NENUTEC®

A NAME WITH QUALITY

NASM 08/16 (S)

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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A NAME WITH QUALITY

Rotary Damper Actuator
Fast Running 8 Nm / 16 Nm
Modulating Control

The technical specifications might not be congruent.

- NASM…08/16 (S) series
- NENUTEC fast running damper actuators are especially designed and produced for applications in the HVAC systems.
- Our wide range of NENUTEC fast running damper actuators has been developed to operate and position air dampers of different sizes. Angular positioning of modulating actuators can be controlled by the NPG-1 positioner.

Product Features

- Torque 8 Nm / 16 Nm
- Damper size 1.5 m^2 / 3.0 m^2
- Power Supply AC/DC 24 V
- Control Modulating DC 0(2)…10 V and 0(4)…20 mA
- 2 adjustable auxiliary switches (SPDT)
- Shaft dimensions
  Ø 10 to 20 mm round / ☐ 10 to 16 mm square
- Minimum shaft length 40 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	8 sec	AC/DC 24 V ± 10%	No	NASM 1.1-08
8 Nm	8 sec	AC/DC 24 V ± 10%	2 x SPDT	NASM 1.1-08 S
16 Nm	16 sec	AC/DC 24 V ± 10%	No	NASM 1.1-16
16 Nm	16 sec	AC/DC 24 V ± 10%	2 x SPDT	NASM 1.1-16 S

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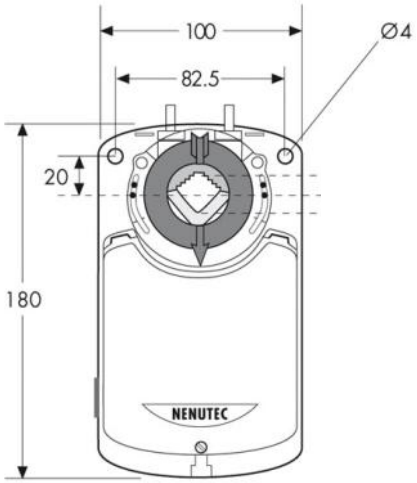
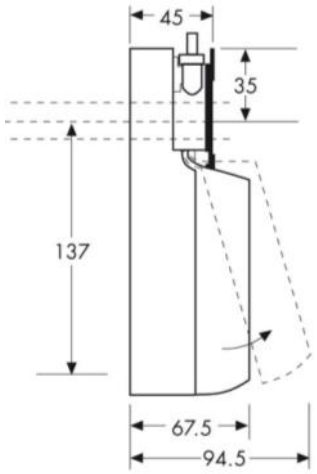
Actuator Dimensions (mm)





Technical Specifications

	NASM 1.1...(S)
Torque	8 Nm / 16 Nm
Damper Size	1.5 m^2 / 3.0 m^2
Shaft dimensions	Ø 10 to 20 mm round / ☐ 10 to 16 mm square
Power Supply	AC/DC 24 V ± 10%
Frequency	50 - 60 Hz
Control Signal (Input)	DC 0(2)...10 V or 0(4)...20 mA
Position Signal (Output)	DC 0...10 V
Power Consumption	
- Operating	8.5 W
- End Position	0.7 W
For Wire Sizing	10.5 VA
Auxiliary Switch Rating	3 (1.5) A, AC 230 V
Protection Class	III ⧫
Angle of Rotation	0°...90° (93° mechanical)
Angle of Limiting	0°...90° in 5° steps
Weight	< 1.2 Kg
Life Cycle	60'000 rotation
Sound Level	50 dB (A)
IP Protection	IP 54 (dust protected & protected against splash water)
Operating Temperature	-20°...+50° C / IEC 721-3-3
Non-Operating Temperature	-30°...+60° C / IEC 721-3-2
Ambient Humidity	5%...95% rH non condensing / EN 60730-1
Maintenance	Maintenance free
Mode of Operation	Type I / EN 60730-1
EMC	CE according to 89 / 336 / EEC

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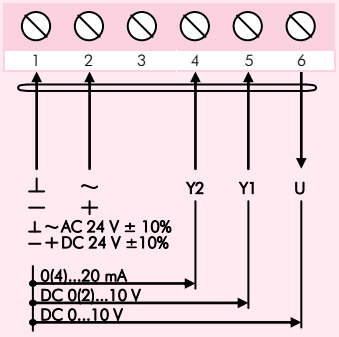
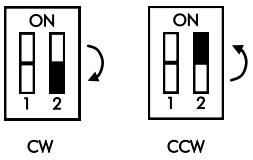
Wiring Diagram NASM 1.1...(S)
Power Supply AC/DC 24 V

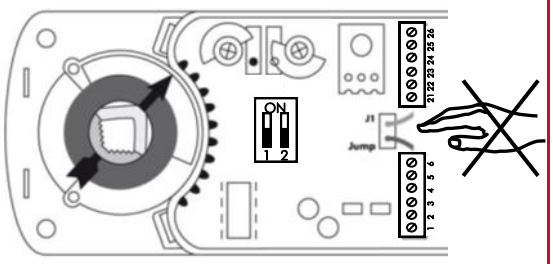


Changing Direction of Rotation NASM 1.1...(S)

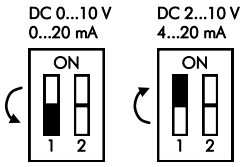


Factory-set CW!

The direction of rotation can be changed by moving the CW/CCW micro switch number 2. **Plug J1/Jump must never be reversed.**



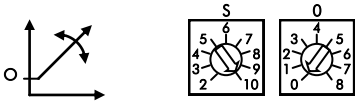
Adjustment of Control Signal NASM 1.1...(S)



The control signal can be changed to DC 2...10 V and 4...20 mA by moving micro switch 1 to the ON position. Calibration with self-adaption.

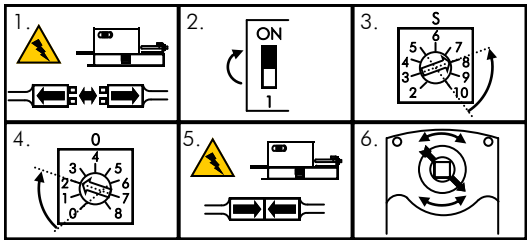
1.1
Control signal Y1 DC 0(2)...10 V
Input resistance Ri 100 kOhm
1.1
Control signal Y2 0(4)... 20 mA
Input resistance Ri 500 Ohm
1.1
Position signal U DC 0...10 V
Load resistance > 50 kOhm

Signal		Pot. p	Pot. p
Y1	= DC0...10V	S = 10	/ 0 = 0
Y1	= DC2...10V	S = 8	/ 0 = 2
Y2	= 0...20mA	S = 10	/ 0 = 0
Y2	= 4...20mA	S = 8	/ 0 = 2

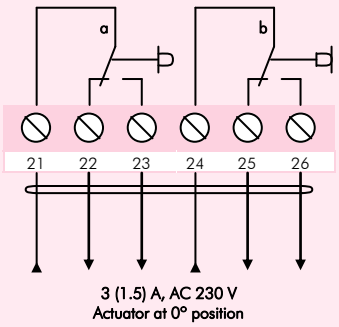


Selection / Adjustment DC 2...10 V or 4...20 mA

1. Turn off the power.
2. Set micro switch 1 to ON
3. Potentiometer S adjust the arrow into 8
4. Potentiometer 0 adjust the arrow into 2
5. Switch on power supply.
6. Wait for self-adaption



Wiring Diagram NASM 1.1...(S)
Auxiliary Switches



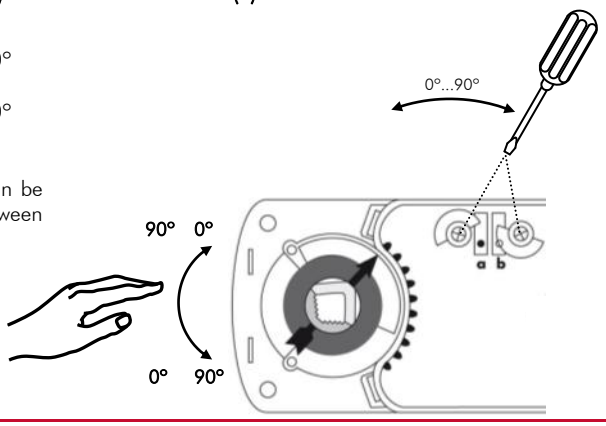
3 (1.5) A, AC 230 V
Actuator at 0° position

Adjustment of Auxiliary Switches NASM 1.1...(S)

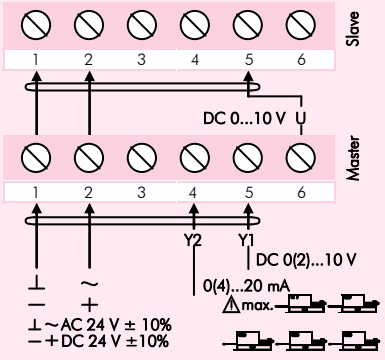
Switch **a** factory-set at 10°

Switch **b** factory-set at 80°

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



Wiring Diagram NASM 1.1...(S)
Parallel Connection



Remark

When NASM...(S) actuators operate in parallel, the output signal U = DC 0...10 V (terminal 6) of the master actuator must be connected to terminal 5 of the next slave actuator.

The power consumption must be observed.

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