

Rotary actuator for butterfly valves

- Torque motor Max. 90 Nm
- Nominal voltage AC 100...240 V
- Control Open/close
- Running time motor 35 s
- Optimum weather protection for use outdoors





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	6 W	
	Power consumption in rest position	2 W	
	Power consumption for wire sizing	11 VA	
	Connection supply / control	Cable 1 m, 3 x 0.75 mm ² (halogen-free)	
	Parallel operation	Yes (note the performance data)	
		fes (note the performance data)	
Functional data	Torque motor	Max. 90 Nm (not constant)	
	Manual override	with push-button, can be locked	
	Running time motor	35 s / 90°	
	Sound power level, motor	35 dB(A)	
	Position indication	Yes	
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	
	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	
Mechanical data	Connection flange	F05	
Weight	Weight	4.8 kg	

BELIMO Safety notes

Technical data sheet

	 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. Caution: Power supply voltage! Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation. Junction boxes must at least correspond with enclosure IP degree of protection! The cover of the protective housing may be opened for adjustment and servicing. When it is closed afterwards, the housing must seal tight (see installation instructions). The switch for changing the direction of rotation may not be adjusted. The angle of rotation is not permitted to be subjected to mechanical limitation. It is forbidden to alter the mechanical end stops. 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 device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed. The actuator may not be used in plenary applications (e.g. suspended ceilings or raised floors). The materials used may be subject to external influences (temperature, pressure, construction fastening, effect of chemical substances, etc.), which cannot be simulated in laboratory tests or field trials. 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. Flexible metallic cable conduits or threaded cable conduits of equal value are to be used for UL (NEMA) Type 4X applications. 		
Product features	 Only authorised specialitis may carry out installation. All applicable legal or institutional installation regulations must be complied during installation. Junction boxes must at least correspond with enclosure IP degree of protection! The cover of the protective housing may be opened for adjustment and servicing. When it is closed afterwards, the housing must seal tight (see installation instructions). The switch for changing the direction of rotation may not be adjusted. The angle of rotation is not permitted to be subjected to mechanical limitation. It is forbidden to a liter the mechanical end stops. The device ontains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed. The device on this selectrical and electronic components and must not be disposed of as household refuse. All locally valid regulations (e.g. suspended cellings or raised floors). The actuator may not be used in plenary applications (e.g. suspended cellings or raised floors). The actuator may not be used in plenary applications (e.g. suspended cellings or raised floors). The materials used may be subject to external influences (gases, fluids) are present or for utilisation in corrosive environments in general. The actuator may not be used in plenary applications (e.g. suspended cellings or raised floors). The materials used may be subject to external influences (stemperature, pressure, construction fastening, effect of chemical subtances, etc.), which cannot be simulated in laboratory tests or field trials. 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. Electible metallic cable conduits is recommended. 		
Fields of application	against the following weather conditions: - UV radiation - Rain / Snow - Dirt / Dust - Air humidity - Alternating climate / frequent and severe temperature fluctuations (Recommendation: use the actuator with integrated factory-installed heating which can be ordered separately to prevent		
Simple direct mounting			
Manual override	button is pressed or remains locked).		
	The housing cover must be removed for manual override.		
High functional reliability	The actuator is overload protected, requires no limit switches and automatically stops when the end stop is reached.		

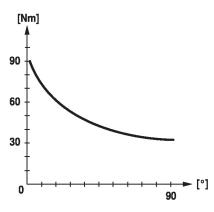


Technical data sheet

Torque not constant

Due to the non-linear torque characteristic the actuator can only be used for butterfly valves and not for other armatures.

DRC230G-5



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-MG
	Heater, with mechanical humidistat	HH230-MG

Electrical installation



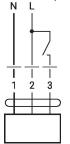
Caution: Power supply voltage!

Wire colours:

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

Wiring diagrams

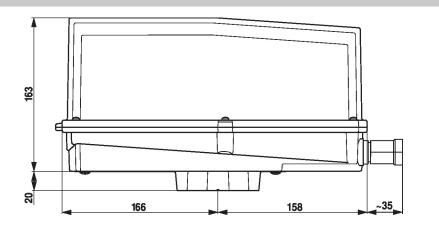
AC 230 V, open/close

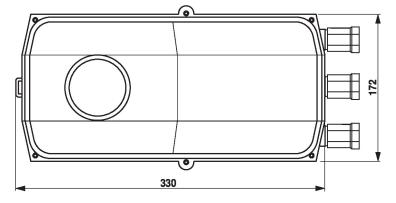


1	2	3	逐返
7	7	_/_	A - AB = 0%
7	7	7	A - AB = 100%









Further documentation

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