

Damper actuator for adjusting dampers in technical building installations

- Air damper size up to approx. 2 m²
- Torque motor 10 Nm
- Nominal voltage AC/DC 24 V
- Control Open/close, 3-point
- with connecting terminals



Technical data

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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	1.5 W
Power consumption in rest position	0.2 W
Power consumption for wire sizing	3.5 VA
Connection supply / control	Terminals 4 mm² (cable ø410 mm, 3-wire) 4 mm²
Parallel operation	Yes (note the performance data)
Torque motor	10 Nm

Functional data

Torque motor	10 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	35 dB(A)
Mechanical interface	Universal shaft clamp 826.7 mm
Position indication	Mechanical, pluggable
Protection class IFC/FN	III, Safety Extra-Low Voltage (SELV)
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Safety data

Weight

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
Type of action	Type 1
Rated impulse voltage supply / 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	0.78 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.
- 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.
- To calculate the torque required, the specifications supplied by the damper manufacturers concerning the cross-section, the design, 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 antirotation 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 1 x SPDT add-on	S1A
	Auxiliary switch 2 x SPDT add-on	S2A
	Feedback potentiometer 140 Ω add-on	P140A
	Feedback potentiometer 200 Ω add-on	P200A
	Feedback potentiometer 500 Ω add-on	P500A
	Feedback potentiometer 1 kΩ add-on	P1000A
	Feedback potentiometer 2.8 kΩ add-on	P2800A
	Feedback potentiometer 5 kΩ add-on	P5000A
	Feedback potentiometer 10 kΩ add-on	P10000A



Technical data sheet NM24A-TP

Mechanical accessories

Description	Туре
Actuator arm for standard shaft clamp (one-sided)	AH-25
Shaft extension 240 mm ø20 mm for damper shaft ø822.7 mm	AV8-25
Ball joint suitable for damper crank arm KH8, Multipack 10 pcs.	KG8
Ball joint suitable for damper crank arm KH8 / KH10, Multipack 10 pcs.	KG10A
Damper crank arm Slot width 8.2 mm, clamping range ø1018 mm	KH8
Shaft clamp one-sided, clamping range ø826 mm with insert, Multipack	K-ENMA
20 pcs.	
Shaft clamp one-sided, clamping range ø826 mm, Multipack 20 pcs.	K-ENSA
Shaft clamp reversible, clamping range ø820 mm	K-NA
Form fit insert 8x8 mm, Multipack 20 pcs.	ZF8-NMA
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-NMA
Anti-rotation mechanism 180 mm, Multipack 20 pcs.	Z-ARS180
Base plate extension for NMA to NM	Z-NMA
Position indicator, Multipack 20 pcs.	Z-PI
Terminal protection IP54, Multipack 20 pcs.	Z-TP

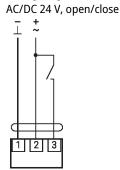
Electrical installation

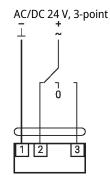


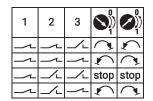
Supply from isolating transformer.

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

Wiring diagrams

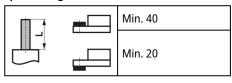






Dimensions





Clamping range

	OI		
	826.7	≥8	≤26.7
*	820	≥8	≤20

*Option: Shaft clamp mounted below (accessories K-NA needed)

