

### **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. 3.2 m<sup>2</sup>
- Torque 18 Nm
- Nominal voltage AC 100 ... 240 V
- Control: Open-close or 3-point
- **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 Power consumption Opera At res	AC 85 265 V 2.5 W @ nominal torque
F		2.5 W @ nominal torque
	At res	
	71(100	0.6 W
-	For wi	ng 6 VA
(	Connection	Halogen-free cable 1 m, 3 x 0.75 mm <sup>2</sup>
Functional data	Torque (nominal torque)	Min. 18 Nm @ nominal voltage
[	Direction of rotation	Reversible with switch 0 🖉 resp. 1 🔿
1	Manual override	Gearing latch disengaged with pushbutton, can be locked
1	Angle of rotation	Max. 95°⊄, can be limited at both ends with adjustable mechanical end stops
F	Running time	150 s / 90°∢
ç	Sound power level	Max. 45 dB (A)
ł	Position indication	Mechanical, pluggable
Safety	Protection class	II totally insulated
[	Degree of protection	IP66 + IP67
ł	EMC	CE according to 2004/108/EC
<u> </u>	Low-voltage directive	CE according to 2006/95/EC
1	Mode of operation	Type 1 (EN 60730-1)
I	Rated impulse voltage	2.5 kV (EN 60730-1)
(	Control pollution degree	4 (EN 60730-1)
1	Ambient temperature	−30 +50°C
-		(actuator with built-in heater –40 +50°C)
	Non-operating temperature	-40 +80°C
1	Ambient humidity	100% r.H.
1	Maintenance	Maintenance-free
Dimensions / Weight	Dimensions	See «Dimensions» on page 3
Ţ	Weight	Approx. 1.55 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.
- When calculating the required torque, the specifications supplied by the damper manufacturers (cross section, design, installation site), and the air flow conditions must be observed.



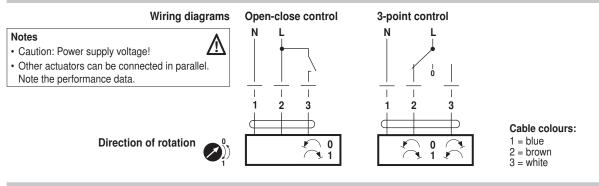
Safety notes	(continued)			
	<ul> <li>The device contains electrical and electronic components and is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.</li> <li>The information on chemical resistance refers to laboratory tests with raw materials and finished products and to trials in the field in the areas of application indicated.</li> </ul>			
	<ul> <li>The materials used may be sub constructional fixture, effect of laboratory test or field trials.</li> </ul>	jected to external influen	ces (temperature, pressure,	
	The information regarding areas as a guideline. In case of doubt information does not imply any provide no warranty. The chemi alone sufficient for judging the	, we recommend that you legal entitlement. Belimo cal or mechanical resista suitability of a product. F	definitely carry out a test. This	
Product features				
Fields of application	The actuator is particularly suited – Wood drying – Animal breeding – Food processing – Agricultural – Swimming baths / Bathrooms – Rooftop units – General outdoor applications – Low temperatures (the separate use up to -40 °C) – Changing climate / frequent and	ly available actuator with	built-in heater ex works is suitable for	
	prevent internal condensation, u works)	ise the separately availab	e actuator with built-in heater ex	
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	
	Ammoniac test	DIN 50916-2	Fraunhofer Institute ICT / DE	
	Climatic test	IEC 60068-2-30	Trikon Solutions AG / CH Trikon Solutions AG / CH	
	Disinfectants (animals)	EN 60068-2-5	THKOT SOLUTIONS AG / CH	
	(Solar radiation at ground level)	EN 60068-2-63	Quinel / Zug CH	
Used materials	Actuator parts	Material		
	Actuator housing	Polypropylene (PP)		
	V			
	Cable glands / hollow shaft Connection cable	Polyamide (PA) FRNC		
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	Cable glands / hollow shaft Connection cable Clamp / screws in general Seals	Polyamide (PA) FRNC Steel 1.4404 EPDM		
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Simple direct mounting	Cable glands / hollow shaft Connection cable Clamp / screws in general Seals Form-fit insert	Polyamide (PA) FRNC Steel 1.4404 EPDM Anodised aluminium	rsal spindle clamp, supplied with an	
Simple direct mounting Manual override	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	Polyamide (PA) FRNC Steel 1.4404 EPDM Anodised aluminium nper spindle with a unive	rsal spindle clamp, supplied with an ngaged for as long as the button is	
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## Accessories

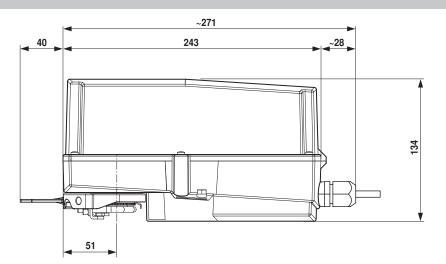
	Description	Data sheet
Electrical accessories	Auxiliary switch SA	T2 - SA
	Feedback potentiometer P.A.	T2 - PA
	Heating 230 V with thermostat HT230 *	T2 - HT230
	Heating 230 V with humidistat HH230 *	T2 - HH230
Mechanical accessories	Various form-fit inserts	T2 - Z-SM
	* only available fitted in separate actuator	

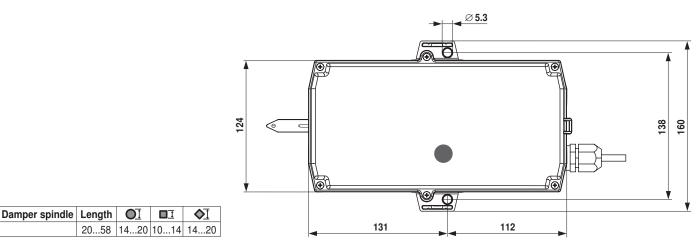
### **Electrical installation**



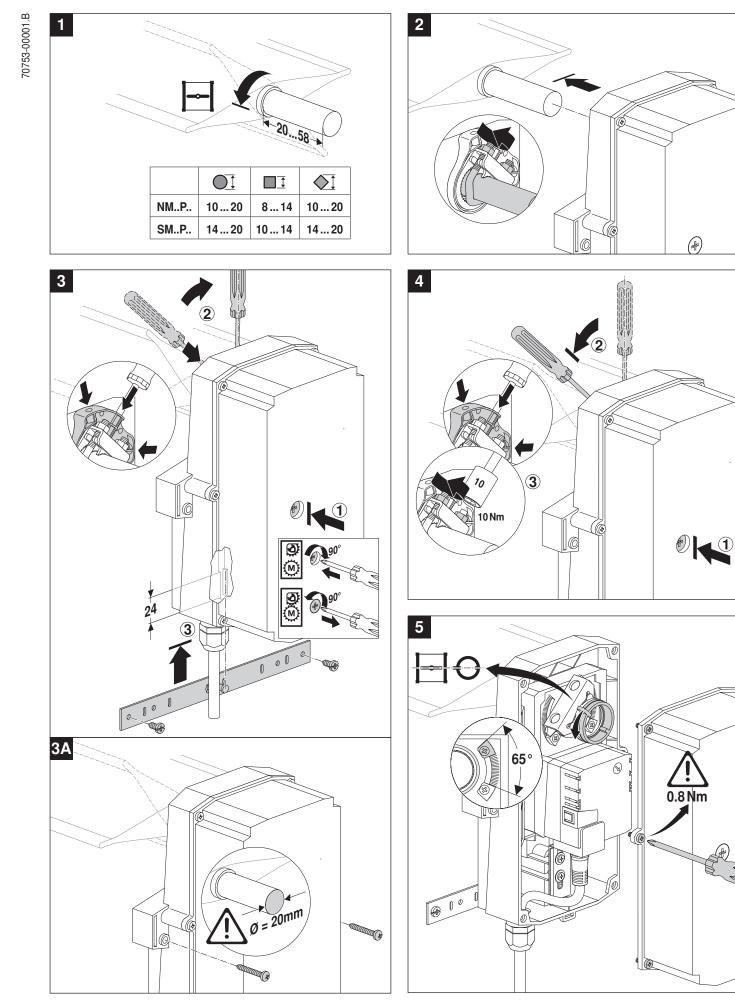
### **Dimensions** [mm]

**Dimensional drawings** 









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



