Overvoltage protection
TDK offers extremely compact and robust varistors with 14 mm disk diameter

July 15, 2022

TDK Corporation (TSE:6762) presents the new EPCOS B72314S2* series (AdvanceD S14 Compact) of leaded disk varistors. The series covers a wide operating voltage ranging from 175 $V_{RMS}$ to 625 $V_{RMS}$. The maximum surge current capability of a single pulse current (8/20 µs) is up to 6000 A. Furthermore, they offer a multiple surge current capability of 3000 A at 8/20 µs according to UL 1449, 4th edition, type 5 listed.

The smaller dimensions with the same excellent performance as comparable S14 AdvanceD types are particularly noteworthy. The disk diameters range from 13 to 14 mm, a reduction of approximately 3 mm compared to AdvanceD S14 series. The coating of the disks consists of a flame-retardant synthetic resin according to UL 94 V-0. The SIOV varistors are certified according to UL, CSA, VDE and IEC.

Thanks to the compact dimensions design and outstanding electrical characteristics, the AdvanceD S14 Compact types allow space-saving designs for the target applications such as household appliances, smart meters, inverters and many others.

Main applications
- Household appliances and smart meters
- Industrial applications such as inverters

Main features and benefits
- Wide operating voltage range from 175 $V_{RMS}$ to 625 $V_{RMS}$
- Multiple surge current capability of 3000 A (8/20 µs)
- Compact dimensions of diameters from 13 to 14 mm
- Coating flame-retardant according to UL 94 V-0
- Approvals: UL, CSA, VDE and IEC
About TDK Corporation

TDK Corporation is a world leader in electronic solutions for the smart society based in Tokyo, Japan. Built on a foundation of material sciences mastery, TDK welcomes societal transformation by resolutely remaining at the forefront of technological evolution and deliberately “Attracting Tomorrow.” It was established in 1935 to commercialize ferrite, a key material in electronic and magnetic products. TDK’s comprehensive, innovation-driven portfolio features passive components such as ceramic, aluminum electrolytic and film capacitors, as well as magnetics, high-frequency, and piezo and protection devices. The product spectrum also includes sensors and sensor systems such as temperature and pressure, magnetic, and MEMS sensors. In addition, TDK provides power supplies and energy devices, magnetic heads and more. These products are marketed under the product brands TDK, EPCOS, InvenSense, Micronas, Tronic and TDK-Lambda. TDK focuses on demanding markets in automotive, industrial and consumer electronics, and information and communication technology. The company has a network of design and manufacturing locations and sales offices in Asia, Europe, and in North and South America. In fiscal 2022, TDK posted total sales of USD 15.6 billion and employed about 117,000 people worldwide.

You can download this text and associated images from www.tdk-electronics.tdk.com/en/220715. Further information on the products can be found under www.tdk-electronics.tdk.com/en/varistors_leaded. Please forward reader inquiries to marketing.communications@tdk-electronics.tdk.com.

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