



Modulating damper actuator for adjusting dampers in technical building installations

- Air damper size up to approx. 0.2 m²
- Torque motor 1 Nm
- Nominal voltage AC/DC 24 V
- Control modulating 2...10 V
- Position feedback 2...10 V
- Mechanical interface Form fit 8x8 mm
- with plug



Technical data

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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	1.5 W
Power consumption in rest position	0.5 W
Power consumption for wire sizing	2.5 VA
Connection supply / control	Connector plug (Cable-side connector socket not included in scope of delivery)
Connection plug	Molex Mini-Fit Jr. 39303045
Parallel operation	Yes (note the performance data)
Torque motor	1 Nm
Operating range V	2 10 V

Functional data

Torque motor	1 Nm
Operating range Y	210 V
Input Impedance	100 kΩ
Position feedback U	210 V
Position feedback U note	Max. 1 mA
Position accuracy	±5%
Direction of motion motor	counter-clockwise rotation
Direction of motion note	Y = 0 V: left end stop, position 0
Manual override	No
Angle of rotation	95°, fixed setting
Running time motor	22 s / 90°
Sound power level, motor	35 dB(A)
Mechanical interface	Form fit 8x8 mm
Position indication	No
Protection class IEC/EN	III Safety Extra-Low Voltage (SELV)

Safety data

Protection class IEC/EN	III Safety Extra-Low Voltage (SELV)	
Degree of protection IEC/EN	IP20	
EMC	CE according to 2014/30/EU	
Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14	
Mode of operation	Type 1	
Rated impulse voltage supply / control	0.8 kV	
Control pollution degree	2	
Ambient temperature	-3050°C	
Storage temperature	-4080°C	
Ambient humidity	Max. 95% r.H., non-condensing	
Servicing	maintenance-free	
Weight	0.09 kg	

Weight

Weight	0.09 kg
Packaging quantity	Multipack 100 pcs.



Safety notes



- The device must not be used outside the specified field of application, especially not in aircraft or in any
 other airborne means of transport.
- The device is intended for factory installation in an equipment. The required protection against
 accidental contact with live parts must be provided by the damper or system manufacturer.
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.
- The device may only be opened at the manufacturer's site. It does not contain any parts that can be replaced or repaired by the user.
- Connectors are equipment that may only be used for the intended purpose. The Molex connector has a
 locking mechanism and prevents unintentional disconnection. Operation under voltage is not permitted.
- To calculate the torque required, the specifications supplied by the damper manufacturers concerning the cross-section, the design, the installation site and the ventilation conditions must be observed.
- The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Product features

Mode of operation

The actuator is connected with a standard modulating signal of 0...10 V and drives to the position defined by the positioning signal. Measuring voltage U serves for the electrical display of the damper position 0.5...100% and as slave control signal for other actuators.

Simple direct mounting

The actuator is mounted directly on the damper shaft (\emptyset 6...12.7 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 not included in the scope of delivery.

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.

Hidden synchronisation

If the actuator drives to the lower end stop during ongoing operation, then it performs a synchronisation of the positioning signal at DC 2 V. This ensures that the signal range also corresponds to the effective functional range in ongoing operation. The bottom end stop is actively approached as soon as the positioning signal is DC 2.3 V.

Accessories

Mechanical accessories	Description	Туре
	Anti-rotation clip, Multipack 20 pcs.	Z-ARCM
	End stop clip, Multipack 20 pcs.	Z-ESCM
	Protective covering, Multipack 20 pcs.	Z-PCUM

Electrical installation



Supply from isolating transformer.

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

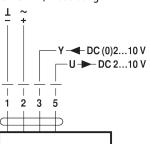
Cable-side connector socket is not included in scope of delivery

Connectors are equipment that may only be used for the intended purpose. The Molex connector has a locking mechanism and prevents unintentional disconnection. Operation under voltage is not permitted.

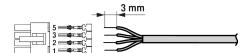


Wiring diagrams

AC/DC 24 V, modulating

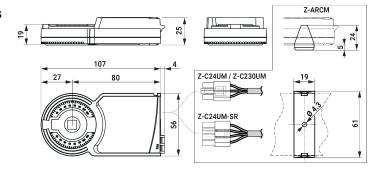


Molex PN 39014040 / 39000039



Dimensions

Dimensional drawings



Shaft length





Min. 25