NACA...20 (S) SERIES

STANDARD DAMPER ACTUATOR 2/3 POINT CONTROL



NACA...20 (S) 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.

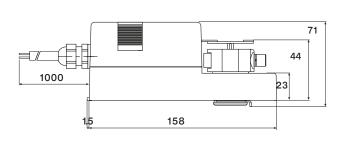
PRODUCT FEATURE

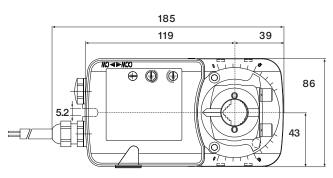
- Torque 20 Nm
- Damper size 4.0 m²
- Power supply AC/DC 24V or AC 230V
- Shaft dimensions Ø 12...20 mm / □ 8.5...14 mm
- Minimum shaft length 50 mm
- Adjustable angle of rotation
- Selectable direction of rotation of reversing actuator
- Optional 2 adjustable SPDT auxiliary switches
- Manual over-ride push button when required
- Mounting bracket required for valve body

MODEL SELECTION TABLE

MODEL / TYPE	TORQUE	POWER SUPPLY	RUNNING TIME	AUXILIARY SWITCH
NACA 1-20	20 Nm	AC/DC 24 V ± 10%	100150 sec	-
NACA 1-20S	20 Nm	AC/DC 24 V ± 10%	100150 sec	2 x SPDT (Adjustable)
NACA 2-20	20 Nm	AC 230 V ± 10%	100150 sec	-
NACA 2-20S	20 Nm	AC 230 V ± 10%	100150 sec	2 x SPDT (Adjustable)

DIMENSION (mm)





TECHNICAL SPECIFICATION

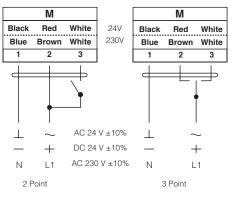
MODEL NUMBER	NACA 1-20 (S)	NACA 2-20 (S)	
TORQUE	20 Nm	20 Nm	
DAMPER SIZE	4.0 m ²	4.0 m ²	
SHAFT DIMENSION	Ø 1220 mm / □ 8.514 mm*	Ø 1220 mm / □ 8.514 mm*	
POWER SUPPLY	AC/DC 24 V ± 10%	AC 230 V ± 10%	
FREQUENCY	5060 Hz	5060 Hz	
CONTROL SIGNAL	2/3 point control	2/3 point control	
POWER CONSUMPTION			
• OPERATING	4.0 W	1.0 W	
END POSITION	2.0 W	1.0 W	
FOR WIRE SIZING	6.0 VA	6.0 VA	
ELECTRICAL CONNECTION	1 m Cable	1 m Cable	
AUXILIARY SWITCH RATING	2 (1.5) A, AC 250 V	2 (1.5) A, AC 250 V	
PROTECTION CLASS	Class III 🕸	Class II 🛛	
ANGLE OF ROTATION	90° (95° mechanical)	90° (95° mechanical)	
WEIGHT	1.2 Kg	1.2 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	

*Note that shaft dimension has a tolerance offset of \pm 0.2mm.

NACA...20 (S) SERIES

STANDARD DAMPER ACTUATOR 2/3 POINT CONTROL

WIRING DIAGRAM NACA...20 (S) POWER SUPPLY AC/DC 24V OR AC 230V

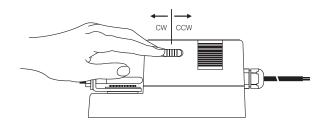


A Connect via safety isolating transformer

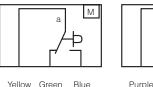
DIRECTION OF ROTATION NACA...20 (S)

Default factory setting: CW.

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

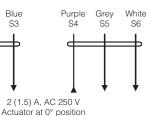


WIRING DIAGRAM NACA...20 (S) AUXILIARY SWITCH

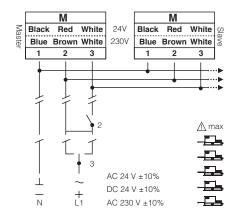




Yellow Green Blue S1 S2 S3



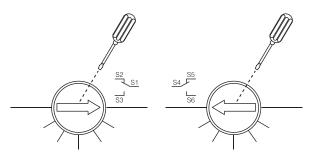
WIRING DIAGRAM NACA...20 (S) PARALLEL CONNECTION



AUXILIARY SWITCH NACA...20 (S)

Auxiliary switch (a) factory-set at 5° and (b) at 85°.

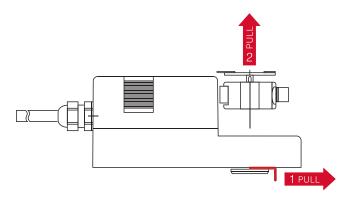
Both the auxiliary switches (a) and (b) can be optimally adjusted between $0^{\circ}...90^{\circ}$.

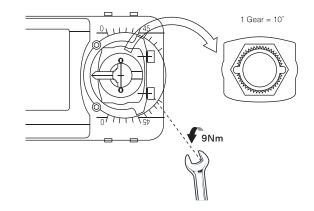


REMARK

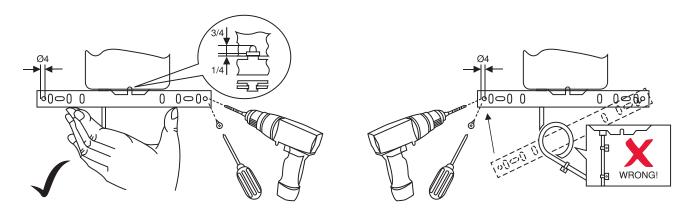
Parallel connection of NACA...20 (S) actuators are limited to 5. Power consumption must be observe.

ANGLE OF ROTATION LIMITING





INSTALLATION / MOUNTING INSTRUCTION



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.



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.