

EMC Components

TDK offers its first range of EMC high-current filters with exceptional attenuation characteristics from 9 kHz upwards

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TDK Corporation (TSE: 6762) introduces with its B84143C*S250/S251 series the new EPCOS 3-line EMC filters for converter applications with high currents. Depending on type, they are designed for rated voltages of 305/530 V AC and 440/760 V AC (50/60 Hz) at rated currents of 160 A to 2500 A. One particular performance characteristic is their very high attenuation figures which are achieved in the range of 9 kHz to 150 kHz. In order to meet the requirements of UL in switch cabinet construction, the complete filter series has been designed for an SCCR (Short Circuit Current Rated) value of 100 kA.

Despite the high performance the housings with degree of protection IP 00 are very compact in size. The smallest model for example measures 350 x 240 x 120 mm (L x W x H) and the biggest 710 x 365 x 257 mm. The earth leakage currents of all types are 46 mA according to IEC 60939-1:2010. Approvals under IEC 60939-3, UL 60939-3 and CSA C22.2 No.8 have been issued.

Typical applications for input filters include frequency converters for motor drives, wind turbines and power supplies.

Main applications

- Frequency converters for motor drives
- Wind turbines
- Power supplies

Main features and benefits

- Rated voltages of 305/530 V AC and 440/760 V AC (50/60 Hz)
- Rated currents of 160 A to 2500 A
- Very high attenuation figures ranging from 9 kHz to 150 kHz
- SCCR value of 100 kA
- ENEC, UL and CSA approval

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, Tronics 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/230405. Further information on the products can be found under www.tdk-electronics.tdk.com/en/emc_filters. Please forward reader inquiries to marketing.communications@tdk.com.

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