

Basic Non Fail-Safe actuator for controlling dampers in typical commercial HVAC applications.

- Torque motor 9 in-lb [1 Nm]
- Nominal voltage AC/DC 24 V
- Control On/Off, Floating point



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	1 W
	Power consumption in rest position	0.5 W
	Transformer sizing	2 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	9 in-lb [1 Nm]
	Direction of motion motor	counter-clockwise rotation
	Manual override	No
	Angle of rotation	0287.5°
	Angle of rotation note	adjustable with mechanical stop
		With one end stop clip Z-ESCM: 315° Without limitation: endless
	Running Time (Motor)	22 s / 90°
	Noise level, motor	35 dB(A)
	Mechanical interface	Form fit 8x8 mm
	Position indication	No
Safety data	Protection class IEC/EN	III, Safety Extra-Low Voltage (SELV)
	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
	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
	Type of action	Type 1
	Rated impulse voltage supply / control	0.8 kV
	Pollution degree	2
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
	Servicing	maintenance-free



Technical data		
Weight	Weight 0.28 lb [0).13 kg]
Safety notes		
	 This device has been designed for use in stationary hear systems and must not be used outside the specified fier or in any other airborne means of transport. The device is not designed for applications where chempresent or for utilization in corrosive environments in generative of the device is considered a component and intended for factory. The required protection against accidental comby the damper or system manufacturer. Only authorized specialists may carry out installation. A installation regulations must be complied with during i The device may only be opened at the manufacturer's error and be replaced or repaired by the user. The plug connections may only be used according to the plug connection has a mandatory locking mechanism and the voltage is not permitted. To calculate the torque required, the specifications sup concerning the cross-section and design, as well as the conditions, must be observed. The device contains electrical and electronic componer household refuse. All locally valid regulations and required area is a specification of the specifications and required. 	Id of application, especially in aircraft nical influences (gases, fluids) are general. r installation in an equipment at the tact with live parts must be provided All applicable legal or institutional installation. site. It does not contain any parts that he installation instructions. The Molex that prevents unintentional the entire plug connection under uplied by the damper manufacturers i installation site and ventilation ths and must not be disposed of as
Product features		
Simple direct mounting	The actuator with its hollow shaft is mounted in a form-fit manner directly on the damper shaft 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.	e of delivery.
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 puls reduce oscillation. 	se length of 0.5 sec. is possible to
Parts included		
	End stop clip	
Accessories		
Mechanical accessories	Description Anti-rotation clip, Multipack 20 pcs. End stop clip, Multipack 20 pcs. Protective covering, Multipack 20 pcs.	Type Z-ARCM Z-ESCM Z-PCLIM

Protective covering, Multipack 20 pcs.

Z-PCUM



Electrical installation



Supply from isolating transformer.

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

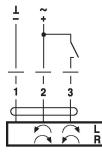
Cable-side connector socket is not included in scope of delivery

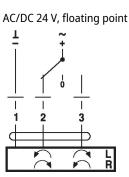
The plug connections may only be used according to the installation instructions. The Molex plug connection has a mandatory locking mechanism that prevents unintentional disconnection. Operating the locking mechanism and the entire plug connection under voltage is not permitted.

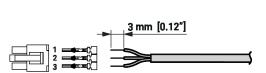
Molex PN 39014030 / 39000039 (0.5...1.0 mm²)

Wiring diagrams









Dimensions

Stem length

