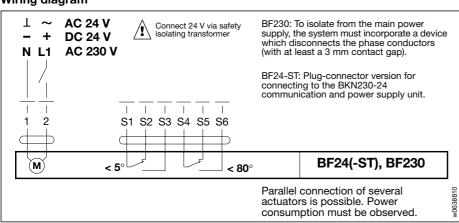
BF24(-ST), BF230 Spring-return actuators 90°





Wiring diagram



Technical data	BF24(-ST)	BF230
Nominal voltage	AC 24 V 50/60 Hz DC 24 V	AC 230 V 50/60 Hz -
Nominal voltage range	AC 19.228.8 V DC 21.628.8 V	AC 198264 V -
Power consumption		
– motoring	7 W	8 W
– holding	2 W	3 W
For wire sizing	10 VA (Imax 8.3 A @ 5 ms)) 12.5 VA (Imax 500 mA @ 5 ms)
Protection class	(ii)	II
Degree of protection	IP 54	
Auxiliary switch – Switching points	$2 \times$ SPDT 6(3)A, AC 250 V \square (contacts gold plate on silver) 5°, 80°	
Connecting cable	motorauxiliary switches(BF24-ST with plug connect	1 m, 2×0.75 mm ² (halogen-free) 1 m, 6×0.75 mm ² (halogen-free) tors, suitable for BKN230-24)
Angle of rotation	95° (incl. 5° spring pretensioning)	
Damper rotation	12 mm form-fit (10 mm with adapter supplied)	
Torque		in. 18 Nm in. 12 Nm
Running time		40 s 16 s (@ tamb = 20 °C)
Direction of rotation	selected by mounting L/R	
Position indication	mechanical with pointer	
Ambient temperature range - Normal duty - Safety duty Non-operating temperature Humidity test	-30+50 °C The safe position will be attained up to max. 75 °C when initiated by a thermal trip -40+80 °C to EN 60730-1	
EMC	CE according to 89/33	
	CE according to 73/23/EEC	
Low Voltage Directive	motor max. 45 dB(A); spring ≈ 62 dB(A)	
Low Voltage Directive Sound power level	motor max. 45 dB(A);	spring ≈ 62 dB(A)
Sound power level	motor max. 45 dB(A); min. 60 000 safe posit	
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Open/Close actuator (AC/DC 24 V and AC 230 V)

Application

The type BF... spring-return actuator is intended for the operation of fire and smoke dampers in ventilation and air-conditioning systems.

Mode of operation

The BF... 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.

Signalling

There are two fixed microswitches in the spring-return actuator BF... for indicating the end positions of the damper.

Intermediate positions of the damper blade are shown by a mechanical indicator.

Manual operation

Without power sup he damper can be operated manually and fixed in any required position. Release of the locking mechanism can be achieved manually or automatically by applying the supply voltage.

Connection is by means of flexible leads. The actuator BF24 is also available with plug connectors suitable for attachment to the Type BKN230-24 communication and power supply unit fitted to their connecting leads (ordering code: BF24-ST). This allows the actuator to be incorporated into the SBS-Control damper monitoring system.

Electrical accessories for BF24(-ST)

BAE72(-S) Thermoelectric Tripping Device (with test button), see pages 10/11.

Important

Read the note concerning installation and supply on page 2.

Dimensions

