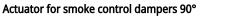


**Technical data sheet** 



- Torque motor 40 Nm
- Nominal voltage AC 230 V
- Control Open/close
- Mechanical interface Form fit 14x14 mm, continuous hollow shaft



## **Technical data**

Electrical data	Nominal voltage	AC 230 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 198264 V
	Switching thresholds min. ON voltage	AC 198 V
	Switching thresholds max. OFF voltage	AC 100 V
	Power consumption in operation	8 W
	Power consumption in rest position	0.5 W
	Power consumption for wire sizing	15 VA
	Power consumption for wire sizing note	Imax 7.9 A @ 5 ms
	Auxiliary switch	2 x SPDT
	Switching capacity auxiliary switch	1 mA6 A (3 A inductive), DC 5 VAC 250 V
	Switching points auxiliary switch	3° / 87°
	Tolerance	±2°
	Connection supply / control	Cable 1 m, 3 x 0.75 mm², halogen-free
	Connection auxiliary switch	Cable 1 m, 6 x 0.75 mm², halogen-free
Functional data	Torque motor	40 Nm
	Inhibiting torque dynamic	40 Nm
	Inhibiting torque static (voltage-free)	50 Nm
	Direction of motion motor	selectable by mounting L/R
	Manual override	with hand crank
	Angle of rotation	Max. 100°
	Angle of rotation note	Including 5° mechanical overrun at both sides
	Running time motor	<60 s / 90°
	Sound power level, motor	62 dB(A)
	Mechanical interface	Form fit 14x14 mm, continuous hollow shaft
	Position indication	Mechanically, with pointer
	Service life	Min. 10'000 cycles
Safety data	Protection class IEC/EN	II, reinforced insulation
	Protection class auxiliary switch IEC/EN	II, reinforced insulation
	Degree of protection IEC/EN	IP54
	EMC	CE according to 2014/30/EU
	Low voltage directive	CE according to 2014/35/EU
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
	Mode of operation	Туре 1.В
	Rated impulse voltage supply / control	4 kV
	Rated impulse voltage auxiliary switch	2.5 kV
	Pollution degree	3
	Ambient temperature	-3050°C
	Storage temperature	-4080°C



<u>BELIMO<sup>°</sup></u>	Technical data sheet	В	E230
Safety data	Ambient humidity	Max. 95% RH, non-condensing	
	Servicing	maintenance-free	
Weight	Weight	2.7 kg	
Safety notes			
Ĺ	<ul> <li>The device must not be used outside the specified field of application, especially not in aircraft or in any other airborne means of transport.</li> <li>Caution: Power supply voltage!</li> <li>The actuator is adapted to and installed on the smoke control damper by the damper manufacturer. For this reason, the actuator is only supplied direct to safety damper manufacturers. The manufacturer then bears full responsibility for the proper functioning of the damper.</li> <li>The two switches integrated in the actuator are to be operated either on power supply voltage or at safety extra-low voltage. The combination power supply voltage/safety extra-low voltage is not permitted.</li> <li>Because of the fact that very high torques are applied to the damper shaft, the use of St50 (as a minimum) is recommended.</li> <li>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.</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> </ul>		
Product features Mode of operation	2-wire open/close control. The at the end stops.	actuator is overload-proof and can thus remain energised	even
Manual override	The hand crank included in the shipment can be used for manual operation of the actuator.		
<b>Signalling</b> Two microswitches with fixed settings are installed in the acturend positions. It should be noted with this application however be used in the milliampere range after larger currents have b has taken place only once. The position of the damper blade can be read off on a mechanism.		ed with this application however that the contacts can no l nge after larger currents have been applied to them, even it	onger
Standards / Regulations	The design of the actuator is based on the specific requirements from the European standards • EN 12101-8: Smoke and heat control systems - Part 8: Smoke control dampers • EN 1366-10: Fire resistance tests for service installations - Part 10: Smoke control dampers • EN 13501-4: Fire classification of construction products and building elements - Part 4: Classification using data from fire resistance tests on components of smoke control systems		ers
Delivery notes	Incl. Hand crank, Pointer, Prot	ective bag	

Accessories

Mechanical accessories	Description	Туре
	Hand crank 40 mm	ZK1-B
	Hand crank 70 mm	ZK2-B
	Protective bag with wire, Multipack 100 pcs.	ZSD-B.1

## **Electrical installation**



Caution: Power supply voltage!

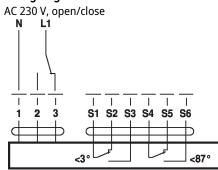
Parallel connection of other actuators possible. Observe the performance data and the switching thresholds.

Combination of power supply voltage and safety extra-low voltage not permitted at the both auxiliary switches.





## Wiring diagrams



## Dimensions

