

Rotary actuator for ball valves

- Torque motor 20 Nm
- Nominal voltage AC 100...240 V
- Control Open/close, 3-point
- with integrated auxiliary switch



Technical data		
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Electrical data	Nominal voltage	AC 100240 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 85265 V
	Power consumption in operation	3 W
	Power consumption in rest position	0.6 W
	Power consumption for wire sizing	7 VA
	Auxiliary switch	1 x SPDT, 0100%
	Switching capacity auxiliary switch	1 mA3 A (0.5 A inductive), AC 250 V
	Connection supply / control	Cable 1 m, 3 x 0.75 mm ²
	Connection auxiliary switch	Cable 1 m, 3 x 0.75 mm ²
	Parallel operation	Yes (note the performance data)
Functional data	Torque motor	20 Nm
	Manual override	with push-button, can be locked
	Running time motor	90 s / 90°
	Sound power level, motor	45 dB(A)
	Position indication	Mechanically, pluggable
Safety data	Protection class IEC/EN	II, reinforced insulation
	Protection class UL	II, reinforced insulation
	Protection class auxiliary switch IEC/EN	II, reinforced insulation
	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2
	Enclosure	UL Enclosure Type 2
	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
	UL Approval	cULus according to UL60730-1A, UL60730-2-14
		and CAN/CSA E60730-1
		The UL marking on the actuator depends on
		the production site, the device is UL-compliant
	Mode of operation	in any case Type 1
	Rated impulse voltage supply / control	2.5 kV
	Rated impulse voltage auxiliary switch	2.5 kV
	Pollution degree Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-3050°C [-22122°F]
	Storage temperature Servicing	-4080°C [-40176°F] maintenance-free
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Mechanical data	Connection flange	F05



Weight Weight 1.1 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.

SR230A-S

- 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 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.
- 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

Simple direct mounting Simple direct mounting on the rotary valve or butterfly valve with mounting flange. The

mounting orientation in relation to the fitting can be selected in 90° steps.

Manual override Manual override with push-button possible (the gear train is disengaged for as long as the

button is pressed or remains locked).

Adjustable angle of rotation Adjustable angle of rotation with mechanical end stops.

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%)

Auxiliary switch



Accessories

Electrical accessories Description Type Auxiliary switch 1 x SPDT add-on S1A Auxiliary switch 2 x SPDT add-on S2A Feedback potentiometer 140 Ω add-on P140A Feedback potentiometer 200 Ω add-on P200A Feedback potentiometer 500 Ω add-on P500A Feedback potentiometer 1 $k\Omega$ add-on P1000A Feedback potentiometer 2.8 kΩ add-on P2800A Feedback potentiometer $5 k\Omega$ add-on P5000A Feedback potentiometer 10 kΩ add-on P10000A

Electrical installation

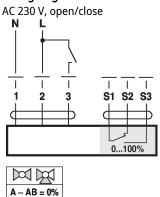


Caution: Power supply voltage!

Parallel connection of other actuators possible. Observe the performance data. Direction of rotation switch is covered. Factory setting: Direction of rotation Y2.



Wiring diagrams



Cable colours:

1 = blue

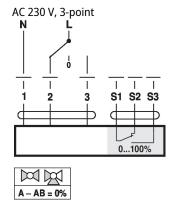
2 = brown

3 = white

S1 = violet

S2 = red

S3 = white



Cable colours:

1 = blue

2 = brown

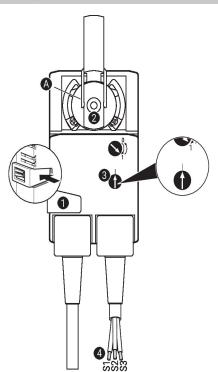
3 = white

S1 = violet

S2 = red

S3 = white

Operating controls and indicators



Auxiliary switch settings



Note: Perform settings on the actuator only in deenergised state.

For the auxiliary switch position settings, carry out points 1 to 4 successively.

1 Manual override button

Holding button pressed down: Gear train disengages. Manual override is possible.

2 Shaft clamp

Turn until edge line A displays the desired switching position of the actuator and release button 1.

3 Auxiliary switch

Turn rotary knob until the arrow points to the vertical line.

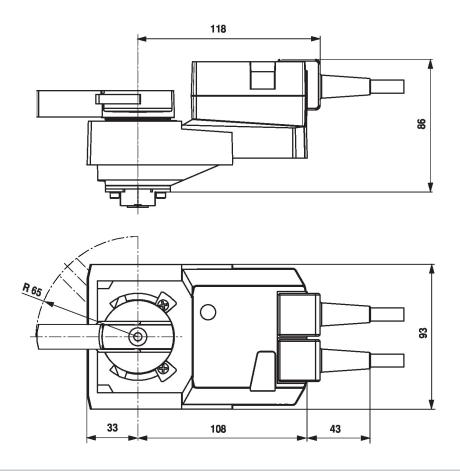
4 Cable

Connect continuity tester to S1 + S2 or to S1 + S3.

If the auxiliary switch should switch in the opposite direction, rotate the auxiliary switch by 180°.



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