

Complete Range of 1, 2 & 3 Pole RG Series Solid State Relays & Contactors and Obsolescence of RJ and RN Series

September 2013 – With the recent introduction of our 2 and 3 pole solid state relays and contactors, CARLO GAVAZZI now has a comprehensive range of 1, 2 and 3 pole solid state relays and contactors:

RGC (1-Pole) Solid State Relays and Contactors: This series offers a solid state solution with an integrated heat sink, with the smallest frame size rating of 20 & 25AAC/3Hp in just a 17.5mm width, 30AAC/5Hp (22.5mm wide), 43AAC/10Hp (35mm wide) 65AAC/15Hp and 85AAC/15Hp (70mm width). Ratings are specified for an ambient temperature of 40°C with de-rating curves available up to 80°C.

RGC2 (2-Pole) and RGC3 (3-Pole) Solid State Relays and Contactors: Available in two frame sizes: 54mm or 70mm wide. RGC2, the 2-pole switching device, offers three current ratings of 25, 40 and 75AAC per pole at 40°C. While RGC3, the 3-pole switching device, offers five current ratings ranging from 20 to 65AAC per pole. Optional monitoring feature offers possibility of detecting status of mains and load, as well as internal RGC failures: open or short circuit and overheating. Alarming is implemented with an LED indication, relay output and auxiliary transistor output.

The new platform of **RG Series** also features wire bonding technology, which is a fully automated process resulting in more reliable connections, but more importantly it reduces thermal stress, therefore providing the **RG Series** with two to three times longer lifetime than our older designs and those by our competitors, which typically have solder connections.

With the launch of the complete **RG 1, 2 and 3 pole Series**, we will now be streamlining our offering of solid state relays and contactors. The older RJ and RN Series will no longer be

available after December 16th, at which time we will not be placing any new orders with our factory. Availability will be limited to our inventory on hand after this date. You will find a complete cross reference from older types to the new **RG Series** from the link below.

Some other dynamic features of these new game-changing products include:

- ▼ Integral heat sink with robust metal DIN rail adapters
- ▼ UL certified motor ratings at 600VAC
- ▼ UL SCCR rating of 100kA with J class (or equivalent) fuses
- ▼ Amperage rating based upon 40°C ambient temperature
- ▼ Integrated MOV for overvoltage protection
- ▼ Integrated cooling fan on higher amperage models
- ▼ High I²t of up to 18,000 A²s on some types
- ▼ Option for screw, box clamp or spring loaded control inputs on some types
- ▼ Optional monitoring of SSR and load failures on some types
- ▼ Optional EMR and transistor alarm outputs on some types

The **RG Series** is an exciting new development for CARLO GAVAZZI as we continue to develop ground breaking and innovative solid state solutions. There are other specialty types (with fuses, with system monitoring) also available, with many other specialty types in the pipeline to be launched in the coming months..

For more information about any of these new items, click on any of the links below

▼ [Cross Reference List \(Discontinued RJ/RN Types to new RG Types\)](#)

▼ [1 Pole RG Brochure](#)

▼ [RGC1 Data Sheet \(E Type\)](#)

▼ [2 and 3 Pole RG Brochure](#)

▼ [RGC1 Data Sheet \(U Type\)](#)

▼ [RGC2/3 Data Sheet](#)

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