

## Technical data sheet

# 227-230-05

## Rotary drive without spring return

### Description

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

- Torque Motor            5 Nm
- Nominal Voltage       230 VAC/DC
- Control                 2/3 Point
- Damper size            up to approx. 1 m<sup>2</sup>
- Damper coupling       Clamp  
                                    $\diamond$  8-15 mm /  $\varnothing$  8-20 mm



### Technical data

<b>Electrical data</b>	Nominal voltage	230 VAC/DC
	Nominal voltage range	85...265 VAC
	Power consumption motor (motion)	2,5 W
	Power consumption standby (end position)	1,0 W
	Wire sizing	5,5 VA
	Control	2/3 Point
	Position feedback	-
	Auxiliary switch	-
	Contact load	-
	Switching point	-
	Connection Motor	Cable 1000 mm, 3 x 0,75 mm <sup>2</sup> (halogen free)
	Connection Auxiliary switch	-
	Connection Position feedback	-
Connection GUAC	-	
<b>Functional data</b>	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° can be limited with adjustable mechanical end stop min 20°.
	Running time Motor	150 s / 90°
	Sound power level Motor	< 35 dB(A)
	Damper coupling	Clamp $\diamond$ 8-15 mm / $\varnothing$ 8-20 mm
	Position indication	mechanical with pointer

## Technical data

<b>Functional data</b>	Service life	> 60'000 cycles (0° - 95° - 0°)
<b>Safety</b>	Protection class	II (double insulation)
	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	4 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
<b>Dimensions/ Weight</b>	Ambient humidity	5...95% r.F., non condensing (EN 60730-1)
	Maintenance	maintenance free
	Dimensions	115 x 65 x 61 mm
	Weight	ca. 530 g

## Operating mode / Properties

### Operating mode

#### 2- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. Is also BK (1+2+3) connected to the power supply the actuator is moving to position 0.

#### 3- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. If the power supply is interrupted the actuator maintains its current position. Is also BU+BK (1+3) connected to the power supply the actuator is moving in direction 0.

The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

### Direct mounting

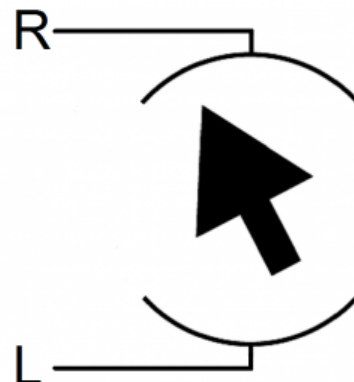
Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.

### Manual override

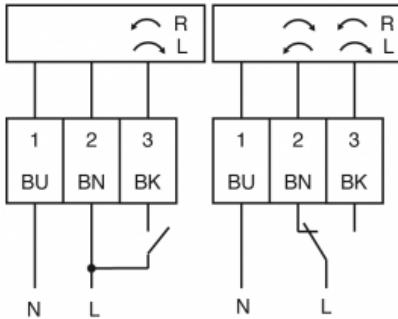
Manual override is possible with the self-resetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed)

### Rotary direction switch

R= clockwise  
L= counter clockwise



## Connection / Safety remarks


**Safety remarks**

- Attention mains voltage
- 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

