

Technical data sheet

RobustLine rotary actuator for rotary valves

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

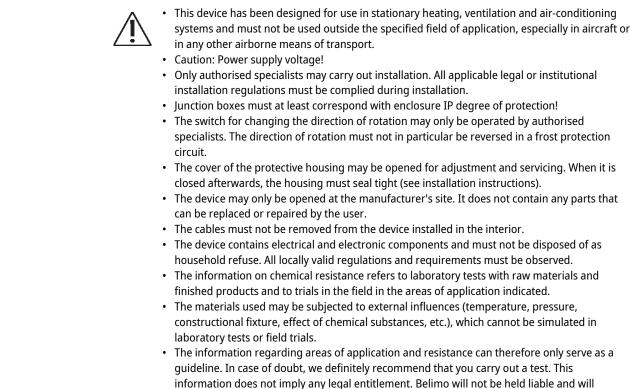
• Optimum protection against corrosion and chemical influences, UV radiation, damp and condensation (for use in ambient temperatures up to -40° C, there is a separate actuator available with built-in heater)



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	3 W	
	Power consumption in rest position	0.6 W	
	Power consumption for wire sizing	7 VA	
	Connection supply / control	Cable 1 m, 3 x 0.75 mm ² (halogen-free)	
	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	
Safety data	Protection class IEC/EN	II, reinforced insulation	
	Protection class UL	II, reinforced insulation	
	Degree of protection IEC/EN	IP66/67	
	Degree of protection NEMA/UL	NEMA 4X	
	Enclosure	UL Enclosure Type 4X	
	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	Туре 1	
	Rated impulse voltage supply / control	2.5 kV	
	Pollution degree	4	
	Ambient humidity	Max. 100% RH	
	Ambient temperature	-3050°C [-22122°F]	
	Ambient temperature note	-4050°C for actuator with integrated heating	
	Storage temperature	-4080°C [-40176°F]	
	Servicing	maintenance-free	
Weight	Weight	1.8 kg	





guideline. In case of doubt, we definitely recommend that you carry out a test. This information does not imply any legal entitlement. Belimo will not be held liable and will provide no warranty. The chemical or mechanical resistance of the materials used is not alone sufficient for judging the suitability of a product. Regulations pertaining to combustible liquids such as solvents etc. must be taken into account with special reference to explosion protection.

• When used under high UV loads, e.g. extreme sunlight, the use of flexible metallic or equivalent cable conduits is recommended.

Product features

Fields of application	The actuator is particularly suited for use in difficult conditions, e.g. in the field of: - Wood drying - Animal breeding - Food processing - Agriculture - Indoor swimming pools / bathhouses - Rooftop ventilation plant rooms - General outdoor applications - Low temperatures (the separately obtainable actuator with integrated factory-installed heating is suitable for utilisation down to -40°C) - Alternating climate / frequent and severe temperature fluctuations (Recommendation: use the actuator with integrated factory-installed heating which can be ordered separately to prevent internal condensation)
Resistances	Noxious gas test EN 60068-2-60 (Fraunhofer Institut ICT / DE) Salt fog spray test EN 60068-2-52 (Fraunhofer Institut ICT / DE) Ammoniac test DIN 50916-2 (Fraunhofer Institut ICT / DE) Climate test IEC60068-2-30 (Trikon Solutions AG / CH) Disinfectant (animals) (Trikon Solutions AG / CH) UV Test (Solar radiation at ground level) EN 60068-2-5, EN 60068-2-63 (Quinel / Zug CH)
Used materials	Actuator housing polypropylene (PP) Cable glands / hollow shaft polyamide (PA) Connecting cable FRNC Clamp / screws in general Steel 1.4404 Seals EPDM Form fit insert aluminium anodised

BELIMO	Technical data sheet	SR230P
Simple direct mounting	g 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 Manual override with push-button possible (the gear train is disengaged for as long as button is pressed or remains locked). The housing cover must be removed for manual override.	
Adjustable angle of rotation	Adjustable angle of rotation with mechanical end stops. Standard setting 090°. The housing cover must be removed to set the angle of rotation.	
High functional reliability	High functional reliability The actuator is overload protected, requires no limit switches and automatically stops v end stop is reached.	

Accessories

Electrical accessories	Description	Туре
	Auxiliary switch 2 x SPDT add-on, grey	S2A GR
	Feedback potentiometer 140 Ω add-on	P140A
	Feedback potentiometer 200 Ω add-on	P200A
	Feedback potentiometer 500 Ω add-on	P500A
	Feedback potentiometer 1 k Ω add-on	P1000A
	Feedback potentiometer 2.8 kΩ add-on	P2800A
	Feedback potentiometer 5 k Ω add-on	P5000A
	Feedback potentiometer 10 kΩ add-on	P10000A
Options ex works only	Description	Туре
	Heater, with adjustable thermostat	HT230
	Heater, with mechanical humidistat	HH230

Electrical installation



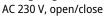
Caution: Power supply voltage!

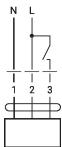
Parallel connection of other actuators possible. Observe the performance data. Direction of rotation switch is covered. Factory setting: Direction of rotation Y2.

Wire colours:

- 1 = blue 2 = brown
- 3 =white

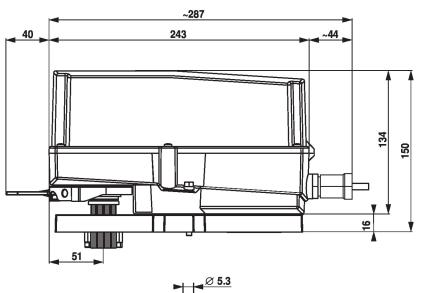
Wiring diagrams

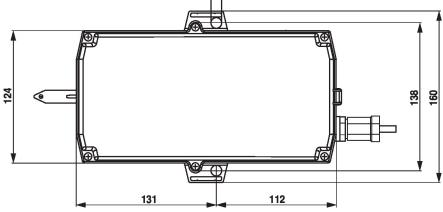




1	2	3	夏夏
~	~	_/L	A - AB = 0%
~	~	7	A - AB = 100%
~~	_/L	_/L	stop
~	_/L	7	A - AB = 100%







Further documentation

- 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