

VTS

Digital Slave controller with adjustable Vac limits for three-phase asynchronous fan motors



AC AC fans

Three-phase

Slave

VTS is a digital controller designed for speed control of **high-slip** three-phase **asynchronous motors** used on **axial, radial or centrifugal fans** in HVAC&R and **industrial applications**. The control principle is based on **mains-balanced phase-cut control**, enabling **precise and dynamic** control, improving **energy efficiency** and reducing **electrical and mechanical wear** of components.

Operating in **Slave mode**, VTS features **one multifunction analogue input**, compatible with **0–10 V, 0–5 V, 0–20 mA, 4–20 mA** and **PWM** signals, ensuring high **integration flexibility** with **digital controllers, thermostats or PLCs**.

It also includes **one programmable on/off contact**, which can be used for **remote Start/Stop** or **TK thermal protection** functions, configurable via **DIP switches**.

VTS is prepared for **isolated Modbus RTU** communication, enabled via an **optional plug**. When installed, the controller operates exclusively through **Modbus commands**, allowing the connected **master controller** full management of all parameters, both **read and write**. This mode ensures full integration into **digital architectures** and **BMS systems**.

The device integrates protections against **overvoltage, overload, thermal faults and phase loss**, providing high **operational reliability** even in **complex industrial environments**. It is available in an **IP20** version for **panel mounting** and an **IP55** version for **direct installation**.

VTS is a **robust, versatile and intelligent** solution for ventilation control in **dry coolers, chillers and advanced HVAC systems**.

Rated current (RMS)

at 50 °C ambient temperature

8A

12A

20A

Supply voltage

Available options:

400 Vac

± 10%

460 Vac

± 10%

230 Vac

± 10%

50/60 Hz:

Automatic

Control principle



Phase-cut control

Three-phase phase-cut control, mains-synchronised and line-balanced

Inputs

1

Input

For sensors and control signals

VTS features **1 analogue input**, compatible with analogue control signals **0–10 V**, **0–5 V**, **PWM**, **0–20 mA** and **4–20 mA**, enabling advanced integration with **digital control systems**.

0-20 mA

4-20 mA

0-5 V

0-10 V

PWM

Control system



Proportional Slave

Operating parameters

Cut/Off min

Min speed limit

Max speed limit

Digital outputs

1

Output

Relay

The controller is equipped with a relay for alarm management.

Digital inputs

1

Input

On/Off

It includes a programmable on/off contact for Start/Stop and TK motor thermal protection functions.

Remote Start/Stop

Motor thermal contacts (TK)

Options

A distinctive feature is the possibility to equip the controller with an isolated Modbus plug, enabling remote parameter management and monitoring via a Master/BMS controller, making it an ideal choice for advanced HVAC&R systems.

VTS Modbus version

Technical specifications

Number of motor connection outputs	1-4
Interface	Analogue
Electrical protections	<ul style="list-style-type: none">• Control input protection• Mains overvoltage protection
Protection ratings	IP55 IP20 (on request)
Applicable earthing systems	Full compliance with international earthing standards IT / TT / TN
Operating temperature	-20°C / 50°C
Weight (kg)	<ul style="list-style-type: none">• 8A 2,3 kg• 12A 2,5 kg• 20A 3,8 kg
Dimensions H x W x D (mm)	<ul style="list-style-type: none">• 8A 254 x 235 x 114• 12A 254 x 230 x 128• 20A 254 x 230 x 158



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