



3 PHASE STEP CONTROLLER

Dinamic Control Technology

DSV



WARRANTY
3
YEARS

PLUG&
PLAY

FULL
GUARD
SYSTEM

QUICK
START-UP

INTELLIGENT
ENERGY
SAVING
IES

EMC
CIVIL
LIMIT

MODBUS
INSIDE

THD
FREE

CLIMA
SINERGY
CLS
INSIDE

LOW
dB
SYSTEM

-0-
CROSS
SYSTEM



SELPRO



3 PHASE STEP CONTROLLER

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DSV

VOLTAGE STEP TECHNIQUE MASTER & SLAVE SYSTEM TO DRIVE 3 PHASE AC MOTORS, WITH SPRAY SYSTEM MANAGEMENT AND MODBUS SERIAL CONNECTION.

DSV300 device is a multifunction digital unit, with 2 transducer 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 15 different default configurations.

DSV300 is the only controller to solve problems like acoustic noises (extra dB) and to be in compliance with THD standards.

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

The Management of WET&DRY System (adiabatic booster) is included in the firmware, driving an optional Spray system with its own Set-Point and proportional band.

Using a serial Modbus (RTU) line, it's possible to read & write all the control parameters of the device, testing and adjusting also the state of the machine from remote site.

The Selpro software Clima-Sinergy is already allowable.

Clima-Sinergy allows data collection, analysis with graphs, change of working parameters, optimization of performances, remote control & service.

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

Modbus (RTU) connection

PID or Proportional regulation

Direct and Reverse regulation

Direct connection for Pressure & Temperature probes

ALL-round system protection

Wide digital backlighted DISPLAY with keys

Visualization of regulation functions and alarms messages

LED to display functional conditions

No shielded cables required

NO special motor required

Technical Characteristics

Power supply	400 VAC +/-10% (std) 230/500 VAC on request
Frequency	50/60 Hz automatic selection
Available Range	10A / 20A / 32A / 40A
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. 15 pre-parameterized HVAC&R Software
Working Inputs	n. 2 inputs (mA-Vdc-NTC & PWM) always programmable
Working benches	n. 2 benches of prefigured parameters
Working parameters	n. 80 always programmable
Functional input contacts	n. 6 ON-OFF auxiliary contacts
Remotable contact	n. 1 Alarm relay (NO/NC) programmable
	n. 2 Relay programmable



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