CARLO GAVAZZI
Automation Components

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Press Release

THE NRG DIGITAL SOLID STATE RELAYS CAN NOW ADAPT TO LINE VOLTAGE VARIATIONS

Ensuring stable power output for optimal product quality.

Lainate, July 2021 - Carlo Gavazzi Automation, the international electronics group with activities in the design, manufacturing, and marketing of electronic equipment, today presents a new feature on the NRG digital solid state relays, the voltage compensation.

With switching, monitoring and diagnostic capabilities available via the communication interface, the NRG digital solid state relays provide greater connectivity in industrial automation machinery offering manufacturers unlimited opportunities to improve productivity, predict equipment failure and provide remote access possibilities down to the solid state relay level.

Variation in mains voltage is a common issue that impairs the accuracy of the heating process. With voltage compensation, the NRG solid state relays are able to keep a constant power output despite any voltage fluctuations. Available on the RGx1P..N variants, voltage compensation ensures reduction of scrap and improved end-product quality.

"This new feature will complement the switching functionality of the NRG solid state relays to guarantee better temperature regulation", Dora Lee Borg International Product Specialist says. "This is particularly useful for sensitive heating applications and also open loop temperature control systems."

Developed in our competence centre in Malta, the NRG has been designed to suit any heating application where precise temperature control is crucial and where unplanned machine stoppages can result in a considerable loss of revenue.
Typical applications are plastic injection machines, packaging machines, drying and curing processes, semiconductor manufacturing, and glass tempering machines.

Main technical features

- NRG controller with PROFINET, EtherNET/IP™ or Modbus RTU interface
- Max. 32 NRG solid state relays (RG..CM..N) in 1 NRG bus chain
- NRG solid state relays go up to 660 VAC 65 A, 90 A (versions without heatsink)
- Selectable switching modes: ON/OFF, Burst, Advanced Full Cycle, Distributed Full Cycle, Phase Angle and Soft Start
- Voltage Compensation
- Predictive failure detection with Load deviation indication
- Read-outs: Current, Voltage, Power, Energy consumption kWh, Load and SSR Running hours
- Malfunction detection: Mains loss, Load loss, SSR short circuit, SSR over-temperature, Voltage/ Current / Frequency out-of-range

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.

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