

Technical data sheet

315C-024-04/4Ex Rotary actuator

Rotary actuator for adjusting dampers in HVAC installations

> 150 s / 90° • Running time • Torque 4 Nm Nominal voltage 24 VAC/DC Control continuous control 2...10 VDC

• Damper size up to approx. 0,8 m² • Shaft coupling form fit 8 mm (4E 8)

form fit 10 mm (4E10) form fit 12 mm (4E12)



Electrical data

	Nominal voltage	24 VAC/DC, 50/60 Hz	
	Nominal voltage range	1929 VAC/DC	
	Power consumption motor (motion)	1,0 W	
	Power consumption standby (end position)	0,8 W	
	Wire sizing	1,6 VA	
	Control	continuous control	
		210 VDC / Ri > 50 kΩ	
		420 mA / Rext. = 500 Ω	
	Feedback signal	210 VDC / max. 5 mA	
	Auxiliary switch	-	
	Contact load	-	
	Switching point	-	
	Connection motor	cable 1000 mm,	
		4 x 0,75 mm ²	
	Connection feedback potentiometer	-	
	Connection auxiliary switch	-	
	Connection GUAC	-	
unctional data			
	Torque	> 4 Nm	
	Damper size	up to approx. 0,8 m ²	
	Synchronised speed	±5%	
	Direction of rotation	by mounting selectable	
	Manual override	Gearing latch disengaged with	
		rotary switch, self-resetting	
	Angle of rotation	0°max. 310°	
		with mechanical end stops	
		adjusted in 2,5° increments	
	Running time	< 150 s / 90°	



Technical data

Functional data		
	Sound power level	< 30 dB(A)
	Shaft coupling	form fit 8 mm (4E8) form fit 10 mm (4E10) form fit 12 mm (4E12)
	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 54 (plug 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+50°C
	Ambient humidity	595% r.H., non condensing (EN 60730-1)
	Maintenance	maintenance free
Dimensions / Weight		
	Dimensions	160 x 60 x 38 mm
	Weight	200 g



Operating mode / Properties

Operating mode

Through connecting the power supply to BU+BN (1+2) and a reference signal Y to BK (3) of 2...10 VDC, moves the actuator to its specified position. The actual damper position 0...100% is a feedback signal U on GY (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 form fit, supplied with an anti-rotation strap to prevent the actuator from rotating.

Manual override

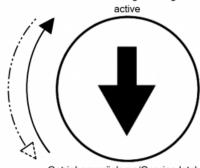
Manual override is possible with the selfresetting rotary switch (the gearing latch remains disengaged as long as the rotary switch is activated).

Adaption drive

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

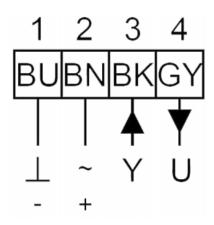
*Actuator will do adaption drive by each restart

Getriebeausrückung/Gearing latch



Getriebeausrückung/Gearing latch inactive

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

