

Modulating rotary actuator with fail-safe for ball valves and butterfly valves

- Torque motor 20 Nm
- Nominal voltage AC/DC 24 V
- Control modulating 2...10 V
- Position feedback 2...10 V
- Deenergised open (NO)



Technical data

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| Nominal voltage | AC/DC 24 V | |
|------------------------------------|-------------------------------------|--|
| Nominal voltage frequency | 50/60 Hz | |
| Nominal voltage range | AC 19.228.8 V / DC 21.628.8 V | |
| Power consumption in operation | 5.5 W | |
| Power consumption in rest position | 3 W | |
| Power consumption for wire sizing | 8.5 VA | |
| Connection supply / control | Cable 1 m, 4 x 0.75 mm ² | |
| Parallel operation | Yes (note the performance data) | |

Functional data

| 20 Nm | |
|--|--|
| 20 Nm | |
| 210 V | |
| 100 kΩ | |
| 210 V | |
| Max. 0.5 mA | |
| ±5% | |
| Y = 0 (0 V = A – AB = 0%) | |
| Deenergised NO, valve open (A – AB = 100%) | |
| by means of hand crank and locking switch | |
| 90 s / 90° | |
| <20 s @ -2050°C / <60 s @ -30°C | |
| 45 dB(A) | |
| Mechanical | |
| Min. 60'000 fail-safe positions | |
| | |

Safety data

| Protection class IEC/EN | III, Safety Extra-Low Voltage (SELV) | |
|--|--|--|
| Power source UL | Class 2 Supply | |
| 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 | |
| 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 | Type 1.AA | |
| Rated impulse voltage supply / control | 0.8 kV | |
| Pollution degree | 3 | |
| Ambient humidity | Max. 95% RH, non-condensing | |
| Ambient temperature | -3050°C [-22122°F] | |



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|-----------------|-----------------------|--------------------|---------------|
| Safety data | Storage temperature | -4080°C [-40176°F] | |
| | Servicing | maintenance-free | |
| Mechanical data | Connection flange | F05 | |
| Weight | Weight | 2.2 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.

SRF24A-SR-5

- 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.
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.
- 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.

Technical data sheet

• 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

Mode of operation

The actuator is connected with a standard control signal 0...10 V. The actuator moves the valve to the operating position at the same time as tensioning the return spring. The valve is turned back to the fail-safe position by spring force when the supply voltage is interrupted.

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

By using the hand crank the valve can be operated manually and engaged with the locking switch at any position. Unlocking is carried out manually or automatically by applying the operating voltage.

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.

Electrical installation

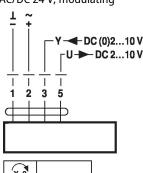


Supply from isolating transformer.

Parallel connection of other actuators possible. Observe the performance data.

Wiring diagrams

AC/DC 24 V, modulating



AB = 0%

Cable colours:

1 = black

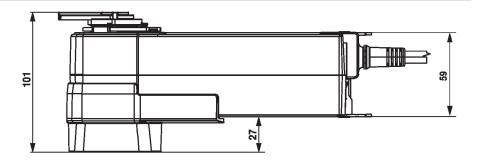
2 = red

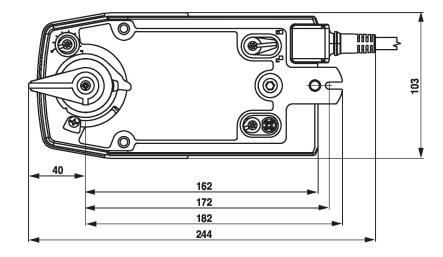
3 = white

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