

## Rotary actuator for ball valves

- Torque motor 20 Nm
- Nominal voltage AC 100...240 V
- Control Open/close, 3-point



# **Technical data**

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Nominal voltage	AC 100240 V	
Nominal voltage frequency	50/60 Hz	
Nominal voltage range	AC 85265 V	
Power consumption in operation	3 W	
Power consumption in rest position	0.6 W	
Power consumption for wire sizing	7 VA	
Connection supply / control	Cable 1 m, 3x 0.75 mm²	
Parallel operation	Yes (note the performance data)	

## **Functional data**

Torque motor	20 Nm	
Manual override	with push-button, can be locked	
Running time motor	90 s / 90°	
Sound power level, motor	45 dB(A)	
Position indication	Mechanical, pluggable	
Dretestion slogs IFC /FN	II vainfavead insulation	

# Safety data

Protection class IEC/EN	II, reinforced insulation
Protection class UL	II, reinforced insulation
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
Low voltage directive	CE according to 2014/35/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
Type of action	Type 1
Rated impulse voltage supply / control	2.5 kV
Pollution degree	3
Ambient humidity	Max. 95% RH, non-condensing
Ambient temperature	-3050°C [-22122°F]
Storage temperature	-4080°C [-40176°F]
Servicing	maintenance-free
Weight	0.89 kg

Weight



#### 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.
- 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.
- · Caution: Power supply voltage!
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied with 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.
- 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**

Simple direct mounting

Straightforward direct mounting on the ball valve with only one central screw. The assembly tool is integrated in the plug-in position indication. The mounting orientation in relation to the ball valve can be selected in 90° steps.

Manual override

Manual override with push-button possible (the gear train is disengaged for as long as the button is pressed or remains locked).

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.

### **Accessories**

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Description	Туре	
Auxiliary switch 1x SPDT add-on	S1A	
Auxiliary switch 2x SPDT add-on	S2A	
Feedback potentiometer 140 $\Omega$ add-on	P140A	
Feedback potentiometer 1 kΩ add-on	P1000A	
Feedback potentiometer 10 k $\Omega$ add-on	P10000A	

#### **Electrical installation**



Caution: Power supply voltage!

Parallel connection of other actuators possible. Observe the performance data. Direction of rotation switch is covered. Factory setting: Direction of rotation Y2.

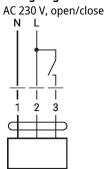
#### Wire colours:

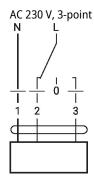
- 1 = blue
- 2 = brown
- 3 = white



# **Electrical installation**

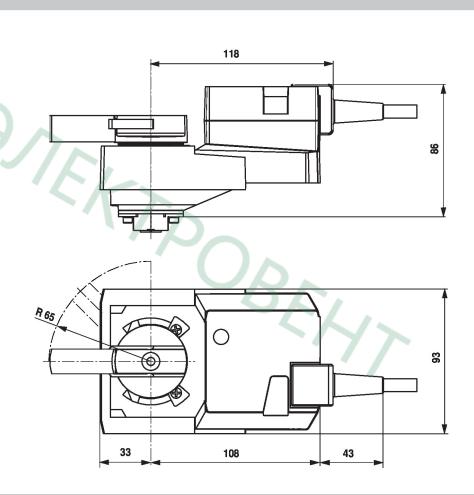
## Wiring diagrams





1	2	3	区区
_~	_~_	_/L	A - AB = 0%
_~	~	7	A - AB = 100%
_~	_/_	_/_	stop
	_/_		A - AB = 100%

## **Dimensions**



## **Further documentation**

- $\bullet$  The complete product range for water applications
- Data sheets for ball valves
- Installation instructions for actuators and/or ball valves
- General notes for project planning