

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	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,
	Turne of eatien	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



UMB24Y-F-R

Technical data		
Weight	Weight 0.28 lb	[0.13 kg]
Safety notes		
	 This device has been designed for use in stationary h systems and must not be used outside the specified or in any other airborne means of transport. The device is not designed for applications where ch present or for utilization in corrosive environments i The device is considered a component and intended factory. The required protection against accidental c by the damper or system manufacturer. Only authorized specialists may carry out installation ristallation regulations must be complied with durin The device may only be opened at the manufacturer can be replaced or repaired by the user. The plug connections may only be used according to plug connection. Operating the locking mechanism an voltage is not permitted. To calculate the torque required, the specifications s concerning the cross-section and design, as well as t conditions, must be observed. The device contains electrical and electronic comport household refuse. All locally valid regulations and re 	field of application, especially in aircraft emical influences (gases, fluids) are n general. for installation in an equipment at the ontact with live parts must be provided h. All applicable legal or institutional g installation. 's site. It does not contain any parts that to the installation instructions. The Molex n that prevents unintentional d the entire plug connection under supplied by the damper manufacturers the installation site and ventilation ments 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.	
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 Anti-rotation clip, Multipack 20 pcs.	Type Z-ARCM
	End stop clip, Multipack 20 pcs. Protective covering, Multipack 20 pcs.	Z-ESCM Z-PCUM



Electrical installation



Supply from isolating transformer.

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

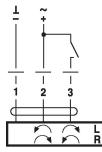
Cable-side connector socket is not included in scope of delivery

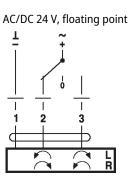
The plug connections may only be used according to the installation instructions. The Molex plug connection has a mandatory locking mechanism that prevents unintentional disconnection. Operating the locking mechanism and the entire plug connection under voltage is not permitted.

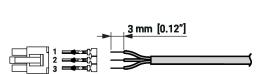
Molex PN 39014030 / 39000039 (0.5...1.0 mm²)

Wiring diagrams









Dimensions

Z-ARCM Stem length 25 [0.98"] Min. 1" [25 mm] 19 [0.75"] 5 [0.2"] 107 [4.21"] 4 [0.16"] 19 [0.75"] 27 [1.06" Z-C24UM / Z-C230UM 80 [3.15"] Z-C24UM-SR [2.2"] 0.31"] 56

24 [0.95"]

61 [2.4"]

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