

## **Technical data sheet**

Actuator for smoke control dampers 90°⊲.

- Torque 40 Nm
- Nominal voltage AC/DC 24 V
- Control: Open/close
- Damper rotation: BE24: 14 mm form-fit BE24-12: 12 mm form-fit



## **Technical Data**

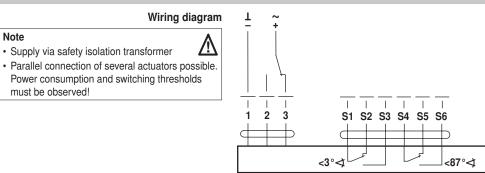
Electrical data	Electrical data Nominal voltage		AC 24 V, 50/60 Hz / DC 24 V
	Nominal voltage range		AC 19.2 28.8 V / DC 21.6 28.8 V
	Switching thresholds	min. ON voltage	AC 19.2 V / DC 21.6 V
		max. OFF voltage	AC 6.5 V / DC 6.5 V
	Power consumption	motoring	12 W @ nominal torque
		holding	0.5 W
		for wire sizing	18 VA / Imax. 8.2 A @ 5 ms
	Auxiliary switch	· · · · · · · · · · · · · · · · · · ·	
	Contact rating (contacts gold plate on silver) Switching points		1 mA 6 A, DC 5 V AC 250 V □ 3°爻 / 87°爻 (referred to 0 90°爻)
	Tolerance		±2
	Connecting cable mo	tor	1 m, 3 x 0.75 mm <sup>2</sup> (halogen-free)
	auxiliary switch		1 m, $6 \times 0.75$ mm <sup>2</sup> (halogen-free)
Functional data	Torque (nominal torqu	•	Min. 40 Nm @ nominal voltage
	Blocking torque dynamic		40 Nm
	Steady-state Direction of rotation Angle of rotation		50 Nm
			Selected by mounting L/R
			Max. 100°⊄ (incl. 5°⊄ mechanical overrun
			on each side)
	Running time       Sound power level       Damper rotation       BE24		<60 s for 90°⊄
			Max. 62 dB (A)
			Form-fit 14 mm
		24-12	Form-fit 12 mm
	Position indication		Mechanical with pointer
	Service life		At least 10'000 cycles
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.B (according to EN60730-1)
	Rated impulse voltage		0.8 kV (according to EN60730-1)
	Control pollution degre		3 (according to EN60730-1)
	Ambient temperature	•	-30 +50°C
		safety duty	See «Safety function» on page 2
	Non-operating temper		-40 +80 ° C
	Ambient humidity range		According to EN 60730-1
	Maintenance		Maintenance-free
Dimensions / weight	Dimensions		See «Dimensions» on page 3
	Weight		Approx. 2'700 g

Actuator for smoke control dampers 90° $\triangleleft,$  AC/DC 24 V, 40 Nm



Safety notes		
$\Lambda$	<ul> <li>The actuator is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.</li> <li>The actuator is adapted and mounted to the fire and smoke damper by the damper manufacturer. For this reason, the actuator is only supplied direct to safety damper manufacturers. The manufacturer then bears full responsibility for the proper functioning of the damper.</li> <li>Since very high values of torque are exerted on the damper spindle it is advisable to use steel of at least grade St50.</li> <li>The device may only be opened at the manufacturer's site. It does not contain any parts that can be replaced or repaired by the user.</li> <li>The device contains electronic and electrical components and may not be disposed of with the household waste. Observe local regulations and valid laws.</li> </ul>	
Product features		
Mode of operation	Open/Close control is effected by means of a 2-wire system. The actuator is overload-proof and therefore remain energized while stationary at the end-stops.	
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	The crank handle supplied with the actuator allows it to be operated manually. It also allows a functional test of the damper to be performed very easily.	
Standards and specifications	<ul> <li>The design of the actuator is based on the following standards and specifications:</li> <li>Draft DIN 18232, Part 6, Sept. 1992 <ul> <li>Fire protection in industrial buildings</li> <li>Smoke and heat extraction systems</li> </ul> </li> <li>Preliminary standard ÖNORM H 6029, May 1997 <ul> <li>Ventilation systems</li> <li>Fire smoke extraction systems</li> </ul> </li> <li>Extracts from: <ul> <li>CEN/TC191, 1996</li> <li>prEN12101-8 (Smoke and heat control systems – Specifications for smoke control dampers)</li> </ul> </li> </ul>	
Safety function	The safety function is guaranteed within the temperature range shown in the diagram below which is based on standard ÖNORM H 6029 and DIN 18232.	

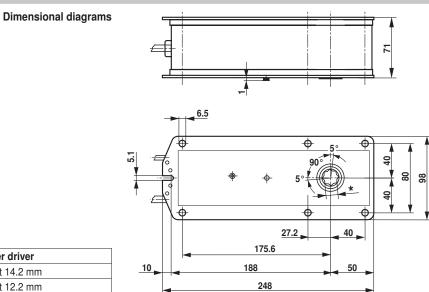
**Electrical installation** 



(protected by thermic isolating)



## Dimensions [mm]



*	Туре	Damper driver
	BE24	Form-fit 14.2 mm
	BE24-12	Form-fit 12.2 mm