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### Technical data sheet

# 363C-024-30 Rotary Actuator

# **Description**

Rotary actuator for adjusting dampers in HVAC installations.

Running time 150 s / 90°
 Torque 30 Nm
 Nominal voltage 24V AC/DC continuous control (0)2...10 VDC
 Damper size up to approx. 6 m²
 Damper coupling clamp

♦ 9-18 mm / Ø 9-26 mm



### Technical data

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Nominal voltage	24V AC/DC, 50/60Hz
Nominal voltage range	1929 VAC/DC
Power consumption motor (motion)	4.5 W
Power consumption standby (end position)	1.5 W
Wire sizing	6.0 VA
Control	continuous control (0)210 VDC / Ri > 100 kΩ (0)420 mA
Feedback signal	(0)210 VDC, max. 5 mA
Auxiliary switch	-
Contact load	-
Switching point	-
Connection motor	cable 1000 mm, 4 x 0.75 mm² (halogen free)
Connection feedback potentiometer	-
Connection auxiliary switch	-
Connection GUAC	-

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Functional data		
	Torque	30 Nm
	Damper size	up to approx. 6 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	150 s / 90°
	Sound power level	< 45 dB(A)
	Shaft coupling	clamp ◊ 9-18 mm / Ø 9-26 mm
	Position indication	mechanical with pointer
	Service life	> 60 000 cycles (0°95°0°) > 1 000 000 partial cycles (max. ±5°)
Safety		
	Protection class	III (safety extra-low voltage)
	Protection class  Degree of protection	III (safety extra-low voltage) IP 54
	Degree of protection	IP 54
	Degree of protection EMC	IP 54 CE (2014/30/EU)
	Degree of protection EMC LVD	IP 54 CE (2014/30/EU) CE (2014/35/EU) CE (2011/65/EU - 2015/863/EU
	Degree of protection  EMC  LVD  RoHS	IP 54 CE (2014/30/EU) CE (2014/35/EU) CE (2011/65/EU - 2015/863/EU - 2017/2102/EU)
	Degree of protection  EMC  LVD  RoHS  Mode of operation	IP 54 CE (2014/30/EU) CE (2014/35/EU) CE (2011/65/EU - 2015/863/EU - 2017/2102/EU) Typ 1 (EN 60730-1)
	Degree of protection  EMC  LVD  RoHS  Mode of operation  Rated impulse voltage supply / control	IP 54 CE (2014/30/EU) CE (2014/35/EU) CE (2011/65/EU - 2015/863/EU - 2017/2102/EU) Typ 1 (EN 60730-1) 0.8 kV (EN 60730-1)
	Degree of protection  EMC  LVD  RoHS  Mode of operation  Rated impulse voltage supply / control  Control pollution degree  Ambient temperature normal	IP 54 CE (2014/30/EU) CE (2014/35/EU) CE (2011/65/EU - 2015/863/EU - 2017/2102/EU) Typ 1 (EN 60730-1) 0.8 kV (EN 60730-1) 3 (EN 60730-1)
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	Degree of protection  EMC  LVD  RoHS  Mode of operation  Rated impulse voltage supply / control  Control pollution degree  Ambient temperature normal operation  Storage temperature	IP 54 CE (2014/30/EU) CE (2014/35/EU) CE (2011/65/EU - 2015/863/EU - 2017/2102/EU) Typ 1 (EN 60730-1) 0.8 kV (EN 60730-1) 3 (EN 60730-1) -30°C+50°C -30°C+80°C 595% r.H., non-condensing
	Degree of protection  EMC  LVD  RoHS  Mode of operation  Rated impulse voltage supply / control  Control pollution degree  Ambient temperature normal operation  Storage temperature  Ambient humidity	IP 54 CE (2014/30/EU) CE (2014/35/EU) CE (2011/65/EU - 2015/863/EU - 2017/2102/EU) Typ 1 (EN 60730-1) 0.8 kV (EN 60730-1) 3 (EN 60730-1) -30°C+50°C -30°C+80°C 595% r.H., non-condensing (EN 60730-1)
Dimensions/Weight	Degree of protection  EMC  LVD  RoHS  Mode of operation  Rated impulse voltage supply / control  Control pollution degree  Ambient temperature normal operation  Storage temperature  Ambient humidity	IP 54 CE (2014/30/EU) CE (2014/35/EU) CE (2011/65/EU - 2015/863/EU - 2017/2102/EU) Typ 1 (EN 60730-1) 0.8 kV (EN 60730-1) 3 (EN 60730-1) -30°C+50°C -30°C+80°C 595% r.H., non-condensing (EN 60730-1)

Weight

1600 g



## **Functionality / Properties**

### Operating mode

Connect power supply to wire 1+2 and a reference signal Y to wire 3 in range of (0)2...10 VDC, actuator drives to its specified position. The actual damper position (0...100%) is a feedback signal U on wire 4 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

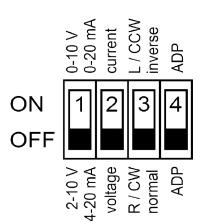
Manual override with self resetting pushbutton possible (the gear is disengaged as long as the button is pressed)

### Mode switch

DIP switch under the case cover

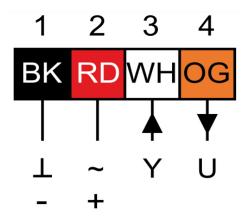
### Adaption drive

- Actuator power off
- Setting the mechanical end stops
- Actuator power on
- Adaption enable
- Actuator drive to position 0
- Actuator drive to position 1
- Adaption disable, if desired angular range reached or rather if actuator reached endstop
- "Y" refers to the measured angular range





# **Connector / Security Note**

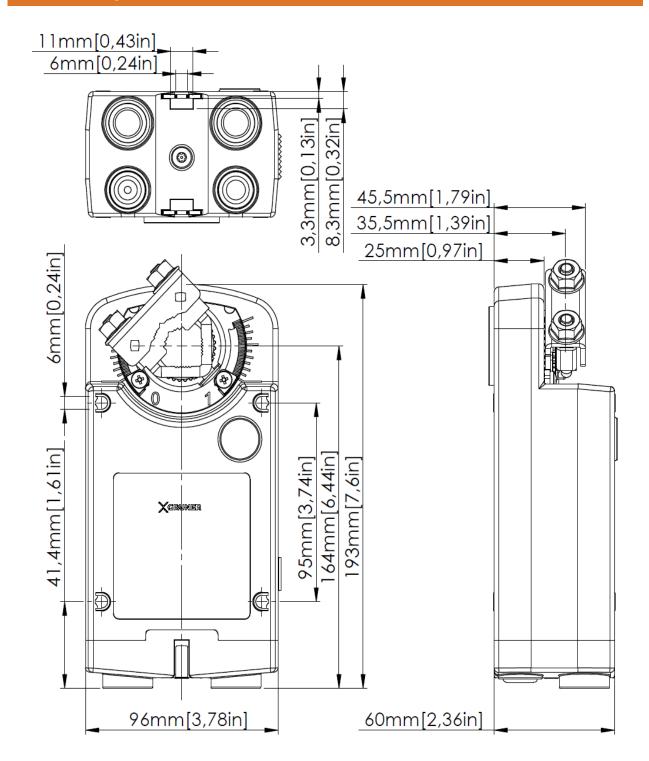


### Safety remarks

- 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 actuator cannot be replaced. If the cable is damaged, the actuator 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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