

## EMC components

### EMC filters for drive applications

- Three-phase EMC filters available in L1 low-profile type and book type for drive applications
- Small size/light weight, installation area is the smallest class in the industry
- Designed for low leakage current design specifications as required by the Japanese market

August 4, 2020

TDK Corporation (TSE:6762) has extended its product range of EMC filters for the Japanese market and now offers the new EPCOS three-phase EMC filters series B84743\*R712 for drive applications that are available in L1 low-profile type and book type. TDK-Lambda Corporation will start shipping from August 2020.

The filters are available in the currents 80 A up to 150 A with a small mounting footprint and – as required by the Japanese market – low leakage currents based on 200 V AC delta connection mains with one corner grounded. Furthermore, two types of leakage current have been set by the Y capacitor (ground capacitor): 2 mA / 9.4 mA; 200 VAC / 60 Hz, delta connection. It is also possible to meet the attenuation effect required by customer.

The rated voltage specification of the B84743\*R712 is 520 V (maximum voltage in 3 phase), and three rated current models (80/100/150 A) are available. This is the first time that L1 book type is added to the product lineup.

This product development focuses on space-saving and weight reduction with the industry's smallest class of installation area: 240 x 130 x 80 mm for 80 A type, 270 x 130 x 80 mm for 100 A and 310 x 130 x 90 mm for 150 A type for L1 version (low profile – dimensions always with terminals). Compared to current products, the low-profile type saves space by 40% and is 45% lighter, contributing to downsizing and space-saving of the end equipment.

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#### Main applications

- Drive system (servo/inverter), factory automation, semiconductor manufacturing equipment, industrial equipment

#### Main features and benefits

- Suitable for drive system
- Two types of models with the same characteristics: low profile type and book type
- Small size/light weight, installation area is the smallest class in the industry
- Japanese specification for low leakage current design (2 mA / 9.4 mA; 200 VAC / 60 Hz, delta connection)

**Key data: B84743\*R712**

	<b>B84743*R712</b>
Rated Voltage(AC/DC)	520V, 3 phase
Rated current	80, 100, 150 A
Withstand voltage	2720 V DC, 2 s (line/case)
Leakage current (200VAC/60Hz Delta-connection)	2 mA Max, 9.4 mA Max
Operating Temperature	-25 to +100 °C
Rated temperature	+50 °C
Safety standard	IEC(EN)60939, UL60939, CSA C22.2 No.8

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**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.

**About TDK-Lambda Corporation**

TDK-Lambda Corporation is a trusted, innovative leader and global supplier of highly reliable power conversion products for industrial and medical equipment worldwide.

TDK-Lambda Corporation is aligned for fast responses to any customer need with R&D, manufacturing, sales and service locations in five key geographic regions, namely Japan, EMEA, Americas, China and ASEAN.

For more details, please pay a visit to: [www.jp.lambda.tdk.com/en/](http://www.jp.lambda.tdk.com/en/)

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