

## **Technical data sheet**

# 363-230-20-S2 Rotary actuator

## Description

Rotary actuator for adjusting dampers in HVAC installations

Running time
 Torque
 Nominal voltage
 Control
 Auxiliary switch
 150 s / 90°
 20 Nm
 230 VAC/DC
 2-/3-point
 2x freely adjustable

• Damper size up to approx. 4 m<sup>2</sup>

• 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	85265 VAC/DC
	Power consumption motor (motion)	3,0 W
	Power consumption standby (end position)	1,5 W
	Wire sizing	7,0 VA
	Control	2-/3-Punkt
	Feedback signal	-
	Auxiliary switch	2 x SPDT (Ag)
	Contact load	5 (2,5) A, 250 VAC
	Switching point	095°
	Connection motor	cable 1000 mm, 3 x 0,75 mm² (halogen free)
	Connection feedback potentiometer	-
	Connection auxiliary switch	cable 1000 mm, 6 x 0,75 mm² (halogen free)
	Connection GUAC	-
Functional data	Torque	20 Nm



# Technical data

Functional data  Damper size Synchronized speed			
Direction of rotation Manual override  Manual overide with adjustable mechanical with pointer  Manual overlead in 150 s / 90°  Sound power level  4 5 4 5 48(A)  Liamp o 9-26 mm / 9-26 mm  Manual overlead in 150 s / 90°  Sound power level  4 5 4 5 48(A)  Liamp o 9-18 mm / Ø 9-26 mm  Melandie in diving olimpion  Manual overlead in 150 s / 90°  Sound power level  4 5 6 6 000 overlead in 150 s / 90°  Manual overlead in 150 s / 90°  Man	Functional data	Damper size	up to approx. 4 m²
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 150 s / 90° Sound power level < 45 dB(A) Shaft coupling clamp 0°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 mounting type EMC CE (2014/30/EU) LVD CE (2014/35/EU) ROHS CE (2011/35/EU - 2015/863/EU - 2017/2102/EU)  Mode of operation Typ 1 (EN 60730-1) Rated impulse voltage supply / control  Control pollution degree 3 (EN 60730-1) Ambient temperature normal -30°C+50°C operation Storage temperature -30°C+50°C Ambient humidity 595% r.H., non condensing (EN 60730-1) Maintenance maintenance free		Synchronized speed	±5%
Angle of rotation		Direction of rotation	selected by switch
Running time 150 s / 90° Sound power level < 45 dB(A) Shaft coupling clamp 6 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 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 Control pollution degree 3 (EN 60730-1) Ambient temperature normal operation Storage temperature -30°C+80°C Ambient humidity 595% r.H., non condensing (EN 60730-1) Maintenance maintenance free		Manual override	
Sound power level   Shaft coupling		Angle of rotation	
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 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 Control pollution degree 3 (EN 60730-1) Ambient temperature normal operation Storage temperature Storage temperature -30°C+50°C Ambient humidity 595% r.H., non condensing (EN 60730-1) Maintenance maintenance free		Running time	150 s / 90°
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Safety		Shaft coupling	clamp ◊ 9-18 mm / Ø 9-26 mm
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Maintenance maintenance free  Dimensions / Weight Dimensions 193 x 96 x 60 mm		Storage temperature	-30°C+80°C
Dimensions / Weight Dimensions 193 x 96 x 60 mm		Ambient humidity	
•		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, actuator drives to position 1. Is also wire 3 connected to the power supply, actuator drives to position 0.

#### 3 point:

Connect power supply to wire 1+2, actuator drives to position 1. Is wire 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 selfresetting pushbutton possible (the gear is disengaged as long as the button is pressed).

#### Signaling

The two integrated auxiliary switches are freely adjustable in the angle of 0 - 95°. There are activated corresponding to the adjusted angle. The damper position can be checked by the mechanicel pointer.

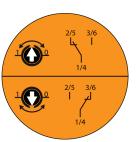
#### Mode switch

DIP switch under the case cover

R / CW: rotary direction right / clockwise

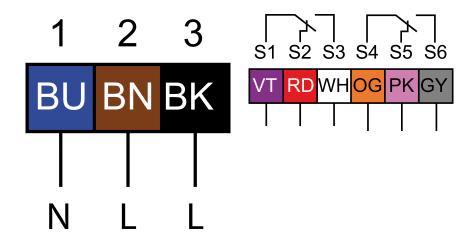
L / CWW: rotary direction left / counter clockwise







## **Connector / Security Note**



#### 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**

