ CCW= 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

