

Modulating damper actuator for adjusting dampers in technical building installations

- Air damper size up to approx. 2 m²
- Torque motor 10 Nm
- Nominal voltage AC 100...240 V
- Control modulating 2...10 V
- Position feedback 2...10 V



Technical data

ectrical	-4-6

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, 2 x 0.75 mm ²		
Connection control	Cable 1 m, 4 x 0.75 mm ²		
Parallel operation	Yes (note the performance data)		
Torque motor	10 Nm		
Operating range V	2 10 V		

Functional data

Torque motor	10 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	35 dB(A)
Mechanical interface	Universal shaft clamp 826.7 mm
Position indication	Mechanical, pluggable
Protection class IEC/EN	II, reinforced insulation

Safety data

i osition malcation	Weenanical, plaggable
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
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



	rechnical data sheet	NM23UAS	K
Safety data	Type of action	Type 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	0.83 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: 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 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

Mode of operation The actuator is connected with a standard control signal of 0...10 V and drives to the position

defined by the control signal. Measuring voltage U serves for the electrical display of the

damper position 0...100% and as control signal for other actuators.

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 installation



Caution: Power supply voltage!

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

Wire colours:

1 = blue

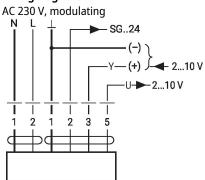
2 = brown

1 = black

2 = red

3 = white 5 = orange

Wiring diagrams



Auxiliary supply only for positioner SG..24

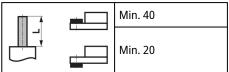
1 (N)	2 (L)	3		
7	_~	2 V	(1)	(
7	1	10 V	((1)

NM230ASR



Dimensions

Spindle length



Clamping range

	01		\Diamond
	826.7	≥8	≤26.7
*	820	≥8	≤20

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

