

Technical data sheet

Actuator for smoke control dampers 90°

- Torque motor 40 Nm
- Nominal voltage AC 230 V
- Control Open/close
- Mechanical interface Form fit 12x12 mm, continuous hollow shaft



Technical data

Electrical data	Nominal voltage	AC 230 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 198264 V
	Switching thresholds min. ON voltage	AC 198 V
	Switching thresholds max. OFF voltage	AC 100 V
	Power consumption in operation	8 W
	Power consumption in rest position	0.5 W
	Power consumption for wire sizing	15 VA
	Power consumption for wire sizing note	Imax 7.9 A @ 5 ms
	Auxiliary switch	2 x SPDT
	Switching capacity auxiliary switch	1 mA6 A (3 A inductive), DC 5 VAC 250 V
	Switching points auxiliary switch	3° / 87°
	Tolerance	±2°
	Connection supply / control	Cable 1 m, 3 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	40 Nm
	Inhibiting torque dynamic	40 Nm
	Inhibiting torque static (voltage-free)	50 Nm
	Direction of motion motor	selectable by mounting L/R
	Manual override	with hand crank
	Angle of rotation	Max. 100°
	Angle of rotation note	Including 5° mechanical overrun at both sides
	Running time motor	<60 s / 90°
	Sound power level, motor	62 dB(A)
	Mechanical interface	Form fit 12x12 mm, continuous hollow shaft
	Position indication	Mechanically, with pointer
	Service life	Min. 10'000 cycles
Safety data	Protection class IEC/EN	II reinforced insulation
Salety data	Protection class auxiliary switch IEC/EN	II reinforced insulation
	Degree of protection IEC/EN	IP54
	EMC	CE according to 2014/30/EU
	Low voltage directive	CE according to 2014/35/EU
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
	Mode of operation	Туре 1.В
	Rated impulse voltage supply / control	4 kV
	Rated impulse voltage auxiliary switch	2.5 kV
	Control pollution degree	3
	Ambient temperature	-3050°C
	Storage temperature	-4080°C



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Weight

BE230-12

Ambient humidity	Max. 95% r.H., non-condensing
Servicing	maintenance-free
Weight	2.8 kg
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Safety notes

Ĺ	 The device must not be used outside the specified field of application, especially other airborne means of transport. Caution: Power supply voltage! The actuator is adapted to and installed on the smoke control damper by the dar this reason, the actuator is only supplied direct to safety damper manufacturers. bears full responsibility for the proper functioning of the damper. The two switches integrated in the actuator are to be operated either on power s safety extra-low voltage. The combination power supply voltage/safety extra-low permitted. Because of the fact that very high torques are applied to the damper shaft, the u minimum) is recommended. The device may only be opened at the manufacturer's site. It does not contain an replaced or repaired by the user. The device contains electrical and electronic components and must not be dispose refuse. All locally valid regulations and requirements must be observed. 	nper manufacturer. For The manufacturer ther supply voltage or at voltage is not se of St50 (as a ny parts that can be	
Product features			
Mode of operation	2-wire open/close control. The actuator is overload-proof and can thus remain energy stops.	ergised even at the end	
Signalling	Two microswitches with fixed settings are installed in the actuator for indicating the damper end positions. It should be noted with this application however that the contacts can no longer be used in the milliampere range after larger currents have been applied to them, even if this has taken place only once		
	The position of the damper blade can be read off on a mechanical position indicati	on.	
Manual operation	The hand crank included in the shipment can be used for manual operation of the actuator.		
Standards / Regulations	s The design of the actuator is based on the specific requirements from the European standards:		
	 EN 12101-8: Smoke and heat control systems - Part 8: Smoke control dampers EN 1366-10: Fire resistance tests for service installations - Part 10: Smoke control dampers 		
	• EN 13501-4: Fire classification of construction products and building elements - Part 4: Classification using data from fire resistance tests on components of smoke control systems		
Delivery notes	Incl. Hand crank, Pointer, Protective bag		
Accessories			
Electrical accessories	Description	Туре	
	Communication and power supply unit for smoke control dampers actuators 24 ${\tt V}$ with connector	BKNE230-24	
Mechanical accessories	Description	Туре	
	Hand crank 40 mm for BLF, BF, BLE, BE	ZK1-B	
	Hand crank 70 mm for BLF, BF, BLE, BE	ZK2-B	
	Protective bag with wire, 100 pcs.	ZSD-B.1	

Electrical installation



Caution: Power supply voltage!

Pointer 12x12 mm for BLF, BF, BLE

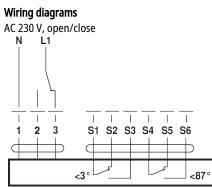
Parallel connection of other actuators possible. Observe the performance data and the switching thresholds.

Combination of power supply voltage and safety extra-low voltage not permitted at the both auxiliary switches.

ZZ12-B







Dimensions

Dimensional drawings

