

Rotary actuator with fail-safe for ball valves

- Torque motor 2.5 Nm
- Nominal voltage AC 100...240 V
- Control Open/close
- Deenergised closed (NC)
- with integrated auxiliary switch



Picture may differ from product

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	2.5 W
	Power consumption in rest position	1.5 W
	Power consumption for wire sizing	5 VA
	Auxiliary switch	1x SPDT, 0...100%
	Connection supply / control	Cable 1 m, 2x 0.75 mm ²
	Connection auxiliary switch	Cable 1 m, 3x 0.75 mm ²
	Parallel operation	Yes (note the performance data)
Functional data	Torque motor	2.5 Nm
	Torque fail-safe	2.5 Nm
	Direction of motion fail-safe	Deenergised NC, valve closed (A-AB = 0%)
	Direction of motion note	for valves with L-bore (A-AB = 100%)
	Running time motor	75 s / 90°
	Running time fail-safe	<75 s / 90°
	Sound power level, motor	50 dB(A)
	Position indication	Mechanical
	Service life	Min. 60'000 fail-safe positions
	Safety data	Protection class IEC/EN
Protection class auxiliary switch IEC/EN		II, reinforced insulation
Degree of protection IEC/EN		IP42
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
Type of action		Type 1
Rated impulse voltage supply / control		2.5 kV
Rated impulse voltage auxiliary switch		4 kV
Pollution degree		3
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	0.65 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.
- Outdoor application: Only possible if no (sea) water, snow, ice, sunlight or aggressive gases act directly on the device and if it is ensured that the ambient conditions remain within the limit values specified in the data sheet at all times.
- Caution: Mains voltage!
- 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.
- Cables must not be removed from the device.
- 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

Operating mode	The actuator moves the valve to the operating position at the same time as tensioning the return spring. The valve is turned back to the fail-safe position by spring force when the supply voltage is interrupted.
Simple 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° steps.
High functional reliability	The actuator is overload protected, requires no limit switches and automatically stops when the end stop is reached.
Flexible signalling	With adjustable auxiliary switch (0...100%)

Electrical installation

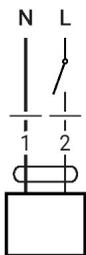

Caution: Mains voltage!

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

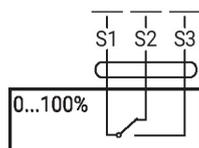
Wire colours:

- 1 = blue
- 2 = brown
- S1 = violet
- S2 = red
- S3 = white

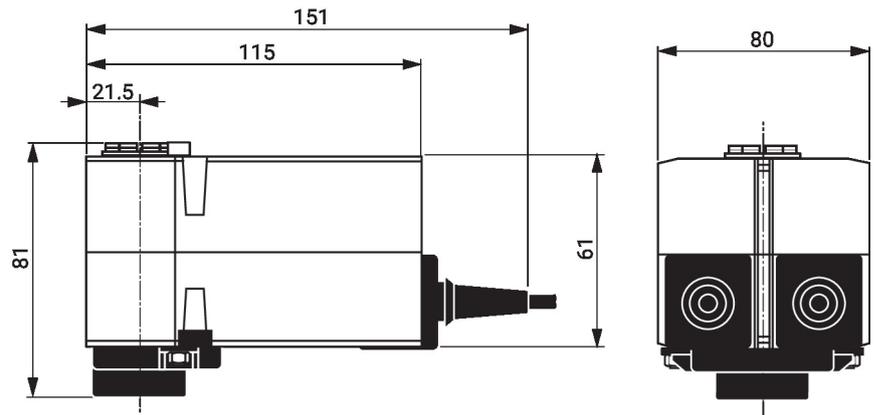
AC 230 V, open/close



Auxiliary switch



Dimensions



Further documentation

- The complete product range for water applications
- Data sheets for ball valves
- Installation instructions for actuators and/or ball valves
- General notes for project planning