

10 Nm | 2-POINT & 3-POINT CONTROL



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

# NACA...10 (S1) SERIES

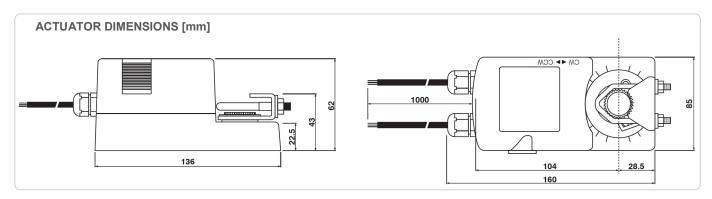
NACA standard damper actuators are specially designed and produced for applications in the HVAC Systems. Our wide range of Nenutec standard damper actuators has been developed to operate and position air dampers of different sizes.

| Torque: 10 Nm  |
|--|
| ■ Damper size 2.0 m <sup>2</sup>                             |
| ■ Power supply 24 V <sub>AC/DC</sub> and 230 V <sub>AC</sub> |
| ■ Shaft dimensions – Ø 1020 mm / square □ 514 mm             |
| ■ Minimum shaft length 45 mm                                 |
| ■ Adjustable angle of rotation                               |
| ■ Direction of rotation selectable by switch                 |
| Actuator with 1 m connection cable                           |
| Optional 1 adjustable SPDT auxiliary switch                  |
| ■ Manual over ride by push button when required              |
|  |

| /lodel/type | Torque | Power supply                | Running time | Auxiliary switch      |
|-------------|--------|-----------------------------|--------------|-----------------------|
| NACA 1-10   | 10 Nm  | 24 V <sub>AC/DC</sub> ± 10% | 70100 s      |                       |
| IACA 1-10S1 | 10 Nm  | $24 V_{AC/DC} \pm 10\%$     | 70100 s      | 1 x SPDT (adjustable) |
| IACA 2-10   | 10 Nm  | 230 V <sub>AC</sub> ± 10%   | 70100 s      | -                     |
| IACA 2-10S1 | 10 Nm  | 230 V <sub>AC</sub> ± 10%   | 70100 s      | 1 x SPDT (adjustable) |



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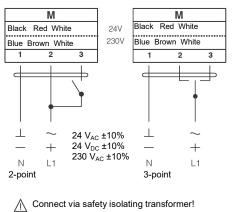


|                               | NACA 1-10 (S1)                  | NACA 2-10 (S1)                  |
|-------------------------------|---------------------------------|---------------------------------|
| Torque                        | 10 Nm                           | 10 Nm                           |
| Damper size                   | 2.0 m²                          | 2.0 m <sup>2</sup>              |
| Shaft dimensions              | Ø 1020 mm / 🗖 514 mm            | Ø 1020 mm / 🗆 514 mm            |
| Power supply                  | 24 V <sub>AC/DC</sub> ± 10%     | 230 V <sub>AC</sub> ± 10%       |
| Frequency                     | 5060Hz                          | 5060Hz                          |
| Control signal                | 2- & 3-point control            | 2- & 3-point control            |
| Power consumption             |                                 |                                 |
| In operation                  | 6.0 W                           | 6.0 W                           |
| End position                  | 2.0 W                           | 2.0 W                           |
| Rated power                   | 6.5 VA                          | 6.5 VA                          |
| Electrical Connection         | 1 m Cable                       | 1 m Cable                       |
| Auxiliary switch rating       | 3 (1.5) A / 250 V <sub>AC</sub> | 3 (1.5) A / 250 V <sub>AC</sub> |
| Protection class              | Class III ⊕                     | Class II 🗓                      |
| Angle of rotation             | 90° (95° mechanical limitation) | 90° (95° mechanical limitation) |
| Weight                        | <1.0 kg                         | <1.0 kg                         |
| Durability                    | 60,000 rotations                | 60,000 rotations                |
| Sound level                   | 45 dB                           | 45 dB                           |
| IP protection class           | IP54                            | IP54                            |
| Working temperature range     | -20°C50°C as per IEC 721-3-3    | -20°C50°C as per IEC 721-3-3    |
| Storage temperature           | -30°C+60°C / IEC 721-3-2        | -30°C+60°C / IEC 721-3-2        |
| Ambient humidity              | 595% rH (non condensing) / EN   | 595% rH (non condensing) / EN   |
| Maintenance                   | Maintenance free                | Maintenance free                |
| Principle of operation        | Type 1 (acc. to EN 60730-1)     | Type 1 (acc. to EN 60730-1)     |
| Electromagnetic compatibility | CE, UL 873 & ISO 9000 EN / EEC  | CE, UL 873 & ISO 9000 EN / EEC  |



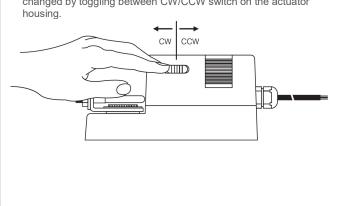
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## **WIRING DIAGRAM NACA...10 (S1)** POWER SUPPLY 24 V<sub>AC/DC</sub> / 230V<sub>AC</sub>

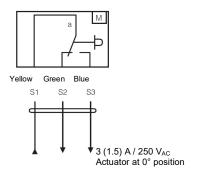


#### **DIRECTION OF ROTATION NACA...10 (S1)**

Factory setting: clockwise (CW). Direction of rotation can be changed by toggling between CW/CCW switch on the actuator housing.

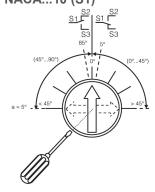


#### **WIRING DIAGRAM NACA...10 (S1) AUXILIARY SWITCH**

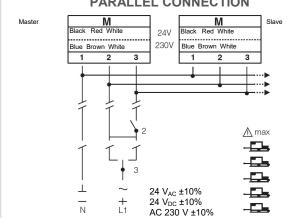


#### **AUXILIARY SWITCH NACA...10 (S1)**

Switch a factory-set at 5°. The auxiliary switch can be adjusted in the range 0°...90°.



#### WIRING DIAGRAM NACA...10 (S1) **PARALLEL CONNECTION**

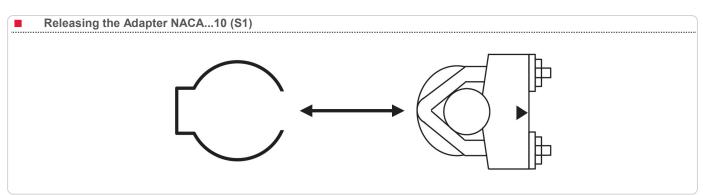


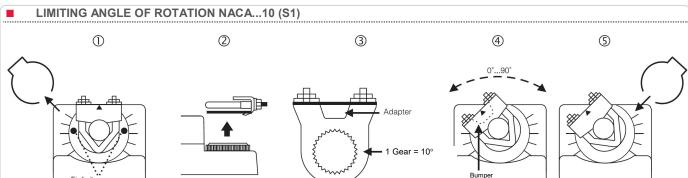
#### **REMARK**

Parallel connection of maximum 5 NACA...10 (S1) actuators is possible. Power consumption must be observed!



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# **!** IMPORTANT REMARKS

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

24 V<sub>AC/DC</sub>: Connect via safety isolating transformer.

230 V<sub>AC</sub>: To isolate from the main power supply, the system must incorporate a device which disconnects

the phase conductor (with at least a 3mm 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

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