

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

- For air dampers up to approx. 0.4 m<sup>2</sup>
- Torque 2 Nm
- Nominal voltage AC 100 ... 240 V
- Control: Open-close or 3-point



## Type overview

Type	Direction of rotation
CM230-L	counter-clockwise (ccw)
CM230-R	clockwise (cw)

## Technical data

<b>Electrical data</b>	Nominal voltage	AC 100 ... 240 V, 50/60 Hz
	Nominal voltage range	AC 85 ... 265 V
	Power consumption	In operation 1.5 W @ nominal torque At rest 1 W For wire sizing 3 VA
	Connection	Cable 1 m, 3 x 0.75 mm <sup>2</sup>
<b>Functional data</b>	Torque (nominal torque)	Min. 2 Nm @ nominal voltage
	Direction of rotation	See «Type overview»
	Manual override	Gear disengagement with magnet
	Angle of rotation	Without limit Endless With limit Fixed 315°↔ or 0 ... 287.5°↔ with mechanical end stops, can be adjusted in 2.5°↔ increments
	Running time	75 s / 90°↔
	Sound power level	Max. 35 dB (A)
	Position indicator	Mechanical, pluggable (with integrated magnet for gear disengagement)
<b>Safety</b>	Protection class	II totally insulated <input type="checkbox"/>
	Degree of protection	IP54 in any mounting position NEMA2, UL Enclosure Type 2
	EMC	CE according to 2004/108/EC
	Low voltage directive	CE according to 2006/95/EC
	Certification	cULus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02 Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14
	Mode of operation	Type 1 (EN 60730-1)
	Rated impulse voltage	2.5 kV (EN 60730-1)
	Control pollution degree	3 (EN 60730-1)
	Ambient temperature	-30 ... +50 °C
	Non-operating temperature	-40 ... +80 °C
Ambient humidity	95% r.H., non-condensating (EN 60730-1)	
Maintenance	Maintenance-free	
<b>Dimensions / Weight</b>	Dimensions	See «Dimensions» on page 2
	Weight	Approx. 220 g

## 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 !
- Assembly must be carried out by trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- 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.

**Safety notes**

(Continue)

- 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 ( $\varnothing$  6 ... 12.7 mm). The actuator is then secured with the anti-rotation strap supplied, to prevent it from rotating.
- Manual override** Manual override with magnet possible (the gear is disengaged as long as the magnet adheres to the symbol ⊕). The magnet for gear disengagement is integrated in the position indicator.
- 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.

**Electrical installation**

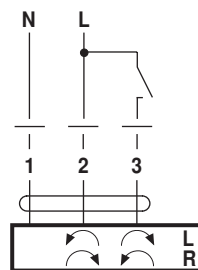
**Wiring diagrams**

**Notes**

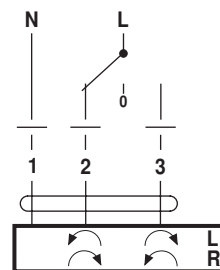
- Caution: Power supply voltage !
- Other actuators can be connected in parallel. Please note the performance data.



**Open-close control**

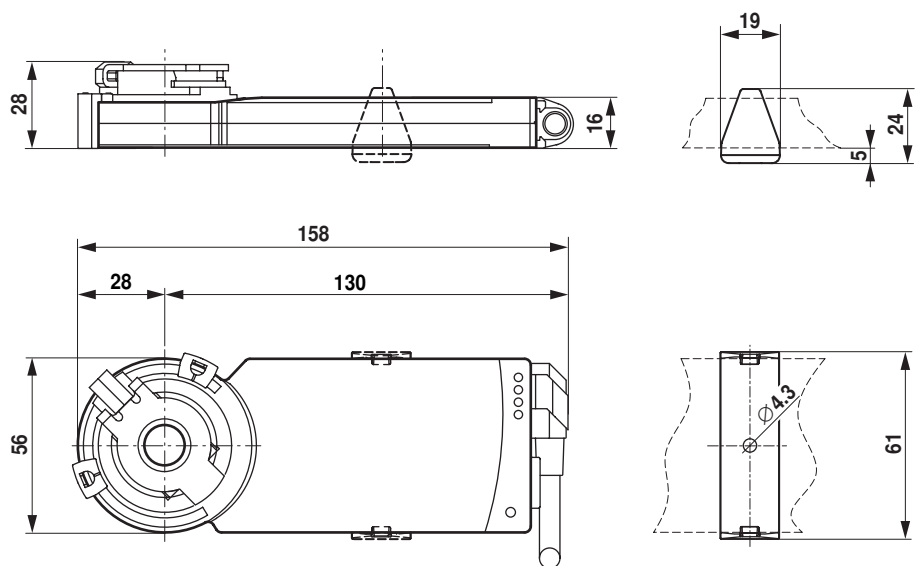



**3-point control**



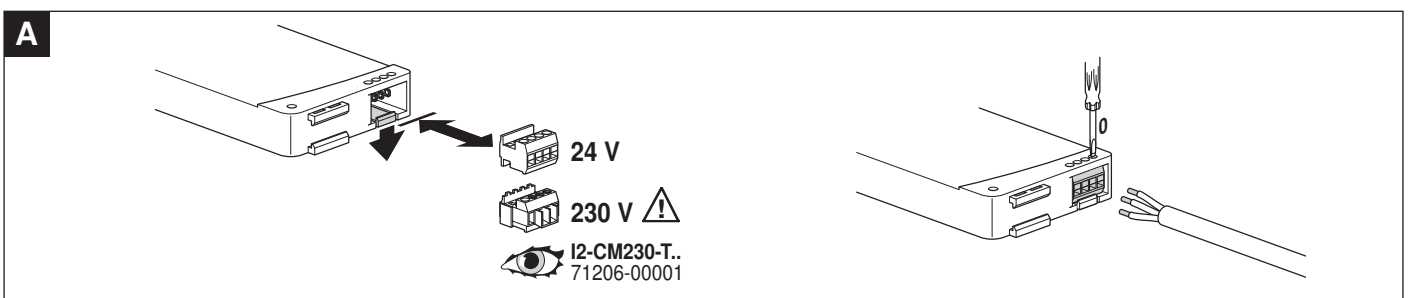
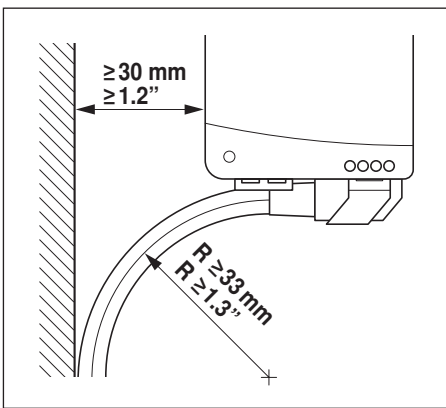
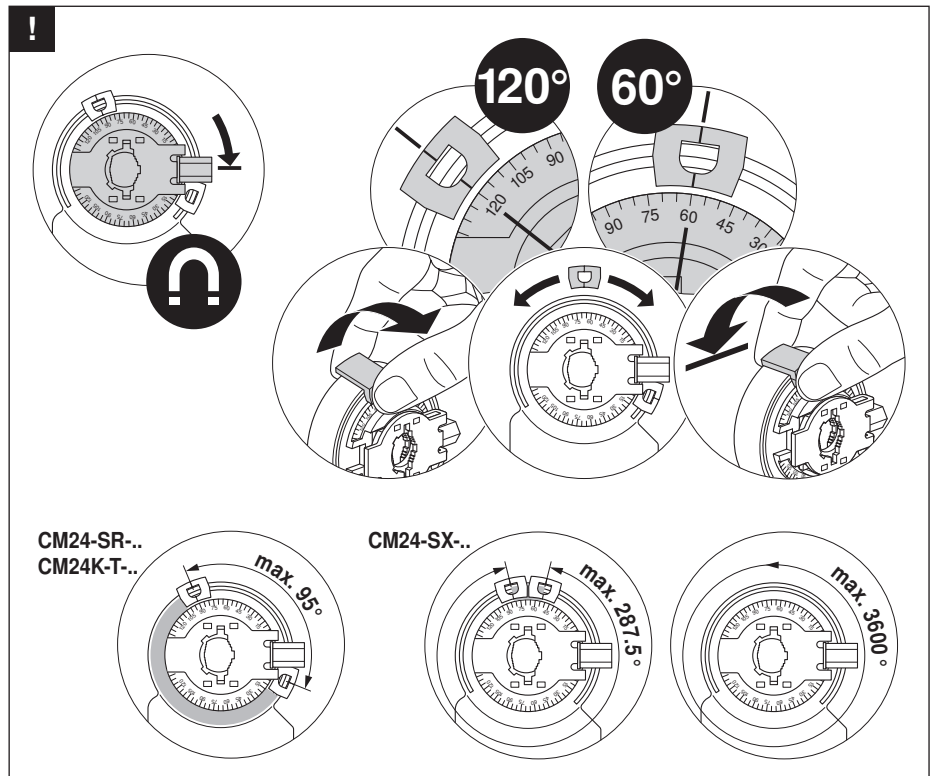
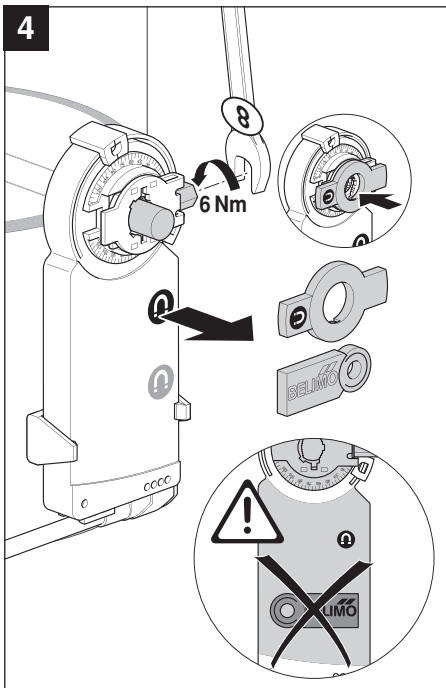
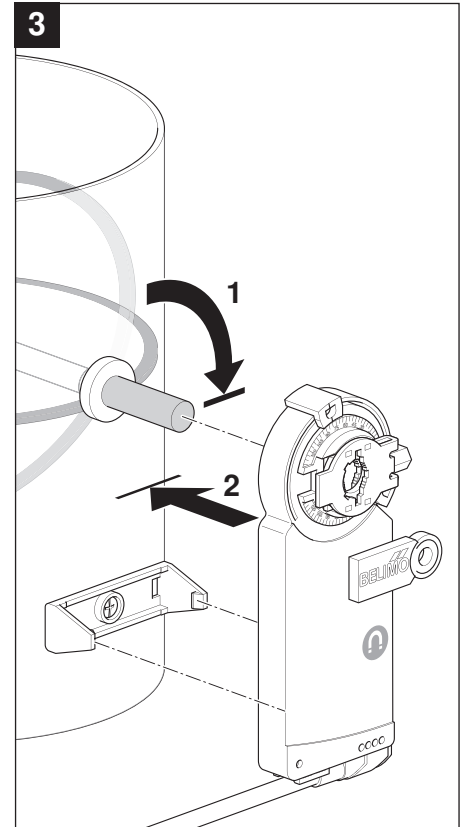
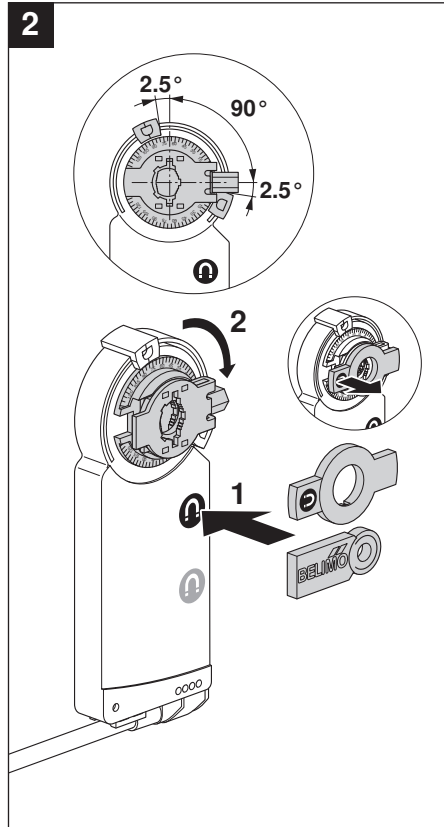
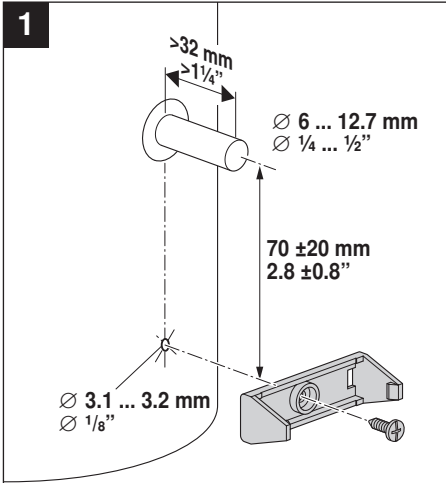
**Dimensions [mm]**

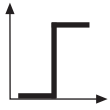
**Dimensional drawings**



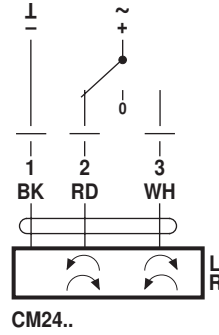
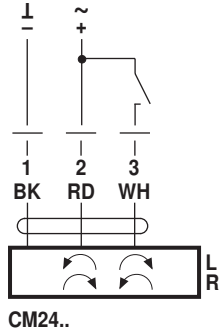
Damper spindle	Length	
	≥32	6 ... 12.7

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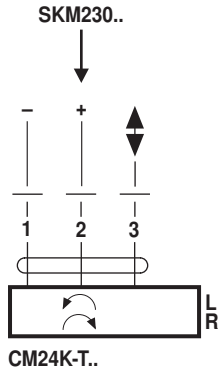




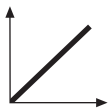
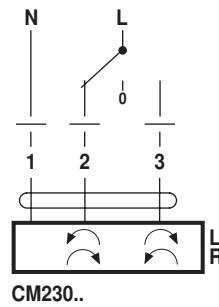
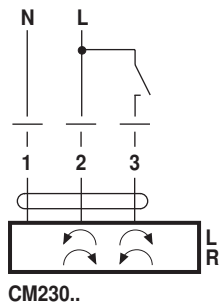
AC 24 V / DC 24 V



DC 24 V  
(SKM230..)



AC 100 ... 240 V ⚠



AC 24 V / DC 24 V

