



# PHASE STEPLESS CONTROLLER

Dinamic Control Technology

## DRM RDM



WARRANTY  
**3**  
YEARS

**-0-**  
CROSS  
SYSTEM

**FULL**  
GUARD  
SYSTEM

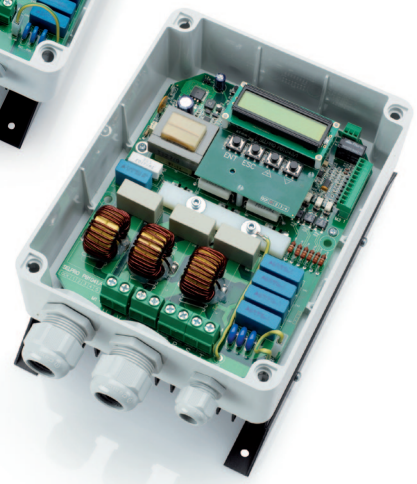
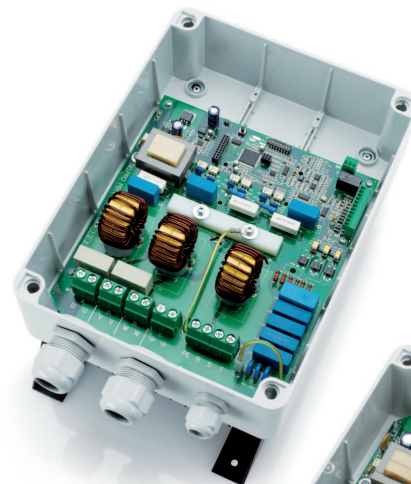
**LOW**  
dB  
SYSTEM

**PLUG&**  
PLAY

**EMC**  
CIVIL  
LIMIT

**QUICK**  
START-UP

INTELLIGENT  
ENERGY  
SAVING  
**IES**



**SELPRO**



# 3 PHASE STEPLESS CONTROLLER

## Dynamic Control Technology

# DRM RDM

### MASTER & SLAVE SYSTEM TO DRIVE 3 PHASE AC MOTORS

RDM300 device is a multifunction digital unit, with 3 working inputs, specialized for the speed regulation of 3 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

Direct connection for Pressure & Temperature probes

ALL-round protection system

LCD Backlighting DISPLAY with keys

Visualization of regulation functions and alarm messages

LED to display functional and conditions

Terminal blocks for direct connection of 4 or 8 (Three-phase + PE) fans cables

No shielded cables required

### Technical Characteristics

Power supply	400 VAC +/-20% (std) 230/500 VAC on request
Frequency	50/60 Hz automatic selection
Available Range	8A / 12A / 20A / 28A
Regulation output	0-100%
Protection BOX	IP55 – IP20 – 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. 2 ON-OFF auxiliary contacts programmable
Remotable contact	n. 1 Alarm relay (NO/NC) programmable