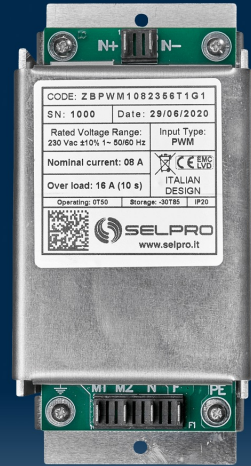


PWM

Analogue controller with PWM control input for single-phase asynchronous fan motors



AC AC fans

Single-phase

Slave

The **PWM slave controller** is an **analogue electronic device** designed to modulate the **RMS voltage** applied to **single-phase loads**, particularly **Class F asynchronous motors** compatible with **phase-cut control**.

It operates in **Slave mode**, receiving a **PWM (Pulse-Width Modulation)** signal from a **master device** to provide **continuous** and **proportional** control of the **Vac output voltage** from **0% to 100%**, according to the **duty cycle** of the control signal.

Using **mains-balanced phase-cut control** technology, it enables **precise** and **quiet** speed variation of **axial, radial or centrifugal fans** in **air conditioning, refrigeration, ventilation, heating, destratification** and **air handling** systems.

The device is equipped with a **Class B EMC filter** and includes **overvoltage protection** up to **275 Vac**, ensuring high **robustness** in **electrically critical environments**.

It is compatible with all main **earthing systems (IT, TT, TN)**, ensuring **flexibility** and **safety** during installation.

Rated current (RMS)

at 50 °C ambient temperature

8A

12A

Supply voltage

Available options:

50/60 Hz:

230 Vac

± 15%

Manual

Control principle



Phase-cut control

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

Inputs

1 Input

For sensors and control signals

The **PWM controller** receives a **PWM control signal** with an amplitude of **5 Vpp** and a **duty cycle** variable from **0 to 100%**, which proportionally determines the **output voltage** delivered to the **fan**. The connection is made on the **IN – GND** terminals, ensuring **linear** and **continuous** voltage regulation from **0% to 100%**.

PWM

Control system

 Proportional Slave

Technical specifications

Number of motor connection outputs	1
Interface	Analogue
Electrical protections	<ul style="list-style-type: none">• Control input protection• Mains overvoltage protection
Protection ratings	<ul style="list-style-type: none">• 8A IP20• 12A IP00
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 0,30• 12A 0,30
Dimensions H x W x D (mm)	135 X 63 X 65



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