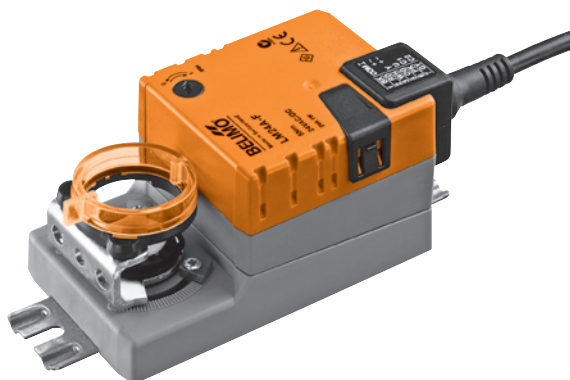


Damper actuator for operating air control dampers in ventilation and air-conditioning systems for building services installations

- For air dampers up to approx. 1 m<sup>2</sup>
- Torque 5 Nm
- Nominal voltage AC/DC 24 V
- Control: Open-close or 3-point
- Damper rotation: Form-fit 8 mm



## Technical data

<b>Electrical data</b>	Nominal voltage	AC 24 V, 50/60 Hz / DC 24 V
	Nominal voltage range	AC 19.2 ... 28.8 V / DC 21.6 ... 28.8 V
	Power consumption	In operation 1.5 W @ nominal torque At rest 0.2 W For wire sizing 1.5 VA
	Connection	Cable 1 m, 3 x 0.75 mm <sup>2</sup>
<b>Functional data</b>	Torque (nominal torque)	Min. 5 Nm @ nominal voltage
	Direction of rotation	Reversible with switch 0 ↺ resp. 1 ↻
	Manual override	Gearing latch disengaged with pushbutton, can be locked
	Angle of rotation	Max. 95° ↔, can be limited at both ends with adjustable mechanical end stops
	Running time	150 s / 90° ↔
	Sound power level	Max. 35 dB (A)
	Damper rotation	Form-fit 8 mm
	Position indication	Mechanical, pluggable
<b>Safety</b>	Protection class	III Safety extra-low voltage / UL Class 2 Supply
	Degree of protection	IP54 in any mounting position NEMA 2, UL Enclosure Type 2
	EMC	CE according to 2004/108/EC
	Certification	cULus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02 Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14
	Mode of operation	Type 1
	Rated impulse voltage	0.8 kV
	Control pollution degree	3
	Ambient temperature range	-30 ... +50 °C
	Non-operating temperature	-40 ... +80 °C
	Ambient humidity range	95% r.H., non-condensating
	Maintenance	Maintenance-free
<b>Dimensions / Weight</b>	Dimensions	See «Dimensions» on page 2
	Weight	Approx. 480 g

## Safety notes



- The actuator is not allowed to be used outside the specified field of application, especially in aircraft or any other form of air transport.
- Assembly must be carried out by trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- 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 cable must not be removed from the device.
- When calculating the required torque, the specifications supplied by the damper manufacturers (cross section, design, installation site), and the air flow conditions must be observed.
- The device contains electrical and electronic components and is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.

**Product features**

- Simple direct mounting** Simple direct mounting on the damper spindle by form-fit. The actuator, with its hollow shaft, is placed over the 8 mm square spindle of the damper and secured by two screws.
- Manual override** Manual override with push-button possible (the gear is disengaged for as long as the button is pressed or remains locked).
- Adjustable angle of rotation** Adjustable angle of rotation with mechanical end stops.
- High functional reliability** The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

**Accessories**

	Description	Data sheet
Electrical accessories	Auxiliary switch S..A..	T2 - S..A..
	Feedback potentiometer P..A..	T2 - P..A..
Mechanical accessories	Various accessories	T2 - Z-TM..A../LM..A..

**Electrical installation**

**Wiring diagrams**

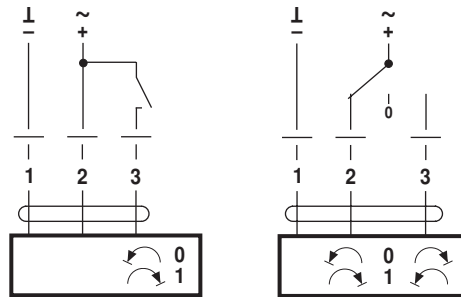
**Notes**

- Connection via safety isolating transformer.
- Other actuators can be connected in parallel.

Please note the performance data.

**Open-close control**

**3-point control**



**Direction of rotation**

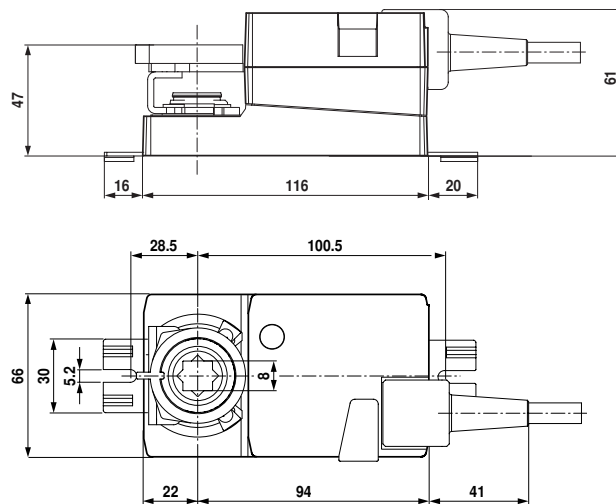


**Cable colours:**

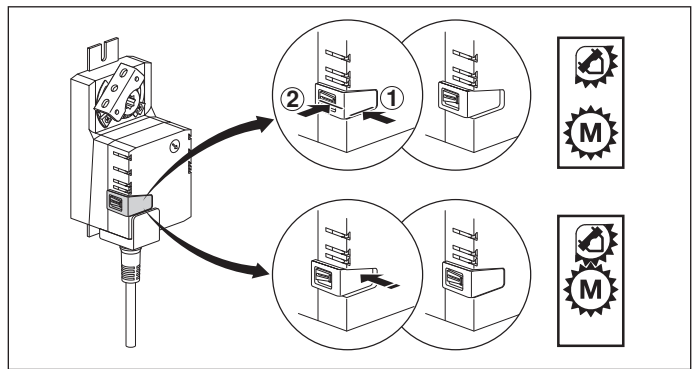
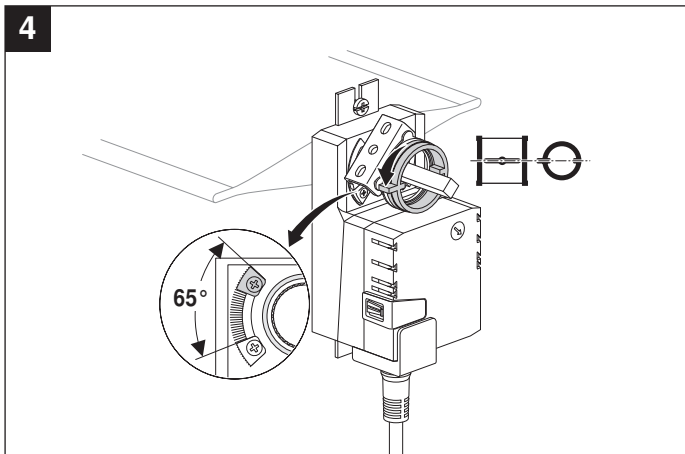
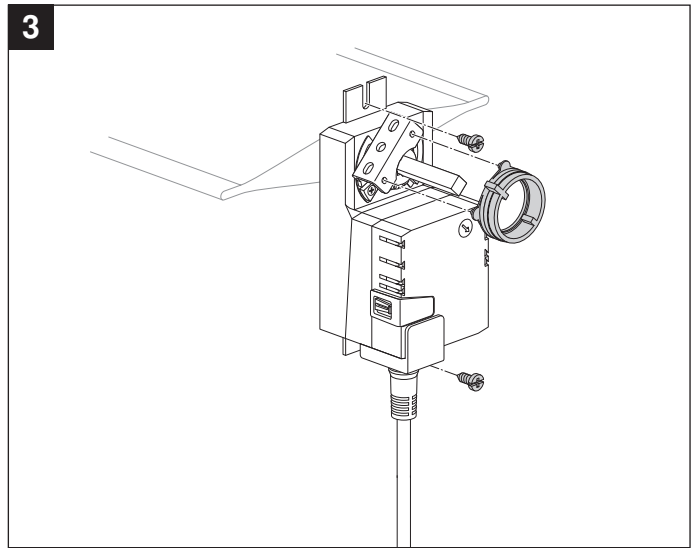
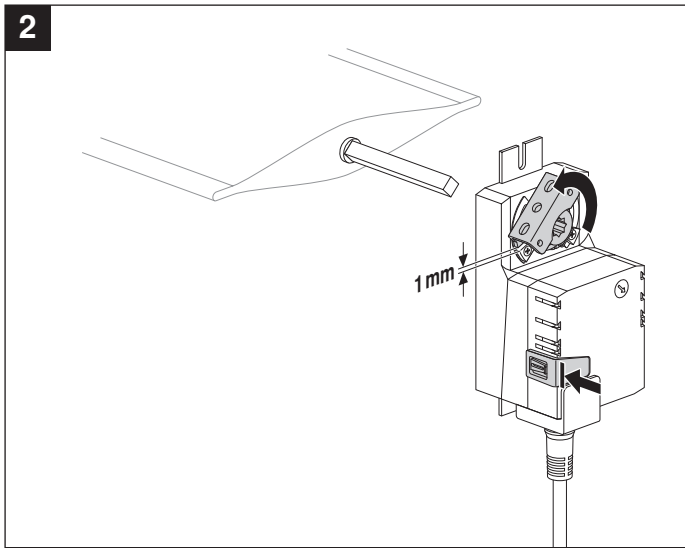
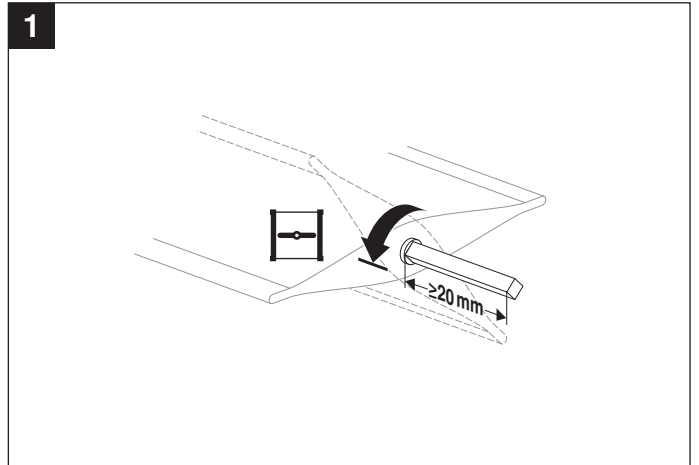
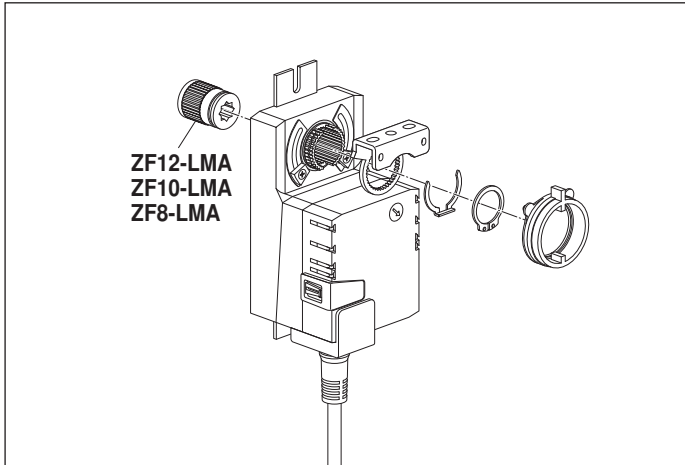
- 1 = black
- 2 = red
- 3 = white

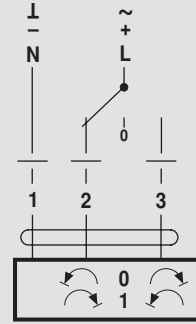
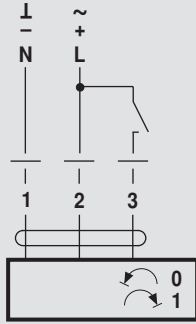
**Dimensions [mm]**

**Dimensional drawings**



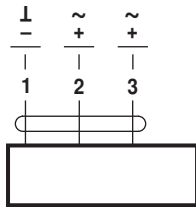
Damper spindle	Length	□ I
	≥20	8



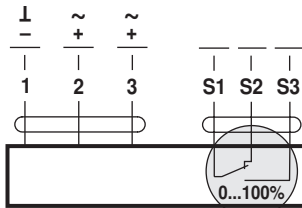


AC 24 V / DC 24 V

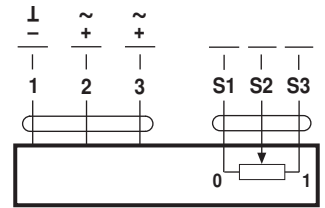
DC 48 ... 110 V  
(LM72A..) ⚠



LM24A.. LMC24A..  
LM72A.. TMC24A..

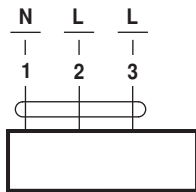


LM24A-S.. TMC24A-S..

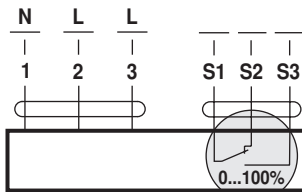


LM24AP5..

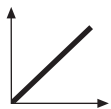
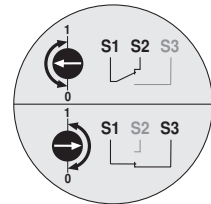
AC 100 ... 240 V ⚠



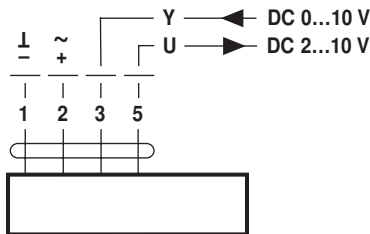
LM230A.. LMC230A..  
TMC230A..



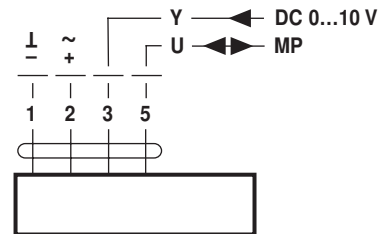
LM230A-S.. TMC230A-S..



AC 24 V / DC 24 V

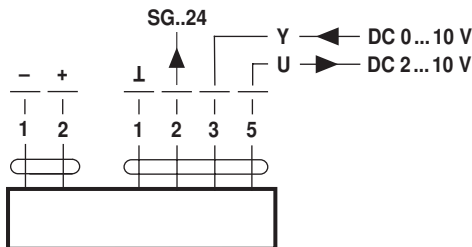


LM24A-SR.. LMC24A-SR..  
LM24A-SX.. TMC24A-SR..  
LM24A-MF..



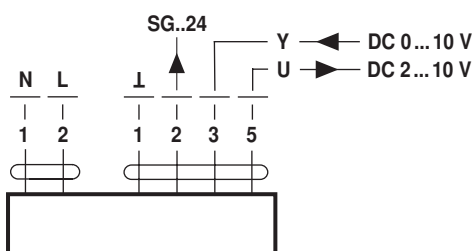
LM24A-MP..

DC 48 ... 110 V ⚠  
(LM72A-SR..)

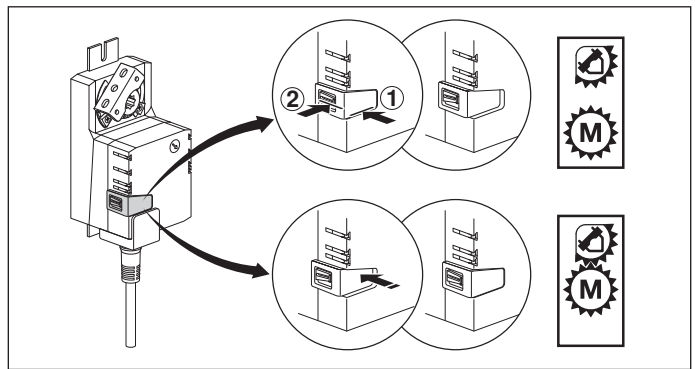
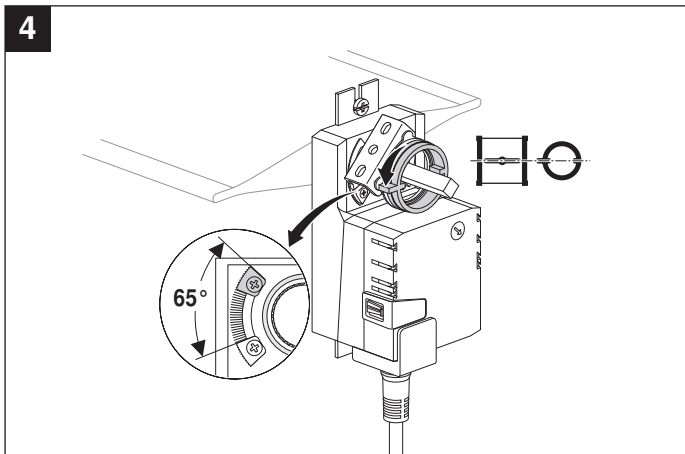
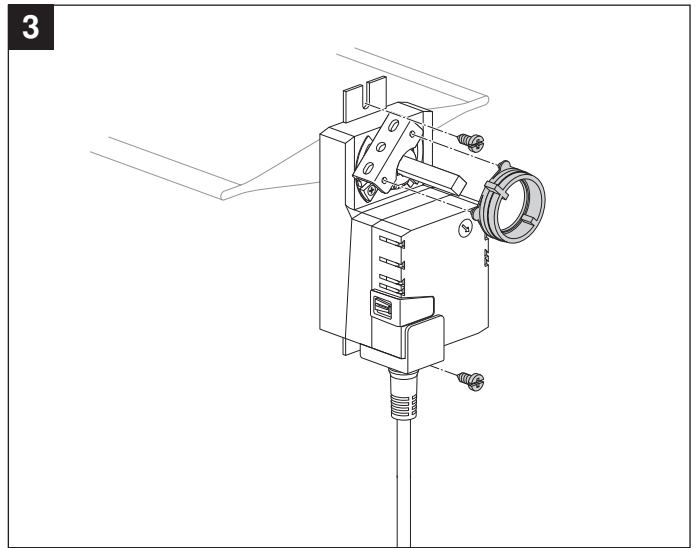
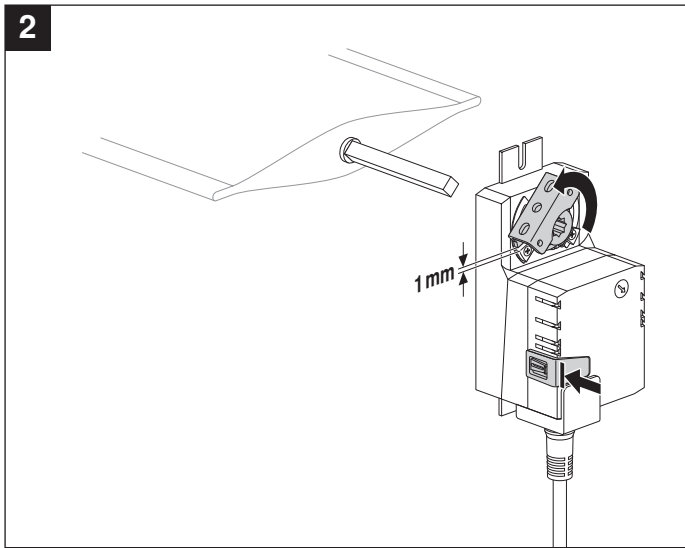
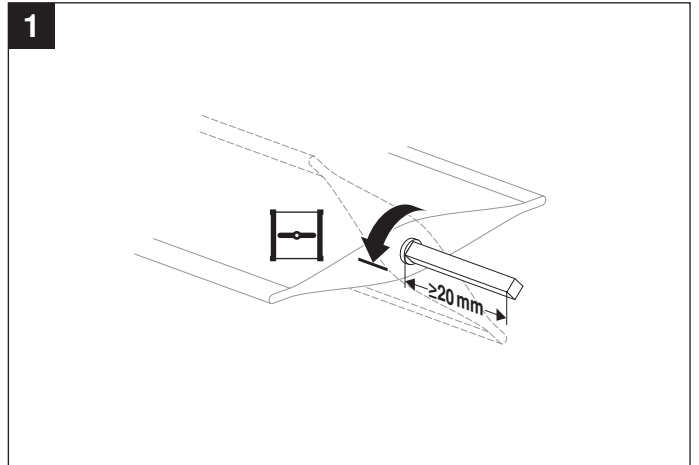
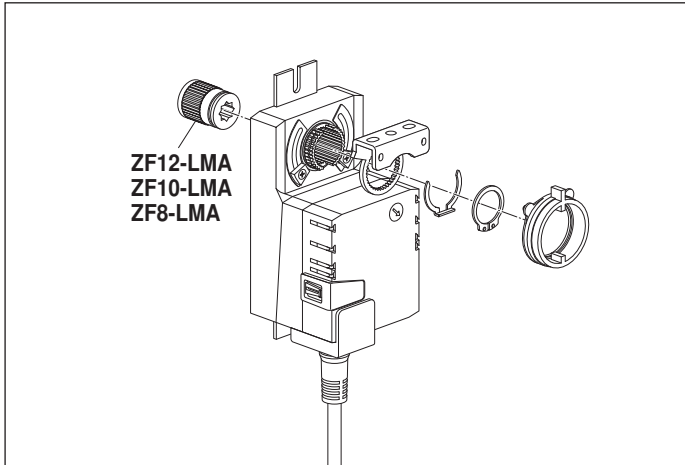


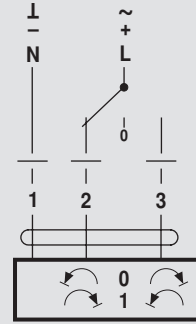
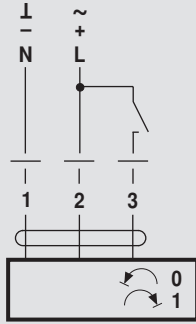
LM72A-SR..

AC 100 ... 240 V ⚠



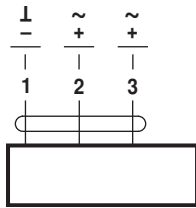
LM230ASR..



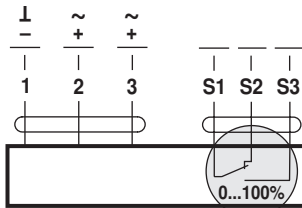


AC 24 V / DC 24 V

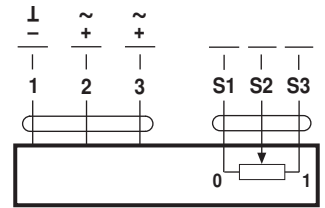
DC 48 ... 110 V  
(LM72A..)



LM24A.. LMC24A..  
LM72A.. TMC24A..

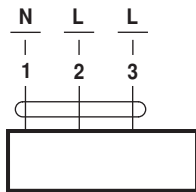


LM24A-S.. TMC24A-S..

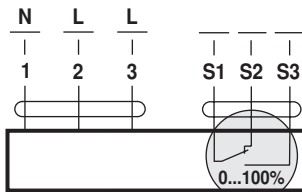


LM24AP5..

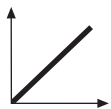
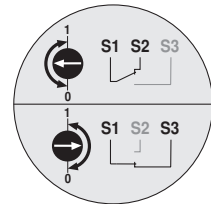
AC 100 ... 240 V



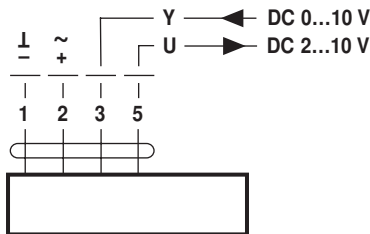
LM230A.. LMC230A..  
TMC230A..



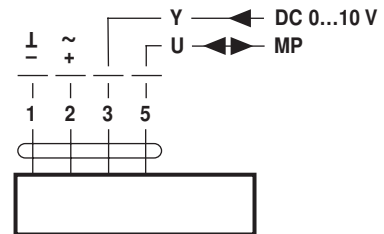
LM230A-S.. TMC230A-S..



AC 24 V / DC 24 V

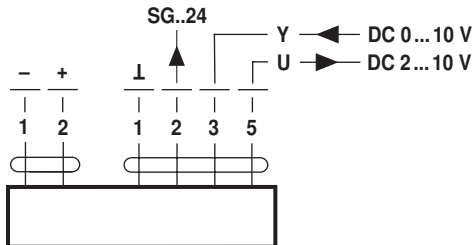


LM24A-SR.. LMC24A-SR..  
LM24A-SX.. TMC24A-SR..  
LM24A-MF..



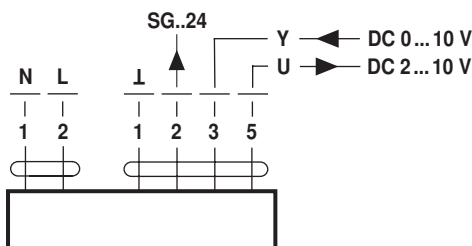
LM24A-MP..

DC 48 ... 110 V  
(LM72A-SR..)



LM72A-SR..

AC 100 ... 240 V



LM230ASR..