

Technical data sheet

227-024-08J(-S1) Rotary Actuator

Description

Rotary actuator for adjusting dampers in HVAC installations.

Running time 150 s / 90°
Torque 8 Nm
Nominal voltage 24 VAC/DC
Control 2-/3-point

Damper size up to approx. 1.6 m²

Damper coupling clamp

◊ 8-15 mm / Ø 8-20 mm



Technical data

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Nominal voltage	24 VAC/DC, 50/60Hz	
Nominal voltage range	1929 VAC/DC	
Power consumption motor (motion)	3.0 W	
Power consumption standby (end position)	1.0 W	
Wire sizing	5.0 VA	
Control	2-/3-point	
Connection motor	cable 1000 mm, 3 x 0. 75 mm² (halogen free)	
Connection feedback potentiometer	-	
Connection GUAC	-	
Feedback signal	-	
227-024-08J-SI		
Auxiliary switch	- 1 x SPDT (ag)	
Contact load	- 5 (2.5) A, 250 VAC	
Switching point	- 095°	
Connection auxiliary switch	cable 1000 mm, 3 x 0. 75 mm² (halogen free)	

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Functional data		
	Torque	8 Nm
	Damper size	up to approx. 1 m²
	Synchronized 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 stops
	Running Time	150 s / 90°
	Sound power level	< 45 dB(A)
	Shaft coupling	clamp ◊ 8-15 mm / Ø 8-20 mm
	Position indication	mechanical with pointer
	Service life	> 100,000 cycles (0°95°0°)
Safety		
	Protection class	III (safety extra-low voltage)
	Protection class auxiliary switch	II (double insulation)
	Degree of protection	IP 54 (cable downwards)
	EMC	CE (2014/30/EU)
	LVD	CE (2014/35/EU)
	RoHS	CE (2011/65/EU - 2015/863/EU - 2017/2102/EU)
	Mode of operation	Typ 1 (EN 60730-1)
	Rated impulse voltage supply / control	0.8 kV
	Rated impulse voltage auxiliary switch	4 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.H., non-condensing
	Maintenance	Maintenance free
Dimensions/Weight		
	Dimensions	117 x 67 x 66 mm
	Weight	350 g

Weight (S1)

510 g

Functionality / Properties

Operating mode

2 point:

Connect power supply to wire 1+2, actuator drives to position 1. Is also wire 3 connected to the power supply, actuator drives to position 0.

3 point:

Connect power supply to wire 1+2, actuator drives to position 1. Is wire 1+3 connected to the power supply, actuator drives 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, protection against rotating with enclosed anti-rotation lock or rather at intended attachment points.

Manual override

Manual override with self resetting pushbutton possible (the gear is disengaged as long as the button is pressed).

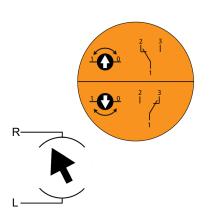
Signaling

The integrated auxiliary switch is freely adjustable in the angle of 0 - 95°. There is activated corresponding to the adjusted angle. The damper position can be checked by the mechanicel pointer.

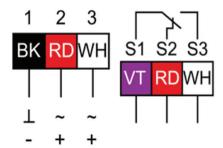
Mode switch

Mode switch with two positions at the housing:

R: rotary rotation right / clockwise L: rotary rotation



Connector / Security Note



Safety remarks

- Caution: power supply voltage!
- 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, installationsite), and the air flow conditions must be observed.

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Technical Drawing

