

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

- Actuating force motor 50 N
- 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 19.2...28.8 V / DC 19.2...28.8 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		
	Actuating force motor	50 N
	Direction of motion motor	by electrical installation
	Manual override	No
	Stroke	60 mm
	Length of Stroke	Max. 60 mm, adjustable in 1 mm increments
	Stroke limitation	can be limited on both sides with mechanical end stops adjustable in 1 mm increments between 30...60mm
	Running Time (Motor)	122 s / 100 mm
	Running time motor note	corresponds to 74 s / 60 mm
	Noise level, motor	35 dB(A)
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
	Housing	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	-22...122°F [-30...50°C]
	Storage temperature	-40...176°F [-40...80°C]
	Servicing	maintenance-free
Weight		
	Weight	0.24 lb [0.11 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 utilization 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.
- Only authorized 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 actuating force required for air dampers and slide valves, 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 can be directly connected with the application using the enclosed screws. The head of the gear rod is connected to the moving part of the ventilation application individually on the mounting side.
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	<ul style="list-style-type: none"> - For applications with 3-point control (open loop), a minimum pulse length of 1 s is recommended to increase position accuracy. - For applications with 3-point control (closed loop), a pulse length of 0.5 s is possible to reduce oscillation.

Accessories

Electrical accessories	Description	Type
	Connecting cable 3 ft [1 m] for UM.. / UH.., Multipack 20 pcs.	Z-C24UM
	Connecting cable 3 ft [1 m] for UM.. / UH.., Multipack 20 pcs.	Z-C24UM-SR
Mechanical accessories	Description	Type
	Protective covering, Multipack 20 pcs.	Z-PCUM
	Anti-rotation clip, Multipack 20 pcs.	Z-ARCM
	Position indicator, Multipack 20 pcs.	Z-PICM
	End stop clip, Multipack 20 pcs.	Z-ESCM
	Gear train disengagement magnet, Multipack 20 pcs.	Z-MA

Electrical installation



Supply from isolating transformer.

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

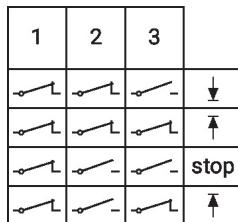
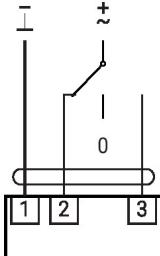
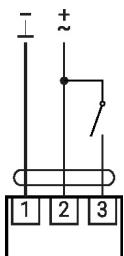
Cable-side connector socket is not included in scope of delivery

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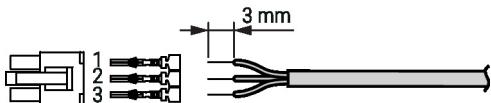
Electrical installation

AC/DC 24 V, on/off

AC/DC 24 V, 3-point



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



Installation notes

Applications without transverse forces

The linear actuator is screwed directly to the housing at two points. Afterwards, the head of the gear rod is fastened to the moving part of the ventilation application (e.g. damper or slide valve).

Dimensions

