

Technical data sheet

227CS-024-05B

Continuous control rotary drive

Description

Actuator for adjusting air dampers of 90° angle of rotation to be used in HVAC installations

Running time Motor
Torque Motor
Nominal Voltage
Control
Continuous control (0)2...10 VDC

• Damper size up to approx. 1 m²

• Damper coupling Clamp ♦ 8-15 mm / Ø 8-20 mm



Technical data

Electrical data		
	Nominal voltage	24 VAC/DC
	Nominal voltage range	1929 VAC/DC
	Power consumption motor (motion)	11,0 W
	Power consumption standby (end position)	1,0 W
	Wire sizing	15,0 VA
	Control	Continuous control (0)210 VDC / Ri > (100 k Ω) 50 k Ω (0)420 mA / Rext. = 500 Ω
	Position feedback	(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 Auxiliary switch	-
	Connection Position feedback	-
	Connection GUAC	-
Functional data		
	Torque Motor	> 5 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°
	Running time Motor	2 s / 90°
	Sound power level Motor	< 55 dB(A)
	Damper coupling	Clamp ♦ 8-15 mm / Ø 8-20 mm



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Functional data		
	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	IP54 (Cable downwards)
	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°C+50°C
	Storage temperature	-30°C+80°C
	Ambient humidity	595% r.H., non condensing (EN 60730-1)
	Maintenance	maintenance free
Dimensions / Weight		
	Dimensions	172,5 x 65 x 90 mm
	Weight	790 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 (0)2...10 VDC, moves the actuator to its specified position. The actual damper position 0...100% is a feedback signal U for example to share the signal with other actuators.

The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached. A supply of direct current (VDC) is preferred.

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 disngaged as long as the pushbutton is pressed).

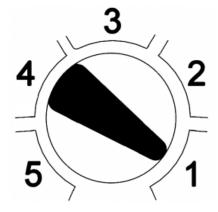
Mode switch

Mode switch with five positions at the housing:

- 1: Rotary direction right 2-10 V
- 2: Rotary direction right 0-10 V
- 3: Adaption
- 4: Rotary direction left 0-10 V
- 5: Rotary direction left 2-10 V

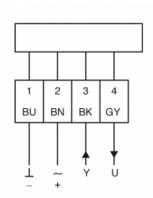
Adaption drive

Adaption drive is only possible with internal endstops (93° \pm 2°).





Connection / Safety remarks



Safety remarks

- -Connect via safety isolation transformer -The actuator is not allowed to be used
- 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

