

**GR230A-5 Rotary actuator for rotary valves
GR230A-7 Rotary actuator for rotary valves**

- Nominal torque 40Nm
- Nominal voltage AC 230V
- Control Open-close


Technical data

Electrical data	Nominal voltage		AC 230V
	Nominal voltage frequency		50/60Hz
	Nominal voltage range		AC 85...265V
	Power consumption in operation		5W
	Power consumption at rest		2W
	Power consumption for wire sizing		9VA
	Connection supply / control		Cable 1m, 3 x 0.75mm ²
	Parallel operation		Yes (note the performance data)
Functional data	Torque motor	GR230A-5 GR230A-7	min. 40Nm min. 40Nm
	Manual override		Gear disengagement with push-button, can be locked
	Running time motor		150s / 90°
	Sound power level motor max.		45dB(A)
	Position indication		Mechanical, pluggable
Safety	Protection class IEC/EN		II protective insulated
	Protection class UL		II protective insulated
	Degree of protection IEC/EN		IP54
	Degree of protection NEMA/UL		NEMA 2, UL Enclosure Type 2
	Electromagnetic compatibility		CE according to 2004/108/EC
	Low-voltage directive		CE according to 2006/95/EC
	Certification IEC/EN		Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14
	Mode of operation		Type 1
	Rated current voltage motor		4kV
	Control pollution degree		3
	Ambient temperature		-30...50°C
	Non-operating temperature		-40...80°C
Mechanical data	Ambient humidity		95% r.h., non-condensing
	Maintenance		Maintenance-free
	Connection flange	GR230A-5 GR230A-7	F05 F07
Weight	Weight		Approx. 1.85kg

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.
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied 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.
- The 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

Manual override	Manual override with push-button possible (the gear is disengaged for as long as the button is pressed or remains locked).
High functional reliability	The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.
Simple direct mounting	Simple direct mounting on the rotary valve with mounting flange. The mounting position in relation to the fitting can be selected in 90° steps.
Combination valve/actuator	For valves with the following mechanical specifications in accordance with ISO 5211 F05: <ul style="list-style-type: none"> - Square stem head SW = 14mm for form-fit coupling of the rotary actuator. - Hole circle d = 50mm For valves with the following mechanical specifications in accordance with ISO 5211 F07: <ul style="list-style-type: none"> - Square stem head SW = 17mm for form-fit coupling of the rotary actuator. - Hole circle d = 70mm

Accessories

	Description	Type
Electrical accessories	Auxiliary switch, add-on, 1 x SPDT	S1A
	Auxiliary switch, add-on, 2 x SPDT	S2A
	Feedback potentiometer 140 Ohm, add-on	P140A
	Feedback potentiometer 200 Ohm, add-on	P200A
	Feedback potentiometer 500 Ohm, add-on	P500A
	Feedback potentiometer 1 kOhm, add-on	P1000A
	Feedback potentiometer 2.8 kOhm, add-on	P2800A
	Feedback potentiometer 5 kOhm, add-on	P5000A
	Feedback potentiometer 10 kOhm, add-on	P10000A

Wiring diagram

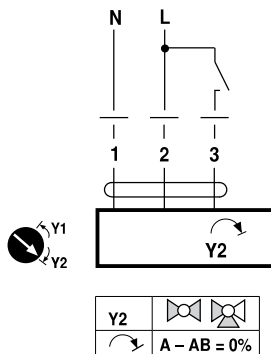


Notes

- 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.

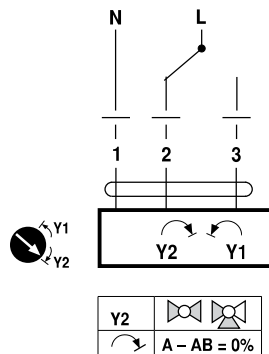
GR230A-5

AC 230V, open-close



Cable colours:

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



Wiring diagram

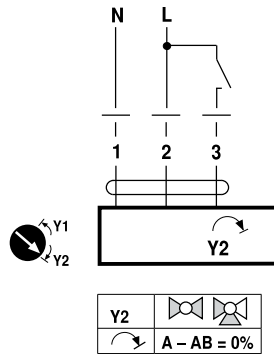


Notes

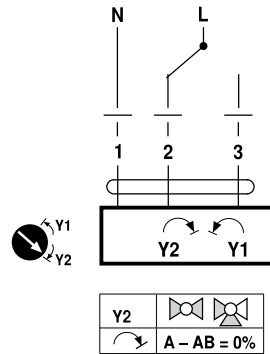
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GR230A-7

AC 230V, open-close

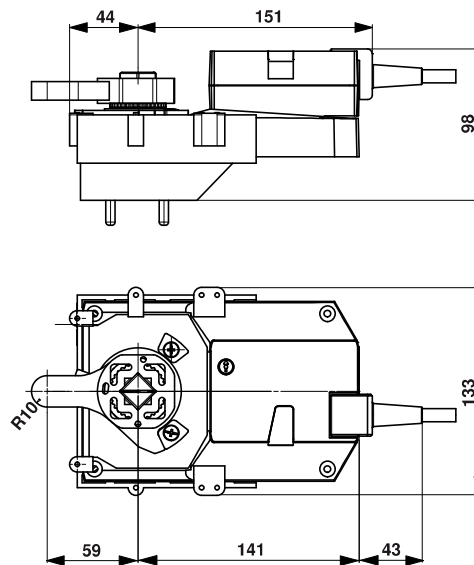


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Dimensions [mm]

GR230A-5



GR230A-7

