

Cool Running OMRON Relay Supports Efficient PCS Design for Renewable Micro-power Installations

Hoofddorp, Netherlands, Tuesday, 6 July 2021 – OMRON Electronic Components Europe today announced a compact, efficient 800VAC/200A high power relay aimed at power conditioners (PCS) associated with renewable micro power generation, as well as inverters and UPS applications.

These applications demand high energy efficiency as well as low heat generation, and the new OMRON G9KA is an ideal relay solution for grid interconnection and safety interruption. Specifically, it benefits from an exceptionally low contact resistance for this class of relay of just 0.2mΩ, reducing the heat generated in the relay by over 30% compared with current equivalent devices. This reduces the need for thermal management components such as heat sinks or fans and improves reliability by reducing heating of the surrounding components.

Commenting, Steve Drumm, Business Development Manager for Energy Applications at OMRON, said, "Increasing use of micro-generation from solar and other renewable sources is leading to a growth in distributed power conditioners (PCS). Suppressing heat generation has become a major issue for customers in these applications. Our design team have innovated in terms of the structure of the devices, the materials used and the manufacturing quality to achieve an exceptionally low contact resistance, facilitating the customer's thermal design and reducing design cost. The G9KA is also highly suitable for use in inverters and UPS systems".

Sized at 50mm x 50mm x 50mm, the G9KA offers the benefit of a 30% smaller footprint and lower height than an equivalent contactor. The relay is UL Recognized, and EN/IEC TUV, UL and CQC Certificated. It is supplied with PCB terminals and is rated for use at ambient temperatures of up to 85°C.



The new OMRON G9KA 800VAC/200A relay is aimed at power conditioners (PCS) associated with renewable micro power generation, as well as inverters and UPS applications.

About OMRON Electronic Components Europe

OMRON Electronic Components Europe is a leader in electromechanical PCB relays, as well as a leading supplier of components such as micro switches, MOSFET relays, DIP switches, photomicrosensors and connectors. OMRON has a strong portfolio of innovative technologies including MEMS based pressure, flow and thermal measurement sensors, human face and gesture recognition modules, vibration and tilt sensors.

OMRON Electronic Components Europe strongly supports its customers in Western and Eastern Europe, Russia and the CIS through 8 regional offices, a network of local offices and partnerships with specialist, local, regional and global distributors.

OMRON Electronic Components Europe is a subsidiary of the OMRON Corporation, recognised worldwide as a leader of high quality, high technology electrical and electronic control equipment and component products.

About OMRON Corporation

OMRON Corporation is a global leader in the field of automation based on its core technology of "Sensing & Control + Think". OMRON's business fields cover a broad spectrum, ranging from industrial automation and electronic components to social infrastructure systems, healthcare, and environmental solutions. Established in 1933, OMRON has about 28,000 employees worldwide, working to provide products and services in around 120 countries and regions. In the field of industrial automation, OMRON supports manufacturing innovation by providing advanced automation technologies and products, as well as through extensive customer support, in order to help create a better society.

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