

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 24240V, 50/60Hz / DC 24125V
	Nominal voltage range		AC 19.2264V / DC 21.6137.5V
	Power	In operation	7W @ nominal torque
	consumption	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
	Discours of solutions	Spring return	Min. 20Nm
	Direction of rotation	Spring return – SRFA-5	Deenergised NC, valve closed (A – AB = 0%)
	Manual override		With hand crank and interlocking switch
	Angle of rotation		Max. 90°
	Running time	Motor	75s / 90°
		Spring return	≤20s @ –2050°C / max. 60s @ –30°C
	Sound power level	Motor	≤45dB(A)
	Desition indication	Spring return	≤62dB(A)
	Position indication		Mechanical
Safety	Protection class Degree of protection		II totally insulated □
			IP54 NEMA 2, UL Enclosure Type 2
	EMC		CE according to 2004/108/EC
	Low-voltage directive		CE according to 2004/108/EC CE according to 2006/95/EC
	Certification		Certified to IEC/EN 60730-1 and IEC/EN 60730-
			2-14
	Mode of operation Rated impulse voltage Control pollution degree Ambient temperature Non-operating temperature Ambient humidity Maintenance		Type 1.AA
			4kV
			3
			−30+50°C
			–40+80°C
			95% r.h., non-condensating
			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 po-

sition 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 interlock-

ing 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

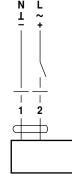
end stop is reached.

Combination valve actuators Refer to the valve documentation for suitable valves, their permitted media temperatures

and closing pressures.

Electrical installation

Wiring diagram



AC 24...240V DC 24...125V

Notes

Caution: Power supply voltage possible!

• Parallel connection of other actuators possible. Note the performance data.

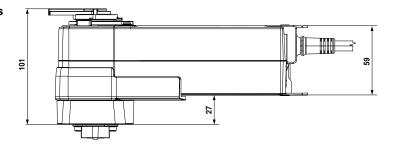
Cable colours:

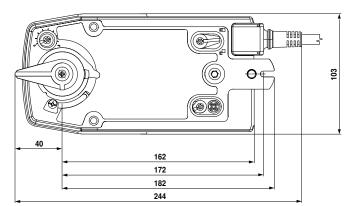
1 = blue

2 = brown

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 24240V, 50/60Hz / DC 24125V
	Nominal voltage range		AC 19.2264V / DC 21.6137.5V
	Power	In operation	7W @ nominal torque
	consumption	At rest	3.5W
		For wire sizing	18VA
	Auxiliary switch		2 x SPDT, 1 x 10% / 1 x 1190%
	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	Spring return	
	rotation	- SRFA-S2-5	Deenergised NC, valve closed (A – AB = 0%)
	Manual override		With hand crank and interlocking switch
	Angle of rotation		Max. 90°
	Running time	Motor	75s / 90°
		Spring return	≤20s @ –2050°C / max. 60s @ –30°C
	Sound power	Motor	≤45dB(A)
	level	Spring return	≤62dB(A)
	Position indication		Mechanical
Safety	Protection class Degree of protection		II totally insulated
			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	Actuator	4kV 2.5kV
	voltage	Auxiliary switch	3.3KV
	Control pollution degree Ambient temperature		-30+50°C
			-40+80°C
	Non-operating temperature 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 po-

sition 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 interlock-

ing 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

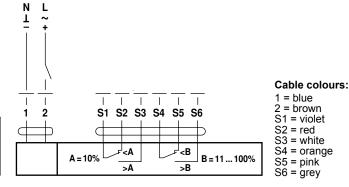
switch. They permit a 10% or 11...100% angle of rotation to be signalled.

Combination valve actuators Refer to the valve documentation for suitable valves, their permitted media temperatures

and closing pressures.

Electrical installation

Wiring diagram

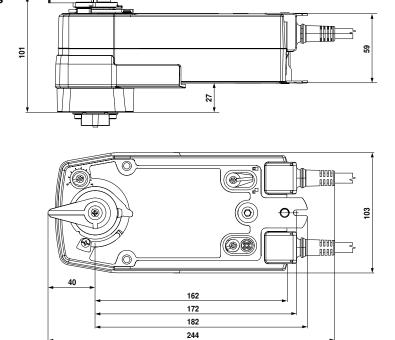


Notes

- 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



Nominal voltage				
Nominal voltage range Power consumption In operation At rest S.5W @ nominal torque S.5W @ n	Technical data			
Power consumption In operation At rest 3.5W @ nominal torque 3.5W	Electrical data	Nominal voltage		AC 24V, 50/60Hz / DC 24V
At rest For wire sizing 8.5VA Connection Cable 1m, 4 x 0.75mm² Parallel connection Yes (Note performance data for supply!) Functional data Torque Motor Min. 20Nm @ nominal voltage Min. 20Nm (DC (0)210V, input impedance 100kΩ Dc 210V Position feedback (measuring voltage U) Dc 210V, max. 0.5mA Position accuracy ±5% Direction of rotation Spring return - SRF24A-SR-5 Manual override With hand crank and interlocking switch Angle of rotation Max. 90° Running time Motor 90s / 90° y 90° y 90° y 90° Spring return + Spring retur		Nominal voltage range		AC 19.228.8V / DC 21.628.8V
For wire sizing 8.5VA Cable 1m, 4 x 0.75mm² Parallel connection Yes (Note performance data for supply!) Functional data Torque Motor Spring return Min. 20Nm @ nominal voltage Min. 20Nm @ nominal		Power consumption In operation		5.5W @ nominal torque
Connection Parallel connection Yes (Note performance data for supply!) Functional data Torque				
Functional data Torque Motor Spring return Min. 20Nm @ nominal voltage Min. 20Nm Control Control signal Y Operating range DC (0)210V, input impedance 100kΩ DC 210V Position feedback (measuring voltage U) DC 210V, max. 0.5mA Position accuracy ±5% Direction of rotation Spring return - SRF24A-SR-5 Manual override With hand crank and interlocking switch Angle of rotation Max. 90° Running time Motor Spring return \$20s @ -2050°C / max. 60s @ -30°C Sound power level Motor Spring return \$45dB(A) Spring return \$62dB(A) Position indication Mechanical Protection class III Extra low voltage / UL Class 2 Supply Degree of protection IP54 NEMA 2, UL Enclosure Type 2 EMC Certified to IEC/EN 60730-1 and IEC/EN 607 2-14 Certified to IEC/EN 60730-1 and IEC/EN 607 2-14 Mode of operation Type 1.AA Rated impulse voltage 0.8kV Control pollution degree 3 Ambient humidity 95% r.h., non-condensating Maintenance Maintenance-free			For wire sizing	
Functional data Torque Spring return Min. 20Nm @ nominal voltage Min. 20Nm Control Control Spring range DC 210V Position feedback (measuring voltage U) DC 210V, max. 0.5mA Position accuracy ±5% Direction of rotation Spring return - SRF24A-SR-5 Manual override With hand crank and interlocking switch Angle of rotation Max. 90° Running time Motor Spring return ≤20s @ -2050°C / max. 60s @ -30°C Sound power level Motor Spring return ≤62dB(A) Position indication Mechanical Protection class III Extra low voltage / UL Class 2 Supply Degree of protection Pesa NEMA 2, UL Enclosure Type 2 EMC CE according to 2004/108/EC Certification Certified to IEC/EN 60730-1 and IEC/EN 607 2-14 Mode of operation Type 1.AA Rated impulse voltage 0.8kV Control pollution degree 3 Ambient temperature -30+50°C Ambient temperature -40+80°C Ambient humidity 95% r.h., non-condensating Maintenance		Connection		
Spring return Min. 20Nm		Parallel connection		Yes (Note performance data for supply!)
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Operating range DC 210V Position feedback (measuring voltage U) DC 210V, 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 Spring return 90s / 90° Sound power level Motor Spring return ≤20s @ -2050°C / max. 60s @ -30°C Sound power level Motor Spring return ≤45dB(A) ≤62dB(A) Position indication Mechanical Safety Protection class III Extra low voltage / UL Class 2 Supply 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 607 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			Spring return	Min. 20Nm
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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 @ -2050°C / max. 60s @ -30°C \$20s @ -2050°C / max. 60s @ -2060°C \$20s @ -2050°C \$20s @ -2050°C \$20s @ -			neasuring voltage U)	
SRF24A-SR-5 Deenergised NC, valve closed (A – AB = 0%				±5%
Manual override With hand crank and interlocking switch Angle of rotation Max. 90° Running time Motor Spring return \$20s @ -2050°C / max. 60s @ -30°C Sound power level Motor Spring return \$62dB(A) Spring return \$62dB(A) Position indication Mechanical Frotection class III Extra low voltage / UL Class 2 Supply 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 607 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		Direction of rotation		
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NEMA 2, UL Enclosure Type 2 EMC Cetification Certified to IEC/EN 60730-1 and IEC/EN 607 2-14 Mode of operation Type 1.AA Rated impulse voltage 0.8kV Control pollution degree 3 Ambient temperature Ambient humidity 95% r.h., non-condensating Maintenance Maintenance-free	Safety	Degree of protection EMC Certification Mode of operation Rated impulse voltage Control pollution degree Ambient temperature Non-operating temperature Ambient humidity		
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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				Type 1.AA
Ambient temperature -30+50°C Non-operating temperature -40+80°C Ambient humidity 95% r.h., non-condensating Maintenance Maintenance-free				0.8kV
Non-operating temperature —40+80°C Ambient humidity 95% r.h., non-condensating Maintenance Maintenance-free				3
Ambient humidity 95% r.h., non-condensating Maintenance Maintenance-free				-30+50°C
Maintenance Maintenance-free				-40+80°C
				95% r.h., non-condensating
Mechanical data Connection flange F05				Maintenance-free
	Mechanical data	Connection flange		F05
Dimensions / Weight Dimensions See «Dimensions»	Dimensions / Weight	Dimensions Weight		See «Dimensions»
Weight Approx. 2kg	_			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 po-

sition 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 interlock-

ing 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

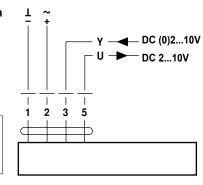
· Connect via safety isolation transformer.

Note the performance data.

· Parallel connection of other actuators possible.

Notes

Wiring diagram



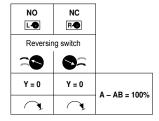
Cable colours:

1 = black

2 = red

3 = white 5 = orange

Direction of rotation



Dimensions [mm]

Dimensional drawings

