

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/DC 24 V
- Control Open/close, 3-point
- with connecting terminals



Technical	data
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Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.228.8 V / DC 19.228.8 V
	Power consumption in operation	2 W
	Power consumption in rest position	0.2 W
	Power consumption for wire sizing	4 VA
	Connection supply / control	Terminals 4 mm² (cable ø410 mm, 3-wire)
	Parallel operation	Yes (note the performance data)
Functional data	Torque motor	20 Nm
	Direction of motion motor	selectable with switch 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	III, Safety Extra-Low Voltage (SELV)
	Power source UL	Class 2 Supply
	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
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
	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 in any case
	Hygiene test	According to VDI 6022 Part 1 / SWKI VA 104-01, cleanable and disinfectable, low emission
	Type of action	Type 1

0.8 kV

3

Rated impulse voltage supply / control

Pollution degree



# Technical data Safety data Ambient humidity Ambient temperature Storage temperature Servicing Max. 95% RH, non-condensing -30...50°C [-22...122°F] -40...80°C [-40...176°F] -40...80°C [-40...176°F]

### 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.
- 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.
- To calculate the torque required, the specifications supplied by the damper manufacturers
  concerning the cross-section and the design, as well as the installation situation 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**

Simple direct mounting

Simple direct mounting on the damper shaft with a universal shaft clamp, supplied with an anti-rotation device to prevent the actuator 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.

### **Accessories**

Electrical accessories	Description	Туре
	Auxiliary switch 1x SPDT add-on	S1A
	Auxiliary switch 2x SPDT add-on	S2A
	Feedback potentiometer 140 Ω add-on	P140A
	Feedback potentiometer 1 $k\Omega$ add-on	P1000A
	Feedback potentiometer 10 $k\Omega$ add-on	P10000A
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
	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



### Accessories

Description	Туре
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
Terminal protection IP54, Multipack 20 pcs.	Z-TP

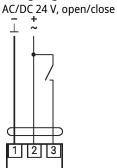
# **Electrical installation**

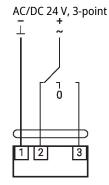


# Supply from isolating transformer.

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

### Wiring diagrams

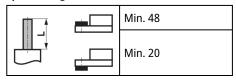




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# **Dimensions**

# Spindle length



## Clamping range

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	1020	≥10	≤20
CrNi (INOX)	1220	≥10	≤20

When using a round shaft made of CrNi (INOX): ø12...20 mm

