DRM

Digital multi-input Slave controller for three-phase asynchronous fan motors

AC AC fans

⌇ Three-phase

S Slave

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

Designed to operate in **Slave mode**, **DRM** features **two analogue inputs** compatible with **4–20 mA** and **0–10 Vdc** signals, and an independent **PWM input**, enabling seamless integration with **digital control systems**. This configuration makes the device suitable for **remote control** according to **thermal exchange demand** and easy integration with existing **system logic**.

The controller supports advanced functions such as **remote Start/Stop**, **reverse operation** and **TK** thermal contact reading, helping to improve **safety** and **operational reliability**. The **0–10 V output** enables direct driving of **slave devices**, facilitating **synchronised management** of multiple elements within the HVAC system.

DRM is prepared for interfacing with a backlit **2-line 16-character LCD display**, providing an intuitive interface for **local programming** of the device and enabling, if required, transformation of the system into a **Master unit**.

Thanks to protection against **overvoltage**, **overload** and **thermal faults**, **DRM** is suitable for installation in **complex industrial environments**. It is available in an **IP20** version for mounting inside **electrical panels** and an **IP55** version for applications in **harsh environments**.

DRM is a **robust**, **versatile** and **complete** solution for ventilation control in **chillers**, **dry coolers** and **industrial HVAC systems**, ensuring **optimised performance** and maximum **operational efficiency**.

Rated current (RMS)
at 50 °C ambient temperature

⚡ 8A ⚡ 12A ⚡ 20A ⚡ 28A

Supply voltage

Available options:

400 Vac ± 20%   **480 Vac** +10% -25%   **230 Vac** ± 10%

50/60 Hz:

(Automatic)

Control principle

Phase-cut control

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

Inputs

3 Inputs
For sensors and control signals

DRM features **2 analogue inputs**, compatible with analogue control signals **4–20 mA** and **0–10 Vdc**, as well as **1 independent PWM input**, enabling advanced integration with **digital control systems**.

4-20 mA   0-10 V   PWM

Control system

Proportional Slave

Operating parameters

Min speed limit   Reverse operation (HP 100%)

Digital outputs

1 Output
Relay

The controller is equipped with a relay with configurable functions, enabling advanced customisation for alarm management or other auxiliary components.

Digital inputs

2 Inputs
On/Off

Via 2 on/off contacts, it supports remote management of Start/Stop, reverse operation and reading of thermal protections (TK), improving system safety and reliability.

Motor thermal contacts (TK)   Remote Start/Stop   Direct/Reverse mode

Auxiliary control outputs

For control of power slave devices, the controller provides a 0–10 V analogue output.

0–10 Vdc output

Technical specifications

Number of motor connection outputs	1-4 2-8 (28A)
Interface	Analogue, optional digital
Electrical protections	• 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)	• 8A 2,5 kg • 12A 2,7 kg • 20A 3,9 kg • 28A 5,6 kg
Dimensions H × W × D (mm)	• 8A 255 x 235 x 115 • 12A 255 x 230 x 128 • 20A 255 x 230 x 157 • 28A 350 x 235 x 181

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