BELIMO

Technical data sheet HT24-3-T

Rotary actuator in connection with a mounting kit for the motorisation of the most common mixing valves in HVAC systems

- **Torque 10 Nm**
- **Nominal voltage AC 24 V**
- **Control: Open/close or 3-point**

Technical data

Electrical data	Nominal voltage		AC 24 V, 50/60 Hz
	Power supply range		AC 19.2 ... 28.8 V
	Power consumption	In operation	1.5 W at nominal torque
		For wire sizing	1.5 VA
	Connection		Terminals 4 mm^2 (cable Ø 6 ... 8 mm, three-core)
	Parallel connection		No
Functional data	Torque (nominal torque)		Min. 10 Nm at nominal voltage
	Position accuracy		±5%
	Manual override		Temporary and permanent disengagement of the gearing latch by means of the rotary knob on the housing
	Running time		140 s / 90°
	Sound power level		Max. 35 dB (A)
	Position indication		Reversable scale plate 0 ... 1
Safety	Protection class		**III** Extra low voltage
	Degree of protection		IP40
	EMC		CE according to 89/336/EEC
	Mode of operation		Type 1.B (to EN 60730-1)
	Rated impulse voltage		0.8 kV (to EN 60730-1)
	Control pollution degree		3 (to EN 60730-1)
	Ambient temperature range		0 ... +50°C
	Media temperature		+5 ... +120°C (in mixing body)
	Non-operating temperature		–30 ... +80°C
	Ambient humidity range		95% r.H., non-condensating (to EN 60730-1)
	Maintenance		Maintenance-free
Dimensions / Weight	Dimensions		See «Dimensions» on page 2
	Weight		Approx. 500 g

Safety notes

- **The actuator has been designed for use in stationary heating, ventilation and air conditioning systems and is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.**
- **It may only be installed by suitably trained personnel. All applicable legal or institutional installation regulations must be complied with.**
- **The device does not contain any parts that can be replaced or repaired by the user.**
- **To calculate the torque required, the specifications supplied by the mixing valve manufacturer 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.**

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Product features

Simple direct mountingv Straightforward direct mounting with only one screw. The mounting position in relation to the mixing valve can be selected in 90° ◁ steps.

Manual operation Manual operation possible by lever (temporary disengagement of the gearing latch by pressing, permanent disengagement by means of the rotary knob on the housing).

Functional reliability The actuator switches off automatically when the end stops are reached.

Accessories

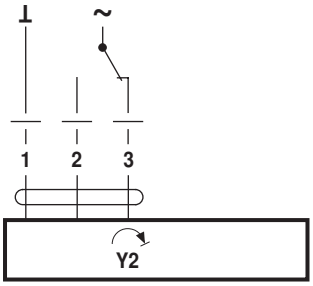
	Description
Mechanical accessories	Mounting kits for ESBE, Termomix, Pommerening, Dumserwerk, Lovato, Landis & Staefa, Lazzari, Oventrop, Meibes, Wita, Holter, Satchwell and Centra mixing valves.

Electrical installation

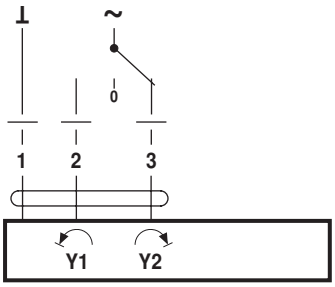
Wiring diagrams

Note
Connect via safety isolation transformer.

Open-close control

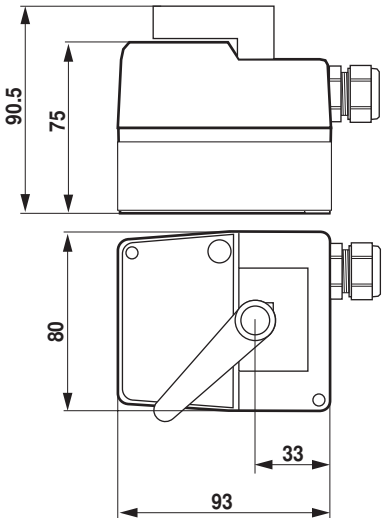


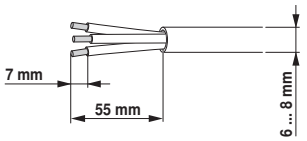
3-point control



Dimensions [mm]

Dimensional diagrams





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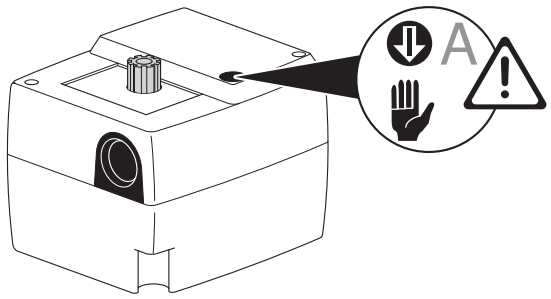

AC 230 V

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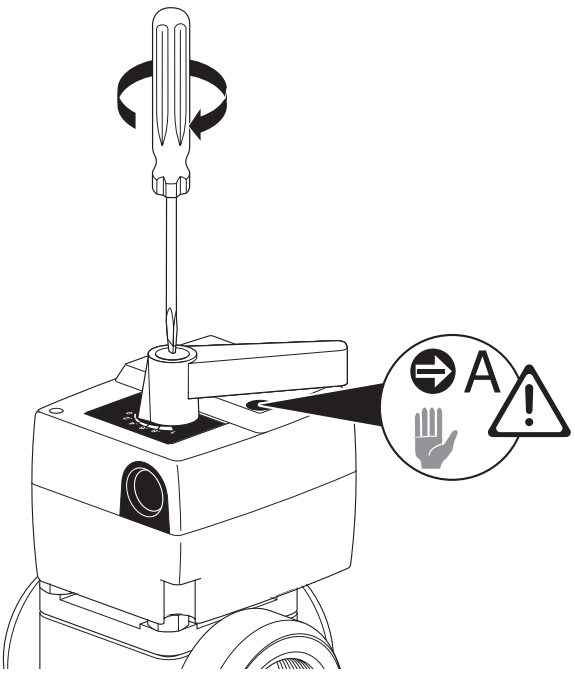

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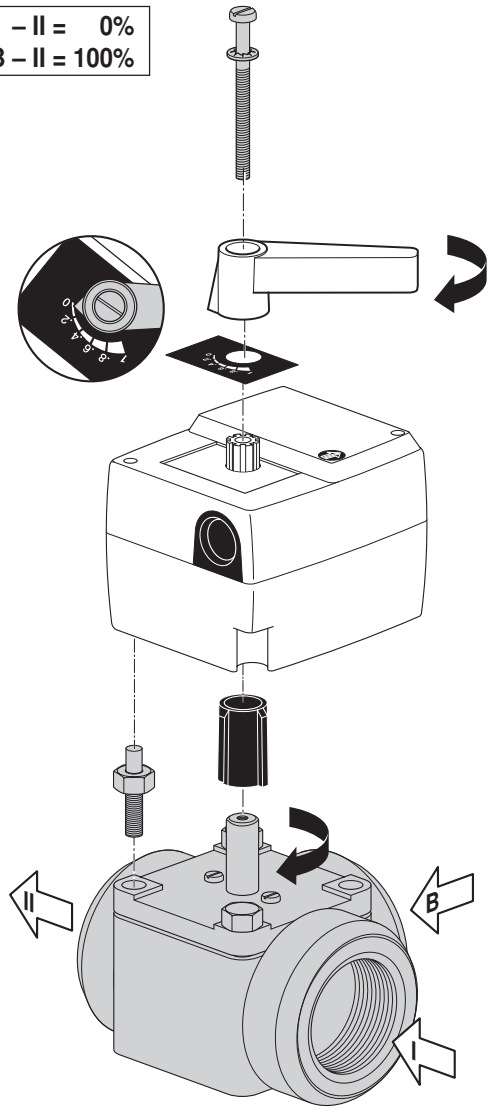
I – II = 0%
B – II = 100%



II – I = 0%
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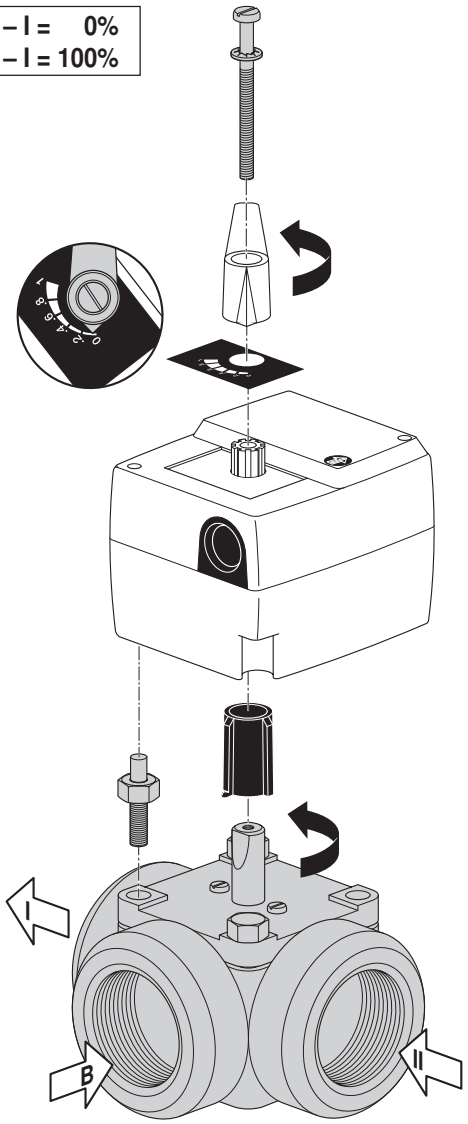

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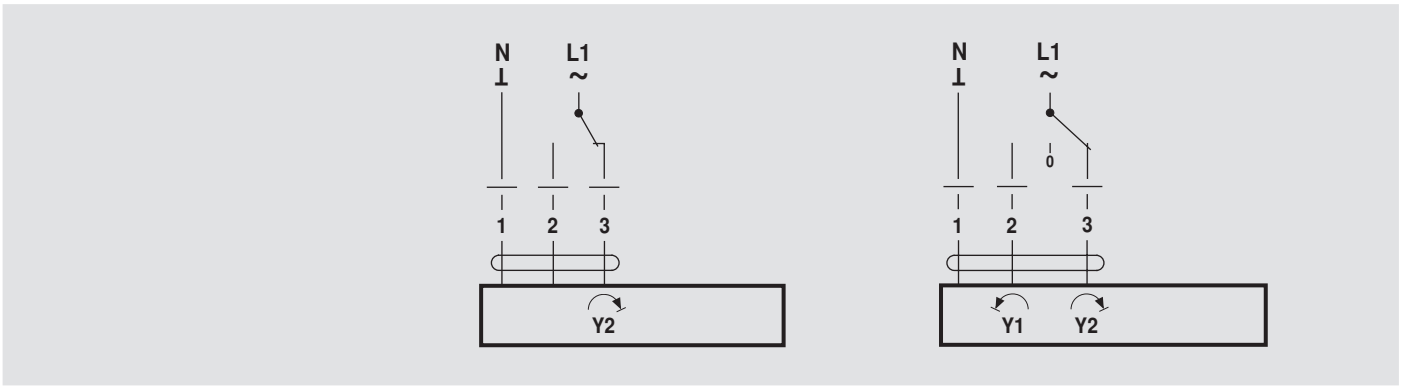
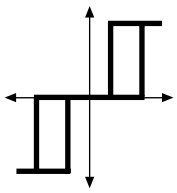
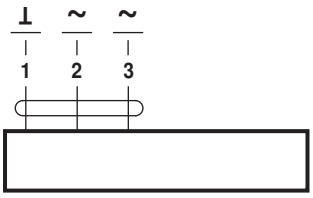




AC 24 V



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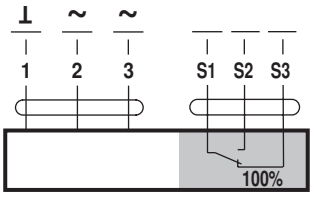

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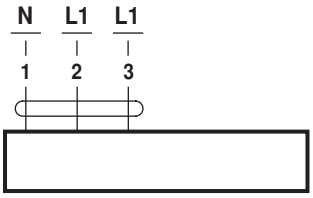
AC 230 V ⚠



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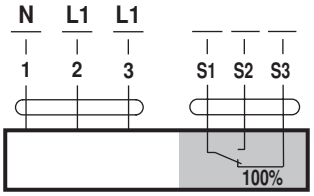

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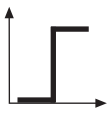

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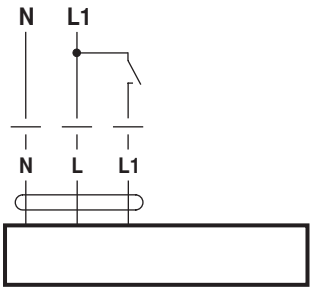

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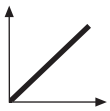
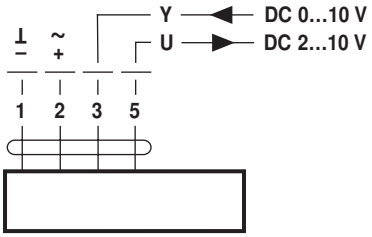


AC 24 V / DC 24 V



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