

Technical data sheet

227C-230-05 Rotary actuator

Description

Rotary actuator for adjusting dampers in HVAC installations

Running time
 Torque
 Nominal voltage
 Control
 Damper size
 100 s / 90°
 S Nm
 230 VAC/DC
 continuous control (0)2...10 VDC
 up to approx. 1 m²

• Shaft coupling clamp

♦ 8-15 mm / Ø 8-20 mm



Technical data

Electrical data	Nominal voltage	230 VAC/DC, 50/60 Hz
	Nominal voltage range	85265 VAC/DC
	Power consumption motor (motion)	2,5 W
	Power consumption standby (end position)	1,0 W
	Wire sizing	5,5 VA
	Control	continuous control (0)210 VDC / Ri > (100 k Ω) 50 k Ω (0)420 mA / Rext. = 500 Ω
	Feedback signal	(0)210 VDC, max. 5 mA
	Auxiliary switch	-
	Contact load	-
	Switching point	-
	Connection motor	cable 1000 mm, 6 x 0,75 mm² (halogen free)
	Connection feedback potentiometer	-
	Connection auxiliary switch	-
	Connection GUAC	-



Technical data

Functional data	Torque	5 Nm
	Damper size	up to approx. 1 m ²
	Synchronised speed	±5%
	Direction of rotation	selected by mounting
	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	100 s / 90°
	Sound power level	< 35 dB(A)
	Shaft coupling	clamp ◊ 8-15 mm / Ø 8-20 mm
	Position indication	mechanical with pointer
	Service life	> 100 000 cycles (0°95°0°) > 1 500 000 partial cycles (max. ±5°)

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 - 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	595% r.H., non condensing (EN 60730-1)
	Maintenance	maintenance free
Dimensions / Weight	Dimensions	117 x 67 x 89 mm
	Weight	450 g



Functionality / Properties

Operating mode

Connect power supply to wire 1+2 of two wire cable, a reference signal Y to wire 3 in range of (0)2...10 VDC and ground from reference/feedback signal to wire 4 of four wire cable, actuator drives to its specified position. The actual damper position (0...100%) is a feedback signal U on wire 4 of four wire cable for example to share with other actuators

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.

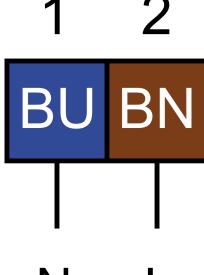
Manual override

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

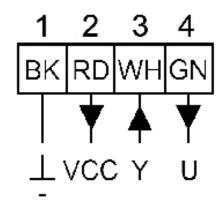
Adaption drive

- Actuator power off
- Setting the mechanical end stops
- Supply conductor "Y" with 15 VDC
- Actuator power on
- Adaption enable
- Actuator drive to position 0
- Actuator drive to position 1
- Actuator power off, if desired angular range reached or rather if actuator reached endstop

Connector / Security Note



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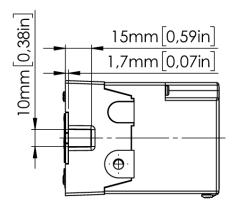


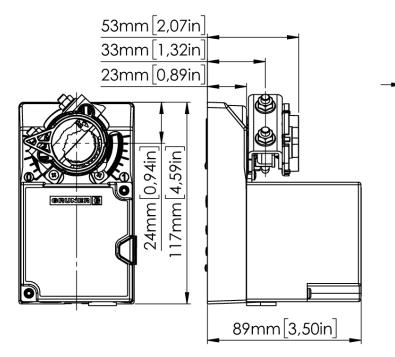
Safety remarks

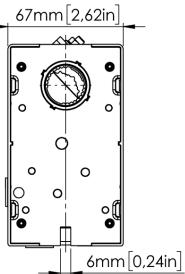
- Caution: power supply voltage!
- The device is not allowed to be used outside the specified field of application, especially in airplanes.
- It may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- The device 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 (crosssection, design, installation site), and the air flow conditions must be observed.



Technical Drawing







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