

## Press Release

### **NRG 3-PHASE SERIES: HIGH-PERFORMANCE DIGITAL SOLID STATE RELAYS**

Enhanced flexibility for industrial applications

Lainate, January 2026 - Carlo Gavazzi Automation, the international electronics group with activities in the design, manufacture, and marketing of electronic equipment, today announces the launch of the new NRG 3-phase series of digital solid state relays.

Designed to meet the growing demand for high-performance switching solutions, the NRG 3-phase series offers advanced digital communication capabilities, precise power control for both 2-pole and 3-pole switching applications, and a wide array of diagnostic features. This new addition complements the existing 1-phase NRG solid state relay solution, significantly expanding the flexibility and scalability of the NRG family across a broader range of industrial automation environments.

Engineered for seamless integration into Industry 4.0 architectures, the new NRG relays enable predictive maintenance, improved process reliability, and enhanced Overall Equipment Effectiveness (OEE).

"We are excited to introduce the NRG 3-phase series of digital solid state relays - a game-changer in industrial power switching," said Dorianne Grech, International Product Manager at Carlo Gavazzi. "With its advanced power control modes, smart monitoring features and seamless connectivity, this solution empowers industrial users to boost operational efficiency, reduce downtime, and achieve greater control over their processes."

Ideal for applications in Plastics and rubber processing, Packaging machines, Semiconductor manufacturing, and other automated production systems, the NRG 3-phase series delivers reliable, energy-efficient and intelligent power control.

With the introduction of the NRG 3-phase series, Carlo Gavazzi reaffirms its commitment to innovation and excellence in industrial automation solutions.

#### **Main technical features**

- **Seamless digital communication**  
Equipped with PROFINET, EtherNET/IP, EtherCAT and Modbus protocols for real-time data transmission and smooth system integration.
- **Advanced switching technology**  
Offers a variety of switching modes and enhanced control features tailored to diverse industrial application needs.
- **Improved Energy efficiency**  
Minimizes power losses and optimizes thermal management, with a comprehensive data stream on voltage, current and energy consumption from each solid state relay.
- **Integrated diagnostics and predictive maintenance**  
Continuously monitors system parameters and faults to help prevent system failures and reduce unplanned downtime.
- **Cost-effective and simplified inventory**  
Combines switching, monitoring and diagnostics into a single compact solution, reducing the need for additional components and complex wiring.

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

Carlo Gavazzi is an international group engaged in the design, manufacturing, and marketing of electronic control components for the global building and industrial automation markets.

Carlo Gavazzi Automation provides customers with technologically innovative, high quality and competitive solutions, in compliance with their requirements and expectations through its 23 National Sales Companies in Europe, the Americas and Asia & Pacific, operating with its factories in Italy, Mexico, Lithuania, Malta, and China.

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

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