



STANDARD 8 Nm | 16 Nm | 24 Nm | 32 Nm | MODULATING CONTROL

NEAM...08/16/24/32 (S) SERIES

NENUTEC standard damper actuators are especially designed and produced for applications in the HVAC systems. Our wide range of NENUTEC standard damper actuators has been developed to operate and position air dampers of different sizes. Angular positioning of modulating actuators can be controlled by all trade mark controllers.



- \blacksquare Damper size 1.5 m² / 3.0 m² / 4.5 m² / 6.0 m²
- Power supply AC/DC 24V and AC 230V
- Control DC 0(2)...10 V and 0(4)...20 mA
- 2 adjustable auxiliary switches (SPDT)
- Digital greentech technology *(*



- Shaft dimensions \varnothing 10 to 20 mm round / \square 10 to 16 mm square minimum shaft length 50 mm
- Selectable direction of rotation
- Adjustable angle of rotation
- Customer version (on request)

MODEL SELECTION TABLE

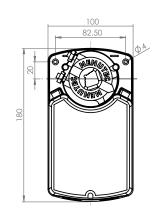
Torque	Running time	Power supply	Auxiliary Switches	Model / Type
8 Nm	40 sec	AC/DC 24 V ± 15%	No	NEAM24.1-08
8 Nm	40 sec	AC/DC 24 V ± 15%	2 x SPDT	NEAM24.1-08S
8 Nm	40 sec	AC 230V ± 10%	No	NEAM230.1-08
8 Nm	40 sec	AC 230V ± 10%	2 x SPDT	NEAM230.1-08S
16 Nm	90 sec	AC/DC 24 V ± 15%	No	NEAM24.1-16
16 Nm	90 sec	AC/DC 24 V ± 15%	2 x SPDT	NEAM24.1-16S
16 Nm	90 sec	AC 230V ± 10%	No	NEAM230.1-16
16 Nm	90 sec	AC 230V ± 10%	2 x SPDT	NEAM230.1-16S
24 Nm	140 sec	AC/DC 24 V ± 15%	No	NEAM24.1-24
24 Nm	140 sec	AC/DC 24 V \pm 15%	2 x SPDT	NEAM24.1-24S
24 Nm	140 sec	AC 230V ± 10%	No	NEAM230.1-24
24 Nm	140 sec	AC 230V ± 10%	2 x SPDT	NEAM230.1-24S
32 Nm	190 sec	AC/DC 24 V ± 15%	No	NEAM24.1-32
32 Nm	190 sec	AC/DC 24 V ± 15%	2 x SPDT	NEAM24.1-32S
32 Nm	190 sec	AC 230V ± 10%	No	NEAM230.1-32
32 Nm	190 sec	AC 230V ± 10%	2 x SPDT	NEAM230.1-32S

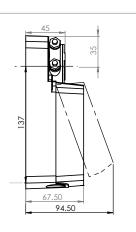




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ACTUATOR DIMENSIONS (mm)





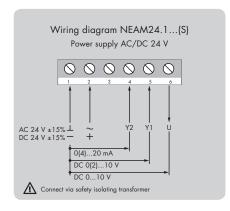
TECHNICAL SPECIFICATIONS

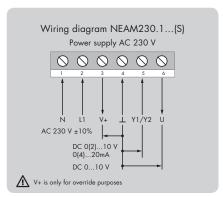
	NEAM24.1(S)	NEAM230.1(5)
Torque	8 Nm / 16 Nm / 24 Nm / 32 Nm	8 Nm / 16 Nm / 24 Nm / 32 Nm
Damper size	$1.5 \text{ m}^2 / 3.0 \text{ m}^2 / 4.5 \text{ m}^2 / 6.0 \text{ m}^2$	$1.5 \ m^2 \ / \ 3.0 \ m^2 \ / \ 4.5 \ m^2 \ / \ 6.0 \ m^2$
Shaft dimensions	Ø 10 to 20 mm round / 🗓 10 to 16 mm square	Ø 10 to 20 mm round / 🗓 10 to 16 mm square
Power supply	AC/DC 24V ± 15%	AC 230V ± 10%
Frequency	50 - 60 Hz	50 - 60 Hz
Control signal (Input)	DC 0(2)10 V or 0(4)20 mA	DC 0(2)10 V or 0(4)20 mA
Position signal (Output)	DC 010 V	DC 010 V
Power consumption		
- Operating	2.5 W	2.5 W
- End position	0.2 W	0.2 W
For wire sizing	6.5 VA	6.5 VA
Auxiliary switch rating	1.5 A, AC 230 V	1.5 A, AC 230 V
Protection class	III ��	🗆
Angle of rotation	0°90° (93° mechanical)	0°90° (93° mechanical)
Angle of limiting	0°90° in 5° steps	0°90° in 5° steps
Weight	1.2 kg - 1.4 kg	1.3 kg - 1.5 kg
Life cycle	60'000 rotation	60'000 rotation
Sound level	45 dB (A)	45 dB (A)
IP protection	IP 54 (dust protected & protected against splash water)	IP 54 (dust protected & protected against splash water)
Operating temperature	-20°+50° C / IEC 721-3-3	-20°+50° C / IEC 721-3-3
Non-operating temperature	-30°+80° C / IEC 721-3-2	-30°+80° C / IEC 721-3-2
Ambient humidity	5%95% rH non condensing / EN 60730-1	5%95% rH non condensing / EN 60730-1
Maintenance	Maintenance free	Maintenance free
Mode of operation	Type I / EN 60730-1	Type I / EN 60730-1
EMC	CE according to 2004 / 108 / EC	CE according to 2004 / 108 / EC

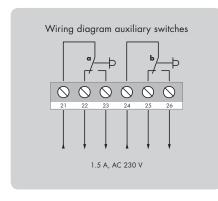


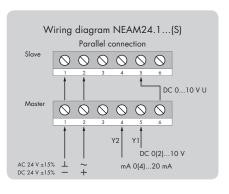


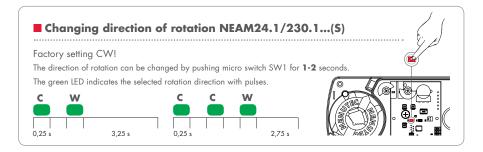
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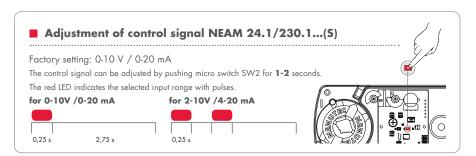






■ Spezifikation Steuersignale

Control signal Y1 Control signal Y2 Position signal U DC 0(2)... 10 V 0(4)...20 mA DC 0... 10 V Input resistance Input resistance Ri 100Ω Ri 500Ω Ri $> 50 \Omega$



Changing control signal

To change the control signal for the NEAM230.1...(S) between **mA** and **V**. Choose the correct jumper position. Factory setting: Position A (V).

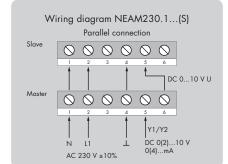
■ ■ Jumper position A: **V** input Y1

■ ■ Jumper position B: **mA** input Y2 (type NEAM230.1...(S))

Switch a factory-set at 10°
Switch b factory-set at 80°

The auxiliary switches can be optimally adjusted between 0°...90°.

(type NEAM24.1/230.1...(S))



■ Remark

Parallel connection of maximum five NEAM...(S) actuators is possible. The power consumption and distance between master and slave must be observed.

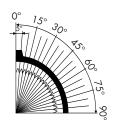


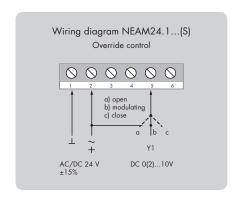


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■ Limiting angle of rotation NEAM24.1/230.1...(S)



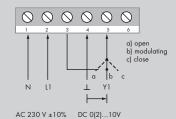




SAFETY NOTES

- The NE... actuators are not allowed to be used outside the specified field of application as described at the front page of this data sheet...
- Only to be installed by skill educated persons. Any legal regulations or issued by authorities must be observed during installation.
- AC 24V 50/60 Hz DC 24V: Connect via safety isolating transformer.
- The NE... actuator may only opened by NENUTEC manufacturer site.
- AC 230V: To isolate from the main power supply, the system must incorporate a device which disconnects the phase conductor (with at least 3 mm contact gap).

Wiring diagram NEAM230.1...(S) Override control



IMPORTANT REMARKS

This actuator includes electrical and electronic components and may not be disposed as household garbage. Please consider the local valid legislation.

.....X AC/DC 24 V: Connect via safety isolating transformer. AC 230 V: To isolate from the main power supply, the system must incorporate a device which disconnects the phase conductor (with at least a 3 mm contact gap).

Consult NENUTEC representatives for specific requirements and material selections for your intended application. The entire content of this technical datasheet is protected by copyright with all rights

The performance specifications are nominal and conform to acceptable industry standards. NENUTEC shall not be liable for damages resulting from misapplication or misuse of its products.

CUSTOMISED VERSION

NENUTEC offers you actuators in customised versions, e.g. with your own brand name, with colour-coordinated applications and with your particular demand on request.

Please contact us for further information.

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Distributor

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