

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

- Torque motor 9 in-lb [1 Nm]
- Nominal voltage AC 100...240 V
- Control On/Off, Floating point



## **Technical data**

Electrical data	Nominal voltage	AC 100240 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 85265 V
	Power consumption in operation	2 W
	Power consumption in rest position	1.5 W
	Transformer 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	9 in-lb [1 Nm]
	Direction of motion motor	counter-clockwise rotation
	Manual override	No
	Angle of rotation	0185°
	Angle of rotation note	adjustable with mechanical stop
	Running Time (Motor)	22 s / 90°
	Noise level, motor	35 dB(A)
	Mechanical interface	Universal shaft clamp 612.7 mm
	Position indication	No
Safety data	Protection class IEC/EN	0, basic insulation
	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
	Type of action	Type 1
	Rated impulse voltage supply / control	2.5 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 []	
Safety notes		
Ĺ	<ul> <li>This device has been designed for use in stationary systems and must not be used outside the specifie or in any other airborne means of transport.</li> <li>The device is not designed for applications where or present or for utilization in corrosive environments.</li> <li>The device is considered a component and intended factory. The required protection against accidenta by the damper or system manufacturer.</li> <li>Caution: Power supply voltage!</li> <li>Only authorized specialists may carry out installati installation regulations must be complied with dure.</li> <li>The device may only be opened at the manufacture can be replaced or repaired by the user.</li> <li>The plug connections may only be used according plug connection. Operating the locking mechanism at voltage is not permitted.</li> <li>To calculate the torque required, the specifications concerning the cross-section and design, as well at conditions, must be observed.</li> <li>The device contains electrical and electronic comp household refuse. All locally valid regulations and</li> </ul>	ed field of application, especially in aircraf chemical influences (gases, fluids) are s in general. ed for installation in an equipment at the l contact with live parts must be provided fon. All applicable legal or institutional ring installation. rer's site. It does not contain any parts that to the installation instructions. The Molex ism that prevents unintentional and the entire plug connection under s supplied by the damper manufacturers s the installation site and ventilation onents and must not be disposed of as
Product features		
Simple direct mounting	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 not included in the scope of delivery.	
Adjustable angle of rotation	Adjustable angle of rotation with mechanical end stops.	
High functional reliability	<b>High functional reliability</b> The actuator is overload protected, requires no limit switches and automatically stops w 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 reduce oscillation.	pulse length of 0.5 sec. is possible to
Parts included		
	End stop clip	
Accessories		
Mechanical accessories	Description	Туре
	Anti-rotation clip, Multipack 20 pcs.	Z-ARCM
	End stop clip, Multipack 20 pcs.	Z-ARCIVI Z-ESCM



## **Electrical installation**



Supply from isolating transformer.

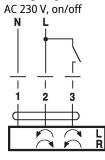
Parallel connection of other actuators possible. Observe the performance data.

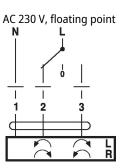
Cable-side connector socket is not included in scope of delivery

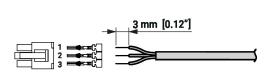
The plug connections may only be used according to the installation instructions. The Molex plug connection has a mandatory locking mechanism that prevents unintentional disconnection. Operating the locking mechanism and the entire plug connection under voltage is not permitted.

Molex PN 39014030 / 39000039 (0.5...1.0 mm<sup>2</sup>)

# Wiring diagrams







### Dimensions

#### Stem length

<u> </u>	Min. 32
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#### **Clamping range**

OI	1	$\overline{\mathbf{M}}$
612.7	6/8/10	612.7

