

NAFA – SPRING RETURN DAMPER ACTUATOR

5 Nm | 2-POINT CONTROL, SPRING RETURN



The appearance of the product may differ from the illustration. Technical specifications are subject to change.

NAFA...05 (S1) SERIES

NAFA series Spring Return actuators are developed for general air damper application, rotary valve and other devices which require a failsafe function. During normal operation, the actuator motorized the device. In the event of power outage, the actuator springs back to its original position.

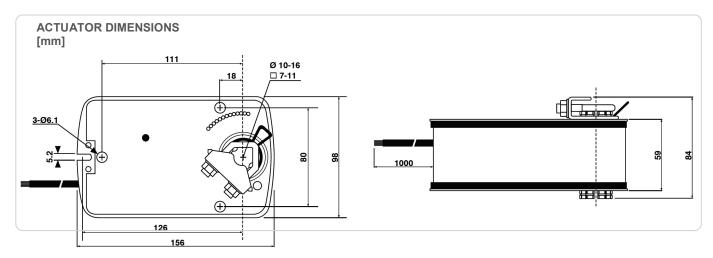
	Torque: 5 Nm
	Damper size 1.0 m ²
	Power supply 24 V _{AC/DC} and 230 V _{AC}
	2-point control
	Shaft dimensions – Ø 1016 mm / square 711 mm
	Minimum shaft length 40 mm
•	Adjustable angle of rotation
•	Direction of rotation selectable by reversing actuator during installation
_	Actuator with 1 m connection cable
•	Optional 1 adjustable SPDT auxiliary switch

MODEL SELECTION TABLE						
Model/type	Torque	Power supply	Running time	Auxiliary switches		
NAFA 1-05	5 Nm	24 V _{AC/DC} ± 10%	5080 s (spring return <25 s)			
NAFA 1-05S1	5 Nm	$24 V_{AC/DC} \pm 10\%$	5080 s (spring return <25 s)	1 x SPDT (adjustable)		
NAFA 2-05	5 Nm	230 V _{AC} ± 10%	5080 s (spring return <25 s)			
NAFA 2-05S1	5 Nm	$230 V_{AC} \pm 10\%$	5080 s (spring return <25 s)	1 x SPDT (adjustable)		



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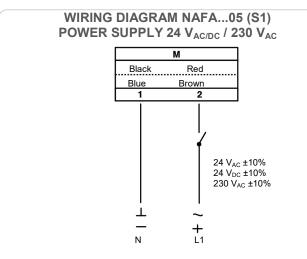


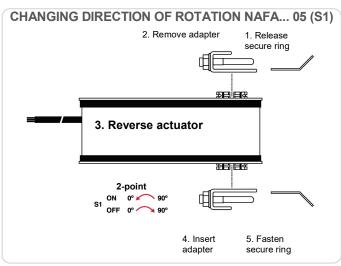
	NAFA 1-05 (S1)	NAFA 2-05 (S1)
orque	5 Nm	5 Nm
Damper size	1.0 m²	1.0 m ²
Shaft dimensions	Ø 1016 mm / □ 711 mm	Ø 1016 mm / 🗆 711 mm
Power supply	24 V _{AC/DC} ± 10%	230 V _{AC} ± 10%
Frequency	5060Hz	5060Hz
Control signal	2-point control	2-point control
Power consumption		
In operation	7.2 W	7.2 W
End position	2.5 W	2.5 W
Rated power	10.0 VA	10.0 VA
Electrical connections	Cable 1 m	Cable 1 m
Auxiliary switch rating	3 (1.5) A / 250 V _{AC}	3 (1.5) A / 250 V _{AC}
Protection class	Class III ⊕	Class II 🔲
Angle of rotation	90° (95° mechanical limitation)	90° (95° mechanical limitation)
Weight	<1.8 kg	<1.8 kg
Durability	60,000 rotations	60,000 rotations
Sound level	40 dB	40 dB
IP protection class	IP54	IP54
Working temperature range	-20°C50°C as per IEC 721-3-3	-20°C50°C as per IEC 721-3-3
Storage temperature	-30°C+60°C / IEC 721-3-2	-30°C+60°C / IEC 721-3-2
Ambient humidity	595% rH (non condensing) / EN	595% rH (non condensing) / EN
Maintenance	Maintenance free	Maintenance free
Principle of operation	Type 1 (acc. to EN 60730-1)	Type 1 (acc. to EN 60730-1)
Electromagnetic compatibility	CE & ISO 9000 to EN / EEC	CE & ISO 9000 to EN / EEC

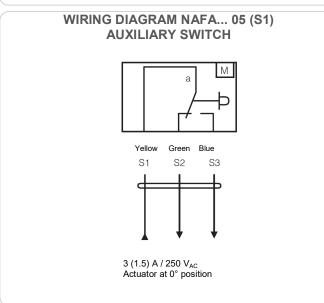


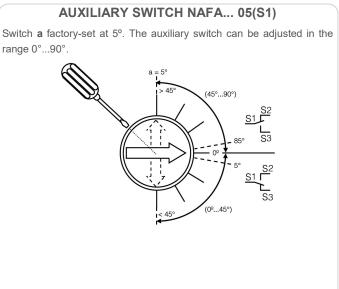
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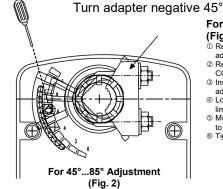
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Angle of rotation limiting 5°...85° adjustment For 5°...45° Adjustment (Fig. 1) Secure ring ① Loosen screw of the mechanical limiter

- plate.
 ② Move the limiter plate to the appropriate
- position.

 3 Tighten the screw.





For 45°...85° Adjustment (Fig. 2) ① Release the secure ring of the

- adapter.
- 2 Remove the adapter and turn it CCW 45° as shown.
- 3 Insert adapter and secure the adapter.

 4 Loosen screw of the mechanical
- limiter plate.

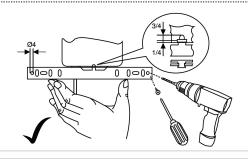
 S Move the limiter plate
- to the appropriate position.

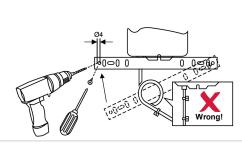
 © Tighten the screw.

Installation instruction

For 5°...45° Adjustment

(Fig. 1)





! IMPORTANT REMARKS

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

24 V_{AC/DC}: 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.) 230 V_{AC}:

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

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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



NENUTEC offers you actuators in customised versions, e.g. with your own brand name, with colourcoordinated applications and with your particular demand on request.

For further information please contact us or our local representative.

Nenutec Polska

00-236 Warszawa ul. Świętojerska 5/7 tel.: +48-(0)-504-050225 nenutec@nenutec.pl

www.nenutec.pl