

- Nominal torque 5 Nm
- Nominal voltage AC 230 V
- · Control 3-point
- · with 2 integrated auxiliary switches
- Deenergised open (NO)



Technical data

Electrical data

AC 230 V
AO 200 V
50/60 Hz
AC 198264 V
5 W
3 W
16 VA
2 x SPDT, 1 x 10% / 1 x 1190%
1 mA3 (0.5) A, AC 250 V
Cable 1 m, 4 x 0.75 mm ²
Cable 1 m, 6 x 0.75 mm ²
Yes (note the performance data)
Min. 5 Nm
Min. 5 Nm

Functional data

Parallel operation	Yes (note the performance data)
Torque motor	Min. 5 Nm
Torque spring return	Min. 5 Nm
Direction of rotation motor	Y=0 (A - AB = 0%)
Direction of rotation spring-return	Deenergised NO, valve open (A - AB = 100%)
Manual override	No
Angle of rotation	90°
Running time motor	35 s / 90°
Running time emergency setting position	<20 s / 90°
Sound power level motor max.	45 dB(A)
Position indication	Mechanical
Service life	Min. 60,000 emergency positions
Protection class IEC/EN	Il Protective insulated
Protection class UL	Il Protective insulated

Safety

Service life	Min. 60,000 emergency positions
Protection class IEC/EN	II Protective insulated
Protection class UL	II Protective insulated
Protection class auxiliary switch IEC/EN	II Protective insulated
Degree of protection IEC/EN	IP54
Degree of protection NEMA/UL	NEMA 2, UL Enclosure Type 2
EMC	CE according to 2004/108/EC
Low voltage directive	CE according to 2006/95/EC
Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
Certification UL	cULus according to UL 60730-1A, UL 60730-2-
	14 and CAN/CSA E60730-1:02
Mode of operation	Type 1.AA.B
Rated impulse voltage supply / control	2.5 kV
Rated impulse voltage auxiliary switch	2.5 kV
Control pollution degree	3
Ambient temperature	-3050°C
Non-operating temperature	-4080°C
Ambient humidity	95% r.h., non-condensing
Maintenance	Maintenance-free
Weight approx.	2.3 kg

Weight

Safety notes



- This device 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!

Rotary spring-return actuator, 3-point, AC 230 V, 5 Nm, with 2 integrated auxiliary switches



Safety notes

- 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.
- 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 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

when the supply voltage is interrupted.

Direct mounting Simple direct mounting on the ball valve with only one screw. The mounting orientation

in relation to the ball valve can be selected in 90 $^{\circ}\,$ steps.

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 stop.

Flexible signalization The actuator has one auxiliary switch with a fixed setting and one adjustable auxiliary

switch. They permit a 10% or 11...90% angle of rotation to be signaled.

Electrical installation

10

A - AB = 0%

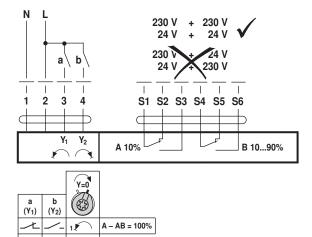


Notes

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

Wiring diagrams

AC 230, 3-point



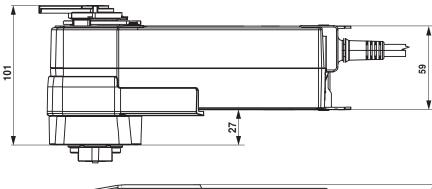
Cable colours:

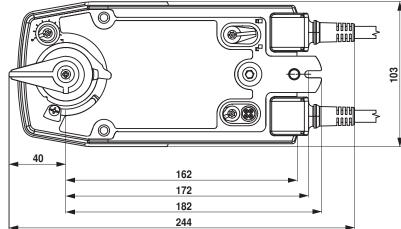
- 1 = blue
- 2 = brown
- 3 = white
- 4 = white
- S1 = violet
- S2 = redS3 = white
- S4 = orange
- S5 = pink
- S6 = grey



Dimensions [mm]

Dimensional drawings





Further documentation

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