**DAMPER ACTUATOR** 

# NAFA 5Nm Spring Return Damper Actuator

2 Point Spring Return Control

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

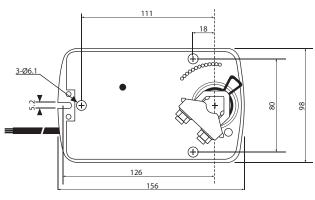
### **Features**

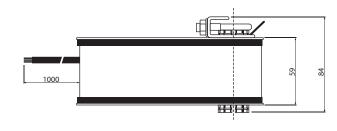
- Torque 5 Nm
- Damper size 0.6 m<sup>2</sup> (Normal on-off application)
- Power supply AC/DC 24V and AC 230 V
- Shaft dimensions 11 mm hexagonal
- Minimum Shaft Length 40 mm
- Adjustable angle of rotation
- Selectable direction of rotation of reversing actuator
- Actuator with 1 m cable connection
- Optional 1 Adjustable SPDT auxiliary switch

MODEL / TYPE	TORQUE	POWER SUPPLY	RUNNING TIME	Model/Type
NAFA 1-05	5 Nm	AC/DC 24 V ± 10%	5070 sec (Spring Back <20 sec)	-
NAFA 1-05S1	5 Nm	AC/DC 24 V ± 10%	5070 sec (Spring Back <20 sec)	1 x SPDT (Adjustable)
NAFA 2-05	5 Nm	AC 230 V ± 10%	5070 sec (Spring Back <20 sec)	-
NAFA 2-05S1	5 Nm	AC 230 V ± 10%	5070 sec (Spring Back <20 sec)	1 x SPDT (Adjustable)

### **Model Selection Table**

## Model Selection Table







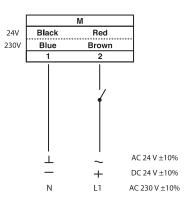
# NAFA 5Nm Spring Return Damper Actuator 2 Point Spring Retrun Control

# **Technical Specification**

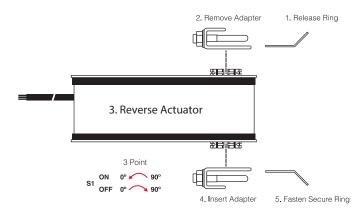
	NAFA 1-05 (S1)	NAFA 2-05 (S1)		
Torque	5 Nm			
Damper size	0.6 m <sup>2</sup>			
Shaft dimensions	11mm hexagonal			
Power supply	AC/DC 24 V ± 10%	AC 230 V ± 10%		
Frequency	5060 Hz			
Control Signal	2 point control			
POWER CONSUMPTION				
- Operating	7.2 W	4.2 W		
- End position	2.5 W	2.5 W		
For wire sizing	10.0 VA			
Electrical Connection	1 m Cable			
Auxiliary Switches Rating	3 (1.5) A, AC 250 V			
Protection Class	Class II	Class II		
Angle of rotation	90° (95° mechanical)			
Weight	1.8 Kg	1.8 Kg		
Life cycle	60,000 rotation			
Sound level	45 dB			
IP protection	IP54			
Operating Temperature	-20°50° as per IEC 721-3-3			
Non-Operating Temperature	-30°+60° C / IEC 721-3-2			
Ambient Humidity	5%95% rH non condensing / EN			
Maintenance	Maintenance Free			
Mode of Operation	Type I / EN 60730-1			
EMC	CE & ISO 9000 EN / EEC			

## Wiring Diagram

#### WIRING DIAGRAM NAFA...05 (S1) POWER SUPPLY AC/DC 24 V / AC 230V



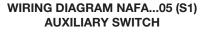
#### CHANGING DIRECTION OF ROTATION NAFA...05 (S1)

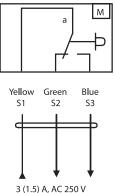




All stated specifications are updated at the printing date and subject to change without notice or obligation. The actual product might differ from pictures shown.

# NAFA 5Nm Spring Return Damper Actuator 2 Point Spring Retrun Control

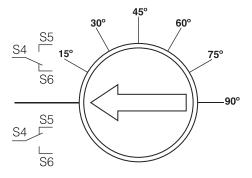




3 (1.5) A, AC 250 V Actuator at 0° position

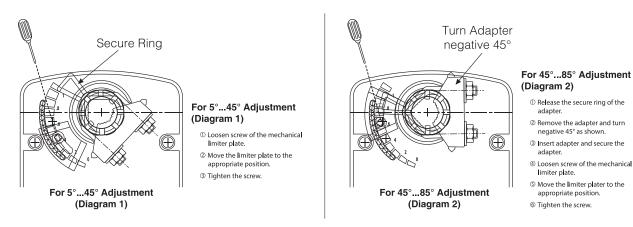
#### AUXILIARY SWITCH NAFA...05 (S1)

Built-in Micro Switch Adjustment. Turn the screw from 0°...90° according to the scale.



Switch adjustable 0°...90°

### Angle Of Rotating Limitating 5°...85° Adjustment



# Angle Of Rotating Limitating 5°...85° Adjustment

