



p0017805

Dampers up to approx. 3 m²

**Open/Close actuator
(AC/DC 24 V)**

**Manual operation with
integral position stop**

Versatile applications

The AF... spring return actuators are intended for the operation of air dampers that perform safety functions (e.g. frost and smoke protection, hygiene, etc.).

Improved functional safety

The AF ... 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.

The actuator is overload proof, needs no limit switches and halts automatically at the end stop.

Variable end switch

The AF24-S actuator has one fixed auxiliary switch and one adjustable auxiliary switch which allows angle of rotation of 5% and between 28...94% to be signalled.

Simple installation and commissioning

The actuator is fitted with a universal spindle clamp for quick and easy mounting directly onto the damper spindle. The actuator is also supplied with an anti-rotation strap for fixing it in position. The 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.

Mechanical accessories

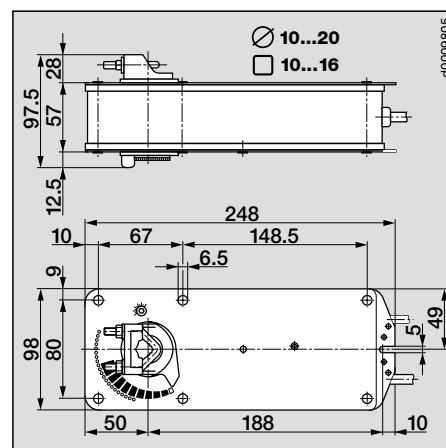
ZG-AF Damper linkage kit, page 9

Mounting instructions, page 10

Important

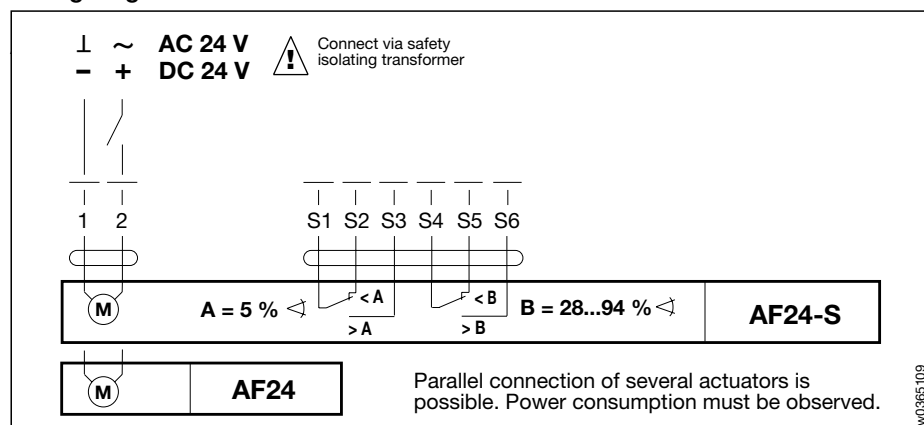
Read the notes about the use and torque requirements of the damper actuators on page 3.

Dimensions



d0009805

Wiring diagram



w0385109

Technical data	AF24, AF24-S
Nominal voltage	AC 24 V 50/60 Hz, DC 24 V
Nominal voltage range	AC 19.2...28.8 V, DC 21.6...26.4 V
For wire sizing	10 VA
Power consumption	
– motoring	5 W
– holding	1.5 W
Connecting cable	– motor 1 m long, 2×0.75 mm ² – auxiliary switches (AF...-S) 1 m long, 6×0.75 mm ²
Auxiliary switch (AF...-S)	2×SPDT 6 (3) A, AC 250 V □
– Switching points	fixed 5 % ✕, adjustable 28...94% ✕
Direction of rotation	selected by mounting L/R
Torque	– motor min. 15 Nm (at rated voltage) – spring return min. 15 Nm
Angle of rotation	max. 95° (adjustable from 33% in 5.5% steps ✕ with a supplied limit stop)
Running time	motor ≈ 150 s, spring return ≈ 16 s
Sound power level	motor max. 45 dB(A), spring ≈ 62 dB(A)
Service life	≈ 60 000 operations
Position indication	mechanical
Protection class	⚡ (safety extra-low voltage)
Degree of protection	IP 54
Ambient temp. range	–30... +50 °C
Non-operating temp.	–40... +80 °C
Humidity test	to EN 60335-1
EMC	CE according to 89/336/EEC, 92/31/EEC, 93/68/EEC
Low Voltage Directive	CE according to 73/23/EEC
Maintenance	maintenance free
Weight	3000 g