

Capacitors

TDK offers PhaseCap® Energy Plus PFC capacitors with significantly improved performance

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TDK Corporation (TSE: 6762) introduces PhaseCap® Energy Plus, two new series of EPCOS PFC capacitors. The B25674C* series is gas-impregnated and covers a voltage range from 230 V AC to 690 V AC and offers compensation ratings from 5 kvar to 33.1 kvar, depending on the type. The B25675C* series capacitors are impregnated with a biodegradable resin and are rated for voltages from 230 V AC to 1000 V AC, with compensation ratings of up to 60 kvar.

These series feature an unrivaled lifetime of up to 240,000 hours in temperature class -40/D, class IP20 touch-proof terminals, and pre-mounted ceramic-based discharge resistors. They offer up to 15,000 switching operations per year, double the amount of previous types. For short periods, the series can be operated at a temperature of 60 °C, with hotspot temperatures of up to 85 °C permissible.

The robust winding design with wave-cutting technology allows the capacitors to be subjected to inrush currents equivalent to 500 times the rated current. The PhaseCap Energy Plus types are self-healing and CE and UL certified. In the event of an overload, all three phases are disconnected from the mains via an internal overpressure disconnecter. The capacitors feature class IP20 touch-proof terminals and have pre-mounted ceramic-based discharge resistors.

Typical applications of the robust components are automatic PFC systems, capacitor banks, individual and group compensation, fixed and switched compensation systems as well as dynamic PFC systems.

Main applications

- Automatic PFC systems
- Capacitor banks
- Individual and group compensation
- Fixed and switched compensation systems
- Dynamic PFC Systems

Main features and benefits

- Wide voltage range from 230 V AC to 1000 V AC
- Compensation power up to 60 kvar
- Long lifetime of up to 240,000 hours
- Integrated overpressure disconnecter protection for all three phases
- Self-healing technology
- CE and UL certified

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 2021, TDK posted total sales of USD 13.3 billion and employed about 129,000 people worldwide.

You can download this text and associated images from <http://www.tdk-electronics.tdk.com/en/220524>.

Further information on the products can be found under

https://www.tdk-electronics.tdk.com/en/pfc_phasecap_energy

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