

Technical data sheet

227CS-024-02A

Continuous control rotary drive without spring return

Description

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

Running time Motor 1 s / 90°
 Torque Motor 2 Nm
 Nominal Voltage 24 VAC/DC

• Control Continuous control DC (0)2...10 VDC
• Damper size up to approx. 0.4 m²

Damper size up to appr
 Damper coupling Clamp

◊ 8-15 mm / Ø 8-20 mm



Technical data

Electrical data		
	Nominal voltage	24 VAC/DC
	Nominal voltage range	2229 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) 50k 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	-
unctional data		
	Torque Motor	> 2 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	< 1 s / 90°
	Sound power level Motor	< 60 dB(A)
	Damper coupling	Clamp ♦ 8-15 mm / Ø 8-20 mm



Technical data

Functional data		
	Position indication	mechanical with pointer
	Service life	> 60'000 cycles (0° - 95° - 0°) > 1'500'000 partial cycles (max. ±5°)
Safety		
	Protection class	III (safety extra-low voltage)
	Degree of protection	IP54 (Cable downwards)
	EMC	CE (2014/30/EU)
	LVD	CE (2014/35/EU)
	RoHS	CE (2011/65/EG)
	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.F., non condensing (EN 60730-1)
	Maintenance	maintenance free
Dimensions/ Weight		
	Dimensions	172,5 x 65 x 90 mm
	Weight	ca. 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...10VDC, 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.

The extended voltage range 24 VAC/DC \pm 20% can cause, at under voltage condition and heavy torque, longer running times.

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 selfresetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed)

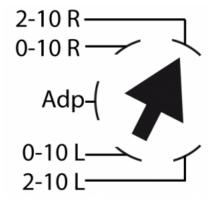
Mode-switch

Mode- switch with five positions at the housing

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

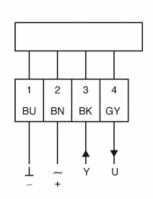
Adaption drive

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





Connection / Safety remarks



Safety remarks

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

