


Rotary actuator with emergency function for rotary valves

- Torque 20Nm
- Nominal voltage AC 24...240V / DC 24...125V
- Control: Open-close
- SRFA-5: Deenergised NC


Technical data

| | | | | |
|----------------------------|---|--|--|--|
| Electrical data | Nominal voltage | AC 24...240V, 50/60Hz / DC 24...125V | | |
| | Nominal voltage range | AC 19.2...264V / DC 21.6...137.5V | | |
| | Power consumption | In operation | 7W @ nominal torque | |
| | | At rest | 3.5W | |
| | | For wire sizing | 18VA | |
| | Connection | Cable 1m, 2 x 0.75mm ² | | |
| Parallel connection | Yes (Note performance data for supply!) | | | |
| Functional data | Torque | Motor | Min. 20Nm @ nominal voltage | |
| | | Spring return | Min. 20Nm | |
| | Direction of rotation | Spring return | Deenergised NC, valve closed (A – AB = 0%) | |
| | | – SRFA-5 | | |
| | Manual override | With hand crank and interlocking switch | | |
| | Angle of rotation | Max. 90° | | |
| | Running time | Motor | 75s / 90° | |
| | | Spring return | ≤20s @ –20...50°C / max. 60s @ –30°C | |
| | Sound power level | Motor | ≤45dB(A) | |
| | | Spring return | ≤62dB(A) | |
| Position indication | Mechanical | | | |
| Safety | Protection class | II totally insulated  | | |
| | Degree of protection | IP54 | | |
| | | NEMA 2, UL Enclosure Type 2 | | |
| | EMC | CE according to 2004/108/EC | | |
| | Low-voltage directive | CE according to 2006/95/EC | | |
| | Certification | Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14 | | |
| | Mode of operation | Type 1.AA | | |
| | Rated impulse voltage | 4kV | | |
| | Control pollution degree | 3 | | |
| | Ambient temperature | –30...+50°C | | |
| | Non-operating temperature | –40...+80°C | | |
| | Ambient humidity | 95% r.h., non-condensating | | |
| | Maintenance | Maintenance-free | | |
| | Mechanical data | Connection flange | F05 | |
| Dimensions / Weight | Dimensions | See «Dimensions» | | |
| | Weight | Approx. 2kg | | |

Safety notes

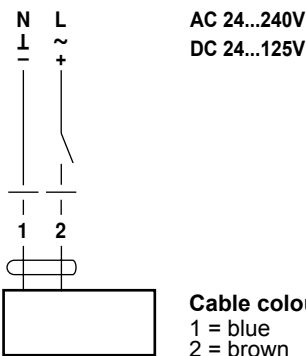

- The actuator has been designed for use in stationary heating, ventilation and air conditioning systems and is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- Caution: Power supply voltage possible!
- It may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed 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.
- The cable must not be removed from the device.
- The device contains electrical and electronic components and is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Product features

| | |
|-------------------------------------|---|
| Mode of operation | The actuator is equipped with a universal power module and can process supply voltages from AC 24...240V plus DC 24...125V. 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 safety position by spring force if the supply voltage is interrupted. |
| Simple direct mounting | Straightforward direct mounting on the rotary valve with mounting flange. The mounting position in relation to the fitting can be selected in 90° steps. |
| Manual override | Manual operation of the valve with the hand crank, locking in any position with the interlocking switch. Unlocking is manual or automatic by applying the operating voltage. |
| Adjustable angle of rotation | Adjustable angle of rotation with mechanical end stop. |
| High operational reliability | The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached. |
| Combination valve actuators | Refer to the valve documentation for suitable valves, their permitted media temperatures and closing pressures. |

Electrical installation

Wiring diagram



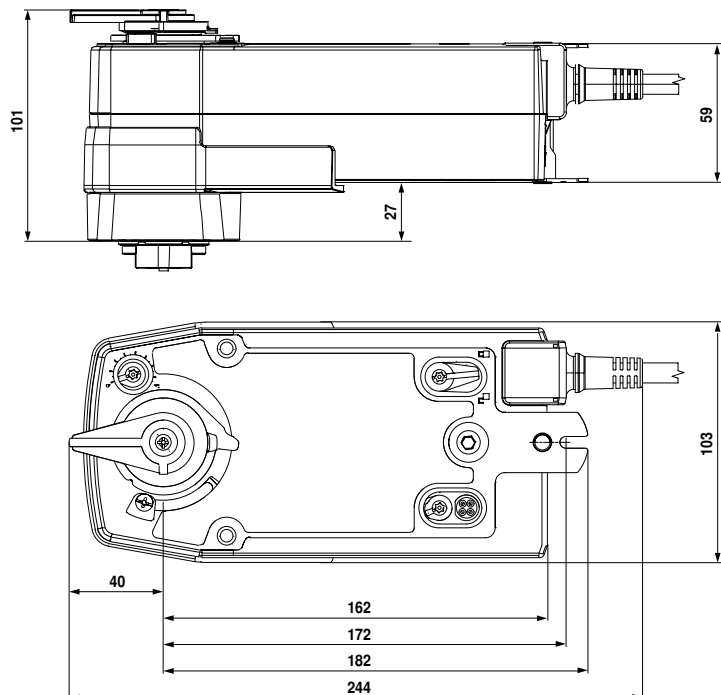
Notes

- Caution: Power supply voltage possible!
- Parallel connection of other actuators possible. Note the performance data.



Dimensions [mm]

Dimensional drawings



Rotary actuator with emergency function for rotary valves

- Torque 20Nm
- Nominal voltage AC 24...240V / DC 24...125V
- Control: Open-close
- Two integrated auxiliary switches
- SRFA-S2-5: Deenergised NC


Technical data

| | | | | |
|----------------------------|---|---|--|--|
| Electrical data | Nominal voltage | AC 24...240V, 50/60Hz / DC 24...125V | | |
| | Nominal voltage range | AC 19.2...264V / DC 21.6...137.5V | | |
| | Power consumption | In operation | 7W @ nominal torque | |
| | | At rest | 3.5W | |
| | | For wire sizing | 18VA | |
| | Auxiliary switch | 2 x SPDT, 1 x 10% / 1 x 11...90% | | |
| | Connection | Motor | Cable 1m, 2 x 0.75mm ² | |
| Auxiliary switch | | Cable 1m, 6 x 0.75mm ² | | |
| Parallel connection | Yes (Note performance data for supply!) | | | |
| Functional data | Torque | Motor | Min. 20Nm @ nominal voltage | |
| | | Spring return | Min. 20Nm | |
| | Direction of rotation | Spring return | Deenergised NC, valve closed (A – AB = 0%) | |
| | | – SRFA-S2-5 | | |
| | Manual override | With hand crank and interlocking switch | | |
| | Angle of rotation | Max. 90° | | |
| | Running time | Motor | 75s / 90° | |
| | | Spring return | ≤20s @ –20...50°C / max. 60s @ –30°C | |
| | Sound power level | Motor | ≤45dB(A) | |
| | | Spring return | ≤62dB(A) | |
| Position indication | Mechanical | | | |
| Safety | Protection class | II totally insulated <input type="checkbox"/> | | |
| | Degree of protection | IP54 | | |
| | | NEMA 2, UL Enclosure Type 2 | | |
| | EMC | CE according to 2004/108/EC | | |
| | Low-voltage directive | CE according to 2006/95/EC | | |
| | Certification | Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14 | | |
| | Mode of operation | Type 1.AA.B | | |
| | Rated impulse voltage | Actuator | 4kV | |
| | | Auxiliary switch | 2.5kV | |
| | Control pollution degree | 3 | | |
| Ambient temperature | –30...+50°C | | | |
| Non-operating temperature | –40...+80°C | | | |
| Ambient humidity | 95% r.h., non-condensating | | | |
| Maintenance | Maintenance-free | | | |
| Mechanical data | Connection flange | F05 | | |
| Dimensions / Weight | Dimensions | See «Dimensions» | | |
| | Weight | Approx. 2.2kg | | |

Safety notes

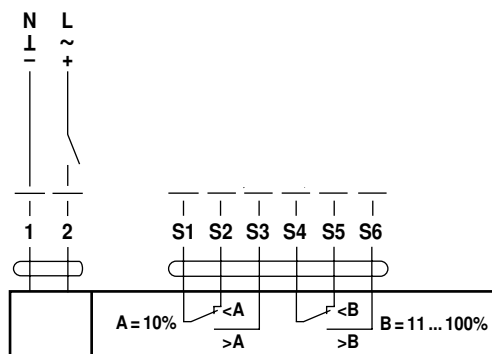

- The actuator has been designed for use in stationary heating, ventilation and air conditioning systems and is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- Caution: Power supply voltage possible!
- It may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed 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.
- The cable must not be removed from the device.
- The integrated switches of this actuator have to be connected either to Power supply voltage or safety extra low voltage. The combination Power supply voltage / safety extra low voltage is not allowed.
- The device contains electrical and electronic components and is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Product features

| | |
|-------------------------------------|---|
| Mode of operation | The actuator is equipped with a universal power module and can process supply voltages from AC 24...240V plus DC 24...125V. 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 safety position by spring force if the supply voltage is interrupted. |
| Simple direct mounting | Straightforward direct mounting on the rotary valve with mounting flange. The mounting position in relation to the fitting can be selected in 90° steps. |
| Manual override | Manual operation of the valve with the hand crank, locking in any position with the interlocking switch. Unlocking is manual or automatic by applying the operating voltage. |
| Adjustable angle of rotation | Adjustable angle of rotation with mechanical end stop. |
| High operational reliability | The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached. |
| Flexible signalization | The actuator has one auxiliary switch with a fixed setting and one adjustable auxiliary switch. They permit a 10% or 11...100% angle of rotation to be signalled. |
| Combination valve actuators | Refer to the valve documentation for suitable valves, their permitted media temperatures and closing pressures. |

Electrical installation

Wiring diagram



Cable colours:

- 1 = blue
- 2 = brown
- S1 = violet
- S2 = red
- S3 = white
- S4 = orange
- S5 = pink
- S6 = grey

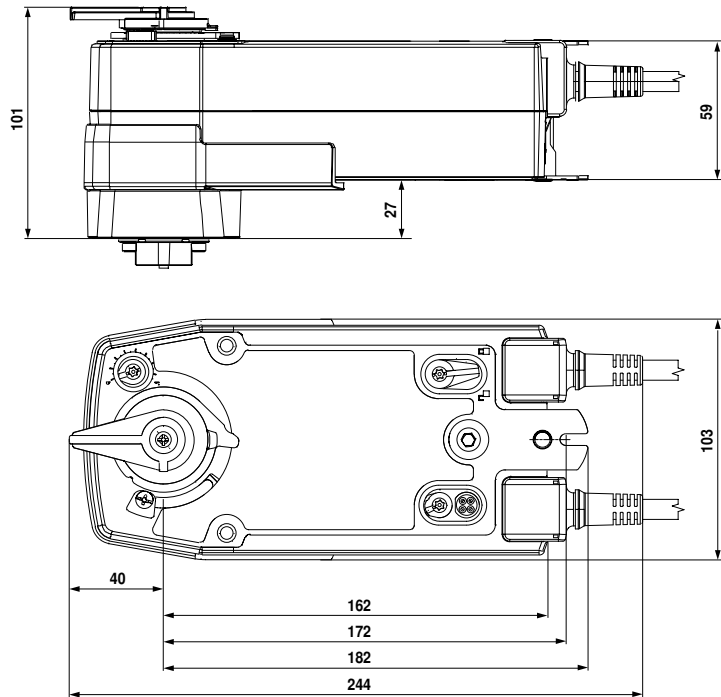
Notes

- Caution: Power supply voltage possible!
- Parallel connection of other actuators possible. Note the performance data.



Dimensions [mm]

Dimensional drawings



Modulating rotary actuator with emergency function for rotary valves

- Torque 20Nm
- Nominal voltage AC/DC 24V
- Control: modulating DC (0)2...10V
- Position feedback DC 2...10V
- SRF24A-SR-5: Deenergised NC


Technical data

| | | |
|----------------------------|---|---|
| Electrical data | Nominal voltage | AC 24V, 50/60Hz / DC 24V |
| | Nominal voltage range | AC 19.2...28.8V / DC 21.6...28.8V |
| | Power consumption | In operation 5.5W @ nominal torque At rest 3.5W For wire sizing 8.5VA |
| | Connection | Cable 1m, 4 x 0.75mm ² |
| | Parallel connection | Yes (Note performance data for supply!) |
| Functional data | Torque | Motor Min. 20Nm @ nominal voltage Spring return Min. 20Nm |
| | Control | Control signal Y DC (0)2...10V, input impedance 100kΩ Operating range DC 2...10V |
| | Position feedback (measuring voltage U) | DC 2...10V, max. 0.5mA |
| | Position accuracy | ±5% |
| | Direction of rotation | Spring return – SRF24A-SR-5 Deenergised NC, valve closed (A – AB = 0%) |
| | Manual override | With hand crank and interlocking switch |
| | Angle of rotation | Max. 90° |
| | Running time | Motor 90s / 90° Spring return ≤20s @ –20...50°C / max. 60s @ –30°C |
| | Sound power level | Motor ≤45dB(A) Spring return ≤62dB(A) |
| | Position indication | Mechanical |
| | Safety | Protection class |
| Degree of protection | | IP54 NEMA 2, UL Enclosure Type 2 |
| EMC | | CE according to 2004/108/EC |
| Certification | | Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14 |
| Mode of operation | | Type 1.AA |
| Rated impulse voltage | | 0.8kV |
| Control pollution degree | | 3 |
| Ambient temperature | | –30...+50°C |
| Non-operating temperature | | –40...+80°C |
| Ambient humidity | | 95% r.h., non-condensating |
| Maintenance | Maintenance-free | |
| Mechanical data | Connection flange | F05 |
| Dimensions / Weight | Dimensions | See «Dimensions» |
| | Weight | Approx. 2kg |

Safety notes

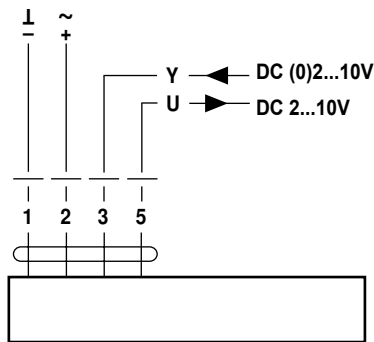

- The actuator has been designed for use in stationary heating, ventilation and air conditioning systems and is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- It may only be installed by suitably trained personnel.
All applicable legal or institutional installation regulations must be complied with.
- 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.
- The cable must not be removed from the device.
- The device contains electrical and electronic components and is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Product features

- Mode of operation** The actuator is controlled with a standard signal of DC (0)2...10V and moves the valve to the operating position at the same time as tensioning the return spring. The valve is turned back to the emergency position by spring force if the supply voltage is interrupted.
- Simple direct mounting** Straightforward direct mounting on the rotary valve with mounting flange. The mounting position in relation to the fitting can be selected in 90° steps.
- Manual override** Manual operation of the valve with the hand crank, locking in any position with the interlocking switch. Unlocking is manual or automatic by applying the operating voltage.
- Adjustable angle of rotation** Adjustable angle of rotation with mechanical end stop.
- High operational reliability** The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.
- Combination valve actuators** Refer to the valve documentation for suitable valves, their permitted media temperatures and closing pressures.

Electrical installation

Wiring diagram

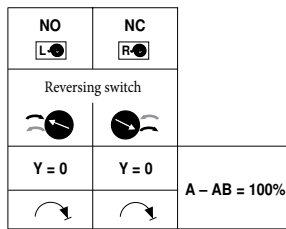


Notes

- Connect via safety isolation transformer.
- Parallel connection of other actuators possible. Note the performance data.

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

Direction of rotation



Dimensions [mm]

Dimensional drawings

