

Technical data sheet

Rotary actuator for butterfly valves

- Nominal torque Max. 90 Nm (not constant)
- Nominal voltage AC/DC 230 V
- Control Open-close
- Running time motor 150 s
- Optimum weather protection for use outdoors



Technical data

Electrical data	Nominal voltage	AC/DC 230 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 85265 V
	Power consumption in operation	5 W
	Connection supply / control	Terminals 4 mm ² (cable Ø 410 mm, 3-wire)
	Parallel operation	Yes (note the performance data)
Functional data	Nominal torque	Max. 90 Nm (not constant)
	Manual override	with push-button, can be locked
	Running time motor	150 s / 90°
	Sound power level, motor	45 dB(A)
	Position indication	Yes
Safety	Protection class IEC/EN	Il reinforced insulation
	Protection class UL	II reinforced insulation
	Degree of protection IEC/EN	IP66
	Degree of protection NEMA/UL	NEMA 4, UL Enclosure Type 4
	EMC	CE according to 2014/30/EU
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
	Certification UL	cULus according to UL60730-1A, UL60730-2- 14 and CAN/CSA E60730-1:02
	Mode of operation	Type 1
	Rated impulse voltage supply / control	2.5 kV
	Control pollution degree	4
	Ambient temperature	-3050 °C
	Ambient temperature note	-4050°C for actuator with integrated heating
	Non-operating temperature	-4080 °C
	Ambient humidity	100% r.H.
	Maintenance	Maintenance-free
Mechanical data	Connection flange	F05
Weight	Weight	5.5 kg

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.

- 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 in the manufacturer's factory. It does not contain any parts that can be replaced or repaired by the user.



	Turning time motor 150 S	
Safety notes		
	 The device contains electrical and electronic components and n of as household refuse. All locally valid regulations and requirer observed. The actuator is not designed for applications where chemical int fluids) are present or for utilisation in corrosive environments in The actuator may not be used in plenary applications (e.g. susp raised floors). The materials used may be subjected to external influences (ter construction fastening, effect of chemical substances, etc.), whis simulated in laboratory tests or field trials. In case of doubt, we do that you carry out a test. This information does not imply any leg Belimo will not be held liable and will provide no warranty. If cables which are not authorised for UL (NEMA) Type 4 applications (be used). When used under high UV loads, the use of flexible metallic or econduits is recommended. 	nents must be fluences (gases, general. ended ceilings or nperature, pressure ch cannot be definitely recommen gal entitlement. ations are used, the its of equal value a
Product features		
Fields of application	The actuator is particularly suitable for utilisation in outdoor applic protected against the following weather conditions: - UV radiation - rain / snow - Humidity - dirt / dust - Changing atmosphere / frequent and severe temperature fluctua (recommendation: use the actuator with integrated factory-installe be ordered separately to prevent internal condensation)	tions
Simple direct mounting	Simple direct mounting on the butterfly valve. The mounting orient the butterfly valve can be selected in 90° (angle) increments.	ation in relation to
Manual override	Manual override with push-button possible (the gear is disengaged button is pressed or remains locked). The housing cover must be removed for manual override.	d for as long as the
High functional reliability	The housing cover must be removed for manual override.	
Combination valve/actuator	For valves with the following mechanical specifications in accorda F05: - Square stem head SW = 14 mm for form-fit coupling of the rotary - Hole circle d = 50 mm	
Torque not constant	Due to the non linear torque characteristic the actuator can only b valves and not for other armatures.	e used for butterfly

► [°]

90

60

30

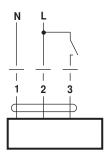
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	Description	Туре
Electrical accessories	Feedback potentiometer 140 Ohm, add-on	P140A
	Feedback potentiometer 200 Ohm, add-on	P200A
	Feedback potentiometer 500 Ohm, add-on	P500A
	Feedback potentiometer 1 kOhm, add-on	P1000A
	Feedback potentiometer 2.8 kOhm, add-on	P2800A
	Feedback potentiometer 5 kOhm, add-on	P5000A
	Feedback potentiometer 10 kOhm, add-on	P10000A
Electrical installation		
∧ Notes	Connection via safety isolating transformer.	

Wiring diagrams

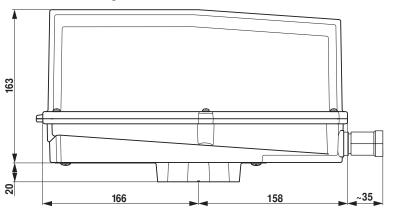
AC 230 V, open-close

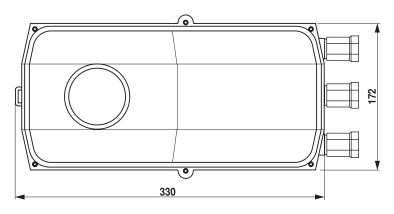


Cable colours: 1 = blue 2 = brown 3 = white

Dimensions [mm]

Dimensional drawings







Further documentation

- Overview Valve-actuator combinations
- Data sheets for butterfly valves
- · Installation instructions for actuators and/or butterfly valves
- General notes for project planning