

## Press Release

### **HDMS: THE REVOLUTIONARY DYNAMIC MOTOR STARTER FOR 1-PHASE SCROLL COMPRESSORS AND SUBMERSIBLE PUMPS**

Eliminates the start capacitor and reduces motor starting current by 70%.

Lainate, January 2020 - Carlo Gavazzi Automation, the international electronics group with activities in the design, manufacture and marketing of electronic equipment, today is proud to present its new motor starter, the HDMS.

The HDMS is a revolutionary motor starter for single phase scroll compressors and submersible pumps. Its unique design and control algorithm provide a solution whereby the traditional start capacitor will no longer be required. This feature is of high value to our customers because start capacitors are the components with the highest failure rates in single phase applications.

The HDMS offers a remarkable current reduction, reducing the motor starting current by an average of 70% when compared to Direct on line (DOL) starters. This makes the HDMS the ideal solution for applications where the power is limited, such as loads driven by generators or electrical inverters.

"We have been listening to and working with our customers in order to provide them with innovative solutions that bring value to their applications. The HDMS integrates all these requirements in one product. We have looked into different examples, starting from installation to troubleshooting, and focused all our design efforts to improve the product's features accordingly," Jason Demicoli, International Product Manager, states. "With this launch it is our intention to strengthen Carlo Gavazzi's presence in the HVAC market segment, particularly heat pumps, and expand our business into new market applications, such as submersible pumps "

Developed by our competence centre in Malta, the HDMS is designed to solve problems with high starting currents caused by DOL switching of motors. As it does not require the start capacitor, the HDMS offers greater reliability vs existing soft starting solutions for better current reduction performance.

#### **Main technical features**

- Self-learning algorithm to continually optimise motor starts
- HP algorithm to match load requirements
- No need for start capacitor for greater reliability
- Tool-free design to ensure quick and error-free installation
- Wide operational current range: 12, 25, 32, 37 Arms
- Current ratings @ 60° C
- NFC communication for data download – quicker troubleshooting
- Modbus communication for real-time data analysis
- Specific algorithm for scroll compressors and submersible pumps
- SCR protected relays for longer lifetime
- 2 relay outputs (configurable logic) for Alarm, Top of Ramp
- Coated PCBs for additional protection against humidity
- Operational voltage: 110 VAC up to 230 VAC, 50/60 Hz
- Integrated motor overload protection (Class 10)

#### **ABOUT CARLO GAVAZZI AUTOMATION**

Carlo Gavazzi Automation is an international electronics group with activities in the design, manufacture and marketing of electronic equipment targeted at the global markets of industrial and building automation.

Carlo Gavazzi Automation provides customers with technologically innovative, high quality and competitive solutions, in compliance with their requirements and expectations through its 22 National Sales Companies in Europe, the Americas and Asia & Pacific, operating with its production sites in Denmark, Italy, Malta, Lithuania and China.

#### **For further information:**

Carlo Gavazzi Automation SpA - Via Milano 13 – 20020 Lainate (MI) - Italy  
Marketing and Communication - [info@gavazziautomation.com](mailto:info@gavazziautomation.com) - [www.gavazziautomation.com](http://www.gavazziautomation.com)