

Damper actuator for adjusting air dampers in ventilation and air-conditioning systems for building services installations

- For air dampers up to approx. 3.2 m²
- Torque 16 Nm
- Nominal voltage AC 100 ... 240 V
- Control: Open-close or 3-point
- Running time 20 s



Technical data

Electrical data	Nominal voltage	AC 100 ... 240 V, 50/60 Hz
	Nominal voltage range	AC 85 ... 265 V
	Power consumption In operation	4.5 W @ nominal torque
	At rest	1 W
Functional data	For wire sizing	8 VA
	Connection	Cable 1 m, 3 x 0.75 mm ²
	Torque (nominal torque)	Min. 16 Nm @ nominal voltage
	Direction of rotation	Reversible with switch 0 ↺ resp. 1 ↻
Safety	Manual override	Gearing latch disengaged with pushbutton, can be locked
	Angle of rotation	Max. 95° ↺ can be limited at both ends with adjustable mechanical end stops
	Running time	20 s / 90° ↺
	Sound power level	Max. 55 dB (A)
Dimensions / Weight	Position indication	Mechanical, pluggable
	Protection class	II Totally insulated □
	Degree of protection	IP54
	EMC	CE according to 2004/108/EC
Low voltage directive	CE according to 2006/95/EC	
	Certification	Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14 cULus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02
	Mode of operation	Type 1
	Rated impulse voltage	4 kV
Maintenance	Control pollution degree	3
	Ambient temperature range	-30 ... +50°C
	Non-operating temperature	-40 ... +80°C
	Ambient humidity range	95% r.h., non-condensating
Dimensions / Weight	Maintenance	Maintenance-free
	Dimensions	See «Dimensions» on page 2
Dimensions / Weight	Weight	Approx. 1 kg

Safety notes



- The actuator is not allowed to be used outside the specified field of application, especially in aircraft or any other form of air transport.
- Caution: Power supply voltage!
- It may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during installation.
- 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 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.
- 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.

Product features

Simple direct mounting	Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap 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.
High functional reliability	The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

Accessories

	Description	Data sheet
Electrical accessories	Auxiliary switch S..A..	T2 - S..A..
	Feedback potentiometer P..A..	T2 - P..A..
Mechanical accessories	Various accessories	T2 - Z-SMD230A

Electrical installation

Wiring diagrams

Notes

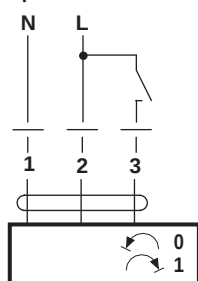
- Caution: Power supply voltage!
- Other actuators can be connected in parallel. Please note the performance data.



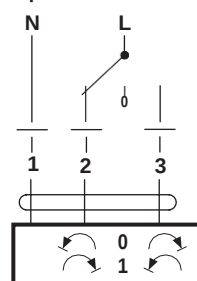
Direction of rotation



Open-close control



3-point control

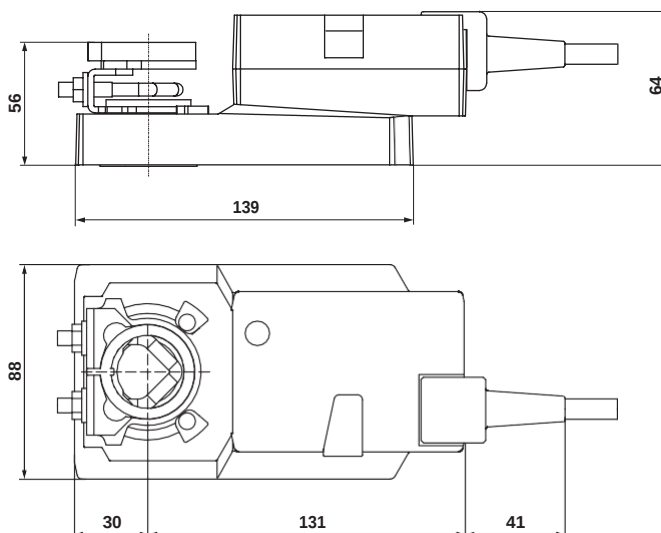


Cable colours:

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

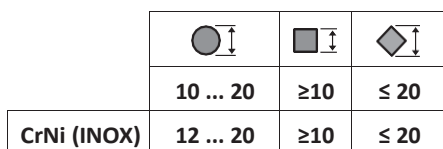
Dimensions [mm]

Dimensional drawings



Damper spindle	Length			
	≥48	10 ... 20 ¹⁾	≥10	≤20
	≥20	10 ... 20 ¹⁾	≥10	≤20

¹⁾ CrNi (INOX) 12 ... 20



CrNi (INOX)

10 ... 20

≥10

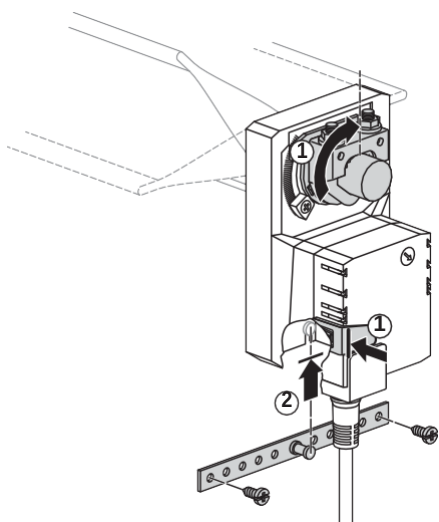
 ≤ 20

12 20

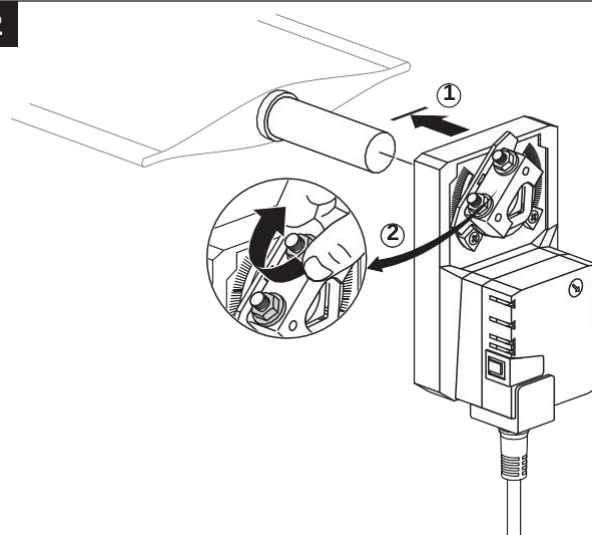
>10

 ≤ 20

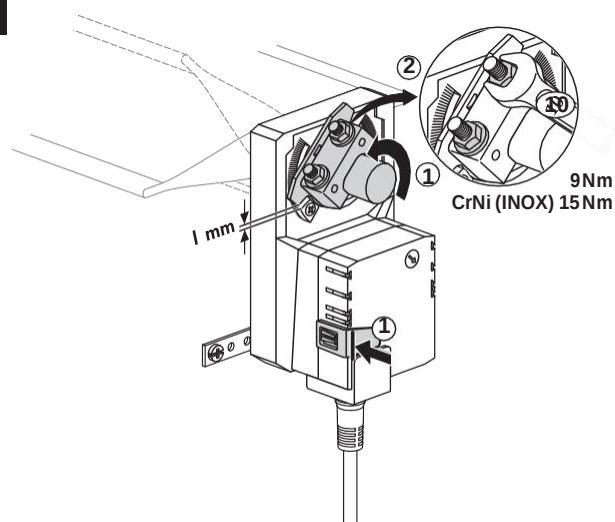
3



2

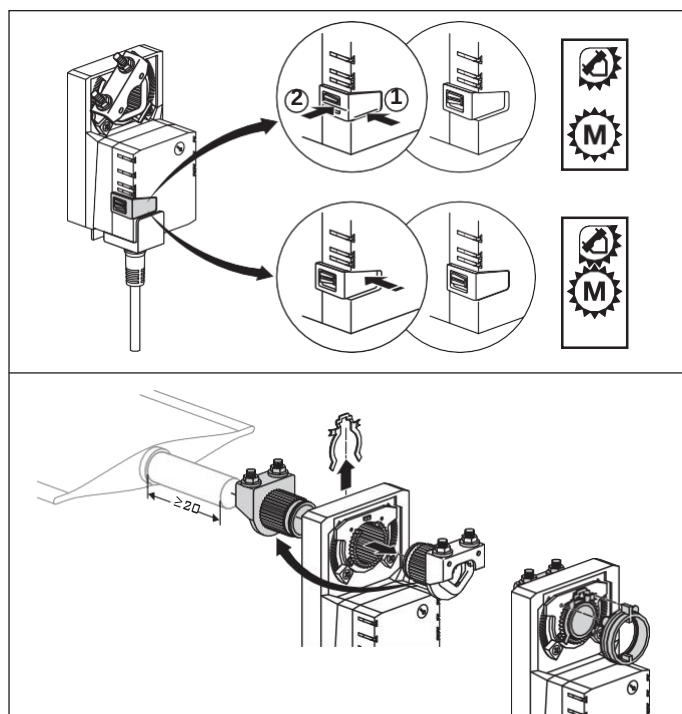
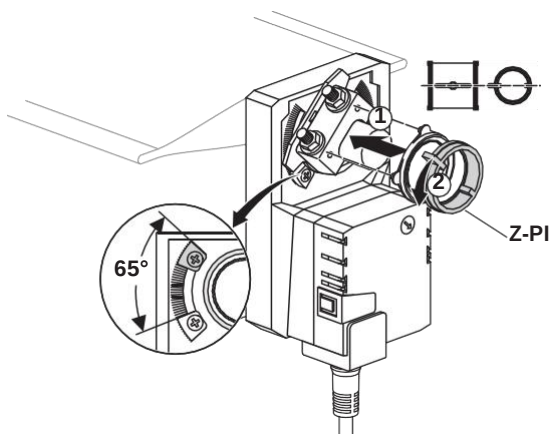


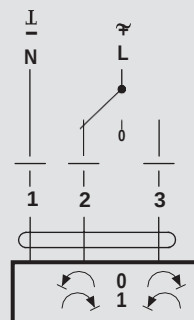
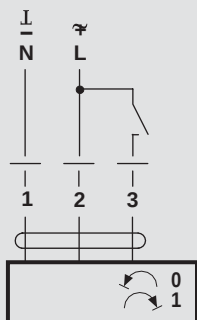
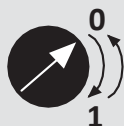
4



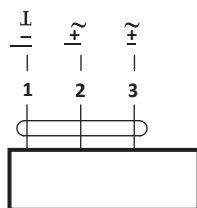
9Nm
CrNi (INOX) 15Nm

5

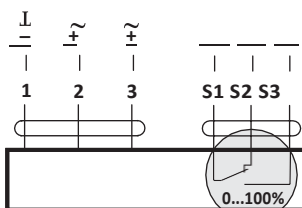




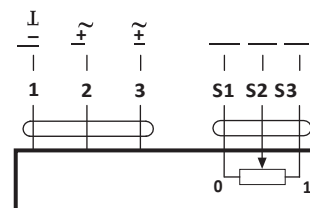
AC 24 V / DC 24 V



SM24A..

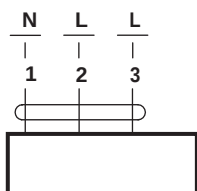
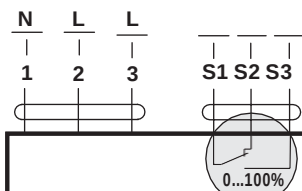


SM24A-S..

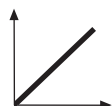
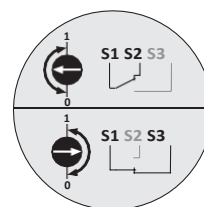


SM24AP5..

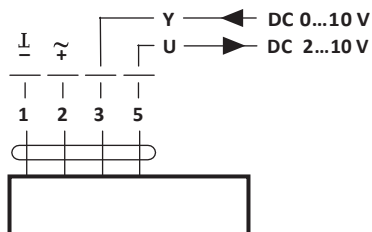
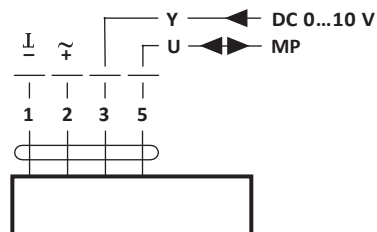
AC 100 ... 240 V

SM230A..
SMD230A..

SM230A-S..

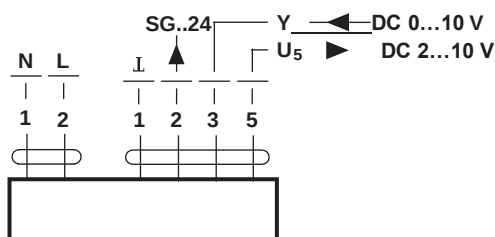


AC 24 V / DC 24 V

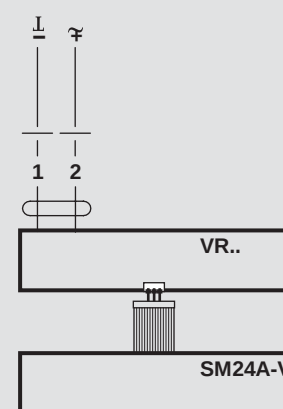
SM24A-SR..
SM24A-MF..

SM24A-MP..

AC 100 ... 240 V



SM230ASR..

AC 24 V / DC 24 V
(SM24A-V / VR..)

SM24A-V / VR..