

Rotary actuator with fail-safe for ball valves

- Torque motor 4 Nm
- Nominal voltage AC 230 V
- Control Open/close
- Deenergised open (NO)
- with 2 integrated auxiliary switches



Technical data

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Nominal voltage	AC 230 V
Nominal voltage frequency	50/60 Hz
Nominal voltage range	AC 198264 V
Power consumption in operation	5 W
Power consumption in rest position	3 W
Power consumption for wire sizing	7 VA
Auxiliary switch	2 x SPDT, 1 x 10° / 1 x 85°
Switching capacity auxiliary switch	1 mA3 A (0.5 A inductive), DC 5 VAC 250 V
Connection supply / control	Cable 1 m, 2 x 0.75 mm ²
Connection auxiliary switch	Cable 1 m, 6 x 0.75 mm²
Parallel operation	Yes (note the performance data)

Functional data

Torque motor	4 Nm
Torque fail-safe	4 Nm
Direction of motion fail-safe	Deenergised NO, valve open (A – AB = 100%)
Manual override	with hand crank, can be fixed in any position
Running time motor	75 s / 90°
Running time fail-safe	<20 s @ -2050°C / <60 s @ -30°C
Sound power level, motor	50 dB(A)
Position indication	Mechanical
Service life	Min. 60'000 fail-safe positions

Safety data

Protection class IEC/EN	II, reinforced insulation	
Protection class auxiliary switch IEC/EN	II, reinforced insulation	
Degree of protection IEC/EN	IP54	
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	-3050°C [-22122°F]	
Storage temperature	-4080°C [-40176°F]	
Servicing	maintenance-free	
Weight	1.8 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.
- · Caution: Power supply voltage!
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied 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

Mode of operation 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.

Manual override The valve can be manually operated and fixed in any position using a hand crank. Unlocking is

carried out manually or automatically by applying the operating voltage.

High functional reliability The actuator is overload protected, requires no limit switches and automatically stops when the

end stop is reached.

Signalling The actuator has two auxiliary switches with fixed settings. They permit a 10° or 85° angle of

rotation to be signaled.

Electrical installation



Caution: Power supply voltage!

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

Wire colours:

1 = blue

2 = brown

S1 = violet

S2 = red

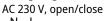
S3 = white

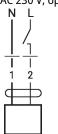
S4 = orange

S5 = pink

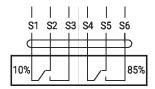
S6 = grey

Wiring diagrams



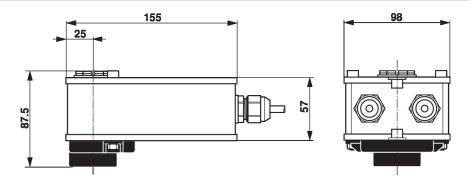


Auxiliary switch





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