

4 Nm (motor) / 3 Nm (spring return) | 2-POINT CONTROL | SPRING RETURN



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

SAFA SERIES

SAFA series Spring Return damper actuators are designed specifically for fire and smoke application. During normal operation, the actuator positions a damper according to the control signal. In the event of fire emergency, the spring return drives back actuator to its original position when there is power outage or thermal sensor is tripped.

	Torque: 4 Nm (motor) / 3 Nm (spring return)
	Damper size 0.6 m ²
	Power supply 24 $V_{\text{AC/DC}}$ and 230 V_{AC}
	Shaft dimensions – form fit 12 mm square
	Adapter supplied for from fit 8 or 10 mm square
	Selectable direction of rotation
	Actuator with 1 m connection cable.
	2 Fixed auxiliary switches (SPDT)
	Manual override by crank handle when required
	Thermal sensor option available
	Anti rotation bracket provided

Model/type	Torque motor / spring return	Power supply	Running time	Auxiliary switches	Thermoelectrical tripping device
SAFA 1-03S	4 Nm / 3 Nm	24 V _{AC/DC} ± 10%	2535 s (spring return <12 s)	2 x SPDT (fixed)	-
SAFA 1-03ST	4 Nm / 3 Nm	24 V _{AC/DC} ± 10%	2535 s (spring return <12 s)	2 x SPDT (fixed)	Yes
SAFA 2-03S	4 Nm / 3 Nm	230 V _{AC} ± 10%	2535 s (spring return <12 s)	2 x SPDT (fixed)	-
SAFA 2-03ST	4 Nm / 3 Nm	230 V _{AC} ± 10%	2535 s (spring return <12 s)	2 x SPDT (fixed)	Yes



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TECHNICAL SPECIFICATION

	SAFA 1-03S (T)	SAFA 2-03S (T)
Torque	4 Nm (motor) / 3 Nm (spring return)	4 Nm (motor) / 3 Nm (spring return)
Damper size	0.6 m ²	0.6 m ²
Shaft dimensions	Form fit 12 mm square	Form fit 12 mm square
Control signal	Modulating control	
Power supply	24 V _{AC/DC} ± 10%	230 V _{AC} ± 10%
Frequency	5060 Hz	5060 Hz
Power consumption		
In operation	7.0 W	7.0 W
End position	2.5 W	2.5 W
Rated power	10.0 VA	10.0 VA
Electrical Connection	1 m Cable	1 m Cable
Auxiliary switches 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 limitation)	90° (95° mechanical limitation)
Trigger temperature of thermal sensor	> 72°C	> 72°C
Weight	1.8 kg	1.9 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, UL 873 & ISO 9000 EN / EEC	CE, UL 873 & ISO 9000 EN / EEC

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the phase conductor (with at least a 3mm contact gap.)

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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.

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