

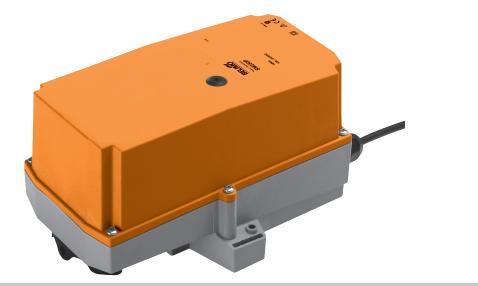
Technical data sheet

Robustline damper actuator for operating air dampers in industrial plants and in the technical building installations

- For air dampers up to approx. 1.6 m²
- Torque 8 Nm
- Nominal voltage AC 100 ... 240 V
- Control: Open-close or 3-point
- Auxiliary switch

Optimum protection against

- Corrosion and chemical influences
- UV radiation
- Damp and condensation
- Low temperatures (for use in ambient temperatures up to -40°C, there is a separate actuator available with built-in heater ex works)



Technical data

Nominal voltage range AC 85 265 V Power consumption Qeration 2.5 W @ nominal torque At rest 0.6 W Wire sizing 6 VA Auxiliary switch 1 x EPU, 1 mA 3 (0,5) A, AC 250 V Connection Motor Halogen-free cable 1 m, 3 x 0.75 mm ² Auxiliary switch Halogen-free cable 1 m, 3 x 0.75 mm ² Auxiliary switch Halogen-free cable 1 m, 3 x 0.75 mm ² Auxiliary switch Halogen-free cable 1 m, 3 x 0.75 mm ² Manual override Gearing latch disengaged with pushbutton, can be locked Angle of rotation Reversible with switch 0 ~ resp. 1 (~ Manual override Gearing latch disengaged with pushbutton, can be locked Angle of rotation Max. 35 dB (A) Position indication Mechanical, pluggable Safety Protection class II totally insulated 1 Degree of protection IP66 + IP67 EMC CE according to 2006/95/EC Mode of operation Typ 1.B (EN 60730-1) Ambient temperature -30 + 50° C Ambient temperature range -40 + 50° C	Electrical data	Nominal voltage	AC 100 240 V, 50/60 Hz	
At rest 0.6 W Wire sizing 6 VA Auxiliary switch 1 x EPU, 1 mA 3 (0,5) A, AC 250 V □ (adjustable 0 100%) Connection Motor Halogen-free cable 1 m, 3 x 0.75 mm² Auxiliary switch Halogen-free cable 1 m, 3 x 0.75 mm² Auxiliary switch Halogen-free cable 1 m, 3 x 0.75 mm² Functional data Torque (nominal torque) Min. 8 Nm @ nominal voltage Direction of rotation Reversible with switch 0 < resp. 1 Manual override Gearing latch disengaged with pushbutton, can be locked Angle of rotation Max. 95°-4, can be limited at both ends with adjustable mechanical end stops Running time 150 s / 90°-4 Sound power level Max. 35 dB (A) Position indication Mechanical, pluggable Protection class II totally insulated □ Degree of protection IP66 + IP67 EMC CE according to 2004/108/EC Low-voltage directive CE according to 2006/95/EC Mode of operation Typ 1.8 (EN 60730-1) Rated impulse voltage 2.5 kV (EN 60730-1) Control pollution degree 4 (EN 60730-1) Ambient temperature range		Nominal voltage range	AC 85 265 V	
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Ambient humidity 100% r.H. Maintenance Maintenance-free Dimensions / Weight Dimensions See «Dimensions» on page 3				
Maintenance Maintenance-free Dimensions / Weight Dimensions See «Dimensions» on page 3				
Dimensions / Weight Dimensions See «Dimensions» on page 3				
·		Maintenance	Maintenance-free	
Weight Approx. 1.3 kg	Dimensions / Weight	Dimensions	See «Dimensions» on page 3	
		Weight	Approx. 1.3 kg	

Safety notes



• The actuator is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.

- Caution: Power supply voltage !
- It may only be installed by suitably trained personnel.
- All applicable legal or institutional installation regulations must be complied with.
- 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 device on the inside may only be opened up in the factory. It does not contain any parts that can be replaced or repaired by the user.
- · The cable must not be removed from the device.

Robustline damper actuator, AC 100 \dots 240 V, 8 Nm, with auxiliary switch



Safety notes	(continued)			
	 When calculating the required torque, the specifications supplied by the damper manufactur ers (cross section, design, installation site), and the air flow conditions must be observed. 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. 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. The materials used may be subjected to external influences (temperature, pressure, constructional fixture, effect of chemical substances etc.), that cannot be simulated in laboratory test or field trials. The information regarding areas of application and resistance can therefore only serve as a guideline. In case of doubt, we recommend that you definitely 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 combustibil liquids such as solvents etc. must be taken into account with special reference to explosion protection. 			
Product features				
Fields of application	use up to -40°C) - Changing climate / frequent and	ely available actuator with I strong fluctuations in ter	built-in heater ex works is suitable for	
Resistances	Test	Test standard	Testing body	
	Noxious gas tests	EN 60068-2-60	Fraunhofer Institute ICT / DE	
	Salt fog spray test	EN 60068-2-52	Fraunhofer Institute ICT / DE	
	Salt fog spray test Ammoniac test	EN 60068-2-52 DIN 50916-2	Fraunhofer Institute ICT / DE Fraunhofer Institute ICT / DE	
	Salt fog spray test Ammoniac test Climatic test	EN 60068-2-52	Fraunhofer Institute ICT / DE Fraunhofer Institute ICT / DE Trikon Solutions AG / CH	
	Salt fog spray test Ammoniac test Climatic test Disinfectants (animals)	EN 60068-2-52 DIN 50916-2 IEC 60068-2-30	Fraunhofer Institute ICT / DE Fraunhofer Institute ICT / DE	
	Salt fog spray test Ammoniac test Climatic test	EN 60068-2-52 DIN 50916-2	Fraunhofer Institute ICT / DE Fraunhofer Institute ICT / DE Trikon Solutions AG / CH	
Used materials	Salt fog spray test Ammoniac test Climatic test Disinfectants (animals) UV test	EN 60068-2-52 DIN 50916-2 IEC 60068-2-30 EN 60068-2-5	Fraunhofer Institute ICT / DE Fraunhofer Institute ICT / DE Trikon Solutions AG / CH Trikon Solutions AG / CH	
	Salt fog spray test Ammoniac test Climatic test Disinfectants (animals) UV test (Solar radiation at ground level)	EN 60068-2-52 DIN 50916-2 IEC 60068-2-30 EN 60068-2-5 EN 60068-2-63	Fraunhofer Institute ICT / DE Fraunhofer Institute ICT / DE Trikon Solutions AG / CH Trikon Solutions AG / CH	
	Salt fog spray test Ammoniac test Climatic test Disinfectants (animals) UV test (Solar radiation at ground level) Actuator parts	EN 60068-2-52 DIN 50916-2 IEC 60068-2-30 EN 60068-2-5 EN 60068-2-63 Material	Fraunhofer Institute ICT / DE Fraunhofer Institute ICT / DE Trikon Solutions AG / CH Trikon Solutions AG / CH	
	Salt fog spray test Ammoniac test Climatic test Disinfectants (animals) UV test (Solar radiation at ground level) Actuator parts Actuator housing	EN 60068-2-52 DIN 50916-2 IEC 60068-2-30 EN 60068-2-5 EN 60068-2-63 Material Polypropylene (PP)	Fraunhofer Institute ICT / DE Fraunhofer Institute ICT / DE Trikon Solutions AG / CH Trikon Solutions AG / CH	
	Salt fog spray test Ammoniac test Climatic test Disinfectants (animals) UV test (Solar radiation at ground level) Actuator parts Actuator housing Cable glands / hollow shaft	EN 60068-2-52 DIN 50916-2 IEC 60068-2-30 EN 60068-2-5 EN 60068-2-63 Material Polypropylene (PP) Polyamide (PA)	Fraunhofer Institute ICT / DE Fraunhofer Institute ICT / DE Trikon Solutions AG / CH Trikon Solutions AG / CH	
	Salt fog spray test Ammoniac test Climatic test Disinfectants (animals) UV test (Solar radiation at ground level) Actuator parts Actuator housing Cable glands / hollow shaft Connection cable	EN 60068-2-52 DIN 50916-2 IEC 60068-2-30 EN 60068-2-5 EN 60068-2-63 Material Polypropylene (PP) Polyamide (PA) FRNC	Fraunhofer Institute ICT / DE Fraunhofer Institute ICT / DE Trikon Solutions AG / CH Trikon Solutions AG / CH	
	Salt fog spray test Ammoniac test Climatic test Disinfectants (animals) UV test (Solar radiation at ground level) Actuator parts Actuator housing Cable glands / hollow shaft Connection cable Clamp / screws in general	EN 60068-2-52 DIN 50916-2 IEC 60068-2-30 EN 60068-2-5 EN 60068-2-63 Material Polypropylene (PP) Polyamide (PA) FRNC Steel 1.4404	Fraunhofer Institute ICT / DE Fraunhofer Institute ICT / DE Trikon Solutions AG / CH Trikon Solutions AG / CH	
Used materials Simple direct mounting	Salt fog spray test Ammoniac test Climatic test Disinfectants (animals) UV test (Solar radiation at ground level) Actuator parts Actuator housing Cable glands / hollow shaft Connection cable Clamp / screws in general seals Form-fit insert Simple direct mounting on the dar anti-rotation strap to prevent	EN 60068-2-52 DIN 50916-2 IEC 60068-2-30 EN 60068-2-5 EN 60068-2-63 Material Polypropylene (PP) Polyamide (PA) FRNC Steel 1.4404 EPDM Anodised aluminium mper spindle with a unive	Fraunhofer Institute ICT / DE Fraunhofer Institute ICT / DE Trikon Solutions AG / CH Trikon Solutions AG / CH Quinel / Zug CH	
Used materials	Salt fog spray test Ammoniac test Climatic test Disinfectants (animals) UV test (Solar radiation at ground level) Actuator parts Actuator housing Cable glands / hollow shaft Connection cable Clamp / screws in general seals Form-fit insert Simple direct mounting on the dar anti-rotation strap to prevent	EN 60068-2-52 DIN 50916-2 IEC 60068-2-30 EN 60068-2-5 EN 60068-2-63 Material Polypropylene (PP) Polyamide (PA) FRNC Steel 1.4404 EPDM Anodised aluminium mper spindle with a unive	Fraunhofer Institute ICT / DE Fraunhofer Institute ICT / DE Trikon Solutions AG / CH Trikon Solutions AG / CH Quinel / Zug CH	
Used materials Simple direct mounting	Salt fog spray test Ammoniac test Climatic test Disinfectants (animals) UV test (Solar radiation at ground level) Actuator parts Actuator housing Cable glands / hollow shaft Connection cable Clamp / screws in general seals Form-fit insert Simple direct mounting on the data anti-rotation strap to prevent Manual override with pushbutton	EN 60068-2-52 DIN 50916-2 IEC 60068-2-30 EN 60068-2-5 EN 60068-2-63 Material Polypropylene (PP) Polyamide (PA) FRNC Steel 1.4404 EPDM Anodised aluminium mper spindle with a unive possible (the gear is disen	Fraunhofer Institute ICT / DE Fraunhofer Institute ICT / DE Trikon Solutions AG / CH Trikon Solutions AG / CH Quinel / Zug CH rsal spindle clamp, supplied with an ngaged for as long as the button is andard setting 0 90°⊲.	
Used materials Simple direct mounting Manual override	Salt fog spray test Ammoniac test Climatic test Disinfectants (animals) UV test (Solar radiation at ground level) Actuator parts Actuator housing Cable glands / hollow shaft Connection cable Clamp / screws in general seals Form-fit insert Simple direct mounting on the dar anti-rotation strap to prevent Manual override with pushbutton pressed or remains locked). Adjustable angle of rotation with m The housing cover must be removed	EN 60068-2-52 DIN 50916-2 IEC 60068-2-30 EN 60068-2-5 EN 60068-2-63 Material Polypropylene (PP) Polyamide (PA) FRNC Steel 1.4404 EPDM Anodised aluminium mper spindle with a unive possible (the gear is disen nechanical end stops. Star	Fraunhofer Institute ICT / DE Fraunhofer Institute ICT / DE Trikon Solutions AG / CH Trikon Solutions AG / CH Quinel / Zug CH rsal spindle clamp, supplied with an ngaged for as long as the button is	

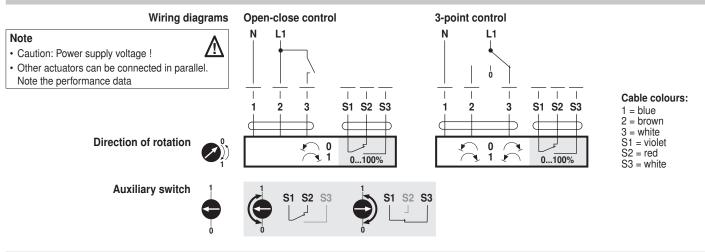
Robustline damper actuator, AC 100 ... 240 V, 8 Nm, with auxiliary switch



Accessories

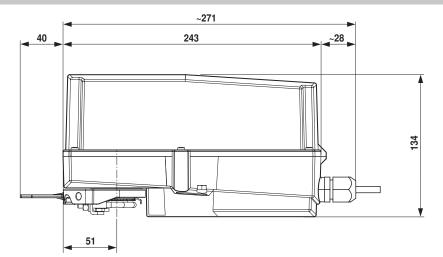
	Description	Data sheet
Electrical accessories	Heating 230 V with thermostat HT230 *	T2 - HT230
	Heating 230 V with humidistat HH230 *	T2 - HH230
Mechanical accessories	Various form-fit inserts	T2 - Z-NM
	* only available fitted in separate actuator	

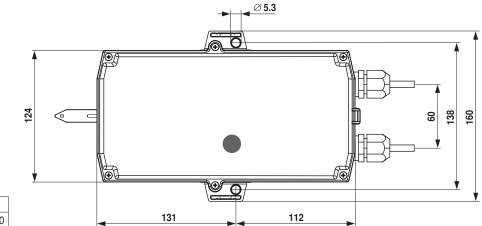
Electrical installation



Dimensions [mm]

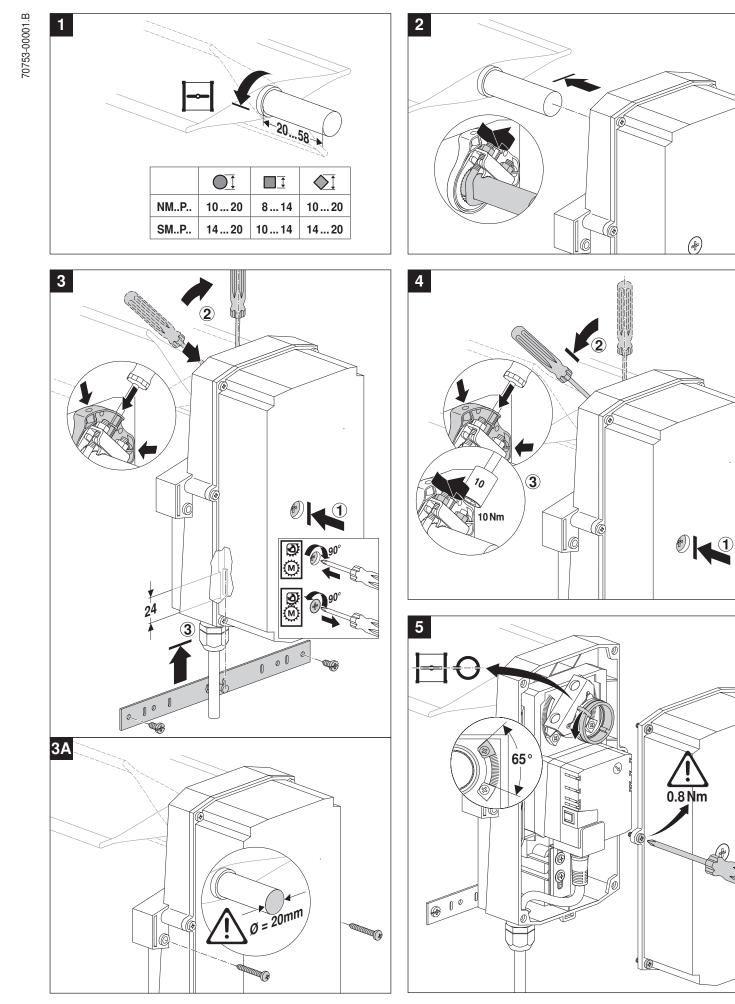
Dimensional drawings





Damper spindle	Length	<u>0</u>]	Ī	<u>♦</u>]
	2058	820	814	1020





NM..P.. / SM..P..



