



Industrial Fail Safe Actuator IP66 On/Off, 20Nm, Approx 4m2

FSO

April.08



CE

FSO

Features

- Brushless DC-motor - no wear and tear
- Wide supply voltage range
- Automatic shutoff either when reaching program hard-stop or when reaching mechanical end-stop
- No return voltage
- Innovative solution for 100% self-locking
- Simple one-handed manual positioning
No disengaging of gears required
- Centric clamping adapter as a standard feature
- Form fit adapter available in different sizes
- Special solutions for aggressive environments available upon request
- Very quiet operation
- Constant running time, independent of load
- Constant torque throughout the entire operating range
- Direct mounting even in limited spaces
- Positioning of the actuator can be achieved via the enclosed antirotation strap or by using additional screws

Technical Data

Power supply	24Vac +/-20% 50/60Hz 24Vdc +/-10% 230Vac 50/60Hz (90 to 264V)
Starting current	max 6A 20Nm
Synchronization	+/-5%
Power consumption	FSO 204P 20VA/12W FSO 203P 24VA/16W
Protection class	
24V	III safety extra low voltage
230V	II protective insulation
Electrical connection	Cable 0,9m, 2 x 0,75mm ²
Direction of rotation	Selected by Switch L / R (ccw/cw) or by mounting L/R
Manual override	One-handed positioning Without disengaging of gears
Angle of rotation	Maximum 95°
Shaft mounting	Ø/Square 12-26 mm
Running time	90 s (± 5%), independent of load Spring return approx. 20s, room temp.
Noise level	< 35 dB (A), Spring return < 60 dB (A)
Position indication	Mechanical
Ambient temperature	-30...+ 50°C
Storage temperature	-40...+ 80°C
Ambient humidity	5...95% rH
EMC	EN60730-1, EN60730-2, EN55022 ClassB, EN55014, EN61000
Weight	Approx.2500gram
Maintenance	Maintenance free
Standards	The actuators meet CE requirements (EN 60730-1)

Usage

The FSO are intended to be used for operation of dampers, valves and other process control system.

The FSO are equipped with a mechanical spring that ensures a failsafe opening or closing of the damper or valve in case of a power supply interruption..

An enclosed anti-rotation strap ensures that the actuator remains in a defined position.

Ordering

FSO 204P	Damper Motor Fail Safe 20Nm 24Vac/dc
FSO 203P	Damper Motor Fail Safe 20Nm 230Vac
AUX 1SW	Integrated Auxiliary switches 1 x SPDT
AUX 2SW	Integrated Auxiliary switches 2 x SPDT
AGGR 02	Supplement for aggressive environmental

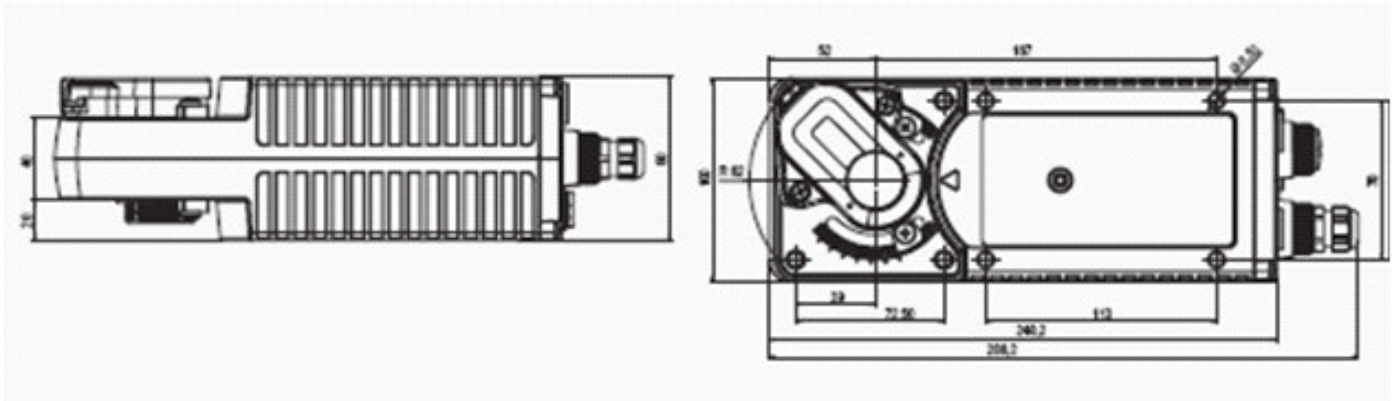


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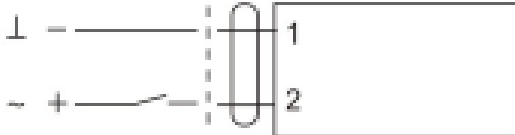
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Dimensions

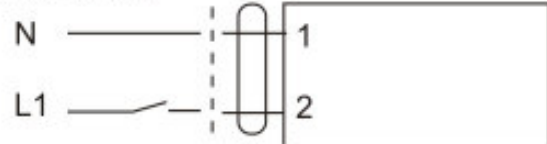


Wiring Schematics

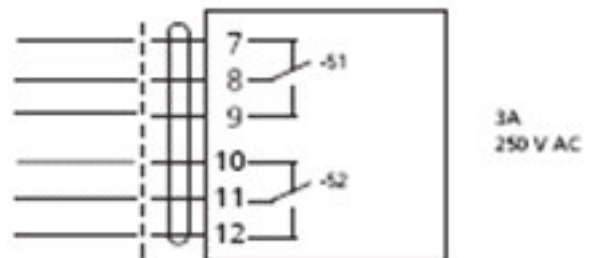
24V AC/DC



120/230V AC



Integrated
auxiliary switches



Integrated
potentiometer

