Rotary actuator for mixing valves
- **Torque 2 Nm**
- **Breakaway 3 Nm**
- **Nominal voltage AC 230 V**
- **Control: Open-close or 3-point**

Technical data

Electrical data	Nominal voltage		AC 230 V, 50 Hz
	Power supply range		AC 207 ... 253 V
	Power consumption	In operation	1 W @ nominal torque
		For wire sizing	1 VA
	Connection		Cable 1 m, 3 x 0.75 mm²
	Parallel operation		No
Functional data	Torque (Nominal torque)		Min. 2 Nm @ nominal voltage
	Breakaway		3 Nm
	Manual override		Temporary gearing latch
	Running time		105 s / 90°∢
	Sound power level		Max. 35 dB (A)
	Position indication		Mechanical
Safety	Protection class		**II** Totally insulated ⧈
	Degree of protection		IP40
	EMC		CE according to 2004/108/EC
	Low-voltage directive		CE according to 2006/95/EC
	Mode of operation		Type 1 (EN 60730-1)
	Rated impulse voltage		4 kV (EN 60730-1)
	Control pollution degree		3 (EN 60730-1)
	Ambient temperature		–7 ... +50°C
	Medium temperature		+5 ... +100°C (in the mixing valve)
	Non-operating temperature		–40 ... +80°C
	Ambient humidity		95% r.h., non-condensating (EN 60730-1)
	Maintenance		Maintenance-free
Dimensions / Weight	Dimensions		See «Dimensions» on page 2
	Weight		ca. 400 g (without mixing valve)

Safety notes

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- **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.**
- **Caution: Power supply voltage!**
- **It may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during installation.**
- **The actuator is to be protected against moisture. It is not suitable for outdoor applications.**
- **The correct functioning of the strain relief for the cable is to be checked in the actuator housing.**
- **The installer must check for correct principle of operation after 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 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

Manual override
Manual operation with lever possible (the gearing is disengaged for as long as the self-resetting lever is pressed).

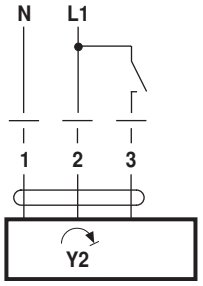
Functional safety
Once the end stops are reached, the actuator is automatically switched off.
Pulse duration ≥0.5 s

Electrical installation

Wiring diagrams

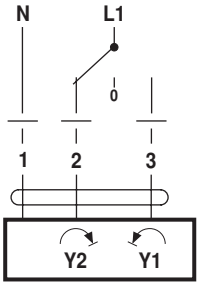
Note
Caution: Power supply voltage!

Open-close control



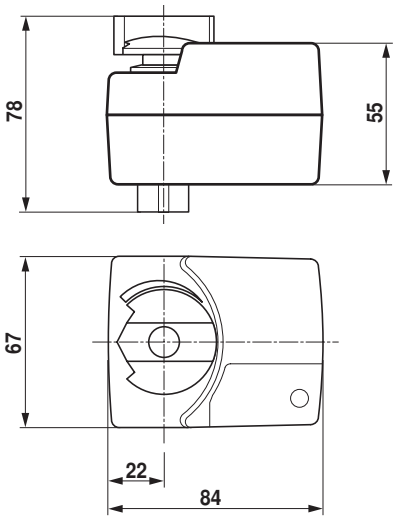
Actuator		Valve
Y2		A – AB = 0%

3-point control



Dimensions [mm]

Dimensional drawings



General information

- Continuous pulsating into the end stop with pulsating 3-point control results in damage to the actuator. Steps must be taken to ensure that pulsating 3-point controllers stop in the end position.
- The actuator switches off for seven seconds in the case of blocking, then attempts to restart. If the blocked condition persists, the actuator attempts to restart once every two minutes a total of 15 times and subsequently once every two hours.
- Actuators for 3-point control in parallel operation must be synchronised once every week (by setting the controller signal to 0 or 100%) in order to guarantee uni-rotation.
- Pulse duration ≥0.5 s