

## **Technical data sheet**

Damper actuator for adjusting dampers in technical building installations

- Air damper size up to approx. 0.4 m<sup>2</sup>
- Torque motor 2 Nm
- Nominal voltage AC/DC 24 V
- Control Open/close, 3-point
- Degree of protection IP66 Optimum protection in smallest size



## **Technical data**

Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.228.8 V / DC 19.228.8 V
	Power consumption in operation	0.5 W
	Power consumption in rest position	0.2 W
	Power consumption for wire sizing	1 VA
	Connection supply / control	Cable 1 m, 3x 0.75 mm <sup>2</sup>
	Parallel operation	Yes (note the performance data)
Functional data	Torque motor	2 Nm
	Direction of motion motor	clockwise rotation
	Direction of motion note	See "Electrical installation" (table in wiring diagrams)
	Manual override	with magnet
	Angle of rotation	0287.5°
	Angle of rotation note	Without limitation: endless 315° with one end stop clip mounted on the actuator
	Running time motor	75 s / 90°
	Sound power level, motor	35 dB(A)
	Mechanical interface	Universal shaft clamp 612.7 mm
	Position indication	Mechanical, pluggable (with integrated magnet for gear train disengagement)
Safety data	Protection class IEC/EN	III, Safety Extra-Low Voltage (SELV)
	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP66
	Degree of protection NEMA/UL	NEMA 2
	Housing	UL Enclosure Type 2
	EMC	CE according to 2014/30/EU
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
	UL Approval	cULus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1
		The UL marking on the actuator depends on the production site, the device is UL-compliant in any case
	Hygiene test	According to VDI 6022 Part 1 / SWKI VA 104-01, cleanable and disinfectable, low emission
	Type of action	Туре 1



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Safety data	Pollution degree	3
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-3050°C [-22122°F]
	Storage temperature	-4080°C [-40176°F]
	Servicing	maintenance-free
Weight	Weight	0.23 kg

## Safety notes

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	<ul> <li>This device has been designed for use in stationary heating, systems and must not be used outside the specified field of a or in any other airborne means of transport.</li> <li>Outdoor application: only possible in case that no (sea) wate aggressive gases interfere directly with the device and that it conditions remain within the thresholds according to the dat</li> <li>Only authorised specialists may carry out installation. All app installation regulations must be complied with during install.</li> <li>Junction boxes must at least correspond with housing IP deg</li> <li>In order to ensure that the IP66 protection can be guarantee with its rear side tightly up against the damper housing.</li> <li>In the event the device is installed with a 180° rotation (front damper housing), then only a protection of IP54 is guarantee.</li> <li>Tables must not be removed from the device.</li> <li>To calculate the torque required, the specifications supplied concerning the cross-section and the design, as well as the ir ventilation conditions must be observed.</li> <li>The device contains electrical and electronic components and household refuse. All locally valid regulations and requirement</li> </ul>	application, especially in aircraft r, snow, ice, insolation or : is ensured that the ambient a sheet at any time. licable legal or institutional ation. ree of protection! d, the device must be mounted side pressed against the ed. does not contain any parts that by the damper manufacturers isstallation situation and the
Product features		
Simple direct mounting	ng The actuator is mounted directly on the damper shaft (ø612.7 mm) with a universal shaft clamp and then secured with the anti-rotation clip, to prevent it from rotating.	
	The anti-rotation clip Z-ARCM is included in the scope of delive	ry.
Manual override	Manual override with magnet possible (the gear train is disengaged as long as the magnet adheres to the magnet symbol). The magnet for gear train disengagement is integrated in the position indication.	
Adjustable angle of rotation	Adjustable angle of rotation with mechanical end stops.	
High functional reliability	The actuator is overload protected, requires no limit switches and automatically stops when the end stop is reached.	
Accessories		
Mechanical accessories	Description	Туре
	Anti-rotation clip, Multipack 20 pcs. Gear train disengagement magnet, Multipack 20 pcs. Position indicator, Multipack 20 pcs.	Z-ARCM Z-MA Z-PICM

Shaft extension 170 mm ø10 mm for damper shaft ø6...16 mm

End stop clip, Multipack 20 pcs.

Z-ESCM

AV6-20



## **Electrical installation**



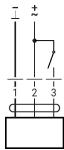
Supply from isolating transformer.

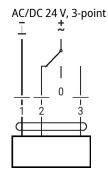
Parallel connection of other actuators possible. Observe the performance data.

Wire colours:

1 = black 2 = red 3 = white

AC/DC 24 V, open/close





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#### Installation notes



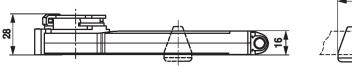
In order to ensure that the IP66 protection can be guaranteed, the device must be mounted with its rear side tightly up against the damper housing.

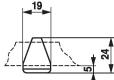
In the event the device is installed with a 180° rotation (front side pressed against the damper housing), then only a protection of IP54 is guaranteed.

#### **Dimensions**

#### Spindle length







### **Clamping range**

OI		
612.7	6/8/10	612.7

