

OMRON unveils compact 500VDC relay for charging circuits

Hoofddorp, Netherlands, Tuesday, 1 December 2020 – OMRON Electronic Components Europe is announcing a highly compact 500V DC power relay aimed at the pre-charge circuits in electric vehicle chargers, battery back-up systems for solar panels and other high current DC applications.

With a high switching capacity and high isolation, the new OMRON G2RG-X is ideal for inrush current control, for example to protect the peripheral circuits when storage battery charging is initiated, as well as in energy storage systems, inverters, servos, power supplies and UPS.

The OMRON G2RG-X achieves its massive 500 VDC, 10A switching capacity within a compact body with a footprint of just 13.5mm X 29.0mm and a height of 26.5mm. The exceptional performance in a small component is a result of OMRON's arc control structure and a 3.0mm contact gap. Further features include a high level of isolation, with an insulation distance of over 8 mm and an impulse withstand voltage of 10 kV between coil and contacts.



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The G2RG-X features a low coil power consumption of just 0.8W and has just one coil as opposed to two in alternative solutions, further reducing energy loss within the device. It is designed for 2-pole series wiring, and has an electrical durability of 10,000 operations in this configuration. The relay is UL and TÜV certified.

About Omron

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.

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