

# DRV

Analogue Slave controller with 3 inputs and adjustable Vac limits for single-phase asynchronous fan motors



AC AC fans

Single-phase

Slave

**DRV** is a multifunction **analogue controller** designed to operate in **Slave mode**, with proportional control output via **mains-balanced phase-cut control**. It is intended for speed control of **single-phase asynchronous motors (Class F)** installed on **axial, radial or centrifugal fans**, ensuring **precise** and **efficient** operation in systems dedicated to **air conditioning, refrigeration, heating, ventilation, destratification, forced-air heating and air handling**.

Available in **8 A** and **12 A** versions, **DRV** provides **continuous modulation** of the **AC voltage** from **0% to 100%**, according to the received **analogue signal**. The device integrates **3 analogue control inputs** (**1 × 0–10 Vdc**, **1 × 0–20 mA**, **1 × 4–20 mA**), automatically selected based on the **highest value**, with no **configuration** required. This enables **flexible** and **immediate** management of the **fan system**, with automatic adaptation to the **most significant signal**.

Among the advanced functions, the **reverse function** allows automatic activation of the output at **100%** in the event of **loss of the control signal**. This function is particularly useful in **heat pump** operating logic or in **emergency conditions** where **operational continuity** is required.

In terms of safety, **DRV** includes **control input protection**, **overvoltage protection** up to **275 Vac**, full **galvanic isolation** between the **mains** and the **signal circuits**, a **Class B EMC filter**, and full compatibility with the main **earthing systems (IT, TT, TN)**.

Thanks to its **compact architecture**, **operational robustness** and **high reliability**, **DRV** is an ideal solution for controlling **high-efficiency fan arrays**.

## Rated current (RMS)

at 50 °C ambient temperature

8A

12A

## Supply voltage

Available options:

230 Vac ± 15%

50/60 Hz:

Manual

## Control principle

### Phase-cut control

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

## Inputs

### **3** Inputs For sensors and control signals

The device features **3 analogue inputs** dedicated to **Slave mode (4–20 mA, 0–20 mA, 0–10 Vdc)**, enabling **flexible** management of the **fan system**. The controller automatically selects the signal with the **highest value**, with no **programming** required.

0–20 mA

4–20 mA

0–10 V

## Control system

### Proportional Slave

## Operating parameters

Cut/Off

Min speed limit

Max speed limit

Reverse operation (HP 100%)

## Technical specifications

<b>Number of motor connection outputs</b>	2
<b>Interface</b>	Analogue
<b>Electrical protections</b>	<ul style="list-style-type: none"><li>• Control input protection</li><li>• Mains overvoltage protection</li></ul>
<b>Protection ratings</b>	IP55
<b>Applicable earthing systems</b>	Full compliance with international earthing standards IT / TT / TN
<b>Operating temperature</b>	-20°C / 50°C
<b>Weight (kg)</b>	0,8 kg
<b>Dimensions H x W x D (mm)</b>	158 x 138 x 93



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