

## USE

The servomotor SM 500 operates **IDROSFER** two and three way ball valves:  
**ART. 95 from DN 65 to DN 100**  
**ART. 105 -2"1/2 -3"**  
**ART. 88-89 DN 80**  
**ART. 92-93 from DN 1"1/2**

The valve and the servomotor are connected by means of **ISO F05 □14** flanges.

## COMPONENTS

Except for the cap, which is made of polyamide resin according to **UL 94 VO**, the servomotor 500 is fully constructed in die-cast aluminium with epoxy varnishing.

The gears are made of heat-treated aluminium, self-lubricating bushings.

The servomotor is fitted with two cable clamp **PG11** made in self-extinguishing polyamide.

The product complies with the main requirements of the Directives:

CEE 89/336 - 73/23 - 93/68 ; UE 2002/95/EC ; UE 2002/96/EC (ROHS and WEEE).

## OPERATION

The reversible synchronous electric motor is driven by an three-step output from:

- **ON-OFF** controller (thermostat, remote control switch, manual commutator);
- Modulating controller with output **OPEN-STOP-CLOSE**.

The model with incorporated auxiliary relay (SM500R) is ideal to be driven by a controller with break output contact.

Two auxiliary microswitch with output with three potential-free steps is included in the kit.

The angular stroke is set at **90°** in factory.

Using the cams you can change it within the range **0°-180°**.

## WARNING

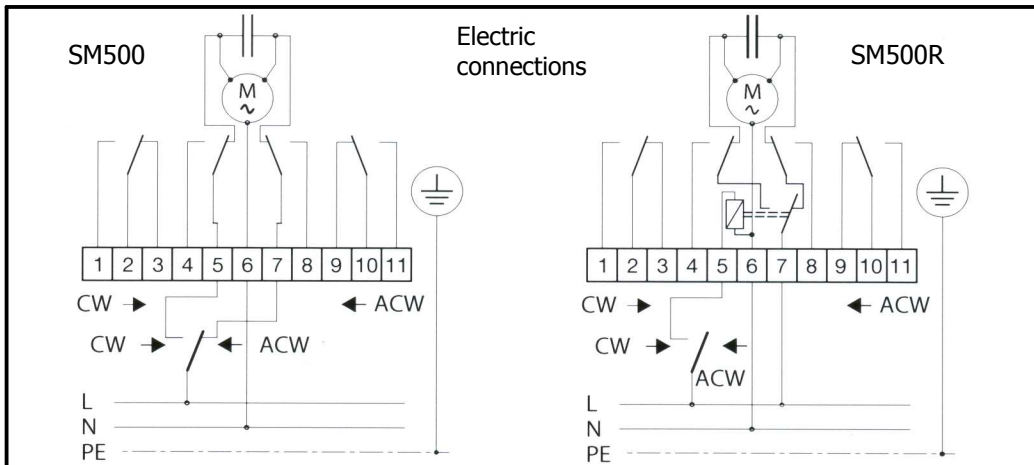
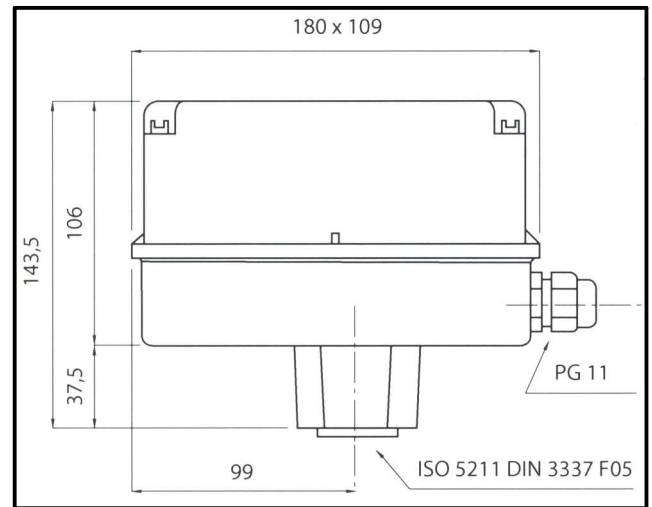
Wiring diagram inside cover

Always connect the ground cable. Skilled staff must provide for the installation and the electric connection in compliance with the current regulations.



On two way valve  
(not included)

Dimension



TECHNICAL DATA	SM500-005	SM500-060	SM500-180
Power supply	24 VAC	230 VAC ±10% - 50 Hz	
On request		24 VAC ±10% - 50 Hz	
Absorption	35 VA	12 VA	
Time for 90° rotation	5 sec.	60 sec.	180 sec.
Max torque	30 Nm	70 Nm	100 Nm
Protection degree	IP65		
Ausiliary microswitch	16/4 A 250 VAC EN 61058-1		
Max connection power	400 VA		
Relay for unipolar control	Model SM500R		
Working temperature	-10° +55°C		
Weight	2 Kg		
Valve connection	ISO 5211 - DIN 3337 F05 - square 14mm		