



WITH SPRING RETURN SAFETY FUNCTION 3 Nm | OPEN-CLOSED CONTROL





NESA...-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 AC/DC 24V - AC 230V |
| ■ 2 Point control |
| 2 Auxiliary switches (SPDT) |
| ■ Shaft dimensions Ø 6 to 12 mm round / ∯ 6 to 8 mm square |
| ■ Minimum shaft length 24 mm |
| Selectable direction of rotation by reversing actua- tor |
| Adjustable angle of rotation (mechanical) |
| ■ Actuator with 1000 mm cable connection |
| Customer version (on request) |



Pictures might not correspond with technical data.

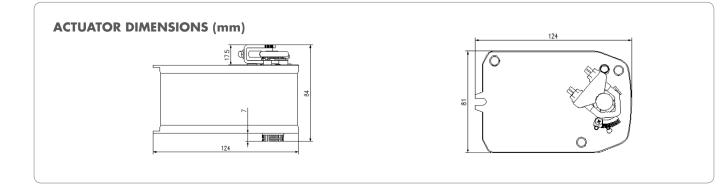
MODEL SELECTION TABLE

| Torque | Running time (Power) | (Spring) | Power supply | Auxiliary switch | Model / Type |
|--------|--------------------------------|----------|------------------|------------------|--------------|
| 3 Nm | 65 sec | < 25 sec | AC/DC 24 V ± 15% | No | NESA24-03 |
| 3 Nm | 65 sec | < 25 sec | AC/DC 24 V ± 15% | 2 x SPDT | NESA24-03S |
| 3 Nm | 65 sec | < 25 sec | AC 230 V ± 10% | No | NESA230-03 |
| 3 Nm | 65 sec | < 25 sec | AC 230 V ± 10% | 2 x SPDT | NESA230-03S |





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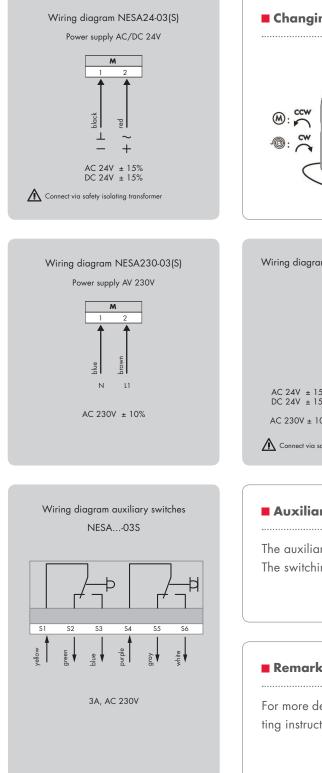
TECHNICAL SPECIFICATIONS

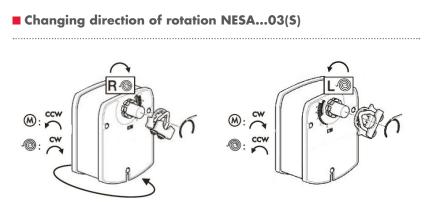
| N | IESA24-03(S) | NESA230-03(S) | |
|-------------------------------------|---|---|--|
| Torque | 3 Nm | 3 Nm | |
| Damper size | 0.5 m ² | 0.5 m ² | |
| Shaft dimensions | Ø 6 to 12 mm round / 🗇 6 to 8 mm square | Ø 6 to 12 mm round / 🗇 6 to 8 mm square | |
| Power supply | AC 24V / DC 24V ± 15% | AC 230V ± 10% | |
| Frequency | 50 - 60 Hz | 50 - 60 Hz | |
| Control signal | 2 point | 2 point | |
| Power consumption | | | |
| - Operating | 2.5 W | 1.5 W | |
| - End position | 1.6 W | 1.6 W | |
| For wire sizing | 5 VA | 5 VA | |
| Auxiliary switch rating | 3A AC 230V | 3A AC 230V | |
| Parallel operation | yes (review performance data) | yes (review performance data) | |
| Protection class | | | |
| Angle of rotation | 0° 90° (max. 95°) | 0° 90° (max. 95°) | |
| Angle of limiting | 45° 90° in 5° steps | 45° 90° in 5° steps | |
| Weight | 1 kg | 1 kg | |
| Life cycle actuator | Min. 60'000 emergency settings | Min. 60'000 emergency settings | |
| Sound level motor and spring return | M. 45 dB (A) S. 65 dB (A) | M. 45 dB (A) S. 65 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 | 5%95% rH non condensing | |
| Maintenance | Maintenance free | Maintenance free | |
| Mode of operation | Туре I / ЕМ 60730-1 | Type I / EN 60730-1 | |
| EMC | CE according to 2004/108/EC | CE according to 2004/108/EC | |
| Low voltage directive | CE according to 2006/95/EC | CE according to 2006/95/EC | |
| UL-Listing | UL 873 | UL 873 | |



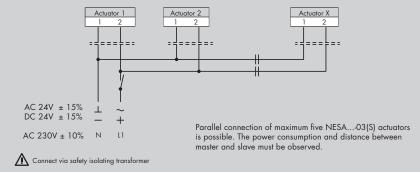


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Wiring diagram for parallel operation NESA...-03(S)



Auxiliary switches

The auxiliary switches for NESA-03S actuators are not adjustable. The switching points are fixed at 5° for switch ${f a}$ and at 85° for switch ${f b}$.

Remark

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





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Mechanical limiting angle of rotation NESA...-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 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.
- Only to be installed by skill educated persons. Any legal regulations or issued by authorities 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 garbage. Please consider the local valid legislation.
- AC 24V 50/60 Hz DC 24V: Connect via safety isolating transformer.

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).

MPORTANT REMARKS

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

AC/DC 24V: Connect via safety isolating transformer. AC 230V: 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 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.

NENUTEC AG

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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.

Distributor