

Technical data sheet

Rotary actuator for rotary valves and butterfly valves

- Nominal torque 20 Nm
- Nominal voltage AC/DC 24 V
- Control Modulating DC (0)2...10 V
- Position feedback DC 2...10 V
- Running time motor 35 s



Technical data Electrical data AC/DC 24 V Nominal voltage 50/60 Hz Nominal voltage frequency Nominal voltage range AC 19.2...28.8 V / DC 19.2...28.8 V Power consumption in operation 3.5 W Power consumption in rest position 1.5 W Power consumption for wire sizing 6 VA Cable 1 m, 4 x 0.75 mm² Connection supply / control Parallel operation Yes (note the performance data) Functional data Torque motor Min. 20 Nm Positioning signal Y DC 0...10 V Positioning signal Y note Input impedance 100 kΩ DC 2...10 V Operating range Y Position feedback U DC 2...10 V Position feedback U note Max. 1 mA Position accuracy +5% Manual override Gear disengagement with push-button, can be locked Running time motor 35 s / 90° Sound power level motor 55 dB(A) Position indication Mechanically, integrated, two-section Safety Protection class IEC/EN III Safety extra-low voltage Protection class UL UL Class 2 Supply Degree of protection IEC/EN IP54 Degree of protection NEMA/UL NEMA 2, UL Enclosure Type 2 EMC CE according to 2004/108/EC IEC/EN 60730-1 and IEC/EN 60730-2-14 Certification IEC/EN Certification UL cULus according to UL 60730-1A, UL 60730-2-14 and CAN/CSA E60730-1:02 Mode of operation Type 1 Rated impulse voltage supply / control 0.8 kV Control pollution degree 3 Ambient temperature -30...50°C Non-operating temperature -40...80°C Ambient humidity 95% r.h., non-condensing

Mechanical data

Weight

Safety notes



Maintenance

Connection flange

Weight approx.

• 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.

F05

1.2 kg

Maintenance-free

- 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.

| SRC24A-SR-5 | Rotary actuator, Modulating, AC/DC 24 V, 20 Nm, Running time motor 35 s |
|------------------------------|--|
| Safety notes | |
| | 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 | |
| Principle of operation | The actuator is connected with a standard modulating signal of DC 010V and travels to the position defined by the positioning signal. Measuring voltage U serves for the electrical display of the valve position 0100% and as slave 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 is disengaged for as long as the button is pressed or remains locked). |
| High functional reliability | The actuator is overload protected, requires no limit switches and automatically stops when the end stop is reached. |
| Adjustable angle of rotation | Adjustable angle of rotation with mechanical end stops. |

| Adjustable angle of rotation | Adjustable angle of rotation with mechanical end stops. |
|------------------------------|--|
| Combination valve/actuator | For valves with the following mechanical specifications in accordance with ISO 5211 F05: |
| | - Square stem head SW = 14 mm for form fit coupling of the rotary actuator. |

- Hole circle d = 50 mm

Accessories

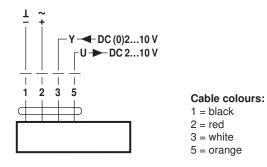
| | Description | Туре | |
|------------------------|---|--------|--|
| Electrical accessories | Auxiliary switch, add-on, 1 x SPDT | S1A | |
| | Auxiliary switch, add-on, 2 x SPDT | S2A | |
| | Feedback potentiometer 140 Ohm, add-on | P140A | |
| | Feedback potentiometer 200 Ohm, add-on | P200A | |
| | Feedback potentiometer 500 Ohm, add-on | P500A | |
| | Feedback potentiometer 1 kOhm, add-on | P1000A | |
| | Feedback potentiometer 2.8 kOhm, add-on | P2800A | |
| | Feedback potentiometer 5 kOhm, add-on | P5000A | |

Electrical installation

| \triangle | Notes | Connection via safety isolating transformer. Parallel connection of other actuators possible. Observe the performance data. Direction of retation on the isoporad Eastery acting: Direction of retation X2. |
|-------------|-------|---|
| | | Direction of rotation switch is covered. Factory setting: Direction of rotation Y2. |

Wiring diagrams

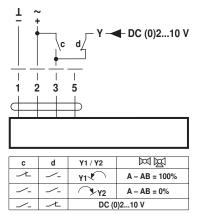
AC/DC 24 V, modulating





Electrical installation

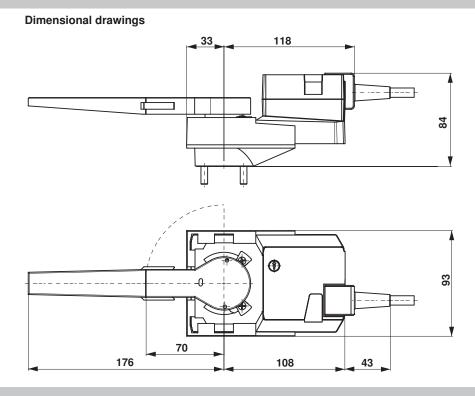
Override control (frost protection circuit)



Cable colours: 1 = black 2 = red 3 = white

5 = orange

Dimensions [mm]



Further documentation

- Overview Valve-actuator combinations
- Data sheets for rotary valves and butterfly valves
- · Installation instructions for actuators and/or rotary valves and butterfly valves
- General notes for project planning