

Rotary actuator fail-safe for adjusting dampers in technical building installations

- Air damper size up to approx. 0.5 m<sup>2</sup>
- Torque motor 2.5 Nm
- Nominal voltage AC 100...240 V
- Control Open/close



Picture may differ from product

## Technical data

Electrical data	Nominal voltage	AC 100...240 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 85...265 V
	Power consumption in operation	2.5 W
	Power consumption in rest position	1.5 W
	Power consumption for wire sizing	5 VA
	Connection supply / control	Cable 1 m, 2x 0.75 mm <sup>2</sup>
	Parallel operation	Yes (note the performance data)
Functional data	Torque motor	2.5 Nm
	Torque fail-safe	2.5 Nm
	Direction of motion motor	selectable by mounting L/R
	Direction of motion fail-safe	selectable by mounting L/R
	Manual override	No
	Angle of rotation	Max. 95°
	Angle of rotation note	adjustable starting at 37% in 2.5% steps (with mechanical end stop)
	Running time motor	75 s / 90°
	Running time fail-safe	<25 s / 90°
	Sound power level, motor	50 dB(A)
	Mechanical interface	Universal shaft clamp 6...12.7 mm
	Position indication	Mechanical
	Service life	Min. 60'000 fail-safe positions
Safety data	Protection class IEC/EN	II, reinforced insulation
	Degree of protection IEC/EN	IP42
	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
	Hygiene test	According to VDI 6022 Part 1 / SWKI VA 104-01, cleanable and disinfectable, low emission
	Type of action	Type 1.AA
	Overvoltage category	III
	Rated impulse voltage supply / control	4 kV
	Pollution degree	3
	Ambient humidity	Max. 95% RH, non-condensing

<b>Safety data</b>	Ambient temperature	-30...50°C [-22...122°F]
	Storage temperature	-40...80°C [-40...176°F]
	Servicing	maintenance-free
<b>Weight</b>	Weight	0.62 kg

## Safety notes



- This device has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- Outdoor application: only possible in case that no (sea) water, snow, ice, insolation or aggressive gases interfere directly with the device and that it is ensured that the ambient conditions remain within the thresholds according to the data sheet at any time.
- Caution: Mains voltage!
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied with during installation.
- 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.
- Cables must not be removed from the device.
- The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

## Product features

<b>Operating mode</b>	The actuator moves the damper to the operating position at the same time as tensioning the return spring. The damper is turned back to the safety position by spring energy when the supply voltage is interrupted.
<b>Simple direct mounting</b>	Simple direct mounting on the damper shaft with a universal shaft clamp, supplied with an anti-rotation mechanism to prevent the actuator from rotating.
<b>Adjustable angle of rotation</b>	Adjustable angle of rotation with mechanical end stops.
<b>High functional reliability</b>	The actuator is overload protected, requires no limit switches and automatically stops when the end stop is reached.

## Accessories

Mechanical accessories	Description	Type
Actuator arm		AH-TF
Shaft extension 170 mm ø10 mm for damper shaft ø6...16 mm		AV6-20
Ball joint suitable for damper crank arm KH8 / KH10		KG10A
Ball joint suitable for damper crank arm KH8		KG8
Damper crank arm Slot width 8.2 mm, clamping range ø10...18 mm		KH8
Screw fastening kit		SB-TF
Angle of rotation limiter, with end stop		ZDB-TF
Form fit adapter 8x8 mm		ZF8-TF
Mounting kit for linkage operation for flat and side installation		ZG-TF1
Anti-rotation mechanism 180 mm, Multipack 20 pcs.		Z-ARS180

## Electrical installation



**Caution: Mains voltage!**

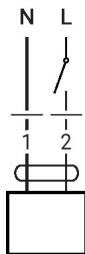
**Parallel connection of other actuators possible. Observe the performance data.**

## Electrical installation

## Wire colours:

1 = blue  
2 = brown

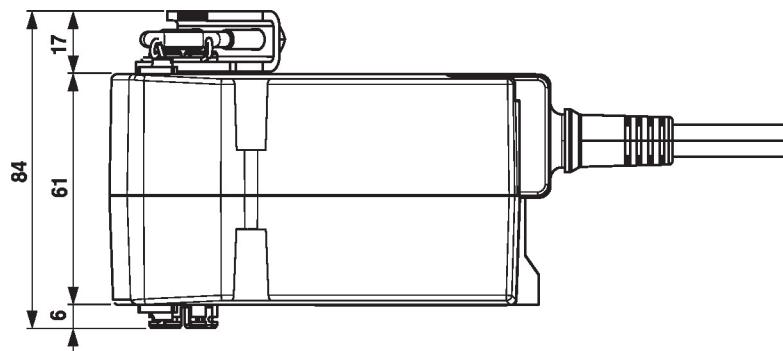
AC 230 V, open/close



## Dimensions

## Spindle length

	Min. 84
	Min. 20 mm [0.75"]



## Clamping range

6...12.7	6...12.7

