

3

PHASE STEPLESS CONTROLLER

Dinamic Control Technology

DRM RDM



WARRANTY
3
YEARS

-0-
CROSS
SYSTEM

FULL
GUARD
SYSTEM

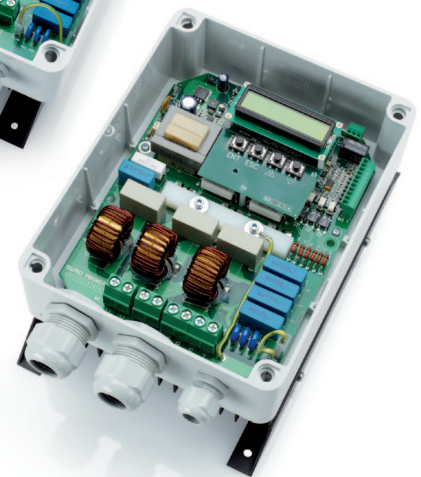
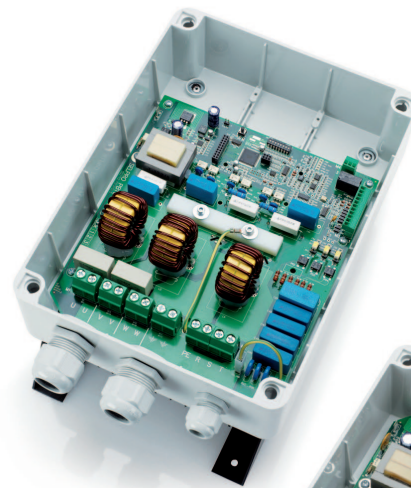
LOW
dB
SYSTEM

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