

Technical data sheet

SR230A-S

Rotary actuator for ball valves

- Torque motor 20 Nm
- Nominal voltage AC 230 V
- Control Open/close, 3-point
 with integrated auxiliary switch



Technical data

Electrical data	Nominal voltage	AC 230 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	Protection class IEC/EN	Il reinforced insulation	
	Protection class UL	Il reinforced insulation	
	Protection class auxiliary switch IEC/EN	Il 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	
	Certification UL	cULus according to UL60730-1A, UL60730-2-	
		14 and CAN/CSA E60730-1:02	
	Certification UL note	The UL marking on the actuator depends on the	
		production site, the device is UL-compliant in	
		any case	
	Mode of operation	Туре 1	
	Rated impulse voltage supply / control	2.5 kV	
	Rated impulse voltage auxiliary switch	2.5 kV	
	Control pollution degree	3	
	Ambient temperature	-3050°C	
	Storage temperature	-4080°C	
	Ambient humidity	Max. 95% r.H., non-condensing	
	Servicing	maintenance-free	
Weight	Weight	1.9 kg	



Safety notes			
\wedge	 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 actuator and that is ensured that the ambient conditions remain at any time within the thresholds according to the data sheet. 		
	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	Straightforward direct mounting on the ball valve with only one central screw. The assembly tool is integrated in the plug-in position indication. The mounting orientation in relation to the ball valve can be selected in 90° steps.		
Manual override	Manual override with push-button possible (the gear 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 signalization	With adjustable auxiliary switch (0100%)		
	Auxiliary switch		
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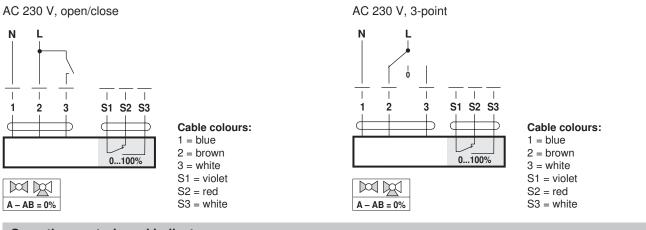
Accessories

	Description	Туре
Electrical accessories	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 kΩ add-on	P1000A
	Feedback potentiometer 2.8 kΩ add-on	P2800A
	Feedback potentiometer 5 kΩ add-on	P5000A
	Feedback potentiometer 10 k Ω add-on	P10000A
Electrical installation		
Notes	 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. 	



Electrical installation

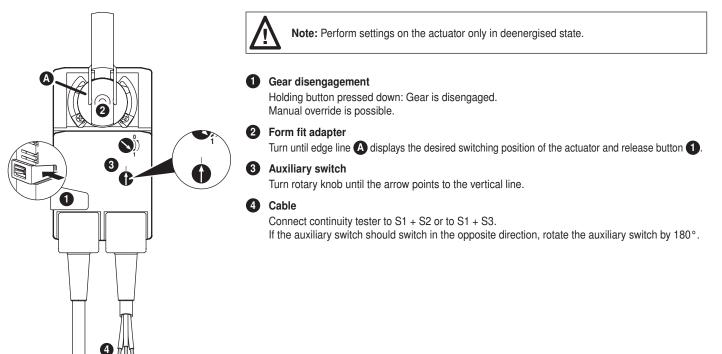
Wiring diagrams



Operating controls and indicators

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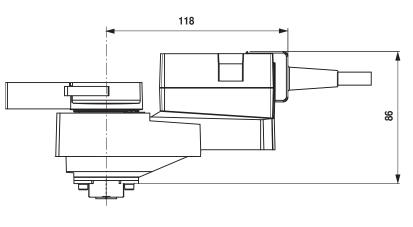
Auxiliary switch settings

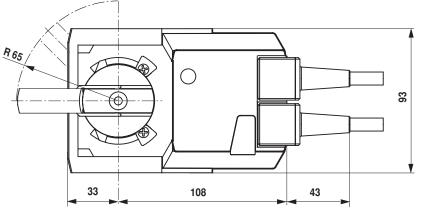




Dimensions [mm]

Dimensional drawings





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