

Technical data sheet

381-230-20

Spring return

Description

Spring-return Actuator for adjusting and regulating dampers and valves in air conditioning and ventilation.

- Torque Motor 20 Nm
- Torque Spring 20 Nm
- Nominal Voltage 230 VAC/DC
- Control 2-Point
- Damper size up to approx 3 m²
- Damper shaft Clamp
 \diamond 9-16 mm / \varnothing 9-20 mm



Technical data

Nominal voltage	Nominal voltage	230 VAC (50/60 Hz), 230 VDC
	Nominal voltage range	85...265 VAC/DC
	Power consumption Motor (Motion)	9,0 W
	Power consumption Standby (end position)	2,5 W
	Wire sizing	14,0 VA
	Control	2-Point
	Position feedback	-
	Auxiliary switch	-
	Contact load	-
	Switching point	-
	Connection Motor	Cable 1000mm, 2 x 0,75mm² (halogen free)
	Connection Auxiliary switch	-
	Connection GUAC	-
Functional data	Torque Motor	>20 Nm
	Torque Spring	>20 Nm
	Synchronised speed	±5%
	Direction of rotation	selected by mounting
	Manual override	Manual operation
	Angle of rotation	0°...max.+95°
	Running time Motor	<150 s / 90°
	Running time Spring	<20 s / 90°
	Sound power level Motor	<45 dB(A)
	Sound power level Spring	<65 dB(A)
	Damper coupling	Clamp \diamond 9...16 mm / \varnothing 9...20 mm
	Position indication	mechanical with pointer

Technical data

Functional data	Service life	>60.000 cycles (0°...+95°...0°)
Safety	Protection class	II (double insulation)
	Degree of protection	IP54
	EMC	CE (2004/108/EG)
	LVD	CE (2006/95/EG)
	RoHS	CE (2011/65/EU)
	Mode of operation	Typ 1.AA B (EN60730-1)
	Rated impulse voltage	4 kV (EN60730-1)
	Control pollution degree	3 (EN60730-1)
	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	250 x 98 x 60 mm
	Weight	ca. 2.600g

Operating mode / Properties

Operating mode

Through connecting the power supply to BU+BN (1+2), the actuator moves to position 1 while the pre-tensioned spring is wound up the same time. If the power supply is interrupted the actuator is moving back to position 0 by the spring power. The actuator is still maintaining the minimum torque at the damper spindle.

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

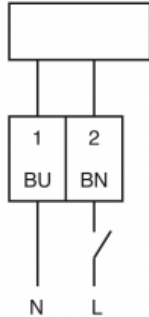
Direct mounting

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 operation

The actuator can be operated only manually while the power supply is off. The supplied lever is to open and lock the damper position. The lock stays until the power supply is put on.

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.
- In 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

