CARLO GAVAZZI
Automation Components

CARLO GAVAZZI

Press Release

NRG SERIES: THE SOLID STATE RELAYS WITH FIELDBUS INTERFACE

Access to real-time data provides cost savings and increases machine uptime.

Lainate, July 2018 - Carlo Gavazzi Automation, the international electronics group with activities in the design, manufacture and marketing of electronic equipment, presents its new series of solid state relays, the NRG.

In this 4th industrial revolution, machine builders need to make informed decisions, solve urgent problems on short notice and develop machines that are more autonomous. The NRG platform has been developed to fit this purpose. The RG solid state relays have evolved to integrate monitoring and a communication interface to allow the read-out of variables through Modbus RTU.

The solid state relays in the NRG series are available either with heatsink (RGC..N) or without heatsink (RGS..N) for ratings up to 660 V, 65 AAC and 90 AAC respectively. The benefit of panel space savings has been retained with the NRG series. Ratings up to 37 AAC @ T_A 40° C are provided in a product width of only 17.8 mm.

"'Information is power'. The accessibility of real-time data with the NRG series allows machine builders to distinguish their solutions by offering added value with smarter machines that ultimately result in cost savings for the end user", Dorianne Grech International Product Manager says. "The NRG solution is very versatile since the communication interface is used only for feedback. This enables OEMs already using solid state relays to easily integrate the NRG into existing machines with minimal efforts, as the control system does not need to change to accommodate the NRG."

Developed in our Competence Centre in Malta, the NRG has been designed to suit any heating application where reliable and precise maintenance of temperature is crucial to the quality of the end product. Typical applications are plastic injection machines, PET blow moulding machines, semiconductor manufacturing and glass tempering machines.

Main technical features

NRG controller – NRGC
- Modbus RTU over RS485
- Connection of up to 48 RG..N solid state relays
- 24 VDC supply voltage
- 1x configurable relay output
- Product width 35 mm
- Approvals: CE, UL listed, EAC

NRG internal BUS cables – RCRGN..
- Proprietary cables for the NRG internal BUS
- Fast set-up due to Auto-configuration of RG..Ns
- Available in different lengths: 10, 75, 150, 350, 500 cm

NRG solid state relays – RG..N
- 1-phase, zero cross switching with an RS485 interface
- Read-outs: Current, Voltage, Frequency, Power, Energy consumption, Running hours
- Diagnostics: Mains loss, Load loss, SSR short circuit, over-temperature, SSR out of (set) limits
- Ratings: up to 660 VAC, 90 AAC (RGS..N)
- Ratings: up to 660 VAC, 65 AAC (RGC..N)
- DC control voltage: 4-32 VDC
- Approvals: CE, UL listed, EAC (UR and CSA for RGS..N)

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 - www.gavazziautomation.com