



Sensors

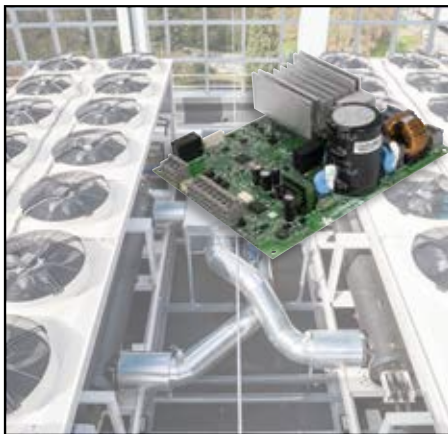


Switches



Controls

Application notes



Application Note: November 2022

Industry: HVAC

Product: RVBS Variable frequency drive

Customer: OEMs

Subject: Energy saving through speed control of 3-phase compressors

CUSTOMER ISSUE :

Today's HVAC industry requirements are focused on energy savings and high-efficiency units.

Being a price-sensitive industry, OEMs need to have competitive priced variable frequency drives that take up minimal space in their enclosure.

Moreover, easy installation and high flexibility to adapt to their existing products are additional requirements since OEMs can benefit from further cost savings.

OUR SOLUTION :

The RVBS is a cost-effective solution with optimised features controlling the speed of 3-phase compressors with an induction motor.

The RVBS is designed with very compact dimensions allowing it to fit into HVAC units with very limited spaces.

In addition to the above, this device is designed to be a time-saving solution during installation, by using push-in connectors for both power and auxiliary connections.

Parametrization is also less complicated compared to competitor solutions since there are fewer parameters to configure.

The RVBS includes different functions aimed to protect the drive, the motor, and the system.

BENEFITS :

- Designed for both industrial and residential environments
- Space-saving solution thanks to its compact dimensions
- Installation time savings with push-in terminals
- Ease of configuration with a limited set of configuration parameters
- Analog and digital inputs for higher flexibility
- Cost-effective solution with optimized features to control the speed of 3-phase rotary and scroll compressors with an induction motor