

Technical data sheet

BLF230

Spring-return actuator for fire and smoke dampers 90° in ventilation and 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)



Technical data

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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
	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
	Certification IEC/EN	Certified according to IEC/EN 60730-1 and IEC/EN 60730-2-14
	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
14/- 1		
Weight	Weight approx.	1.68 kg



Safety no	tes			
	Ŵ	 The actuator is not allowed to be used outside the specified fiel 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 dam manufacturer. For this reason, the actuator is only supplied dire manufacturers. The manufacturer then bears full responsibility functioning of the damper. The device may only be opened at the manufacturer's site. It do parts that can be replaced or repaired by the user. The device contains electrical and electronic components and i disposed of as household refuse. All locally valid regulations ar be observed. 	t. pper by the damper ct to safety damper for the proper pes not contain any s not allowed to be	
Product for	eatures			
	Mode of operation Signalling	tensioning the return spring. The damper is turned back to the safety position by spring energy when the supply voltage is interrupted.		
	Manual operation			
Accessor	ies	JAN		
	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 SN1 and SN2 auxiliary switches, For BLF actuators	Data sheet name SN2-C7 ZK-BF ZA18-BF ZA8-BF ZA11-BF ZSN-BLF	
Electrical	installation	561		
Ŵ	Notes	 Caution: Power supply voltage! Parallel connection of other actuators possible. Note the performance data. 		
Viring diagr	rams			
C 230 V, op	pen-close			
N L1		Cable colours: 1 = blue 2 = brown		
 1 2	── ── ── ── ── ── ── S1 S2 S3 S4 S5 S6	S1 = white S2 = white		

Ι L I S1 = white S1 S2 S3 S4 S5 S6 S2 = white ₽ S3 = white d ₽ S4 = white S5 = white <5°∢[⊥] <80°∢ S6 = white



Dimensions [mm]

Dimensional drawings

