



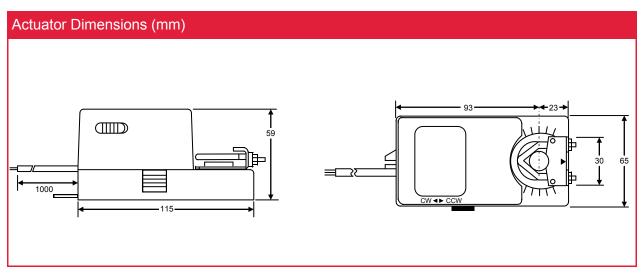
- NACA...02/05 (S1) series
- NENUTEC standard damper actuators are especially designed and produced for applications in the HVAC systems.
- Our wide range of NENUTEC standard damper actuators has been developed to operate and position air dampers of different sizes.

#### **Product Features**

- Torque 2 Nm / 5 Nm
- Damper size  $0.4 \text{ m}^2 / 1.0 \text{ m}^2$
- Power Supply AC/DC 24 V and AC 230 V
- Control 2 Point and 3 Point
- 1 adjustable auxiliary switch (SPDT)
- Shaft dimensions
  Ø 6 to 16 mm round / □ 5 to 12 mm square
- Minimum shaft length 40 mm
- Selectable direction of rotation
- Adjustable angle of rotation
- Actuator with 1000 mm cable connection
- Customer version on request

Model Selection Table				
Torque	Running Time	Power Supply	Auxiliary Switch	Model / Type
2 Nm	6090 sec	AC/DC 24 V ± 10%	No	NACA 1-02
2 Nm	6090 sec	AC/DC 24 V ± 10%	1 x SPDT	NACA 1-02 S1
2 Nm	6090 sec	AC 230 V ± 10%	No	NACA 2-02
2 Nm	6090 sec	AC 230 V ± 10%	1 x SPDT	NACA 2-02 S1
5 Nm	70100 sec	AC/DC 24 V ± 10%	No	NACA 1-05
5 Nm	70100 sec	AC/DC 24 V ± 10%	1 x SPDT	NACA 1-05 S1
5 Nm	70100 sec	AC 230 V ± 10%	No	NACA 2-05
5 Nm	70100 sec	AC 230 V ± 10%	1 x SPDT	NACA 2-05 S1



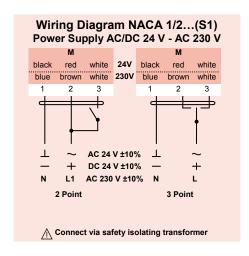


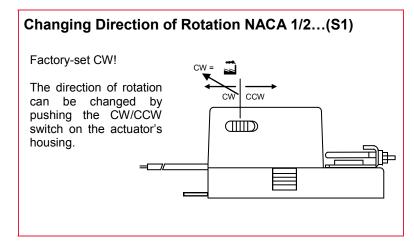
Technical Specification			
	NACA 1 (S1)	NACA 2 (S1)	
Torque	2 Nm / 5 Nm		
Damper Size	0.4 m² / 1.0 m²		
Shaft dimensions	Ø 6 to 16 mm round / $\square$ 5 to 12 mm square		
Power Supply	AC/DC 24 V ± 10%	AC 230 V ± 10%	
Frequency	5060Hz		
Control Signal	2 point and 3 point		
Power Consumption			
-Operating	2.0 W		
At the end stops 2.0 W			
For wire sizing		Ά	
Auxiliary Switches Rating (Amp and Voltage)	3 (1.5) A, AC 250 V		
Protection Class	П	P	
Angle of Rotation 90° (95° mechanical)		chanical)	
Angle of Limiting	0°90° (max. 0°30° / 60°90°)		
Weight	< 0.7 Kg		
Life Cycle	60,000 rotation		
Sound Level	40 dB		
IP Protection	IP54 (dust protected & protected against splash water)		
Operating Temperature	-20°50° as per IEC 721-3-3		
N 0 " T 1	-30°+60° C / IEC 721-3-2		
Non-Operating Temperature			
Ambient Humidity	5%95% rH non c	ondensing / EN	
	5%95% rH non c Maintenan	-	

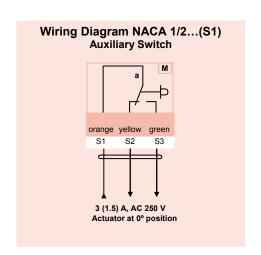
CE and ISO 9000 EN / EEC... Requirements

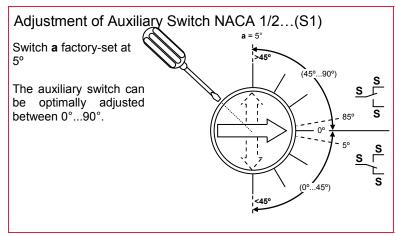
**EMC** 

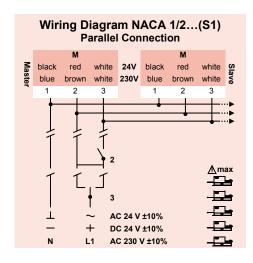










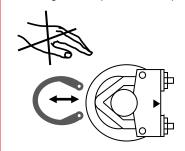


#### Remark

Parallel connection of several NACA...(S1) actuators is possible. The power consumption must be observed.

#### Releasing the Adapter NACA 1/2...(S1)

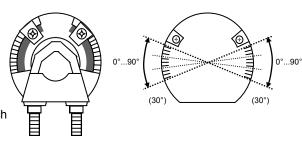
Releasing the adapter is not required and not necessary.



#### Limiting Angle of Rotation NACA 1/2...(S1)

Adjustment of Mechanical Limiter

- 1. Loosen screw of mechanical limiter
- 2. Move limiter to appropriate position \*
- 3. Tighten screw
- \* Working range of 90° can be reduced up to 30° from each end position.



### **OEM Customised Version on Request**

TELIMA/NENUTEC offers you actuators in customised versions, e.g. with your own brand name, with colourcoordinated 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 230 V:

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

To isolate from the main power supply, the system must incorporate a device which disconnects the phase conductor (with at least a 3 mm

#### Main Office:

#### **NENUTEC ASIA PACIFIC PTE LTD**

7030 Ang Mo Kio Ave 5 #08-55 Northstar@AMK

Singapore 569 880 Phone : +65 6570 3233

: +65 6570 6783 Fax Email : info@nenutec.com.sq Website: www.nenutec.com.sg

#### **Headquarter:**



Schachenstrasse 80

CH-8645 Jona / Switzerland Phone : +41 55 212 40 60 :+41 55 212 40 69 Fax : info@telima.ch Email Website: www.nenutec.com

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.