

## **Technical data sheet**

RobustLine damper actuator for adjusting dampers in industrial plants and in technical building installations

- Air damper size up to approx. 2 m<sup>2</sup>
- Nominal torque 10 Nm
- Nominal voltage AC/DC 24 V
- Control Open-close, 3-point
- with integrated feedback
   potentiometer
- Optimum protection against corrosion and chemical influences, UV radiation, damp and condensation

# **Technical data**



Electrical data	Nominal voltage	AC/DC 24 V	
	Nominal voltage frequency	50/60 Hz	
	Nominal voltage range	AC 19.228.8 V / DC 19.228.8 V	
	Power consumption in operation	1.5 W	
	Power consumption in rest position	0.2 W	
	Power consumption for wire sizing	3.5 VA	
	Feedback potentiometer	5 kΩ ±5% 1 W	
	Connection supply / control	Cable 1 m, 3 x 0.75 mm <sup>2</sup> (halogen-free)	
	Connection feedback potentiometer	Cable 1 m, 3 x 0.75 mm <sup>2</sup> (halogen-free)	
	Parallel operation	Yes (note the performance data)	
Functional data	Torque motor	Min. 10 Nm	
	Direction of motion motor	selectable with switch 0 (ccw rotation) / 1 (cw rotation)	
	Manual override	with push-button, can be locked	
	Angle of rotation	Max. 95°	
	Angle of rotation note	can be limited on both sides with adjustable	
		mechanical end stops	
	Running time motor	150 s / 90°	
	Sound power level motor	35 dB(A)	
	Spindle driver	Universal spindle clamp 1020 mm	
	Position indication	Mechanically, pluggable	
Safety	Protection class IEC/EN	III Safety Extra-Low Voltage (SELV)	
	Degree of protection IEC/EN	IP66 + IP67	
	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 UL 60730-1A, UL 60730-2- 14 and CAN/CSA E60730-1:02	
	Mode of operation	Туре 1	
	Rated impulse voltage supply / control	0.8 kV	
	Control pollution degree	4	
	Ambient temperature	-3050°C	
	Non-operating temperature	-4080°C	
	Ambient humidity	100% r.h.	
	Maintenance	Maintenance-free	
Weight	Weight	2.1 kg	

#### Safety notes



- The device must not be used outside the specified field of application, especially not 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).



Safety notes	
	<ul> <li>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.</li> <li>The cables must not be removed from the device installed in the interior.</li> <li>To calculate the torque required, the specifications supplied by the damper manufacturers concerning the cross-section, the design, the installation site and the ventilation conditions must be observed.</li> <li>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.</li> <li>The information on chemical resistance refers to laboratory tests with raw materials and finished products and to trials in the field in the areas of application indicated.</li> <li>The materials used may be subjected to external influences (temperature, pressure, constructional fixture, effect of chemical substances, etc.), which cannot be simulated in laboratory tests or field trials.</li> <li>The 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 held in the special reference to explosion protection.</li> </ul>
Product features	
Fields of application	The actuator is particularly suitable for utilisation in outdoor applications and is protected against the following weather conditions: - Wood drying - Animal breeding - Food processing - Agricultural - Swimming baths / bathrooms - Rooftop ventilation plant rooms - General outdoor applications - Changing atmosphere - Laboratories
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
Simple direct mounting	Simple direct mounting on the damper spindle with an universal spindle clamp, supplied with an anti-rotation device to prevent the actuator from rotating.
Manual override	Manual override with push-button possible (the gear is disengaged for as long as the button is pressed or remains locked).
Adjustable angle of rotation	Adjustable angle of rotation with mechanical end stops. Standard setting 0 90°. The housing cover must be removed to set the angle of rotation.
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#### Damper actuator, IP66 + IP67, Open-close, 3-point, AC/ DC 24 V, 10 Nm



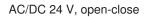
# **Electrical installation**

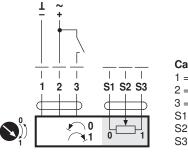


· Connection via safety isolating transformer.

· Parallel connection of other actuators possible. Observe the performance data.

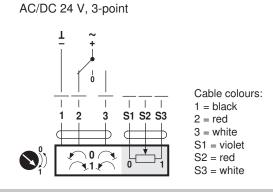
## Wiring diagrams







Notes



## **Dimensions** [mm]

### Spindle length

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!	2058

## **Clamping range**

	T T	1
1020	814	1020

