

Technical data sheet

BLF24-T

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

- Nominal torque 6 Nm / 4 Nm
- Nominal voltage AC/DC 24 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/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.2 V 28.8 V / DC 21.6 V 28.8 V
	Power consumption in operation	5 W
	Power consumption at rest	2.5 W
	Power consumption for wire sizing	7 VA
	Power consumption for wire sizing note	lmax 5.8 A @ 5 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)
	Cable length thermoelectric tripping device	1 m
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	Response temperature thermal fuse	Tf1: Duct outside temperature 72°C Tf2 and Tf3: Duct inside temperature 72°C
	Protection class IEC/EN	III Safety extra-low voltage
	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	0.8 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
	Non-operating temperature	-40°C 50°C
	Ambient humidity	95% r.h., non-condensing
	Maintenance	Maintenance-free
Weight	Weight approx.	1.6 kg
weight	weight applox.	1.0 NJ



Safety notes		
$\mathbf{\Lambda}$	 The actuator is not allowed to be used outside the specified field of especially in aircraft or in any other airborne means of transport. The actuator is adapted and mounted to the fire and smoke dampe manufacturer. For this reason, the actuator is only supplied direct t 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 n disposed of as household refuse. All locally valid regulations and r be observed. 	r by the damper o safety damper the proper not contain any ot allowed to be
Product features		
Mode of operation The actuator moves the damper to the operating position at the same time as tensioning the return spring. The damper is turned back to the safety position by spring energy when the supply voltage is interrupted. Thermoelectric tripping device If the ambient temperature of 72°C is exceeded, the thermal fuse Tf1 responds. If the duct inside temperature of 72°C is exceeded, the exchangeable thermal fuse Tf2/Tf3 will respond. When the thermal fuses Tf1, Tf2 or Tf3 respond, the supply voltage is interrupted permanently and irreversibly. The LED is lit when - there is a supply voltage, - the test switch is not pressed. The function of the thermal fuse and the test button is only warranted if the actuator is connected to the power supply and has reached its operating position (LED on). Signalling Two microswitches with fixed settings are installed in the actuator for indicating the damper end 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 position. It can be unlocked manually or automatically by applying the supply voltage.		
Accessories	OK,	
Electrical accessories	Description Auxiliary switch, 2 x SPDT, 6 A (2.5 A), AC 250 V Cable set with plug, L = 0.5 m for BF and BLF on communication and power supply units	Data sheet name SN2-C7 ZST-BS
Mechanical accessories	Blanking cover (has no duct sensor function) for BAE Spare thermoelectric tripping device for BAE, duct inside temperature $72 ^{\circ}$ C Spare thermoelectric tripping device for BAE, duct inside temperature $95 ^{\circ}$ C, colour green 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 SN2-C7 auxiliary switch for BF and BR	ZBAE0 ZBAE72 ZBAE95 ZK-BF ZA18-BF ZA8-BF ZA11-BF ZSN-BF

Spring-return actuator 90 $^{\circ},$ AC/DC 24 V, 6 Nm / 4 Nm, with BAE..

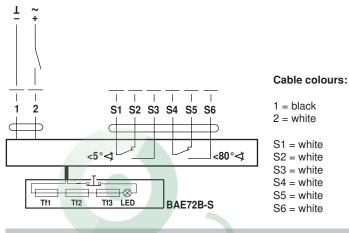


Electrical installation

Notes • Connection via safety isolating transformer. • Parallel connection of other actuators possible. Note the performance data.

Wiring diagrams

AC/DC 24, open-close



Dimensions [mm]

Dimensional drawings

