GRUNER
Schalten und Bewegen

Technical data sheet

361-230-10

Spring return actuator

Description

Spring return actuator for adjusting dampers in HVAC installations

- **Running time motor** **75 s / 90°**
- **Running time spring** **20 s / 90°**
- **Torque motor** **10 Nm**
- **Torque spring** **10 Nm**
- **Nominal voltage** **230 VAC/DC**
- **Control** **2-point**
- **Damper size** **up to approx. 2 m²**
- **Shaft coupling** **clamp**
  ◊ 9-18 mm / Ø 9-26 mm

Technical data

Electrical data		
	Nominal voltage	230 VAC/DC, 50/60 Hz
	Nominal voltage range	85...265 VAC/DC
	Power consumption motor (motion)	5,5 W
	Power consumption standby (end position)	1,5 W
	Wire sizing	11,5 VA
	Control	2-point
	Feedback signal	-
	Auxiliary switch	-
	Contact load	-
	Switching point	-
	Connection motor	cable 1000 mm, 2 x 0,75 mm² (halogen free)
	Connection feedback potentiometer	-
	Connection auxiliary switch	-
	Connection GUAC	-
Functional data		
	Torque motor	> 10 Nm
	Torque spring	> 10 Nm
	Damper size	up to approx. 2 m²
	Synchronised speed	±5%
	Direction of rotation	selected by mounting
	Manual override	manual operation
	Angle of rotation	0°...max. 95° can be limited with adjustable mechanical end stops
	Running time motor	< 75 s / 90°
	Running time spring	< 20 s / 90°
	Sound power level motor	< 45 dB(A)

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Functional data		
	Sound power level spring	< 65 dB(A)
	Shaft coupling	clamp ◊ 9-18 mm / Ø 9-26 mm
	Position indication	mechanical with pointer
	Service life	> 60 000 cycles (0°...95°...0°)
Safety		
	Protection class	II (double insulation)
	Degree of protection	IP 54 (cable downwards)
	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	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
	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

Through connecting the power supply to BU+BN (1+2), the actuator move to postion 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, requires no limit switches and automatically stops when the end stop is reached.

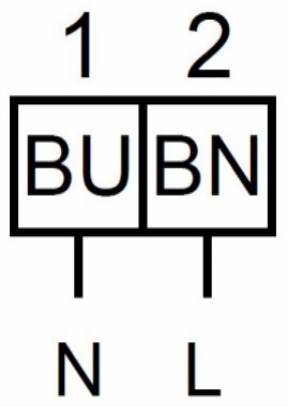
Direct mounting

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

Manual override

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.

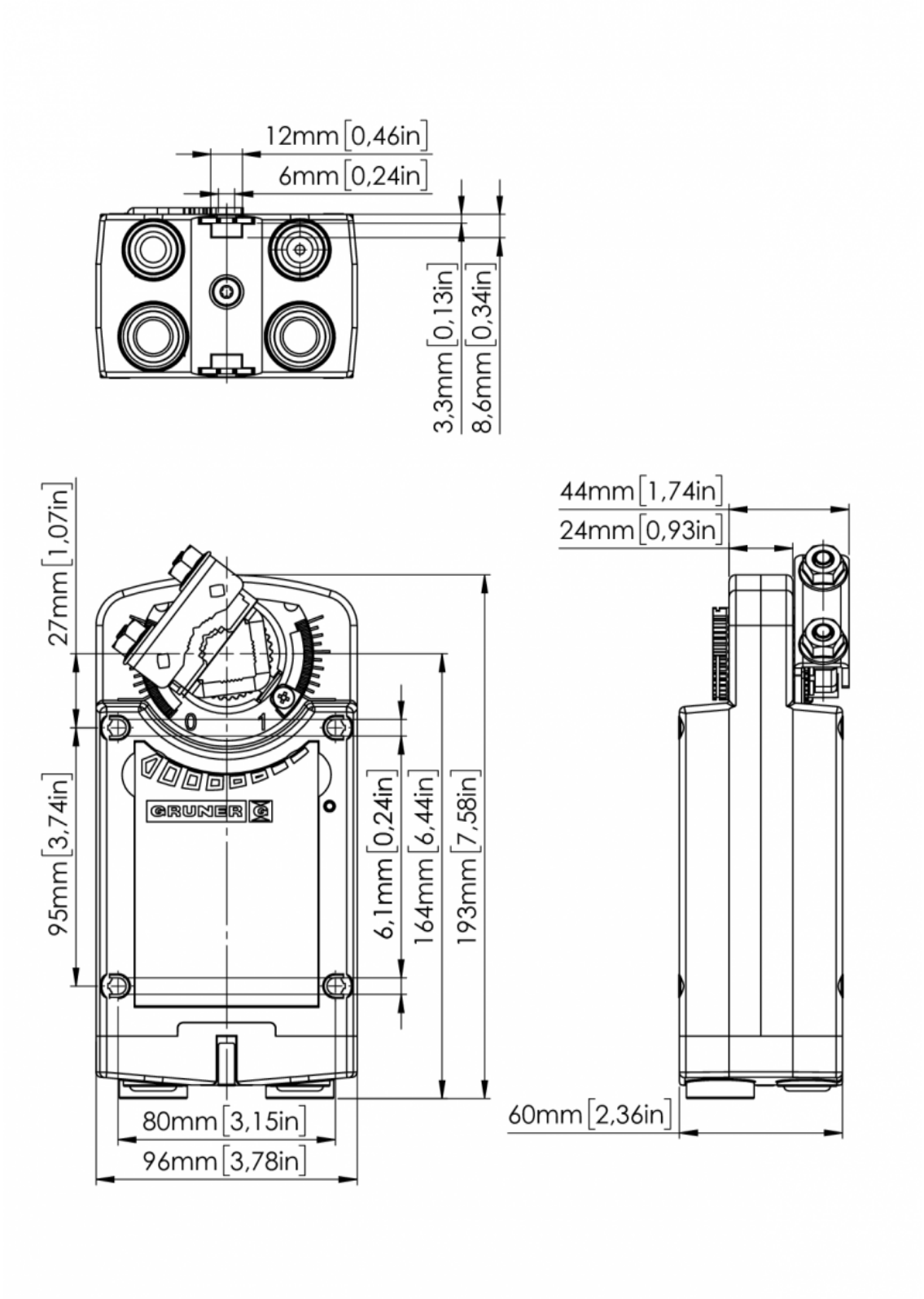
Connection / Safety remarks



Safety remarks

-Caution: power supply voltage!
-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 manufacturer´s (cross-section, design, installation site), and the air flow conditions must be observed.

Technical drawing



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