GRUNER
Schalten und Bewegen

Technical data sheet

225-230T-05

Rotary actuator

Description

Rotary actuator for adjusting dampers in HVAC installations

- **Running time** **60...120 s / 90°**
- **Torque** **5 Nm**
- **Nominal voltage** **230 VAC/DC**
- **Control** **2-/3-point**
- **Damper size** **up to approx. 1 m²**
- **Shaft coupling** **clamp**
  ◊ 8-12 mm / Ø 8-16 mm

Technical data

Electrical data		
	Nominal voltage	230 VAC/DC, 50/60 Hz
	Nominal voltage range	85...265 VAC/DC
	Power consumption motor (motion)	1,5 W
	Power consumption standby (end position)	1,0 W
	Wire sizing	3,0 VA
	Control	2-/3-point
	Feedback signal	-
	Auxiliary switch	-
	Contact load	-
	Switching point	-
	Connection motor	screw terminals, 3-pin 0,5...1,5 mm²
	Connection feedback potentiometer	-
	Connection auxiliary switch	-
	Connection GUAC	-
Functional data		
	Torque	> 5 Nm
	Damper size	up to approx. 1 m²
	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 stops
	Running time	60...120 s / 90° (load-dependent)
	Sound power level	< 45 dB(A)
	Shaft coupling	clamp ◊ 8-12 mm/ Ø 8-16 mm

Technical data

Functional data		
	Position indication	mechanical with pointer
	Service life	> 60 000 cycles (0°...95°...0°)
Safety		
	Protection class	II (double insulation)
	Degree of protection	IP 52 (cable port downwards)
	EMC	CE (2014/30/EU)
	LVD	CE (2014/35/EU)
	RoHS	CE (2011/65/EU - 2015/863/EU - 2017/2102/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	145 x 70 x 61 mm
	Weight	450 g

Operating mode / Properties

Operating mode

2 point:
Connect power supply to terminal 1+2, actuator drives to position 1. Is also terminal 3 connected to the power supply, actuator drives to position 0.

3 point:
Connect power supply to terminal 1+2, actuator drives to position 1. Is terminal 1+3 connected to the power supply, actuator drives to position 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 shaft with a clamp, protection against rotating with enclosed anti-rotation lock or rather at intended attachment points.

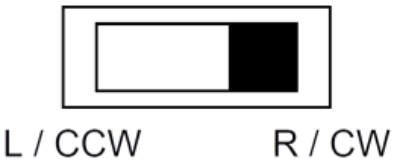
Manual override

Manual override with self-resetting pushbutton possible (the gear is disengaged as long as the button is pressed).

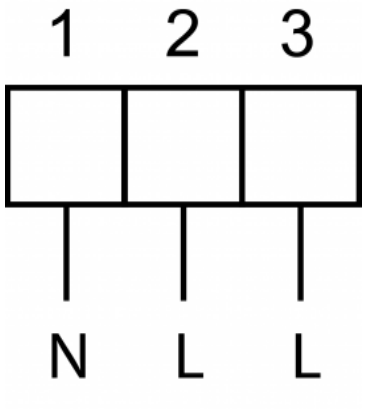
Mode switch

DIP switch under the case cover

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



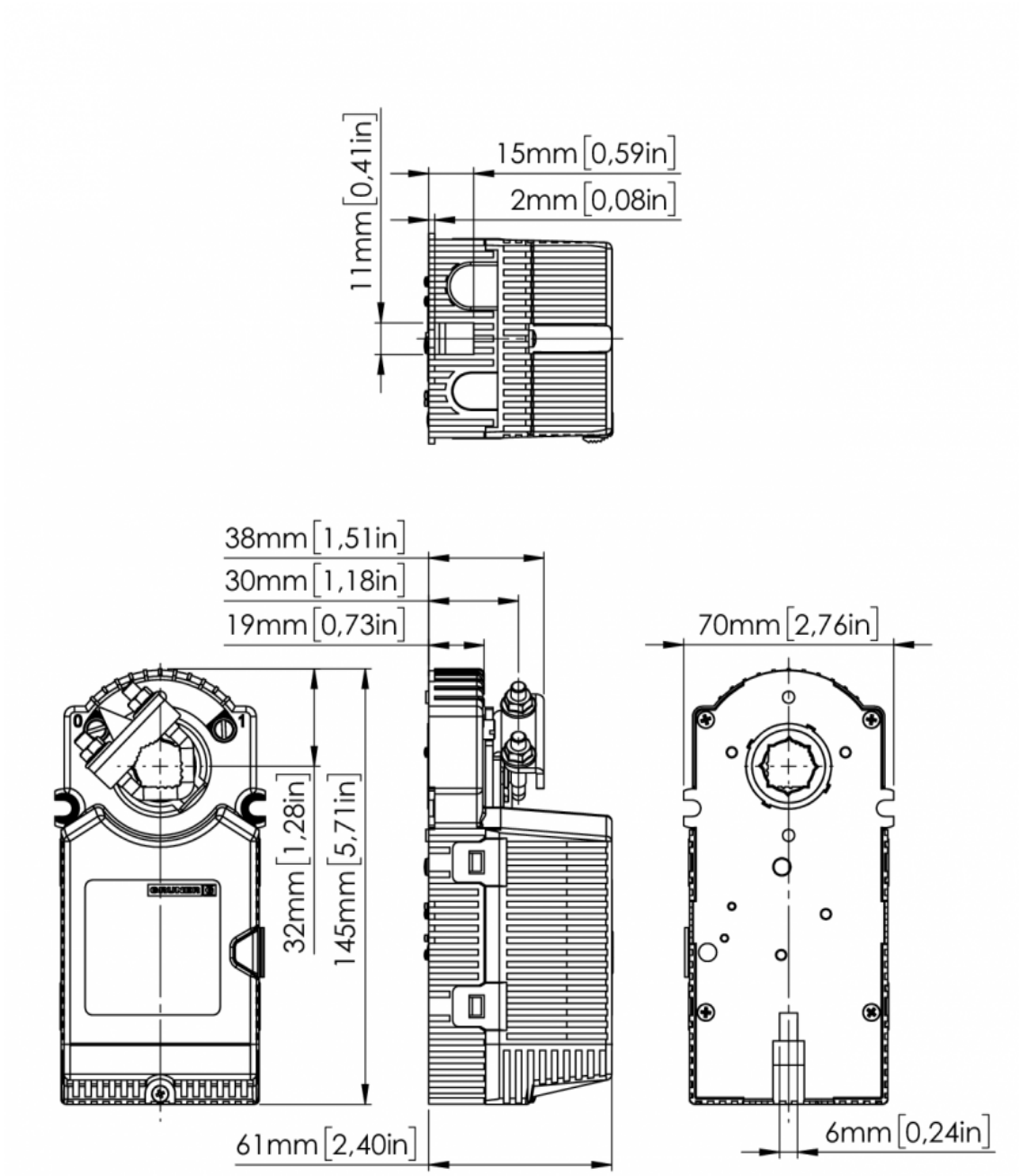
Connection / Safety remarks



Safety remarks

-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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