

Linear actuator for factory installation in an equipment in technical building installations

- Actuating force 50 N
- Nominal voltage AC 100...240 V
- Control Open/close, 3-point
- Length of Stroke Max. 60 mm, adjustable in 1 mm increments



Technical data

Electrical data		
Nominal voltage	AC 100...240 V	
Nominal voltage frequency	50/60 Hz	
Nominal voltage range	AC 85...265 V	
Power consumption in operation	2 W	
Power consumption in rest position	1.5 W	
Power consumption for wire 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		
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	
Sound power level, motor	35 dB(A)	
Safety data		
Protection class IEC/EN	0, basic insulation	
Power source UL	Class 2 Supply	
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	
Hygiene test	According to VDI 6022 Part 1 / SWKI VA 104-01, cleanable and disinfectable, low emission	
Type of action	Type 1	
Rated impulse voltage supply / control	2.5 kV	

Technical data

Safety data	Pollution degree	2
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-30...50°C [-22...122°F]
	Storage temperature	-40...80°C [-40...176°F]
	Servicing	maintenance-free
Weight	Weight	0.15 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 utilisation 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 authorised 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 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.

Accessories

Mechanical accessories	Description	Type
	End stop clip, Multipack 20 pcs.	Z-ESUH
	Protective covering, Multipack 20 pcs.	Z-PCUM

Electrical installation

**Caution: Power supply voltage!**

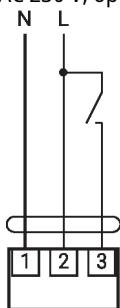
Parallel connection of other actuators possible. Observe the performance data.

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

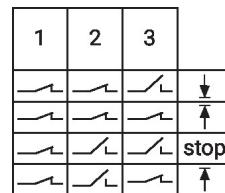
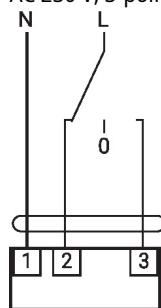
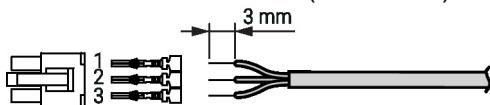
The plug connections may only be used according to the installation instructions. The Molex plug connection has a mandatory locking mechanism that prevents unintentional disconnection. Operating the locking mechanism and the entire plug connection under voltage is not permitted.

Wiring diagrams

AC 230 V, open/close



AC 230 V, 3-point

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

Installation notes



If a rotary support and/or coupling piece is used, losses in the actuation force losses are to be expected.

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

