

# **Technical data sheet**

Modulating damper actuator for adjusting dampers in technical building installations

- Air damper size up to approx. 4 m<sup>2</sup>
- Torque motor 20 Nm
- Nominal voltage AC 100...240 V
- Control modulating 2...10 V
- Position feedback 2...10 V



## **Technical data**

Electrical data	Nominal voltage	AC 100240 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 85265 V
	Power consumption in operation	3.5 W
	Power consumption in rest position	1 W
	Power consumption for wire sizing	6.5 VA
	Connection supply	Cable 1 m, 2x 0.75 mm <sup>2</sup>
	Connection control	Cable 1 m, 4x 0.75 mm <sup>2</sup>
	Parallel operation	Yes (note the performance data)
Functional data	Torque motor	20 Nm
	Operating range Y	210 V
	Input impedance	100 kΩ
	Position feedback U	210 V
	Position feedback U note	Max. 1 mA
	Auxiliary supply	DC 24 V ±30%, max. 10 mA
	Position accuracy	±5%
	Direction of motion motor	selectable with switch 0/1
	Direction of motion note	Y = 0 V: At switch position 0 (ccw rotation) / 1 (cw rotation)
	Manual override	with push-button, can be locked
	Angle of rotation	Max. 95°
	Angle of rotation note	can be limited on both sides with adjustable mechanical end stops
	Running time motor	150 s / 90°
	Sound power level, motor	45 dB(A)
	Mechanical interface	Universal shaft clamp reversible 1020 mm
	Position indication	Mechanical, pluggable
Safety data	Protection class IEC/EN	II, reinforced insulation
	Protection class UL	II, reinforced insulation
	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2
	Enclosure	UL Enclosure Type 2
	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



Sa	afety data	UL Approval	cULus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1 The UL marking on the actuator depends on the production site, the device is UL-compliant
		Hygiene test	in any case According to VDI 6022 Part 1 / SWKI VA 104-01, cleanable and disinfectable, low emission
		Type of action	Туре 1
		Rated impulse voltage supply	2.5 kV
		Rated impulse voltage control	0.8 kV
		Pollution degree	3
		Ambient humidity	Max. 95% RH, non-condensing
		Ambient temperature	-3050°C [-22122°F]
		Storage temperature	-4080°C [-40176°F]
		Servicing	maintenance-free
	Weight	Weight	1.2 kg
		<ul> <li>conditions remain within the thresh</li> <li>Caution: Power supply voltage!</li> <li>Only authorised specialists may car installation regulations must be con</li> <li>The device may only be opened at t can be replaced or repaired by the</li> <li>Cables must not be removed from to To calculate the torque required, the concerning the cross-section and the ventilation conditions must be obsection</li> <li>The device contains electrical and end</li> </ul>	the manufacturer's site. It does not contain any parts that user. the device. he specifications supplied by the damper manufacturers he design, as well as the installation situation and the
Product features			- ·
	ng mode		ndard control signal of 010 V and drives to the position ring voltage U serves for the electrical display of the trol signal for other actuators.
Simple direct n	nounting	Simple direct mounting on the damp anti-rotation device to prevent the ac	er shaft with a universal shaft clamp, supplied with an ctuator from rotating.

- **Manual override** Manual override with push-button possible (the gear train is disengaged for as long as the button is pressed or remains locked).
- **Adjustable angle of rotation** Adjustable angle of rotation with mechanical end stops.
  - **High functional reliability** The actuator is overload protected, requires no limit switches and automatically stops when the end stop is reached.



ssories		
Electrical accessories	Description	Туре
	Auxiliary switch 1x SPDT add-on	S1A
	Auxiliary switch 2x SPDT add-on	S2A
	Feedback potentiometer 140 $\Omega$ add-on	P140A
	Feedback potentiometer 1 k $\Omega$ add-on	P1000A
	Feedback potentiometer 10 k $\Omega$ add-on	P10000A
	Signal converter voltage/current 100 k $\Omega$ 420 mA, Supply AC/DC 24 V	Z-UIC
	Positioner for wall mounting	SGA24
	Positioner for built-in mounting	SGE24
	Positioner for front-panel mounting	SGF24
	Positioner for wall mounting	CRP24-B1
Mechanical accessories	Description	Туре
	Actuator arm for standard shaft clamp (reversible)	AH-20
	Shaft extension 240 mm ø20 mm for damper shaft ø1221 mm CrNi	AV12-25-I
	Shaft extension 240 mm ø20 mm for damper shaft ø822.7 mm	AV8-25
	Ball joint suitable for damper crank arm KH8	KG8
	Ball joint suitable for damper crank arm KH8 / KH10	KG10A
	Damper crank arm Slot width 8.2 mm, clamping range ø1018 mm	KH8
	Shaft clamp one-sided, clamping range ø826 mm, Multipack 20 pcs.	K-ENSA
3	Shaft clamp one-sided, clamping range ø1226 mm, for CrNi shaft (INOX), Multipack 20 pcs.	K-ENSA-I
	Shaft clamp reversible, clamping range ø1020 mm	K-SA
	Anti-rotation mechanism 180 mm, Multipack 20 pcs.	Z-ARS180
	Anti-rotation mechanism 230 mm, Multipack 20 pcs.	Z-ARS230
	Form fit insert 10x10 mm, Multipack 20 pcs.	ZF10-NSA
	Form fit insert 12x12 mm, Multipack 20 pcs.	ZF12-NSA
	Form fit insert 15x15 mm, Multipack 20 pcs.	ZF15-NSA
	Form fit insert 16x16 mm, Multipack 20 pcs.	ZF16-NSA
	Mounting kit for linkage operation for flat installation	ZG-SMA
	Position indicator, Multipack 20 pcs.	Z-PI
	Baseplate extension for SMA to SM/AM/SMD24R	Z-SMA

### **Electrical installation**



Caution: Power supply voltage!

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

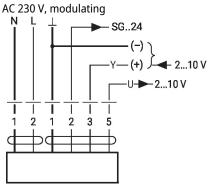


- 1 = blue
- 2 = brown
- 1 = black
- 2 = red
- 3 = white
- 5 = orange

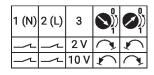


### **Electrical installation**

### Wiring diagrams



Auxiliary supply only for positioner SG..24



### Dimensions

