

Spring-return actuator with emergency control function for adjusting dampers in technical building installations

- · Air damper size up to approx. 6 m²
- Nominal torque 30 Nm
- · Nominal voltage AC 230 V
- · Control Open-close



echnical data		
Electrical data	Nominal voltage	AC 230 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 90264 V
	Power consumption in operation	9 W
	Power consumption in rest position	4.5 W
	Power consumption for wire sizing	21 VA
	Connection supply / control	Cable 1 m, 2 x 0.75 mm ²
	Parallel operation	Yes (note the performance data)
Functional data	Torque motor	Min. 30 Nm
	Torque spring return	Min. 30 Nm
	Direction of motion motor	Selectable by mounting L / R
	Direction of motion emergency control	Selectable by mounting L / R
	function	, ,
	Manual override	By means of hand crank and locking switch
	Angle of rotation	Max. 95°
	Angle of rotation note	adjustable starting at 33% in 5% steps (with mechanical end stop)
	Running time motor	75 s / 90°
	Running time emergency control position	<20 s / 90°
	Running time emergency setting position	
	note	
	Sound power level motor	56 dB(A)
	Sound power level emergency control position	71 dB(A)
	Spindle driver	Universal spindle clamp 1226.7 mm
	Position indication	Mechanical
	Service life	Min. 60,000 emergency positions
Safety	Protection class IEC/EN	II Protective insulated
	Protection class UL	II Protective insulated
	Degree of protection IEC/EN	IP54
	EMC	CE according to 2004/108/EC
	Low voltage directive	CE according to 2006/95/EC
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
	Mode of operation	Type 1.AA
	Rated impulse voltage supply / control	2.5 kV
	Control pollution degree	3
	Ambient temperature	-3050°C
	Non-operating temperature	-4080°C
	Ambient humidity	95% r.h., non-condensing
	Maintenance	Maintenance-free

Safety notes



Weight

Weight

• The device must not be used outside the specified field of application, especially not in aircraft or in any other airborne means of transport.

5.2 kg



Safety notes

- Outdoor application: only possible in case that no (sea)water, snow, ice, insolation
 or aggressive gases interfere directly with the actuator and that is ensured that the
 ambient conditions remain at any time within the thresholds according to the data
 sheet.
- Caution: Power supply voltage!
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied 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.
- To calculate the torque required, the specifications supplied by the damper manufacturers concerning the cross-section, the design, the installation site and the ventilation conditions must be observed.
- 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

Mode of operation 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.

Simple direct mounting Simple direct mounting on the damper spindle with an universal spindle clamp,

supplied with an anti-rotation device to prevent the actuator from rotating.

Spindle stabiliser The spindle clamp of the spring-return actuator is factory-equipped with an axis

stabiliser for the stabilisation of the combination of damper, damper spindle and

actuator.

This is comprised of two plastic support rings and must be left in place, partially or

completely removed, depending on the installation situation and the axis diameter.

Manual override By using the hand crank the damper can be actuated manually and engaged with the

locking switch at any position. Unlocking is carried out manually or automatically by

applying the operating voltage.

High functional reliability The actuator is overload protected, requires no limit switches and automatically stops

when the end stop is reached.

Adjustable angle of rotation Adjustable angle of rotation with mechanical end stops.

Accessories

	Description	Туре
Mechanical accessories	ical accessories End stop indicator for EFA	
	Spindle clamp set for EFA (1", 3/4"), for damper spindles Ø 1226.7	K9-2
	Damper crank arm, for damper spindles	
	Actuator arm for EFA	KH-EFB
	Mounting kit for linkage operation	ZG-EFB

Electrical installation



Notes

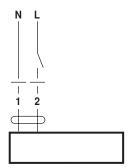
- · Caution: Power supply voltage!
- Parallel connection of other actuators possible. Observe the performance data.



Electrical installation

Wiring diagrams

AC 230 V, open-close



Cable colours:

1 = blue

2 = brown

Installation notes



Notes

 The spindle stabiliser must nevertheless be used with installation of the antirotation device on the opposite side of the spindle clamp and a spindle diameter <20 mm.

Spindle stabiliser long spindle mounting

In the case of long spindle installation the use of the spindle stabiliser at a spindle diameter of

• 12 to 20 mm is necessary

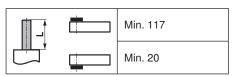
• 21 to 26.7 mm is not necessary and can be removed

Spindle stabiliser short spindle mounting

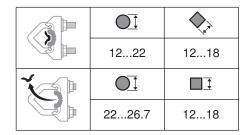
In the case of short spindle installation, the necessity of the spindle stabiliser is dispensed with. It can be removed or - if the spindle length permits this - left in the clamp.

Dimensions [mm]

Spindle length



Clamping range



Dimensional drawings

