

## Power capacitors

### Rugged three-phase AC-filter capacitors

September 8, 2020

TDK Corporation presents two new series of EPCOS power capacitors for AC filtering in three-phase delta connection applications. The B32375\* series is designed for the low to medium power range and covers a capacitance spectrum from 3 x 5  $\mu\text{F}$  to 3 x 50  $\mu\text{F}$  with rated voltages from 250  $V_{\text{RMS}}$  to 600  $V_{\text{RMS}}$ . The can diameters are 50 mm or 63.5 mm and the heights vary between 128 mm and 275 mm depending on capacity and voltage. These capacitors have faston terminals for easy installation.

The B32376\* series is designed for high power with a capacitance range from 3 x 10  $\mu\text{F}$  to 3 x 400  $\mu\text{F}$  with rated voltages from 250  $V_{\text{RMS}}$  to 1000  $V_{\text{RMS}}$ . The can diameters are 116 mm or 136 mm and the heights are between 200 mm and 275 mm. These capacitors have screw terminal M10 for safety installation. The capacitors in this series are also available in versions with a vibration resistance of 20 g.

A key feature of the new capacitors compared with predecessor types is an improved safety device in accordance with IEC-61071, which eliminates the need for soldering. This results in a long service life of up to 100,000 hours at a continuous hot-spot operating temperature of 85 °C and 200,000 hours at 70 °C.

The main areas of application are input and output filters of high-performance converters, for example in traction applications or in the field of renewable energy.

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#### Main applications

- Input and output filters of high-performance converters
- Renewable energy systems
- Traction applications

#### Main features and benefits

- Wide capacitance range from 3 x 5  $\mu\text{F}$  to 3 x 400  $\mu\text{F}$
- Nominal voltages up to 1000  $V_{\text{RMS}}$
- Long service life of 100,000 hours

## 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 2020, TDK posted total sales of USD 12.5 billion and employed about 107,000 people worldwide.

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Please forward reader inquiries to [marketing.communications@tdk-electronics.tdk.com](mailto:marketing.communications@tdk-electronics.tdk.com).

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## Contacts for regional media

| Region        | Contact   | Phone              | Mail   |
|---------------|---|--------------------|--|
| Europe        | Mr. C. JEHLE<br>TDK Electronics AG<br>Munich, Germany                     | +49 89 54020 2441  | <a href="mailto:christoph.jehle@tdk-electronics.tdk.com">christoph.jehle@tdk-electronics.tdk.com</a>     |
| North America | Ms. D. MARTIN<br>TDK Electronics Inc.<br>Fountain Hills, AZ, USA          | +1 480 836 4104    | <a href="mailto:debbie.martin@tdk-electronics.tdk.com">debbie.martin@tdk-electronics.tdk.com</a>         |
| South America | Mr. C. DALL'AGNOL<br>TDK Electronics do Brasil Ltda.,<br>Gravataí, Brazil | +55 51 3484 7158   | <a href="mailto:candido.dallagnol@tdk-electronics.tdk.com">candido.dallagnol@tdk-electronics.tdk.com</a> |
| India         | Mr. H. BAGHEL<br>TDK India Private Limited<br>Noida, India                | +91 12 04 50 58 42 | <a href="mailto:himalaya.baghel@tdk-electronics.tdk.com">himalaya.baghel@tdk-electronics.tdk.com</a>     |
| Greater China | Ms. S. SUEN<br>TDK Electronics Hong Kong<br>Limited, Hong Kong            | +852 3669 8224     | <a href="mailto:stella.suen@tdk-electronics.tdk.com">stella.suen@tdk-electronics.tdk.com</a>             |
| Japan         | Mr. Y. OSUGA<br>TDK Corporation<br>Tokyo, Japan                           | +813 6778 1055     | <a href="mailto:pr@jp.tdk.com">pr@jp.tdk.com</a>   |