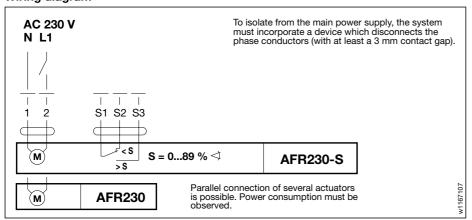


# Wiring diagram



Technical data	AFR230, AFR230	)-S	_
Nominal voltage	AC 230 V 50/60 Hz		
Nominal voltage range	AC 198264 V		
For wire sizing	11 VA		
Power consumption  – motoring  – holding	6.5 W 2.5 W		
Connecting cable	<ul><li>motor</li><li>auxiliary switch</li></ul>	(AFR230-S)	1 m long, $2 \times 0.75 \text{mm}^2$ 1 m long, $3 \times 0.75 \text{mm}^2$
Auxiliary switch (AFR230-S) 1×SPDT 6 (3) A, AC 250 V □  - Switching point adjustable 089 % ≮			
Direction of rotation	selected by mounting L/R		
Torque	<ul><li>motor</li><li>spring return</li></ul>	min. 15 Nm (at rated voltage) min. 15 Nm	
Angle of rotation	max. 95° (adjustable from 33 % in 5.5 % steps		
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	II (all insulated)		
Degree of protection	IP 54		
Ambient temp. range Non-operating temp. Humidity test	-30 + 50 °C -40 + 80 °C to EN 60335-1		
EMC Low Voltage Directive	CE according to 89/336/EEC, 92/31/EEC, 93/68/EEC CE according to 73/23/EEC		
Maintenance	maintenance free		
Weight	3000 g		

# Dampers up to approx. 3 m<sup>2</sup> Open/Close actuator (AC 230 V)

#### Versatile applications

The AFR... 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 R... 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 stops.

#### Variable end switch

The AFR230-S actuator has one adjustable auxiliary switch which allows angle of rotation of 0...89 % 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 antirotation strap for fixing it in position. The actuator is delivered with 5.5 % spring pre-tensioning (at the 0 % position). At first power-up the spring pre-tensioning is released and the actuator moves to the closed position (to max. – 5.5 %).

#### Mechanical accessories, page 8

KH-AF Universal crank arm
IND-AF2 Pointer with circlip
ZDB-AF Angle of rotation limiting
AV10-18 Universal spindle extension

# Mounting instructions, page 8

#### Important

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

### **Dimensions**

