

## Technical data sheet

## 227CS-024-15B

 Continuous control rotary drive  
 without spring return

## Description

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

- Torque Motor 15 Nm
- Nominal Voltage 24 VAC/DC
- Control Continuous control DC 0(2)...10 V
- Damper size up to approx. 3 m<sup>2</sup>
- Damper coupling Clamp  
∅ 8-12 mm / Ø 8-16 mm



## Technical data

Nominal voltage	Nominal voltage	24 VAC/DC
	Nominal voltage range	19...29 VAC/DC
	Power consumption Motor (Motion)	20,0 W
	Power consumption Standby (end position)	1,0 W
	Wire sizing	26,0 VA
	Control	Continuous control 0(2)...10 VDC / (0)4...20 mA / Ri > 100 kΩ
	Position feedback	0(2)...10 VDC, max 5 mA
	Auxiliary switch	-
	Contact load	-
	Switching point	-
	Connection Motor	Cable 1000 mm, 4 x 0,75 mm <sup>2</sup> (halogen free)
	Connection Auxiliary switch	-
	Connection Position feedback	-
	Connection GUAC	-
Functional data	Torque Motor	>15 Nm
	Synchronised speed	-
	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 stop
	Running time Motor	< 5 s / 90°
	Sound power level Motor	< 45 dB(A)
	Damper coupling	Clamp ∅ 8-12 mm / Ø 8-16 mm
	Position indication	mechanical with pointer

## Technical data

Functional data	Service life	>60'000 cycles (0° - 95° - 0°) >1'000'000 partial cycles (max. ±5°)
	Safety	Protection class III (low voltage safety current)
Safety	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	5...95% r.F., non- condensating (EN 60730-1)
Maintenance	maintenance free	
Dimensions/ Weight	Dimensions	115 x 65 x 89 mm
	Weight	ca. 750 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.

### 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 disengaged as long as the pushbutton is pressed)

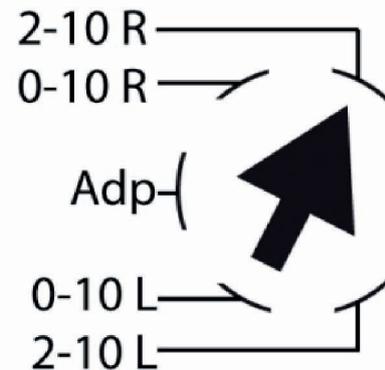
### Mode- switch

Mode- switch with five positions at the housing

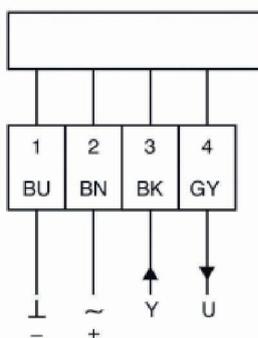
- Rotary direction right 2-10 V
- Rotary direction right 0-10 V
- Adp = Adaption
- Rotary direction left 0-10 V
- Rotary direction left 2-10 V

### Adaption journey

- Adaption on angle of rotation < 90°
- Actuator power-off
- Setting the mechanical end stops
- Actuator power-on
- Adaption to enable
- Actuator adaption on angular range
- Adaption to disable
- “Y” refers to the measured angular range



## Connection / Safety remarks



### Safety remarks

- Connect via safety isolation transformer
- 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

