

Technical data sheet

Spring-return actuator, combined with thermo-electric tripping device (72°C), for small fire and smoke dampers 90° in ventilation and air-conditioning systems.

- Torque 6/4 Nm
- Nominal voltage AC/DC 24 V
- Control: Open/close
- Damper rotation: 12 mm form-fit

Technical Data

Electrical data	Nominal voltage	AC 24 V, 50/60 Hz / DC 24 V
	Nominal voltage range	AC 19.2 28.8 V / DC 21.6 28.8 V
	Power consumption motoring	5 W @ nominal torque
	holding	2.5 W
	for wire sizing	7 VA / Imax. 5.8 A @ 5 ms
	Auxiliary switch	2 x 1 SPDT
	Contact rating (contacts gold plate on silver) Switching points	1 mA 3 A (0.5 A), DC 5 V AC 250 V □ 5°爻 / 80°爻
	Thermal trips	Tf1: duct outside temperature 72°C Tf2 + Tf3: duct inside temperature 72°C
	Connecting cable motor auxiliary switch	1 m, 2 x 0.75 mm ² (halogen-free) 1 m, 6 x 0.75 mm ² (halogen-free)
Functional data	Torque motor	Min. 6 Nm
	spring-return	Min. 4 Nm
	Direction of rotation	Selected by mounting L/R
	Angle of rotation	Max. 95°
	Running time motor	40 75 s (0 6 Nm)
	spring-return	~20 s @ –20 +50 °C / Max. 60 s @ –30 °C
	Sound power level motor	Max. 45 dB (A)
	spring-return	~62 dB (A)
	Damper rotation	Form-fit 12 mm
		(10 mm with adapter supplied)
	Position indication	Mechanical with pointer
	Service life	Min. 60'000 safe positions
Safety	Protection class	III Safety extra-low voltage
	Degree of protection	IP54 in all mounting positions
	EMC	CE according to 89/336/EEC, 92/31/EEC, 93/68/EEC
	Mode of operation	Type 1.AA.B (according to EN60730-1)
	Rated impulse voltage	0.8 kV (according to EN60730-1)
	Control pollution degree	3 (according to EN60730-1)
	Ambient temperature range normal duty	−30 +50°C
	safety duty	The safe position will be attained up to max. 75 °C
	Non-operating temperature	-40 +50°C
	Ambient humidity range	According to EN 60730-1
	Maintenance	Maintenance-free
Dimensions / weight	Dimensions	See «Dimensions» on page 3
	Weight	Approx. 1'630 g

Spring-return actuator 90 ° \triangleleft , AC/DC 24 V, 6/4 Nm, with thermo-electric tripping device



Safety notes		
	 The actuator is not allowed to be used outside the specified field or aircraft or in any other airborne means of transport. The actuator is adapted and mounted to the fire and smoke damper turer. For this reason, the actuator is only supplied direct to safety The manufacturer then bears full responsibility for the proper funct. The device may only be opened at the manufacturer's site. It does can be replaced or repaired by the user. The device contains electronic and electrical components and may the household waste. Observe local regulations and valid laws. 	r by the damper manufa damper manufacturers tioning of the damper. not contain any parts th
Product features		
Mode of operation	The actuator moves the damper to its normal working position while tensioning the return spring at the same time. If the power supply is interrupted, the energy stored in the spring moves the damper back to its safe position. Thermal trip Tf1 operates if the ambient temperature exceeds 72°C.	
BAE72B-S	Replaceable thermal trip Tf2/Tf3 operates if the temperature inside the duct exceeds 72°C.	
Note The function of the thermal trip and the test switch is only warranted if the actuator is connected to the power supply and has reached its operating position.	 Tf1, Tf2 or Tf3 trips cause the power supply to be interrupted permanently so that it cannot be uncancelled. The LED is lit when there is a supply voltage, the temperature fuses are OK and the test switch is not pressed. 	
Signalling	Two microswitches with fixed settings are installed in the actuator for indicating the damper en positions. The position of the damper blade can be read off on a mechanical position indicator.	
Manual operation	Without power supply, the damper can be operated manually and fixed in any required positio Release of the locking mechanism can be achieved manually or automatically by applying the supply voltage.	
Accessories		
	Description	Туре
Electrical accessories	Auxiliary switch, 1 x PDT 6 A (2.5 A), AC 250 V	SN1
	Auxiliary switch, 2 x PDT 6 A (2.5 A), AC 250 V	SN2
	Cable set with plug (L=0.5 m) for BF and BLF on BKN230-24	ZST-BS
	Blanking cover (without canal sensor function)	ZBAE0
	Spare thermoelectric tripping device Duct inside temperature 72°C	ZBAE72
	Spare thermoelectric tripping device Duct inside temperature 95°C, colour green	ZBAE95
Mechanical accessories	Adapter with clamp for rotary axes up to 20 mm for BF and BLF	ZK-BF
	Adapter with DM18 rotary axis, L = 33 mm, for BF and BLF	ZA18-BF
	Adapter 12/8 mm for BF. and BLF.	ZA8-BF
	Adapter 12/11 mm for BF and BLF	ZA11-BF
	Product for CN1 and CN2 auxiliary autitabas for PLE	ZONI DI E

ZSN-BLF

Bracket for SN1 and SN2 auxiliary switches for BLF.

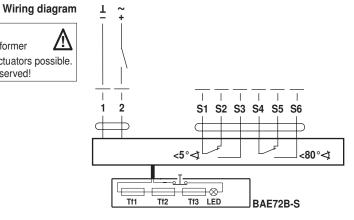
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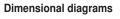
Electrical installation

Note

- Supply via safety isolation transformer
- Parallel connection of several actuators possible.
- Power consumption must be observed!



Dimensions [mm]



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