

Technical data sheet

363-230-20G-S2-P5

Rotary actuator

Description

Rotary actuator for adjusting dampers of 90° angle of rotation in HVAC installations

- **Running time motor** 60 s / 90°
- **Torque motor** 20 Nm
- **Nominal voltage** 230 VAC/DC
- **Control** 2-/3-point
- **Feedback potentiometer** P5 = 5 kΩ
- **Auxiliary switch** 2x freely adjustable
- **Damper size** up to approx. 4 m²
- **Shaft coupling** Clamp
 \diamond 9-18 mm / \varnothing 9-26 mm



Technical data

Nominal voltage

Nominal voltage	230 VAC/DC
Nominal voltage range	85...265 VAC/DC
Power consumption motor (motion)	4,0 W
Power consumption standby (end position)	1,5 W
Wire sizing	7,0 VA
Control	2/3 Point
Position feedback	
Auxiliary switch	2 x SPDT (Ag)
Contact load	5 (2,5) A, 250 VAC
Switching point	0...95°
Connection motor	Cable 1000 mm, 3 x 0,75 mm ² (halogen free)
Connection auxiliary switch	Cable 1000 mm, 6 x 0,75 mm ² (halogen free)
Connection position feedback	Cable 1000 mm, 3 x 0,75 mm ² (halogen free)
Connection GUAC	-

Functional data

Torque	> 20 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
Running time motor	< 60 s / 90°
Sound power level	

Technical data

Functional data

Shaft coupling	Clamp ∅ 9-18mm / Ø 9-26mm
Position indication	mechanical with pointer
Service life	> 60'000 cycles (0° - 95° - 0°)

Safety

Protection class	II (double insulation)
Degree of protection	IP54 in any mounting position
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	4kV (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.H., non condensing (EN 60730-1)
Maintenance	maintenance free

Dimensions/ Weight

Dimensions	193 x 96 x 60 mm
Weight	1700 g

Operating mode / Properties

Operating mode

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

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

Signaling

The two integrated auxiliary switches are freely adjustable in the angle of 0 - 95°. There are activated corresponding to the adjusted angle. The damper position can be checked by the mechanical pointer.

Direct mounting

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

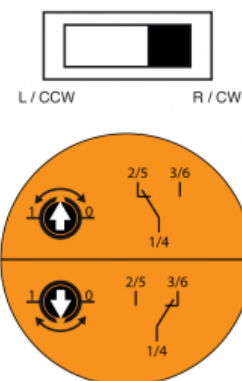
Manual override

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

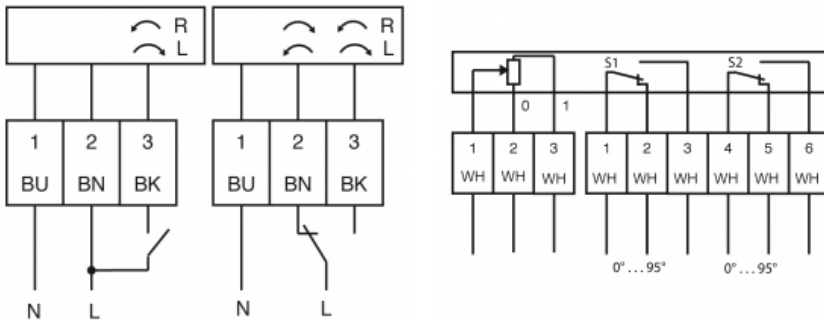
Mode switch

DIP switch under the case cover

R / CW = rotary direction right / clockwise
L / CWW = rotary direction left / counter clockwise



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 manufacturers (cross-section, design, installation site), and the air flow conditions must be observed.

Technical drawing

