

NASM SERIES FAST RUNNING DAMPER ACTUATOR

**Modulating Control
10 Nm**

NENUTEC[®]

INNOVATIVE MEMBER OF SWISS⁺ TEC

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DAMPER ACTUATOR MODEL CHART

MODEL	 NACA	 NACM	 NECA	 NECM	 NASA	 NASM	 NAFA	 SAFA	 SASA	 NSVA
VOLTAGE 230VAC ~ 24VAC/DC	●	●	●	●	●	●	●	●	●	24 VAC
TORQUE (NM)	2 ; 5 ; 10 ; 20 ; 40	2 ; 5 ; 10 ; 20 ; 40	5 ; 10 ; 20	5 ; 10 ; 20	10 ; 20	10 ; 20	3 ; 5 ; 8 ; 20	3 ; 5 ; 8 ; 20	10 ; 15	5
CONTROL	2/3 pts	Modulating	2 pts	Modulating	2/3 pts	Modulating	2 pts SR	2 pts SR	3 pts	Modulating

SPECIAL TYPE

ELECTRONIC RETURN			●	●						
FAST RUNNING					●	●			●	
SPRING RETURN							●			
FIRE & SMOKE SPRING RETURN								●		
SMOKE SAFETY								●	●	
NETWORKING										●

TYPE DESIGNATION

TYPE	ACTUATOR	DESIGNATION	CONTROL	VOLTAGE	DOT	INPUT SIGNAL	HYPHENATED	TOQUE	AUXILIARY SWITCH
N	A	C	M	1	.	1	-	1 0	S1

TYPE	N = Standard Actuator S = Fire & Smoke
ACTUATOR	A = Standard Actuator E = Electronic Return
DESIGNATION	C = Standard Actuator S = Fast Running Actuator F = Spring Back Actuator
CONTROL	A = 2/3 Points M = Modulating
VOLTAGE	1 = 24 VAC/VDC 2 = 230 VAC 3 = 110/120 VAC 4 = 48 VAC

INPUT SIGNAL (NOT APPLICABLE FOR 2/3 POINTS)	1 = 0(2)...10 VDC and 0(4)...20 mA 2 = 0(2)...10 VDC only 3 = 0...135 Ω only 4 = 4...20 mA only
TORQUE	02 = 2 Nm 03 = 3 Nm 05 = 5 Nm 08 = 8 Nm 10 = 10 Nm 15 = 15 Nm 20 = 20 Nm 40 = 40 Nm
AUXILIARY SWITCH / FEEDBACK POTENTIOMETER	None = No Auxiliary or Feedback Potentiometers S1 = 1 x Auxiliary Switch S = 2 x Auxiliary Switches P1 = 1000Ω P2 = 10000Ω P3 = 140Ω

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NASM...10 (S1) SERIES

NENUTEC is proud to offer the 10 and 20 Nm damper actuator of the NASM... 10/20 (S/S1) Series of designed specifically applications into the HVAC and Light Industrial market. NENUTEC high quality actuators have been designed for use with fast running air damper and ball valve application.



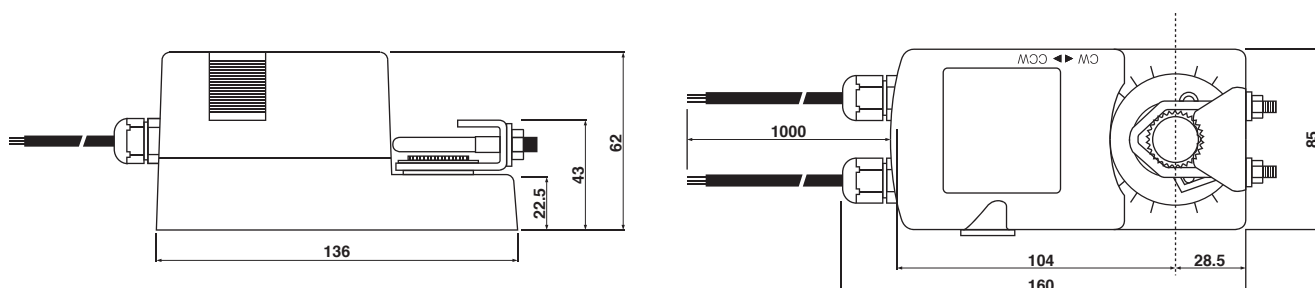
PRODUCT FEATURE

- Torque 10 Nm
- Damper size 2.0 m²
- Power supply AC/DC 24V and AC 230V
- Shaft dimensions - Ø 10...20 mm / □ 5...14 mm
- Minimum Shaft Length 45 mm
- Adjustable angle of rotation
- Selectable direction of rotation of reversing actuator
- Actuator with 1 m cable connection
- Optional 1 Adjustable SPDT auxiliary switches
- Manual over-ride push button when required

MODEL SELECTION TABLE

MODEL / TYPE	TORQUE	POWER SUPPLY	RUNNING TIME	AUXILIARY SWITCH
NASM 1.1-10	10 Nm	AC/DC 24 V ± 10%	15 Sec	-
NASM 1.1-10S1	10 Nm	AC/DC 24 V ± 10%	15 Sec	1 x SPDT (Adjustable)
NASM 2.2-10	10 Nm	AC 230 V ± 10%	15 Sec	-
NASM 2.2-10S1	10 Nm	AC 230 V ± 10%	15 Sec	1 x SPDT (Adjustable)

DIMENSION (mm)



TECHNICAL SPECIFICATION

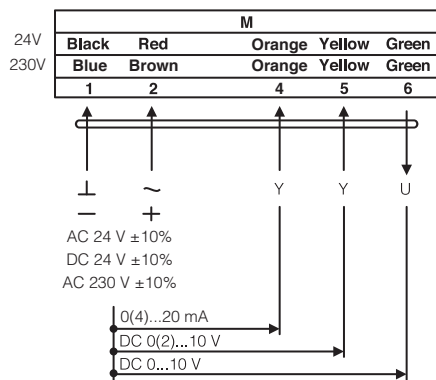
MODEL NUMBER	NASM 1.1-10 (S1)	NASM 2.2-10 (S1)
TORQUE	10 Nm	10 Nm
DAMPER SIZE	2.0 m ²	2.0 m ²
SHAFT DIMENSION	Ø 10...20 mm / □ 5...14 mm	Ø 10...20 mm / □ 5...14 mm
POWER SUPPLY	AC/DC 24 V ± 10%	AC 230 V ± 10%
FREQUENCY	50...60 Hz	50...60 Hz
CONTROL SIGNAL	2 & 3 point control	2 & 3 point control
POWER CONSUMPTION		
● OPERATING	6.0 W	6.0 W
● END POSITION	2.0 W	2.0 W
FOR WIRE SIZING	6.5 VA	6.5 VA
ELECTRICAL CONNECTION	1 m Cable	1 m Cable
AUXILIARY SWITCH RATING	3 (1.5) A, AC 250 V	3 (1.5) A, AC 250 V
PROTECTION CLASS	Class III ⚡	Class II ⚡
ANGLE OF ROTATION	90° (95° mechanical)	90° (95° mechanical)
WEIGHT	< 1.0 Kg	< 1.0 Kg
LIFE CYCLE	60,000 Rotation	60,000 Rotation
SOUND LEVEL	45 dB	45 dB
IP PROTECTION	IP54	IP54
OPERATING TEMPERATURE	-20°...50° as per IEC 721-3-3	-20°...50° as per 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	5%...95% rH non condensing / EN
MAINTENANCE	Maintenance Free	Maintenance Free
MODE OF OPERATION	Type I / EN 60730-1	Type I / EN 60730-1
EMC	CE & ISO 9000 EN / EEC	CE & ISO 9000 EN / EEC

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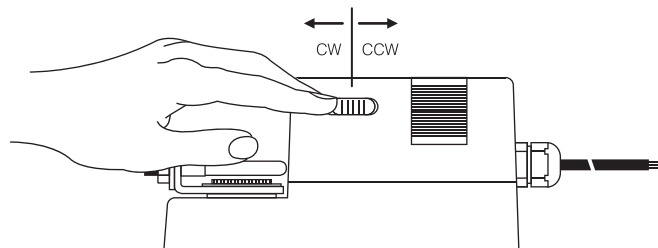
WIRING DIAGRAM NASM...10 (S1) POWER SUPPLY AC/DC 24V - AC 230V



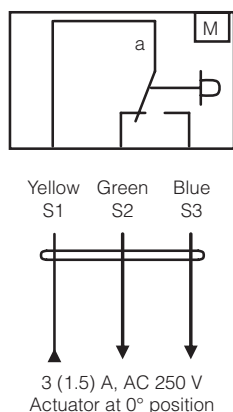
DIRECTION OF ROTATION NASM...10 (S1)

Default factory setting: CW.

Direction of rotation can be change by toggling between CW/CCW switch on the actuator's housing.



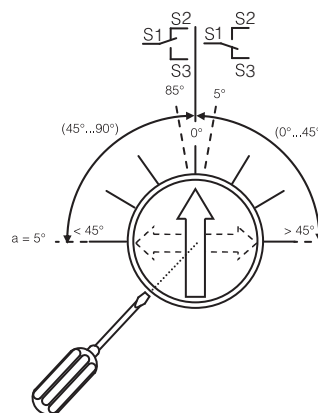
WIRING DIAGRAM NASM...10 (S1) AUXILIARY SWITCH



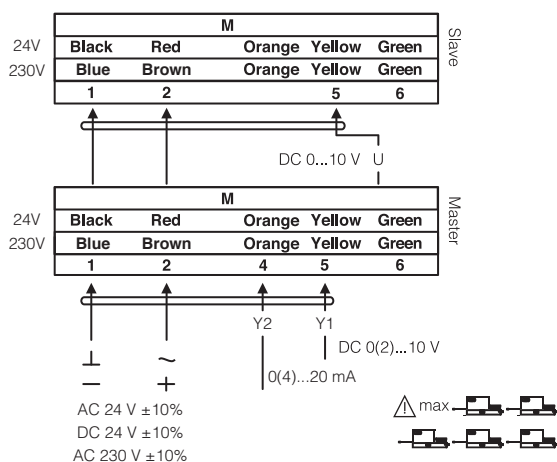
AUXILIARY SWITCH NASM...10 (S1)

Switch **a** factory-set at 5°.

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



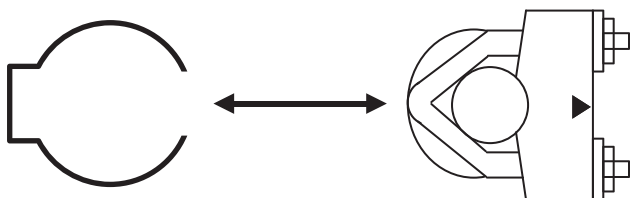
WIRING DIAGRAM NASM...10 (S1) PARALLEL CONNECTION



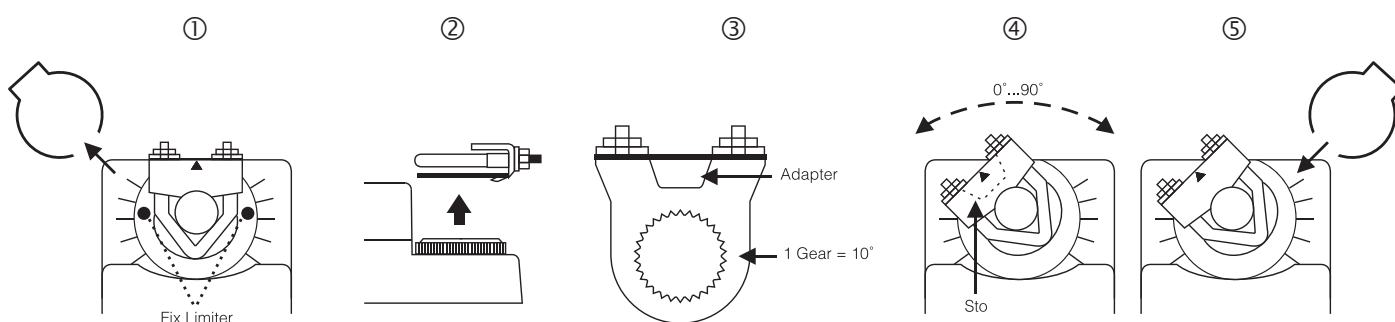
REMARK

Parallel connection of NASM...10 (S1) actuators are limited to 5. Power consumption must be observe.

RELEASING THE ADAPTER NASM...10 (S1)



LIMITING ANGLE OF ROTATION NASM...10 (S1)



IMPORTANT REMARK

For special requirement, consult your local Nenutec's representative.



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:
AC 230 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 3mm contact gap.)

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.