



## SPRING RETURN ACTUATORS FOR FIRE DAMPERS (20 Nm)

DB-SF..

### FUNCTION

On / Off spring return for fire damper control with two switches. The actuator opens the damper loading the return spring: when current is cut-off the spring moves the damper in a safe position. The actuator can be controlled manually by a suitable crank, loading at the same time the spring. It remains then in the position set by hand.

DB-SF...TA/12 models have a thermic device that closes the damper when the temperature reaches 72 °C.

### APPLICATIONS

Designed for applications in security dampers used as anti-freeze, antismoke function or seal in the hygienic-sanitary field.

TYPE	Nm	POWER SUPPLY	ANGLE ROTATION	THERMAL PROTECTION
DB-SF1.90/12	20	24 Vac/Vdc	90°	-
DB-SF1.90TA/12	20	24 Vac/Vdc	90°	72° on the duct
DB-SF2.90/12	20	230 Vac	90°	-
DB-SF2.90TA/12	20	230 Vac	90°	72° on the duct

Actuator	DB-	90° /20 Nm
Torque	Nm	20
Damper area (*)	m <sup>2</sup>	3
Torque spring return	Nm	15
Power supply	V	24 Vac/dc±20% 230 Vac ±15%
Frequency	Hz	50...60
Power consumption		24 V max 6.5 W / 8.5 VA
- operating		230 V max 9.0W / 10.0 VA
Cable connection		0.9 m / 0.75 mm <sup>2</sup>
Running time		
- motor	s	150
- spring	s	max 20
Weight	g	2500
Shaft		□12 mm
Rotation angle:		
- working range		90°
Auxiliary switches		2 x 5 A / AC 230 V
Direction of rotation		bidirectional
Protection class (24 Vac/dc / 230 Vac)		III / II
Degree of protection		IP54
Room temperature		-20 ... +50 °C
Room humidity		5...95% r.h.
Sensor action (**)		72 °C
Noise level		
- motor		< 45 dB
- spring		< 65 dB
Standards		CE

(\*) the indication of the damper area is not significant, the data that must be taken into account is the value of the torque in Nm.

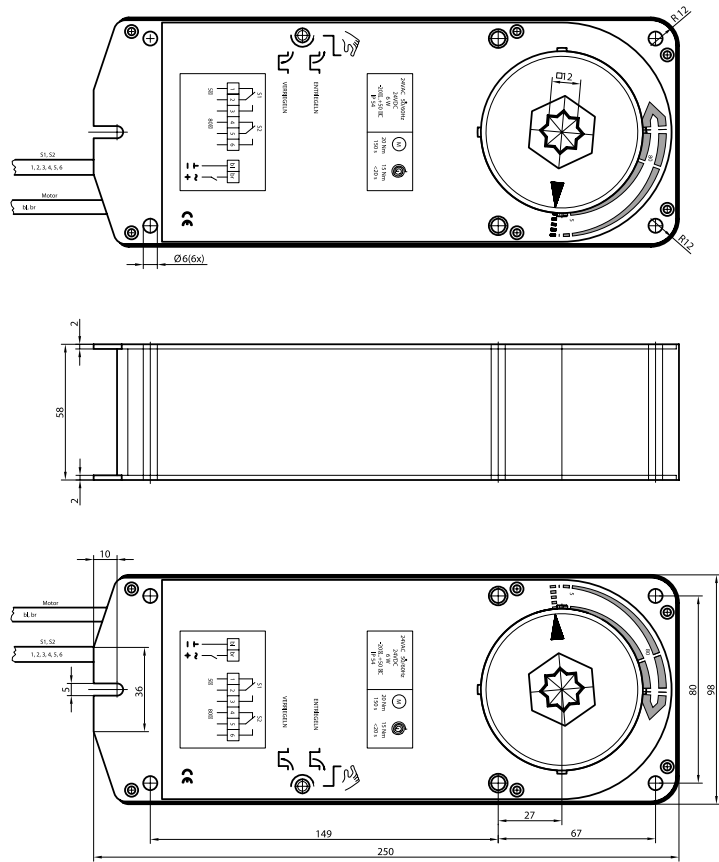
(\*\*) for models ...TA/12



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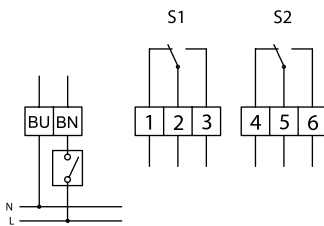
DB-SF..

## DIMENSIONS (mm)



## Wiring diagram with 2 auxiliary switches

DB-SF..



thermal sensor for model DB-SF..TA ..

DB-SF..TA ..

