

#### Technical data sheet

# 341-024-05(-S2F) Spring return actuator

# **Description**

Spring return actuator for adjusting dampers in HVAC Installations.

Running time motor
Running time spring
Torque motor
Torque spring
Nominal voltage
Control
75 s / 90°
20 s / 90°
5 Nm
5 Nm
24 VAC/DC
2-point

• Damper size up to approx. 1 m²

Shaft coupling Clamp

◊ 8-13 mm / Ø 8-16.5 mm



# Technical data

Electrical (	data
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Nominal voltage	24 VAC/DC, 50/60Hz
Nominal voltage range	1929 VAC/DC
Power consumption motor (motion)	6.5 W
Power consumption standby (end position)	2.0 W
Wire sizing	9.0 VA
Control	2-point
Connection motor	cable 1000 mm, 2 x 0. 75 mm² (halogen free)
Connection feedback potentiometer	-
Connection GUAC	-
Feedback signal	-
341-024-05-S2F	
Auxiliary switch	2 x SPDT (ag)
Contact load	5 (2.5) A, 250 VAC
Switching point	10° / 85°
Connection auxiliyar switch	cable 1000 mm, 6 x 0. 75 mm² (halogen free)

1

**Functional data** 

Torque

Torque spring

Synchronized speed **Direction of rotation** 

Manual override

Angle of rotation

**Running Time motor** 

Running time spring

**Position indication** 

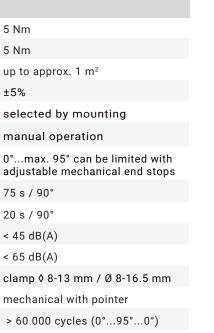
Shaft coupling

Service life

Sound power level motor

Sound power level spring

Damper size



# Safety

Protection class	III (safety extra-low voltage)
clamp ♦ 8-13 mm / Ø 8-16,5 mm	II (double insulation)
Degree of protection	IP 54
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	595% r.H., non-condensing (EN60730-1)
Maintenance	Maintenance free

5 Nm

5 Nm

up to approx. 1 m<sup>2</sup>

selected by mounting

mechanical with pointer

manual operation

75 s / 90°

20 s / 90°

< 45 dB(A)

< 65 dB(A)

## Dimensions/Weight

Dimensions	145 x 75 x 70 mm
Weight	1000 g
Weight (-S2F)	1100 g

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# **Functionality / Properties**

#### Operating mode

Connect power supply to wire 1+2, actuator drives to postion 1 while the pre-tensioned spring is wound up the same time. If the power supply is interrupt, actuator drives back to position 0 by spring power. Theactuator 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, protection against rotating with enclosed anti-rotation lock or rather at intended attachment points.

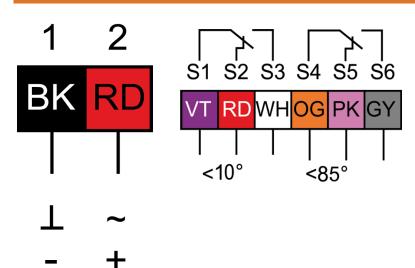
#### Manual override

The actuator can only be operated manually while the power supply is off. The supplied lever is used to open and lock the damper position. The lock stays until the power supply is switched on again. Signaling.

## Signaling

The two integrated auxiliary switches are activated at he fixed switching positions (10° and 85°). The damper position can be checked by the mechanicel pointer.

### **Connector / Security Note**

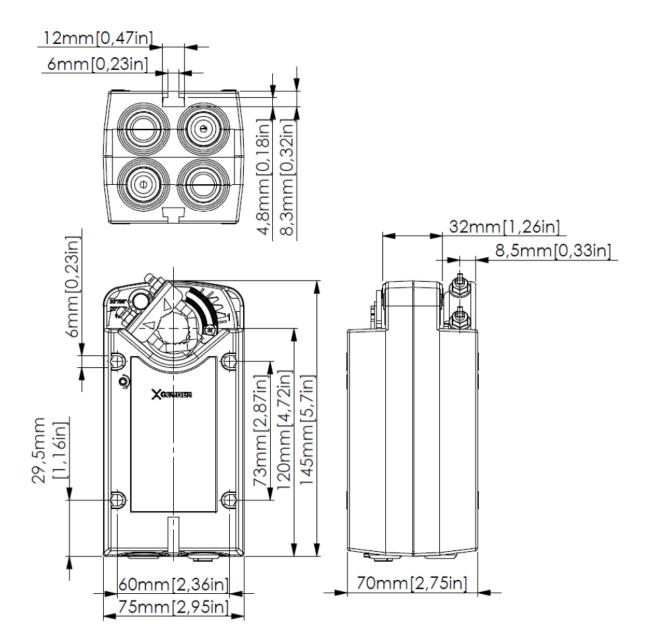


# Safety remarks

- 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.
- The device is not allowed to be disposed of as house hold 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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