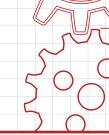


2 Point & 3 Point Control
10 Nm



## **SA...10 (S) SERIES**

Swisotec is proud to offer the 10 and 20 Nm damper actuator of the SA... 10/20 (S) Series of designed specifically applications into the HVAC and Light Industrial market. Swisotec high quality actuators have been designed for use with fast running air damper and ball valve application.

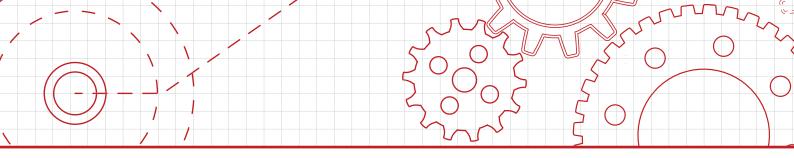


### PRODUCT FEATURE

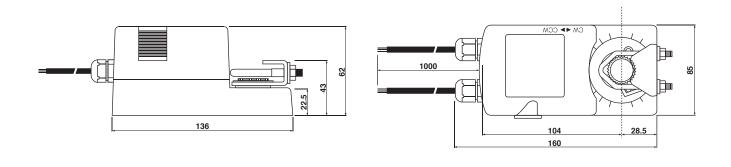
- Torque 10 Nm
- Damper size 2.0 m<sup>2</sup>
- Power supply AC/DC 24V and AC 230V
- Shaft dimensions Ø 10...16 mm / □ 7...12 mm
- Minimum Shaft Length 45 mm
- Adjustable angle of rotation
- Selectable direction of rotation of reversing actuator
- Actuator with 1 m cable connection
- Optional 2 SPDT auxiliary switches
- Manual over-ride push button when required

### **MODEL SELECTION TABLE**

MODEL/TYPE	TORQUE	POWER SUPPLY	RUNNING TIME	AUXILIARY SWITCH
SA 1-10	10 Nm	AC/DC 24 V ± 10%	< 10 sec	-
SA 1-10S	10 Nm	AC/DC 24 V ± 10%	< 10 sec	2 x SPDT (1 Fixed & 1 Adjustable)
SA 2-10	10 Nm	AC 230 V ± 10%	< 10 sec	-
SA 2-10S	10 Nm	AC 230 V ± 10%	< 10 sec	2 x SPDT (1 Fixed & 1 Adjustable)



## **DIMENSION (mm)**



## **TECHNICAL SPECIFICATION**

MODEL NUMBER	SA 1-10 (S)	SA 2-10 (S)
TORQUE	10 Nm	10 Nm
DAMPER SIZE	2.0 m <sup>2</sup>	2.0 m <sup>2</sup>
SHAFT DIMENSION	Ø 1016 mm / □ 712 mm*	Ø 1016 mm / 🗆 712 mm*
POWER SUPPLY	AC/DC 24 V ± 10%	AC 230 V ± 10%
FREQUENCY	5060 Hz	5060 Hz
CONTROL SIGNAL	2 & 3 point control	2 & 3 point control
POWER CONSUMPTION		
OPERATING	5.5 W	5.5 W
END POSITION	2.0 W	2.0 W
FOR WIRE SIZING	8.0 VA	8.0 VA
ELECTRICAL CONNECTION	1 m Cable	1 m Cable
AUXILIARY SWITCHES RATING	2 (1.5) A, AC 250 V	2 (1.5) A, AC 250 V
PROTECTION CLASS	Class III Ф	Class II 🗆
ANGLE OF ROTATION	90° (95° mechanical)	90° (95° mechanical)
WEIGHT	1.0 Kg	1.0 Kg
LIFE CYCLE	60,000 Rotation	60,000 Rotation
SOUND LEVEL	45 dB	45 dB
IP PROTECTION	IP54	IP54
OPERATING TEMPERATURE	-30°50° as per IEC 721-3-3	-30°50° as per IEC 721-3-3
NON-OPERATING TEMPERATURE	-30°+60° C / IEC 721-3-2	-30°+60° C / IEC 721-3-2
AMBIENT HUMIDITY	5%95% rH non condensing / EN	5%95% rH non condensing / EN
MAINTENANCE	Maintenance Free	Maintenance Free
MODE OF OPERATION	Type I / EN 60730-1	Type I / EN 60730-1
EMC	CE & ISO 9000 EN / EEC	CE & ISO 9000 EN / EEC

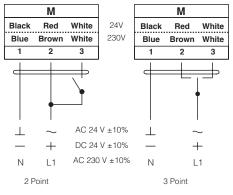
<sup>\*</sup>Note that shaft dimension has a tolerance offset of  $\pm$  0.2mm.

# SA SERIES

### FAST RUNNING DAMPER ACTUATOR

2 Point & 3 Point Control
10 Nm

# WIRING DIAGRAM SA...10 (S) POWER SUPPLY AC/DC 24V OR AC 230V

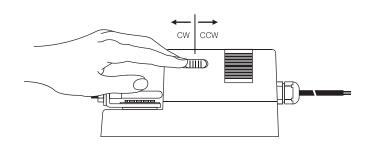


↑ Connect via safety isolating transformer

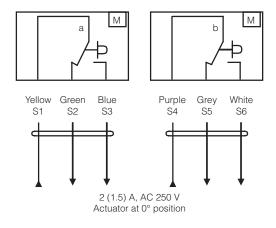
#### **DIRECTION OF ROTATION SA...10 (S)**

Default factory setting: CW.

Direction of rotation can be change by toggling between CW/ CCW switch on the actuator's housing.



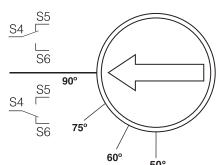
# WIRING DIAGRAM SA...10 (S) AUXILIARY SWITCH



#### **AUXILIARY SWITCH SA...10 (S)**

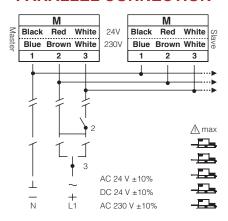
Switch **a** factory-set at <5°.

The auxiliary switch  $\boldsymbol{b}$  can be optimally adjusted between  $0^{\circ}...90^{\circ}.$ 



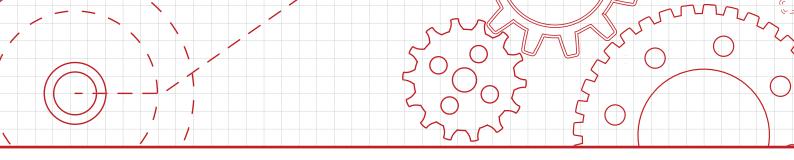
Switch **a** factory set at 5° Switch **b** adjustable 0°...90°

# WIRING DIAGRAM SA...10 (S) PARALLEL CONNECTION

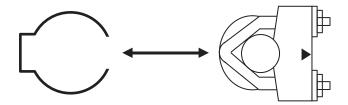


#### **REMARK**

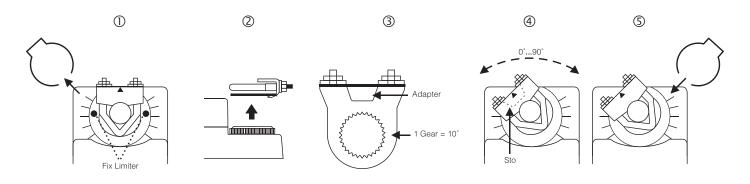
Parallel connection of SA...10 (S) actuators are limited to 5. Power consumption must be observe.



### **RELEASING THE ADAPTER**



### LIMITING ANGLE OF ROTATION



#### **IMPORTANT REMARK**

For special requirement, consult your local Swisotec's representative.



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



AC / DC 24 V: AC 230 V:

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.)

The performance specifications are nominal and conform to acceptable industry standards. Swisotec shall not be liable for damages resulting from misapplication or misuse of its products