

Technical data sheet

225-024T-05

Rotary actuator

Description

Rotary actuator for adjusting dampers in HVAC installations

- Running time 60...120 s / 90°
- Torque 5 Nm
- Nominal voltage 24 VAC/DC
- Control 2-/3-point
- Damper size up to approx. 1 m²
- Shaft coupling clamp
◇ 8-12 mm / Ø 8-16 mm



Technical data

Electrical data

Nominal voltage	24 VAC/DC, 50/60 Hz
Nominal voltage range	19...29 VAC/DC
Power consumption motor (motion)	1,5 W
Power consumption standby (end position)	1,0 W
Wire sizing	2,5 VA
Control	2-/3-point
Feedback signal	-
Auxiliary switch	-
Contact load	-
Switching point	-
Connection motor	screw terminals, 3-pin 0,5...1,5 mm ²
Connection feedback potentiometer	-
Connection auxiliary switch	-
Connection GUAC	-

Functional data

Torque	> 5 Nm
Damper size	up to approx. 1 m ²
Synchronised speed	-
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 stops
Running time	60...120 s / 90° (load-dependent)
Sound power level	< 45 dB(A)
Shaft coupling	clamp ◇ 8-12 mm / Ø 8-16 mm

Technical data

Functional data

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 52 (cable 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...+80°C
Ambient humidity	5...95% r.H., non condensing (EN 60730-1)
Maintenance	maintenance free

Dimensions / Weight

Dimensions	145 x 70 x 61 mm
Weight	450 g

Operating mode / Properties

Operating mode

2 point:
Through connecting the power supply to terminals 1+2 and the direction switch on "R" moves the actuator to position 1. Is also terminal 3 connected to the power supply the actuator is moving to position 0.

3 point:
Through connecting the power supply to terminals 1+2 and the direction switch on "R" moves the actuator to position 1. Is terminals 1+3 connected to the power supply the actuator is moving to position 0.

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 self-resetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed).

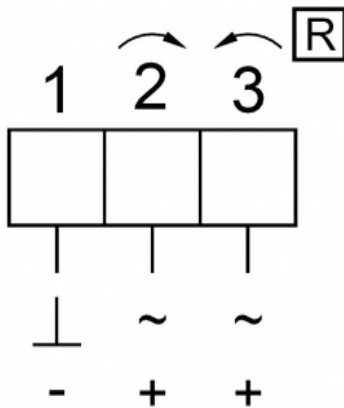
Mode switch

DIP switch under the case cover

R / CW: rotary direction right / clockwise
L / CWW: rotary direction left / counter clockwise



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

