



บริษัท เอดีดี เฟอร์เนส จำกัด

ADD FURNACE CO.,LTD.

44 ซอยบรมราชชนนี 70 ถนนบรมราชชนนี แขวงศาลาธรรมสพน์ เขตทวีวัฒนา กรุงเทพฯ 10170

โทร: 02-888-3472 โทร: ออกแบบ:08-08-170-170 แฟกซ์: 02-888-3258

https://www.add-furnace.com E-mail: sales@add-furnace.com

NENUTEC

A NAME WITH QUALITY

Rotary Damper Actuator

Standard 8 Nm / 16 Nm / 24 Nm
2 Point and 3 Point Control



- NACA...08/16/24 (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.

Product Features

- Torque 8 Nm / 16 Nm / 24 Nm
- Damper size 1.5 m²/ 3.0 m²/ 4.5 m²
- Power Supply AC/DC 24 V and AC 230 V
- Control 2 Point and 3 Point
- 2 adjustable auxiliary switches (SPDT)
- Shaft dimensions
Ø 10 to 20 mm round / ≤10 to 16 mm square
- Minimum shaft length 50 mm
- Selectable direction of rotation
- Adjustable angle of rotation
- Actuator with cable connection on request
- Customer version on request

Model Selection Table

Torque	Running Time	Power Supply	Auxiliary Switches	Model / Type
8 Nm	35...45 sec	AC/DC 24 V ± 10%	No	NACA 1-08
8 Nm	35...45 sec	AC/DC 24 V ± 10%	2 x SPDT	NACA 1-08 S
8 Nm	35...45 sec	AC 230 V ± 10%	No	NACA 2-08
8 Nm	35...45 sec	AC 230 V ± 10%	2 x SPDT	NACA 2-08 S
16 Nm	80...110 sec	AC/DC 24 V ± 10%	No	NACA 1-16
16 Nm	80...110 sec	AC/DC 24 V ± 10%	2 x SPDT	NACA 1-16 S
16 Nm	80...110 sec	AC 230 V ± 10%	No	NACA 2-16
16 Nm	80...110 sec	AC 230 V ± 10%	2 x SPDT	NACA 2-16 S
24 Nm	125...160 sec	AC/DC 24 V ± 10%	No	NACA 1-24
24 Nm	125...160 sec	AC/DC 24 V ± 10%	2 x SPDT	NACA 1-24 S
24 Nm	125...160 sec	AC 230 V ± 10%	No	NACA 2-24
24 Nm	125...160 sec	AC 230 V ± 10%	2 x SPDT	NACA 2-24 S



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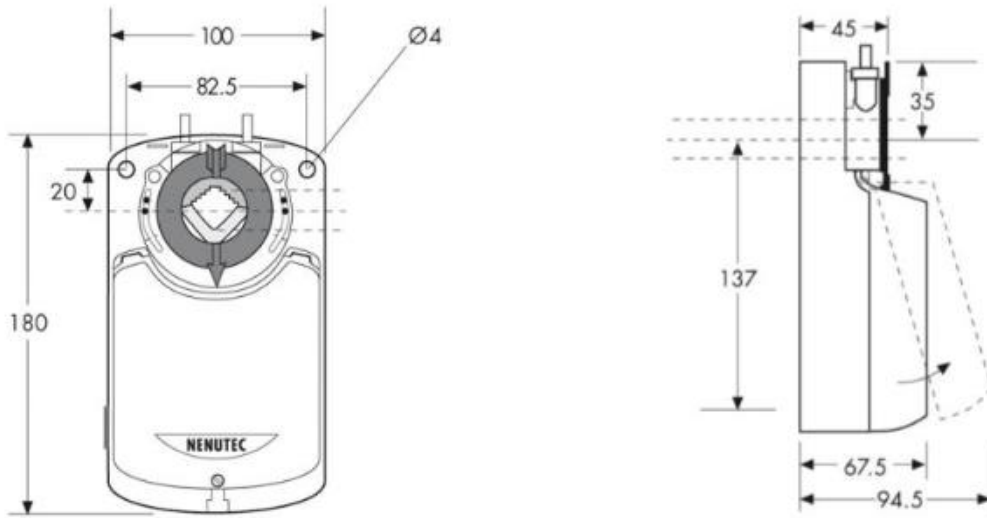
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Actuator Dimensions (mm)



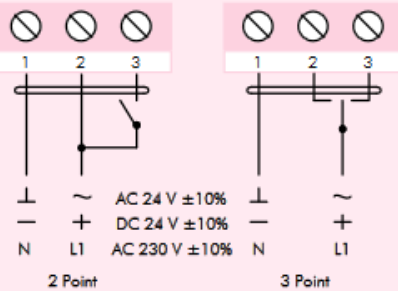
Technical Specifications

	NACA 1...(S)	NACA 2...(S)
Torque	8 Nm / 16 Nm / 24 Nm	8 Nm / 16 Nm / 24 Nm
Damper Size	1.5 m ² / 3.0 m ² / 4.5 m ²	1.5 m ² / 3.0 m ² / 4.5 m ²
Shaft dimensions	∅ 10 to 20 mm round / □10 to 16 mm square	∅ 10 to 20 mm round / □10 to 16 mm square
Power Supply	AC/DC 24 V ± 10%	AC 230 V ± 10%
Frequency	50 -60 Hz	50 -60 Hz
Control Signal	2 point and 3 point	2 point and 3 point
Power Consumption		
-Operating	3.9 W	4.8 W
-End Position	0.4 W/1.2 W	
For Wire Sizing	6.5 VA	6.5 VA
Auxiliary Switch Rating	3 (1.5) A, AC 230 V	3(1.5) A, AC 230 V
Protection Class	III ⏏	II ⏏
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°...+60° C / IEC 721-3-2	-30°...+60° 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 89 / 336 / EEC	CE according to 89 / 336 / EEC



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Wiring Diagram NACA 1/2...(S)
Power Supply AC/DC 24 V - AC 230 V

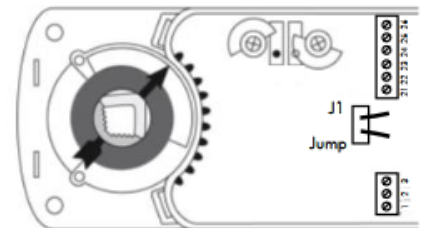


⚠ Connect via safety isolating transformer

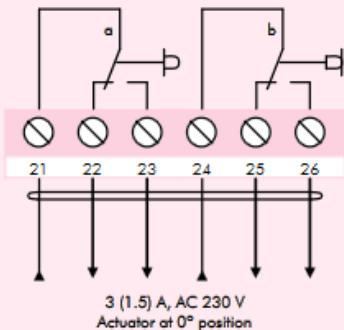
Changing Direction of Rotation NACA 1/2...(S)

Factory-set CW!

The direction of rotation can be changed by reversing the plug J1/Jump.



Wiring Diagram NACA 1/2...(S)
Auxiliary Switches

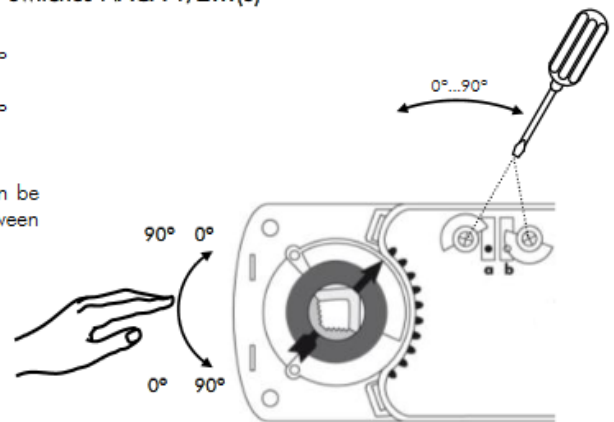


Adjustment of Auxiliary Switches NACA 1/2...(S)

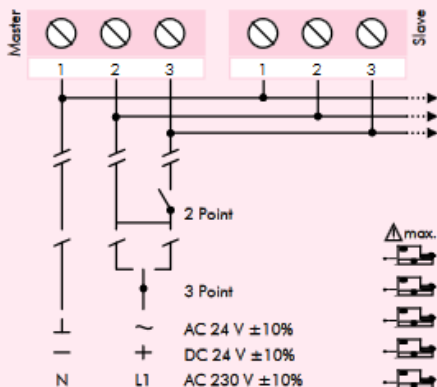
Switch a factory-set at 10°

Switch b factory-set at 80°

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



Wiring Diagram NACA 1/2...(S)
Parallel Connection



Remark

Parallel connection of several NACA...(S) actuators is possible. The power consumption must be observed.



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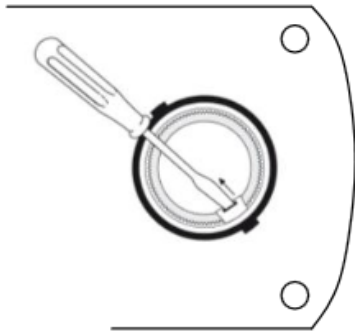
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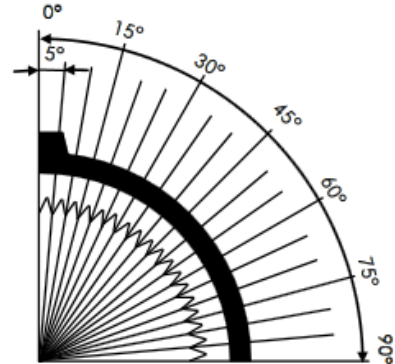
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Releasing the Adapter NACA 1/2...(S)



Limiting Angle of Rotation NACA 1/2...(S)



OEM Customised Version on Request

TELIMA offers you NENUTEC actuators in customised versions, e.g. with your own brand name, with colour-coordinated applications and with your particular demand. Please contact us for further information.

Important Remark

Consult NENUTEC representatives for specific requirements and material selections for your intended application.



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



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).