

Technical data sheet

SR24A-S

Rotary actuator for ball valves

- Torque motor 20 Nm
- Nominal voltage AC/DC 24 V
- Control Open/close, 3-point
 with integrated auxiliary switch



Technical data

Electrical dataNominal voltageAC/DC 24 VNominal voltage frequency50/60 HzNominal voltage rangeAC 19.228.8 V / DC 19.228.8 VPower consumption in operation2.5 WPower consumption for wire sizing5.5 VAAuxiliary switch1 x SPDT, 0100%Switching capacity auxiliary switch1 mA36 (0.5 A inductive), AC 250 VConnection supply / controlCable 1 m, 3 x 0.75 mm²Connection auxiliary switchCable 1 m, 3 x 0.75 mm²Parallel operationYes (note the performance data)Functional dataTorque motorYes (note the performance data)Portection class IEC/ENIII Safety Extra-Low Voltage (SELV)Protection class IEC/ENIII Safety Extra-Low Voltage (SELV)Protection class ULUL Class 2 SupplyProtection class auxiliary switch IEC/ENII reinforced insulationDegree of protection NEMA/ULNEMA 2EnclosureUL Enclosure Type 2EMCCet according to 2014/30/EULow voltage directiveCE according to 2014/30/EUCertification UL noteThe UL marking on the actuator depends on the production site, the device is UL-compliant in any caseMode of operationType 1Rated impulse voltage supply / control0.8 kVRated impulse voltage supp			
Nominal voltage range AC 19.228.8 V / DC 19.228.8 V Power consumption in operation 2.5 W Power consumption for wire sizing 5.5 VA Power consumption for wire sizing 5.5 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 mm² Parallel operation Yes (note the performance data) Parallel operation Yes (note the performance data) 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 Protection class UL UL Class 2 Supply Protection class UL UL Class 2 Supply Protection class UL UL Class 2 Supply Protection class auxiliary switch IEC/EN Il reinforced insulation Degree of protection NEMA/UL NEMA 2 Enclosure UL Enclosure Type 2 Enclosure EMC Certification IEC/EN IEC/EN 60730-1 and IEC/EN 60730-2-14	Electrical data	Nominal voltage	AC/DC 24 V
Power consumption in operation 2.5 W Power consumption in rest position 0.2 W Power consumption for wire sizing 5.5 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 mm² Connection auxiliary switch Cable 1 m, 3 x 0.75 mm² 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 Protection class UL UL Class 2 Supply Protection class UL UL Class 2 Supply Protection class UL UL Class 2 Supply Protection NEMA/UL NEMA 2 Enclosure UL Enclosure Type 2 EMC CE according to 2014/30/EU Low voltage directive CE according to 2014/30/EU Low voltage directive CE according to 2014/30/EU Low voltage direct		Nominal voltage frequency	50/60 Hz
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Sound power level, motor 45 dB(A) Position indication Mechanically, pluggable Safety Protection class IEC/EN III Safety Extra-Low Voltage (SELV) Protection class UL UL Class 2 Supply 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 Certification UL cUL sa according to UL60730-14, UL60730-2-14 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 Type 1 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		Manual override	with push-button, can be locked
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Control pollution degree3Ambient temperature-3050°CStorage temperature-4080°CAmbient humidityMax. 95% r.H., non-condensingServicingmaintenance-free		Rated impulse voltage supply / control	0.8 kV
Ambient temperature-3050 °CStorage temperature-4080 °CAmbient humidityMax. 95% r.H., non-condensingServicingmaintenance-free		Rated impulse voltage auxiliary switch	2.5 kV
Storage temperature-4080 °CAmbient humidityMax. 95% r.H., non-condensingServicingmaintenance-free		Control pollution degree	3
Ambient humidityMax. 95% r.H., non-condensingServicingmaintenance-free		Ambient temperature	-3050°C
Servicing maintenance-free		Storage temperature	-4080°C
Servicing maintenance-free			Max. 95% r.H., non-condensing
Weight Weight 1.9 kg			
	Weight	Weight	1.9 kg



Safety notes				
$\overline{\mathbb{V}}$	• 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. 			
	 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 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	n With adjustable auxiliary switch (0100%)			
	Auxiliary switch			
	$ \bigoplus_{0}^{S1} \sum_{1}^{S2} \sum_{0}^{S3} \bigoplus_{1}^{S1} \sum_{1}^{S2} \sum_{1}^{S3} $			

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 k Ω add-on	P1000A
	Feedback potentiometer 2.8 kΩ add-on	P2800A
	Feedback potentiometer 5 k Ω add-on	P5000A
	Feedback potentiometer 10 k Ω add-on	P10000A
Electrical installation		
Notes	 Connection via safety isolating transformer. Parallel connection of other actuators possible. Observe the performance data. Direction of rotation switch is covered. Factory setting: Direction of rotation Y2. 	

AC/DC 24 V, 3-point

0

I.

A - AB = 0%

1

1

S1 S2 S3

0...100%

1

b

Cable colours:

1 = black

3 = white

S2 = red

S1 = violet

S3 = white

2 = red

1

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T

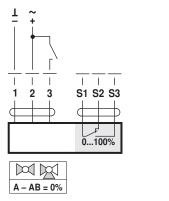
1 2 3



Electrical installation

Wiring diagrams

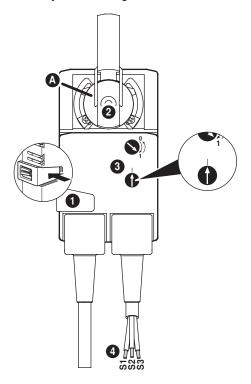
AC/DC 24 V, open/close



Cable colours: 1 = black 2 = red 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.

Gear disengagement

Holding button pressed down: Gear is disengaged. Manual override is possible.

2 Form fit adapter

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

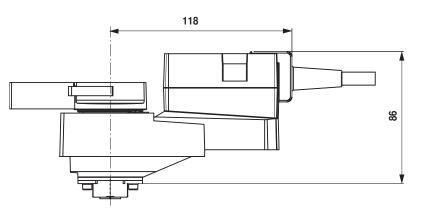
Connect continuity tester to S1 + S2 or to S1 + S3.

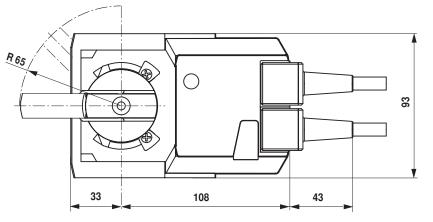
If the auxiliary switch should switch in the opposite direction, rotate the auxiliary switch by 180°.



Dimensions [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