

Torque motor 5 Nm

Nominal voltage AC 100...240 V
Control Open/close, 3-point

# **Technical data sheet**

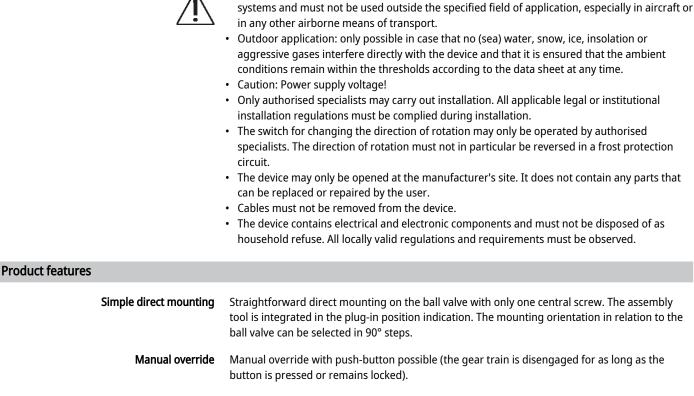
LR230A



## Technical data

Electrical data	Nominal voltage	AC 100240 V	
	Nominal voltage frequency	50/60 Hz	
	Nominal voltage range	AC 85265 V	
	Power consumption in operation	2 W	
	Power consumption in rest position	0.5 W	
	Power consumption for wire sizing	4 VA	
	Connection supply / control	Cable 1 m, 3 x 0.75 mm <sup>2</sup>	
	Parallel operation	Yes (note the performance data)	
Functional data	Torque motor	5 Nm	
	Manual override	with push-button, can be locked	
	Running time motor	90 s / 90°	
	Sound power level, motor	35 dB(A)	
	Position indication	Mechanical, pluggable	
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	Weight	0.47 kg	





This device has been designed for use in stationary heating, ventilation and air-conditioning

- 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

Electrical accessories	Description	Туре
	Auxiliary switch 1 x SPDT add-on	S1A
	Auxiliary switch 2 x SPDT add-on	S2A
	Feedback potentiometer 140 $\Omega$ add-on	P140A
	Feedback potentiometer 200 Ω add-on	P200A
	Feedback potentiometer 500 $\Omega$ add-on	P500A
	Feedback potentiometer 1 kΩ add-on	P1000A
	Feedback potentiometer 2.8 kΩ add-on	P2800A
	Feedback potentiometer 5 k $\Omega$ add-on	P5000A
	Feedback potentiometer 10 kΩ add-on	P10000A

### **Electrical installation**



#### Caution: Power supply voltage!

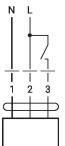
Parallel connection of other actuators possible. Observe the performance data. Direction of rotation switch is covered. Factory setting: Direction of rotation Y2.

#### Wire colours:

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



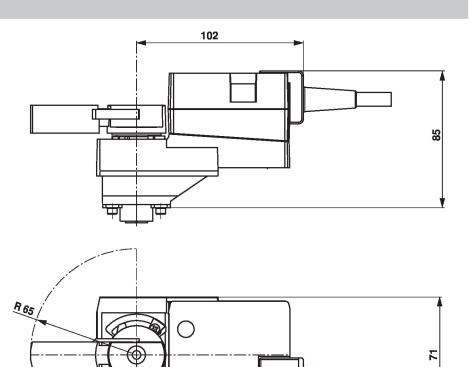
## Wiring diagrams AC 230 V, open/close



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1	2	3	函函
~	~	_/L	A - AB = 0%
~	~	ζ	A - AB = 100%
~	_/_	_/L	stop
~	_/L	ζ	A - AB = 100%

# Dimensions



93

42

## Further documentation

• The complete product range for water applications

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- Data sheets for ball valves
- Installation instructions for actuators and/or ball valves
- General notes for project planning