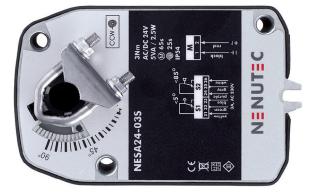


WITH SPRING RETURN SAFETY FUNCTION 3 Nm | MODULATED CONTROL





The appearance of the product may differ from the illustration. Technical specifications are subject to change.

MODEL SELECTION TABLE



NESM24.2-03(S)

NENUTEC spring return damper actuators have been developed to operate and position air dampers of different sizes that perform safety functions. For several application as frost hygiene and smoke control in technical building installations.

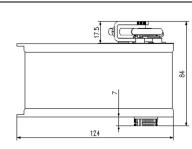
	Damper size 0.5 m ²
	Power supply 24 V _{AC/DC}
	Control 010 V _{DC}
	2 auxiliary switches (SPDT)
	Shaft dimensions Ø 6 to 12 mm round / $ar{\square}$ 6 to 8 mm square
	Minimum shaft length 24 mm.
	Minimum shaft length 24 mm.
	Adjustable angle of rotation (mechanical end stop).
	Actuator with 1000 mm connection cable.
•	Customised versions and functions (on request).

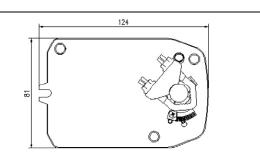
MODEL SELECTION TABLE							
Torque	Running time		Power supply	Auxiliary switches	Model/type		
	(motor)	(spring return)					
3 Nm	65 s	25 s	$24 V_{AC/DC} \pm 15\%$	-	NESM24.2-03		
3 Nm	65 s	25 s	24 V AC/DC ±15%	2 x SPDT	NESM24.2-03S		



WITH SPRING RETURN SAFETY FUNCTION 3 Nm | MODULATED CONTROL

ACTUATOR DIMENSIONS [mm]

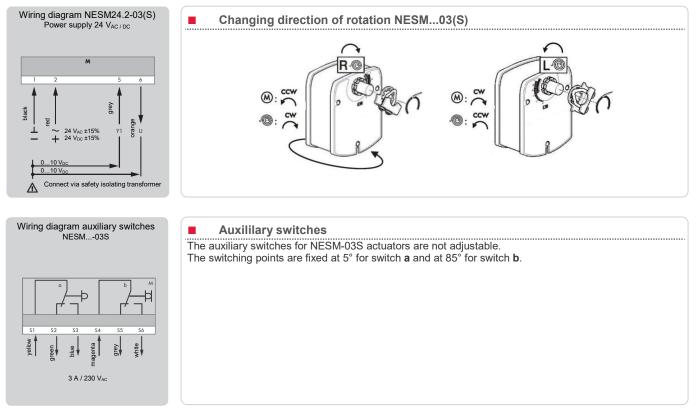




TECHNICAL SPECIFICATION NESM24.2-03(S) Torque 3 Nm $0.5 \, \text{m}^2$ Damper size Shaft dimensions Ø 6 to 12 mm round / 🗇 6 to 8 mm square Power supply $24 V_{AC} / 24 V_{DC} \pm 15\%$ 50 -60 Hz Frequency Control signal Y (input) 0...10 V_{DC} 0...10 V_{DC} Feedback position U (output) Power consumption 2.5 W - Operating End position 1.6 W Rated power 5 VA Auxiliary switch rating 3 A 230 V_{AC} yes (review performance data) Protection class ... � Angle of rotation 0° ... 90° (max. 95°) 45° ... 90° in 5° steps Limiting angle of rotation Weight 1 kg Min. 60,000 emergency settings Life cycle Sound pressure level Motor 45 dB (A) / spring return 65 dB (A) Protection degree IP 54 (dust protected & protected against splash water) -20°...+50°C / IEC 721-3-3 Working temperature range Storage temperature -30°...+80°C / IEC 721-3-2 5...95% rH (non condensing) Ambient humidity Maintenance Maintenance free Principle of operation Type 1 (acc. to EN 60730-1) Electromagnetic compatibility CE according to 2004/108/EC CE according to 2006/95/EC Low voltage directive **UL-Listing** UL 873



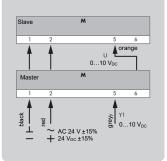
WITH SPRING RETURN SAFETY FUNCTION 3 Nm | MODULATED CONTROL



Note

Parallel connection of maximum five NESM-03(S) actuators is possible. The power consumption and distance between master and slave must be observed.

For more details of installation and commissioning, please observe our mounting instruction manual M-NESM-03(S).



Wiring diagram NESM24.2-03(S) Parallel connection

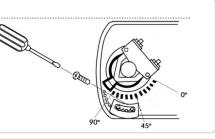


WITH SPRING RETURN SAFETY FUNCTION 3 Nm | MODULATED CONTROL

Mechanical limiting angle of rotation NESM...-03 series

- Adjustment of mechanical limiter.
- 1. Take limiting element and screw delivered with the actuator.
- 2. Place limiting element at appropriate position.*
- 3. Tighten the screw.

* Working range of 90° can be reduced up to 45°.



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.

Installation works may be performed only by trained and qualified personnel. Local regulations, codes and standards must be observed during installation.

- The NE... actuator may only opened by NENUTEC manufacturer site. Device does not contain any parts that can be replaced by user.
- The electrical connection cable must not be removed from the NE... actuator.
- This actuator includes electrical and electronic components and may not be disposed as household waste. Please consider the local valid legislation.
- 24 V_{AC} 50/60 Hz, 24 V_{DC}: Connect via safety isolating transformer.
- 230 V_{AC}: 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.)

MIMPORTANT REMARKS

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

24 $V_{AC/DC}$: Connect via safety isolating transformer. 230 V_{AC} : 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. All rights are reserved ©.

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.

For further information please contact us or our local representative.

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