

Capacitors

TDK releases the most compact safety class S2 motor-run capacitors

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TDK Corporation (TSE:6762) presents its new B33331I6* series, compact EPCOS motor-run capacitors that comply with safety class S2 as well as the IEC 60335-2-24 standard, that will come onto the market in September 2023. The robust aluminum cans have extremely compact dimensions, making the series now the most compact motor-run capacitors on the market. Depending on the capacitance, the diameters are only 30 mm or 35 mm, and the heights vary between 73 mm and 103 mm including the connections. They are designed for a voltage of 450 V AC at 50/60 Hz, and, with 13 types, cover a capacitance range from 1 μ F to 20 μ F.

The self-healing resin-filled capacitors are equipped with an internal overpressure breakaway protection and are designed for a lifetime of 10,000 hours at 450 V AC. Standard connections are 2+2 fast-on connectors (6.3 mm x 0.8 mm) and can be modified to customer specifications. Versions with an M8 bolt at the bottom of the housing are also available. All types have approvals according to UL and VDE and carry the CE mark.

Typical applications of these motor run capacitors are compressor motors of refrigerators and freezers and pumps in industrial applications.

Main application areas

- Compressor motors of refrigerators and freezers
- Pumps in industrial applications

Main features and benefits

- Voltage: 450 V AC
- Capacitance spectrum from 1 μ F to 20 μ F
- Very compact dimensions: Diameter 30 mm or 35 mm, heights between 73 mm and 103 mm
- Approvals according to UL and VDE, CE marking

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.

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