

**Rotary actuator for ball valves**

- Nominal torque 2 Nm
- Nominal voltage AC 230 V
- Control Open-close, 3-point


**Technical data**

<b>Electrical data</b>	Nominal voltage	AC 230 V
	Nominal voltage frequency	50 Hz
	Nominal voltage range	AC 207...253 V
	Power consumption in operation	1 W
	Power consumption for wire sizing	1 VA
	Connection supply / control	Cable 1 m, 3 x 0.75 mm <sup>2</sup>
	Parallel operation	Yes (note the performance data)
<b>Functional data</b>	Torque motor	Min. 2 Nm
	Manual override	Gear disengagement with push-button
	Running time motor	35 s / 90°
	Sound power level motor max.	45 dB(A)
	Position indication	Mechanical
<b>Safety</b>	Protection class IEC/EN	II Protective insulated
	Degree of protection IEC/EN	IP40
	EMC	CE according to 2004/108/EC
	Low voltage directive	CE according to 73/23/EEC
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
	Mode of operation	Type 1
	Rated impulse voltage supply / control	4 kV
	Control pollution degree	3
	Ambient temperature	-7...50 °C
	Non-operating temperature	-40...80 °C
Ambient humidity	95% r.h., non-condensing	
Maintenance	Maintenance-free	
<b>Weight</b>	Weight approx.	0.4 kg

**Safety notes**


- This device 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!
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied 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 in the actuator housing is to be checked.
- 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**

- Direct mounting** Simple direct mounting on the ball valve with only one screw. The mounting orientation in relation to the ball valve can be selected in 90° increments.
- Manual override** Manual override possible with lever (the gearing is disengaged as long as the self-resetting lever is pressed).
- Combination valve/actuator** Refer to the valve documentation for suitable valves, their permitted medium temperatures and closing pressures.

**Electrical installation**

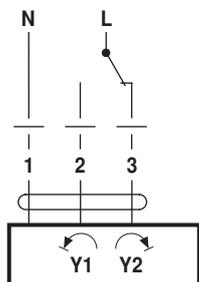


**Notes**

- Caution: Power supply voltage!
- Parallel connection of other actuators possible. Observe the performance data.

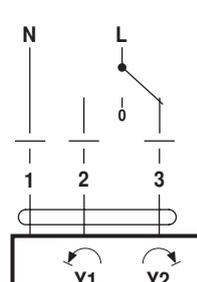
**Wiring diagrams**

**AC 230 V, open-close**



Cable colours:  
 1 = blue  
 2 = brown  
 3 = white

**AC 230 V, 3-point**



Cable colours:  
 1 = blue  
 2 = brown  
 3 = white

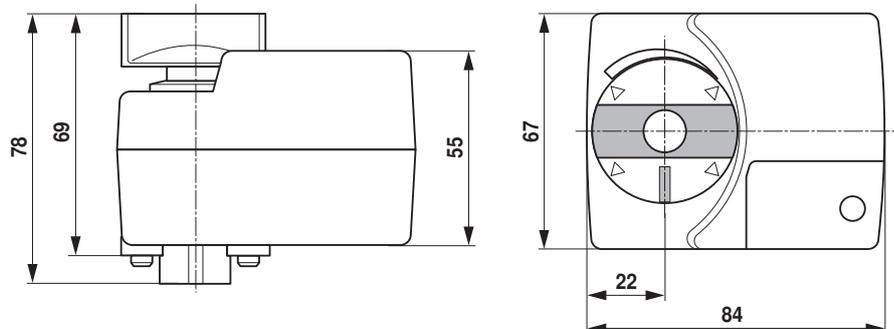
**General notes**

**Functional reliability**

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 only 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 position accuracy.  
 Pulse duration  $\geq 0.5$  s

**Dimensions [mm]**

**Dimensional drawings**



**Further documentation**

- Overview Valve-actuator combinations
- Data sheets for ball valves
- Installation instructions for actuators and/or ball valves
- General notes for project planning