

Rotary actuator for ball valves

- Torque motor 2 Nm
- Nominal voltage AC/DC 24 V
- Control modulating 2...10 V



Picture may differ from product

Technical data

Electrical data	Nominal voltage	AC/DC 24 V	
	Nominal voltage frequency	50/60 Hz	
	Nominal voltage range	AC 19.2...28.8 V / DC 21.6...28.8 V	
	Power consumption in operation	0.5 W	
	Power consumption for wire sizing	1 VA	
	Connection supply / control	Cable 1 m, 3x 0.75 mm ²	
	Parallel operation	Yes (note the performance data)	
	Functional data	Torque motor	2 Nm
Operating range Y		2...10 V	
Input impedance		100 kΩ	
Manual override		temporary gear train disengagement	
Running time motor		90 s / 90°	
Sound power level, motor		35 dB(A)	
Position indication		Mechanical	
Safety data		Protection class IEC/EN	III, Safety Extra-Low Voltage (SELV)
	Degree of protection IEC/EN	IP40	
	EMC	CE according to 2014/30/EU	
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14	
	Type of action	Type 1	
	Rated impulse voltage supply / control	0.8 kV	
	Pollution degree	3	
	Ambient humidity	Max. 95% RH, non-condensing	
	Ambient temperature	-7...50°C [19...122°F]	
	Storage temperature	-40...80°C [-40...176°F]	
	Servicing	maintenance-free	
	Weight	Weight	0.27 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 in case that no (sea) water, snow, ice, insolation or aggressive gases interfere directly with the device and that it is ensured that the ambient conditions remain within the thresholds according to the data sheet at any time.
- 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.
- 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.
- The switch for changing the direction of rotation may only be operated by authorised specialists. The direction of rotation must not in particular be reversed in a frost protection circuit.

Product features

Operating mode	The actuator is controlled with a control signal Y (note the operating range) and drives to the position defined by the control signal.
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.
Manual override	Manual override possible with lever (the gearing is disengaged as long as the self-resetting lever is pressed).
High functional reliability	The actuator is overload protected and automatically stops when the end stop is reached. 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.

Electrical installation



Supply from isolating transformer.
Parallel connection of other actuators possible. Observe the performance data.

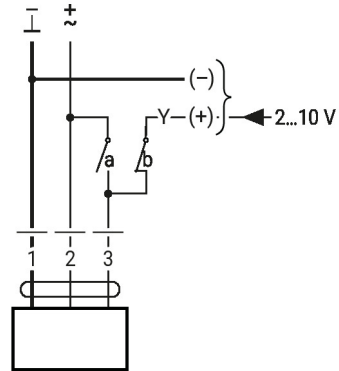
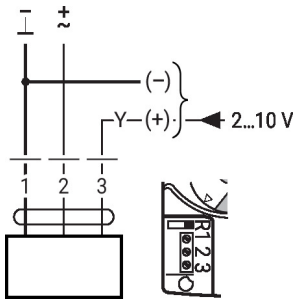
Wire colours:

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

Electrical installation

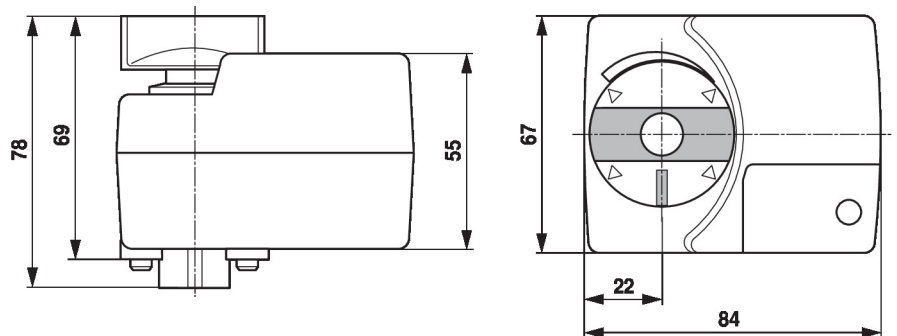
AC/DC 24 V, modulating

Override control (frost protection circuit)



1	2	3 (a)	3 (b)	
				A - AB = 100%
				A - AB = 0%
			2 V	A - AB = 0%
			10 V	A - AB = 100%

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