

Technical data sheet

BLF230

ENCLOSAFE SOLUTIONS BY BELIMO

Spring-return actuator for fire and
smoke dampers 90° in ventilation and
air-conditioning systems

- air-conditioning systems
 Nominal torque 6 Nm / 4 Nm
 Nominal voltage AC 230 V
 Control open-close
 Damper rotation form fit 12 mm (10 mm with enclosed adapter)



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Electrical data	Nominal voltage	AC 230 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 198 V . 264 V
	Power consumption in operation	6 W
	Power consumption at rest	3 W
	Power consumption for wire sizing	7 VA
	Power consumption for wire sizing note	Imax 150 mA @ 10 ms
	Auxiliary switch	2 x SPDT
	Switching capacity auxiliary switch	Contact gold-plated silver: 1 mA 3 (0.5) A, DC 5 V AC 250 V (II Totally insulated)
	Switching points auxiliary switch	5° / 80°
	Connection supply	Cable 1 m, 2 x 0.75 mm ² (halogen-free)
	Connection auxiliary switch	Cable 1 m, 6 x 0.75 mm ² (halogen-free)
Functional data	Torque motor	Min. 6 Nm
i dilottoriai data	Torque spring-return	Min. 4 Nm
	Direction of rotation motor	Can be selected by mounting L / R
	Angle of rotation	Max. 95° (incl. 5° initial spring tension)
	Running time motor	40 75 s (0 6 Nm) / 90°
	Running time spring-return	~20 s @ –20 50°C / max. 60 s @ –30°C
	Sound power level motor max.	45 dB (A)
	Sound power level spring-return max.	63 dB (A)
	Damper rotation	Form fit 12 mm (10 mm with enclosed adapter)
	Position indication	Mechanically, with pointer
	Service life	Min. 60,000 safety positions
Safety	Protection class IEC/EN	II Totally insulated
	Degree of protection IEC/EN	IP54 in all mounting positions
	EMC	CE according to 2004/108/EC
	Low-voltage directive	CE according to 2006/95/EC
2 COGING	Certification IEC/EN	Certified according to IEC/EN 60730-1 and IEC/EN 60730-2-14
\sim	Mode of operation	Type 1.AA.B
	Rated impulse voltage supply / control	4 kV
	Control pollution degree	3
	Ambient temperature normal duty	-30°C 50°C
	Ambient temperature safety duty	The safety position will be attained up to max. 75°C when triggered by a thermal fuse
	Non-operating temperature	-40°C 80°C
	Ambient humidity	95% r.h., non-condensing
	Maintenance	Maintenance-free
Weight	Weight approx.	1.68 kg



Safety notes					
	 The actuator is not allowed to be used outside the specified field especially in aircraft or in any other airborne means of transport. Caution: Power supply voltage! The actuator is adapted and mounted to the fire and smoke damp manufacturer. For this reason, the actuator is only supplied direct manufacturers. The manufacturer then bears full responsibility for functioning of the damper. The device may only be opened at the manufacturer's site. It does parts that can be replaced or repaired by the user. The device contains electrical and electronic components and is disposed of as household refuse. All locally valid regulations and be observed. 	per by the damper t to safety damper or the proper es not contain any not allowed to be			
Product features					
Mode of operation Signalling	The actuator moves the damper to the operating position at the sate tensioning the return spring. The damper is turned back to the sate energy when the supply voltage is interrupted. Two microswitches with fixed settings are installed in the actuator f	ty position by spring			
Manual operation	damper end positions. The position of the damper blade can be read off on a mechanical position indicator.				
Accessories					
Electrical accessories Mechanical accessories	Description Auxiliary switch, 2 x SPDT, 6 A (2.5 A), AC 250 V Adapter with clamp for rotary axes up to 20 mm for BF and BLF Adapter with DM18 rotary axis, L = 33 mm for BF and BLF Adapter 12/8 mm for BF. and BLF Adapter 12/11 mm for BF and BLF Bracket for SN and SN2 auxiliary switches, For BLF actuators	Data sheet name SN2-C7 ZK-BF ZA18-BF ZA8-BF ZA8-BF ZA11-BF ZSN-BLF			
Electrical installation					
Notes	 Caution: Power supply voltage! Parallel connection of other actuators possible. Note the perfor 	mance data.			
Wiring diagrams AC 230 V, open-close N L1 - $ -$	Cable colours: 1 = blue 2 = brown S1 = white S2 = white S3 = white S4 = white S5 = white				



Dimensions [mm]

Dimensional drawings

