

Technical data sheet

SR230A-SR-5

Rotary actuator for rotary valves and butterfly valves

- Torque motor 20 Nm
- Nominal voltage AC 100...240 V
- Control modulating 2...10 V
- Position feedback 2...10 V
- ------



Technical data

| Electrical data | Nominal voltage | AC 100240 V |
|-----------------|------------------------------------|---|
| | Nominal voltage frequency | 50/60 Hz |
| | Nominal voltage range | AC 85265 V |
| | Power consumption in operation | 4 W |
| | Power consumption in rest position | 1 W |
| | Power consumption for wire sizing | 7.5 VA |
| | Connection supply | Cable 1 m, 2 x 0.75 mm² |
| | Connection control | Cable 1 m, 4 x 0.75 mm² |
| | Parallel operation | Yes (note the performance data) |
| Functional data | Torque motor | 20 Nm |
| | Operating range Y | 210 V |
| | Input Impedance | 100 kΩ |
| | Position feedback U | 210 V |
| | Position feedback U note | Max. 1 mA |
| | Auxiliary supply | DC 24 V ±30%, max. 10 mA |
| | Position accuracy | ±5% |
| | Manual override | with push-button, can be locked |
| | Running time motor | 90 s / 90° |
| | Sound power level, motor | 45 dB(A) |
| | Position indication | Mechanically, integrated, two-section |
| Safety data | Protection class IEC/EN | II, reinforced insulation |
| | Protection class UL | 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 |
| | | in any case |
| | Mode of operation | Туре 1 |
| | Rated impulse voltage supply | 2.5 kV |
| | Rated impulse voltage control | 0.8 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 |
| Mechanical data | Connection flange | F05 |



| Weight | Weight | 1.1 kg | |
|------------------------------|--|---|---|
| Safety notes | | | |
| Â | systems and musiin any other airbolic of any other airbolic aggressive gases conditions remaii Caution: Power sinstallation regul The switch for chispecialists. The discricuit. The device may of can be replaced of cables must not sinstalled in the device contait. The device contaits and sinstalled in the device contaits. | een designed for use in stationary heating, ver st not be used outside the specified field of app orne means of transport. ion: only possible in case that no (sea) water, s interfere directly with the device and that it is n within the thresholds according to the data s upply voltage! specialists may carry out installation. All applica ations must be complied during installation. anging the direction of rotation may only be op irection of rotation must not in particular be re only be opened at the manufacturer's site. It do for repaired by the user. be removed from the device. ins electrical and electronic components and m e. All locally valid regulations and requirements | blication, especially in aircraft or ensured that the ambient sheet at any time. able legal or institutional perated by authorised eversed in a frost protection bes not contain any parts that |
| Product features | | | |
| Mode of operation | The actuator is connected with a standard control signal of 010 V and drives to the position defined by the control signal. Measuring voltage U serves for the electrical display of the valve position 0.5100% and as control signal for other actuators. | | |
| 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. | | |
| Accessories | | | |
| Electrical accessories | Description | | Туре |
| | Feedback potentio Feedback potentio Feedback potentio Feedback potentio Feedback potentio | | S1A S2A P140A P200A P500A P1000A P2800A P5000A P10000A |

Electrical installation



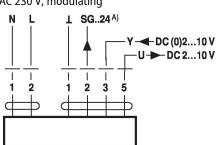
Caution: Power supply voltage!

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



Technical data sheet

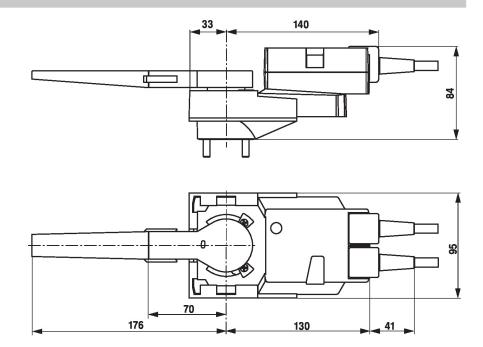
Wiring diagrams AC 230 V, modulating



A) Auxiliary supply only for positioner SG..24 **Cable colours:** 1 = blue 2 = brown 1 = black

- 2 = red
- 3 = white
- 5 = orange

Dimensions



Further documentation

- The complete product range for water applications
- Data sheets for rotary valves and butterfly valves
- Installation instructions for actuators and/or rotary valves and butterfly valves
- General notes for project planning