

Damper actuator for factory installation in an equipment in technical building installations

- Air damper size up to approx. 0.2 m²
- Torque motor 1 Nm
- Nominal voltage AC 100...240 V
- Control Open/close, 3-point
- Mechanical interface Form fit 8x8 mm
- with plug



Technical data

Electrical data	Nominal voltage	AC 100...240 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 85...265 V
	Power consumption in operation	2 W
	Power consumption in rest position	1.5 W
	Power consumption for wire sizing	4.5 VA
	Connection supply / control	Connector plug (Cable-side connector socket not included in scope of delivery)
	Connection plug	Molex Mini-Fit Jr. 39303035
	Parallel operation	Yes (note the performance data)
Functional data	Torque motor	1 Nm
	Direction of motion motor	counter-clockwise rotation
	Manual override	No
	Angle of rotation	0...287.5°
	Angle of rotation note	can be limited by adjustable mechanical end stop 315° with one end stop clip mounted on the actuator Without limitation: endless
	Running time motor	22 s / 90°
	Sound power level, motor	35 dB(A)
	Mechanical interface	Form fit 8x8 mm
	Position indication	No
Safety data	Protection class IEC/EN	0, basic insulation
	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP20
	Degree of protection NEMA/UL	NEMA 1
	Enclosure	UL Enclosure Type 1
	EMC	CE according to 2014/30/EU
	Low voltage directive	CE according to 2014/35/EU
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
	UL Approval	cURus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1
	Hygiene test	According to VDI 6022 Part 1 / SWKI VA 104-01, cleanable and disinfectable, low emission
	Type of action	Type 1

Technical data

Safety data	Rated impulse voltage supply / control	2.5 kV
	Pollution degree	2
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-30...50°C [-22...122°F]
	Storage temperature	-40...80°C [-40...176°F]
	Servicing	maintenance-free
Weight	Weight	0.09 kg

Safety notes


- This device has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- The device is not designed for applications where chemical influences (gases, fluids) are present or for utilisation in corrosive environments in general.
- The device is considered a component and intended for installation in an equipment at the factory. The required protection against accidental contact with live parts must be provided by the damper or system manufacturer.
- Caution: Power supply voltage!
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied with 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.
- The plug connections may only be used according to the installation instructions. The Molex plug connection has a mandatory locking mechanism that prevents unintentional disconnection. Operating the locking mechanism and the entire plug connection under voltage is not permitted.
- To calculate the torque required, the specifications supplied by the damper manufacturers concerning the cross-section and the design, as well as the installation situation 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

Simple direct mounting	The actuator is mounted directly on the damper shaft (ø6...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.
Restriction 3-point controller	- For applications with 3-point open-loop control, a minimum pulse length of 1 sec. is recommended to increase position accuracy. - For applications with 3-point closed-loop control, a pulse length of 0.5 sec. is possible to reduce oscillation.

Parts included

End stop clip

Accessories

Mechanical accessories

Description

Type

- Anti-rotation clip, Multipack 20 pcs.
- End stop clip, Multipack 20 pcs.
- Protective covering, Multipack 20 pcs.

- Z-ARCM
- Z-ESCM
- Z-PCUM

Electrical installation



Supply from isolating transformer.

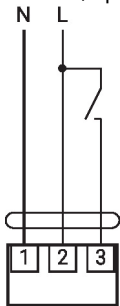
Parallel connection of other actuators possible. Observe the performance data.

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

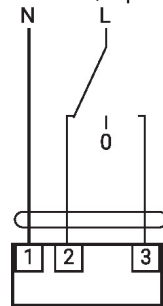
The plug connections may only be used according to the installation instructions. The Molex plug connection has a mandatory locking mechanism that prevents unintentional disconnection. Operating the locking mechanism and the entire plug connection under voltage is not permitted.

Wiring diagrams

AC 230 V, open/close

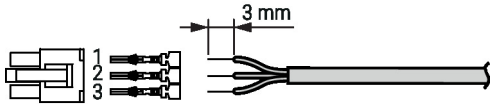


AC 230 V, 3-point



1	2	3	
			stop

Molex PN 39014030 / 39000039 (0.5...1.0 mm²)



Dimensions

Spindle length

	Min. 25
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