GRUNER
SWITCH TO INNOVATIONS

Technical data sheet

363-024-20/RE25/RE20
Rotary servomotor

Description

Rotary servomotor for adjusting dampers in HVAC installations

- Running time 150 s / 90°
- Torque 20 Nm
- Nominal voltage 24 VAC/DC
- Control 2-/3-point
- Damper size up to approx. 4 m²
- Shaft coupling two clamps
  Ø 9-26 mm [0,35-1,00 in]
  Ø 8-20 mm [0,31-0,79 in]

Technical data

Electrical data	Nominal voltage	24 VAC/DC, 50/60 Hz
	Voltage range	19...29 VAC/DC
	Power consumption motor (motion)	3,0 W
	Power consumption standby (end position)	1,5 W
	Wire sizing	4,5 VA
	Control	2-/3-point
	Feedback signal	-
	Auxiliary switch	-
	Contact load	-
	Switching point	-
	Connection motor	cable 1000 mm, 3 x 0,75 mm² (halogen free)
	Connection feedback potentiometer	-
	Connection auxiliary switch	-
	Connection GUAC	-
Functional data	Torque	

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Technical data

Functional data	Damper size	up to approx. 4 m²
	Synchronized 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 stops
	Running time	60 s / 90°
	Sound power level	< 45 dB(A)
	Shaft coupling	2 clamps Ø 9-26 mm [0,35-1,00 in] Ø 8-20 mm [0,31-0,79 in]
	Position indication	mechanical with pointer
	Service life	> 60'000 cycles (0° - 95° - 0°)
Safety	Protection class	III (safety extra-low voltage)
	Degree of protection	IP 54
	Cable mounting type	
	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 supply / control	0,8 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

Functionality / Properties

Operating mode

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

3 point:
Connect power supply to wire 1+2, servomotor drives to position 1. Is wire 1+3 connected to the power supply, servomotor drives to position 0.

The servomotor 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.

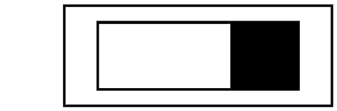
Manual override

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



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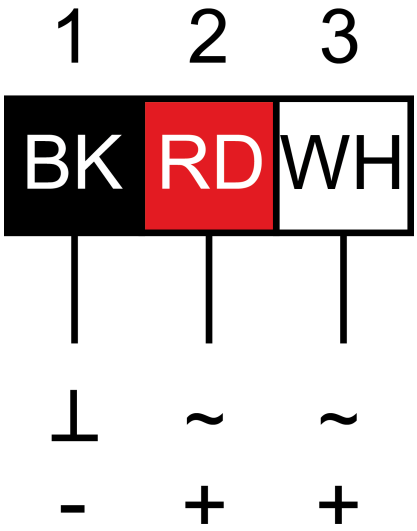
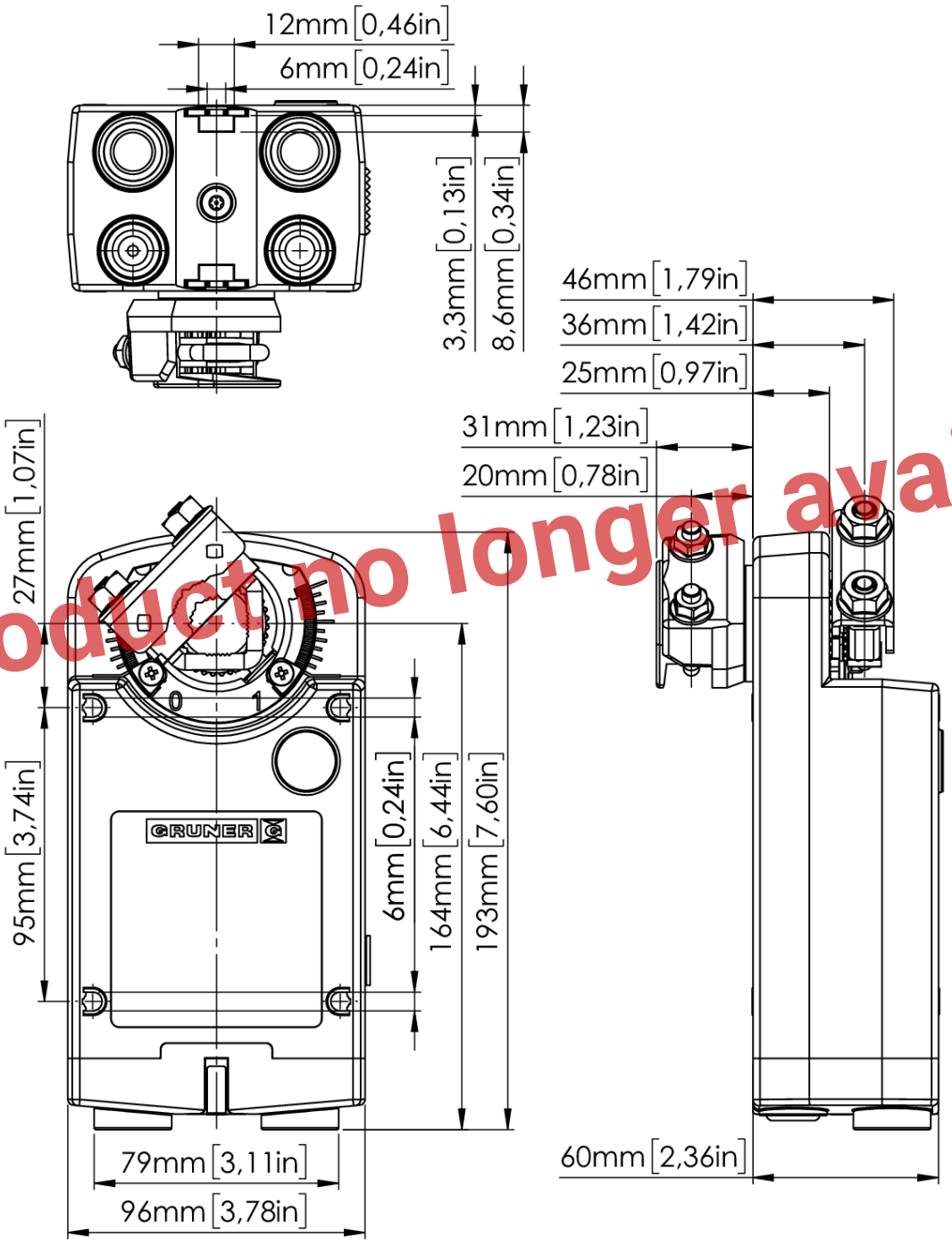
Connector / Security Note



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.
- Cables must not be removed from the device.
- The cable of this servomotor cannot be replaced. If the cable is damaged, the servomotor should be scrapped.
- 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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