

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

- Actuating force motor 50 N
- Nominal voltage AC/DC 24 V
- Control Modulating
- Position feedback 2...10 V



Technical data		
Electrical data	Nominal voltage	AC/DC 24 V
Electi icai data	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.228.8 V / DC 19.228.8 V
	Power consumption in operation	1.5 W
	Power consumption in rest position	0.5 W
	Transformer sizing	2.5 VA
	Connection supply / control	Connector Plug (Cable-side connector socket not included in scope of delivery)
	Connection plug	Molex Mini-Fit Jr. 39303045
	Parallel operation	Yes (note the performance data)
Functional data	Actuating force motor	50 N
	Operating range Y	210 V
	Input impedance	100 kΩ
	Position feedback U	210 V
	Position feedback U note	Max. 1 mA
	Position accuracy	±5%
	Direction of motion motor	counter-clockwise rotation
	Direction of motion note	Y = 0 V: left end stop, position 0
	Manual override	No
	Stroke	60 mm
	Length of Stroke	Max. 60 mm, adjustable in 1 mm increment
	Stroke limitation	can be limited on both sides with mechanica end stops adjustable in 1 mm increments between 3060mm
	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
	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



Technical data		
Safety data	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
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.

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Operating mode The actuator is connected with a standard control signal of 0...10 V and drives to the position

defined by the control signal. Measuring voltage U serves for the electrical display of the damper position 0...100% and as control signal for other actuators.

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.

Hidden synchronisation If the actuator drives to the lower end stop during ongoing operation, it performs a

synchronization of the control signal at DC 2 V. This ensures that the signal range also corresponds to the effective functional range in ongoing operation. The bottom end stop is actively approached as soon as the control signal is <DC 2.1 V. The actuator drives to the new

specified position as soon as the control signal is once again >DC 2.3 V.

Accocc	ALIAC
Access	UI 153

Mechanical accessories	Description	Туре
	End stop clip. Multipack 20 pcs.	Z-ESUH





Accessories

Description	Туре
Protective covering, Multipack 20 pcs	7-PCLIM

Electrical installation



Supply from isolating transformer.

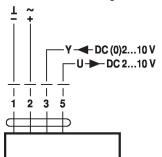
Parallel connection of other actuators possible. Observe the performance data.

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

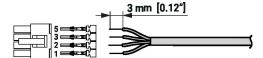
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Wiring diagrams

AC/DC 24 V, modulating



Molex PN 39014040 / 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

