

20 Nm | 2-POINT CONTROL | SPRING RETURN



# SAFA...20S (T) 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: 20 Nm
Damper size 4.0 m <sup>2</sup>
Power supply 24 $V_{\mbox{\scriptsize AC/DC}}$ and 230 $V_{\mbox{\scriptsize AC}}$
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 for stability

Model/type	Torque motor / spring return	Power supply	Running time	Auxiliary switches	Thermoelectrical tripping device
SAFA 1-20S	20 Nm	24 V <sub>AC/DC</sub> ± 10%	110140 s (spring return <30 s)	2 x SPDT (Fixed)	-
SAFA 1-20ST	20 Nm	24 V <sub>AC/DC</sub> ± 10%	110140 s (spring return <30 s)	2 x SPDT (fixed)	Yes
SAFA 2-20S	20 Nm	230 V <sub>AC</sub> ± 10%	110140 s (spring return <30 s)	2 x SPDT (fixed)	-
SAFA 2-20ST	20 Nm	230 V <sub>AC</sub> ± 10%	110140 s (spring return <30 s)	2 x SPDT (fixed)	Yes



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#### **TECHNICAL SPECIFICATION**

	SAFA 1-20S (T)	SAFA 2-20S (T)
Torque	20 Nm	20 Nm
Damper size	4.0 m <sup>2</sup>	4.0 m <sup>2</sup>
Shaft dimensions	Form fit 12 mm square	Form fit 12 mm square
Control signal	2 point control	2 point control
Power supply	$24 V_{AC/DC} \pm 10\%$	$230 V_{AC} \pm 10\%$
Frequency	5060 Hz	5060 Hz
Power consumption		
In operation	12.0 W	12.0 W
End position	2.4 W	2.4 W
Rated power	12.0 VA	12.0 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	2.7 kg	2.8 kg
Durability	60,000 rotations	60,000 rotations
Sound level	40 dB	40 dB
IP protection class	IP54	IP54
Working temperature range	-20°C50C° 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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