



PHASE STEPLESS CONTROLLER

Dinamic Control Technology

ESK



WARRANTY
3
YEARS

**PLUG&
PLAY**

**FULL
GUARD
SYSTEM**

**QUICK
START-UP**

INTELLIGENT
ENERGY
SAVING
IES

**EMC
CIVIL
LIMIT**

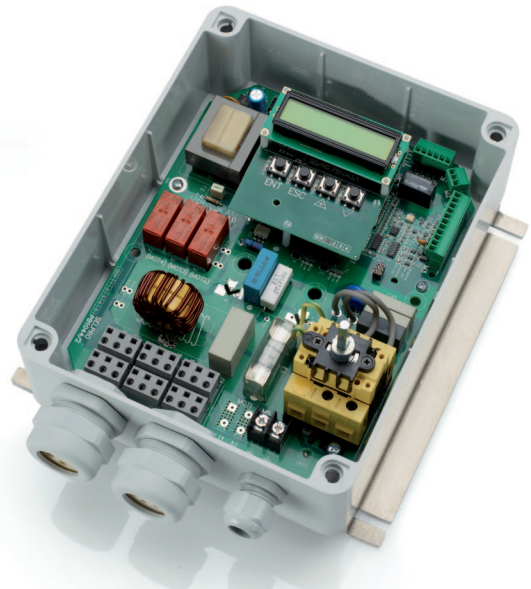
**MODBUS
INSIDE**

**THD
LOW**

CLIMA
SINERGY
CLS
INSIDE

**LOW
dB
SYSTEM**

**-0-
CROSS
SYSTEM**



SELPRO



PHASE STEPLESS CONTROLLER

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ALL-IN-ONE CUTTING PHASE TECHNIQUE MASTER & SLAVE SYSTEM TO DRIVE 1 PHASE AC MOTORS WITH INTEGRATED POWER SWITCH AND POWER SUPPLY PROTECTION

The device is a complete multifunction digital unit, with 3 working inputs, specialized for the speed regulation of 1 phase AC Motors, applied on axial or centrifugal fans.

Designed using a "state of art" microcontroller, is suited to have a choice of 14 different default configurations.

It's optimized with software "IES", the innovative control algorithm for HVAC&R applications.

Applications

Used in **HVAC&R** plants to control and regulate:

- ventilation
- suction
- destratifiers
- temperature (dry-cooler, heaters)
- pressure (ventilated heaters like condensers, evaporators)
- differential air flow (laminated flow plants, suction hoods)

Available regulations Mode

Master Unit - automatic regulator:

two different modes are selectable:

PID with "IES" technology to keep at Set Point the selected transducer value (i.e. temperature, pressure)

P (proportional) to keep inside Proportional Band the selected transducer value (i.e. temperature, pressure).

Driving command is selectable direct (DIR) or reverse (REV).

Slave Unit - repeater driver:

the driving command is directly related to the input command value, still selectable are direct (DIR) or reverse (REV) modes.

Keys Points

Digital regulation

PID or Proportional regulation

Direct and Reverse regulation

Low capacity Fans mode

Direct connection for Pressure & Temperature probes

ALL-round protection system

LCD Backlighting DISPLAY with keys

Visualization of regulation functions and Alarms messages

LED to display functional conditions

Power supply with or without the Neutral connection

Terminal blocks for direct connection of n. 6 (2 wires + PE) fans cables

No shielded cables required

Integrated Power Switch

Protistor protection

Technical Characteristics

Power supply	230 VAC +/-10% (std) 110VAC on request
Frequency	50/60 Hz automatic selection
Available Range	12A / 20A
Regulation output	0-100%
Protection BOX	IP55 – IP00
Standards compliance	Standard EN 50178 (directive 2006/95 CE)
	Standard EN 61800-3 (directive 2004/108 CE)
	Standard EN 60204-1 (directive 2006/95 CE)
Regulation SW	n. 14 pre-parameterized HVAC&R Software
Working Inputs	n. 3 inputs (mA-Vdc-NTC & PWM) always programmable
Working parameters	n. 30 always programmable
Functional Input contacts	n. 3 ON-OFF auxiliary contacts programmable
Remotable contact	n. 1 Alarm relay (NO/NC) programmable



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