

Technical data sheet

227C-024-15 Rotary actuator

Description

Rotary actuator for adjusting dampers in HVAC installations

Running time
Torque
Nominal voltage
150 s / 90°
15 Nm
24 VAC/DC

• Control continuous control

(0)2...10 VDC

• Damper size up to approx. 3 m²

• Shaft coupling clamp

♦ 8-15 mm / Ø 8-20 mm



Technical data

Electrical data	Nominal voltage	24 VAC/DC, 50/60 Hz
	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	continuous control (0)210 VDC / Ri > (100 k Ω) 50 k Ω (0)420 mA / Rext. = 500 Ω
	Feedback signal	(0)210 VDC, max. 5 mA
	Auxiliary switch	-
	Contact load	-
	Switching point	-
	Connection motor	cable 1000 mm, 4 x 0,75 mm² (halogen free)
	Connection feedback potentiometer	-
	Connection auxiliary switch	-
	Connection GUAC	-



Technical data

Functional data	Torque	15 Nm
	Damper size	up to approx. 3 m ²
	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 stops; after changing the angle of rotation, a adaptation drive must be made
	Running time	150 s / 90°
	Sound power level	< 35 dB(A)
	Shaft coupling	clamp ◊ 8-15 mm / Ø 8-20 mm
	Position indication	mechanical with pointer
	Service life	> 60 000 cycles (0°95°0°) > 1 000 000 partial cycles (max. ±5°)
Safety	Protection class	III (safety extra-low voltage)
	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	0,8 kV (EN 60730-1)
	Control pollution degree	3 (EN 60730-1)
	Ambient temperature normal operation	-30°C+50°C

Dimensions / Weight	Dimensions	115 x 65 x 61 mm
	Weight	350 g

Maintenance

Storage temperature Ambient humidity -30°C...+80°C

maintenance free

60730-1)

5...95% r.H., non condensing (EN



Functionality / Properties

Operating mode

Connect power supply to wire 1+2 and a reference signal Y to wire 3 in range of (0)2...10 VDC, actuator drives to its specified position. The actual damper position (0...100%) is a feedback signal U on wire 4 for example to share with other actuators.

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 selfresetting pushbutton possible (the gear is disengaged as long as the button is pressed).

Mode switch

Mode switch with five positions at the housing:

2-10 R: rotary direction right 2-10 VDC

0-10 R: rotary direction right 0-10 VDC

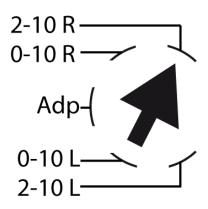
Adp: adaption

0-10 L: rotary direction left 0-10 VDC

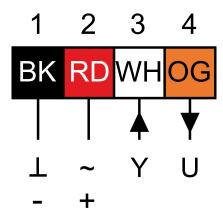
2-10 R: rotary direction left 2-10 VDC

Adaption drive

- Actuator power off
- Setting the mechanical end stops
- · Actuator power on
- Adaption enable
- Actuator drive to position 0
- Actuator drive to position 1
- Adaption disable, if desired angular range reached or rather if actuator reached endstop
- "Y" refers to the measured angular range



Connector / Security Note



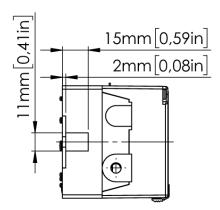
Safety remarks

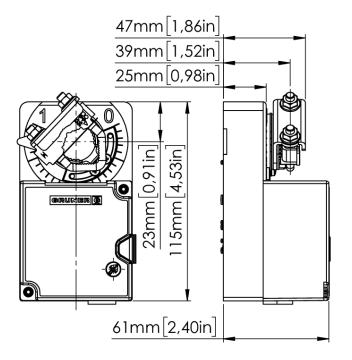
- Connect via safety isolation transformer!
- The device is not allowed to be used outside the specified field of application, especially in airplanes.
- It may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- 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 (crosssection, design, installation site), and the air flow

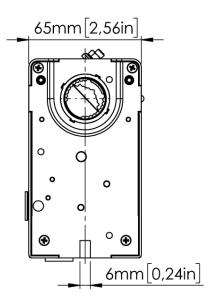
conditions must be observed.



Technical Drawing







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