

High-voltage contactors

Portfolio extended for high current capabilities up to 500 A

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TDK Corporation has extended its HVC series of high-voltage contactors with the new HVC300 and HVC500 types with current capabilities of 300 A and 500 A, respectively. The new contactors can switch high voltages of up to 900 V DC, while types for 1200 V DC are available on request. Their gas-filled switching chamber ensures that arcs are safely and quickly extinguished when the current is switched off. Thanks to the extremely fast switching capability of the HVC high-voltage contactors the duration of arcs is especially short, thus enabling reliable operations over the entire lifetime of the contactor. The new types have the same compact design as the HVC200 for 200 A with the same dimensions of 89 mm x 44 mm x 93.5 mm (l x w x h). Like the HVC200, the new high-voltage contactors are available with coils for operating voltages of 12 V or 24 V. In addition, the series includes types with an output for switching status detection.

The HVC series is especially suitable for use in battery management systems and DC charging stations in e-mobility applications. Further applications include DC traction systems, photovoltaic, energy storage systems, and uninterruptable power supplies (UPS). These applications require fast and reliable disconnecting from the DC source.

Main applications

- Battery management systems and DC charging stations for e-mobility applications
- Photovoltaic and energy storage systems
- Uninterruptable power supplies

Main features and benefits

- High current capability of up to 500 A
- Hermetically sealed and high-speed arc extinguishing
- Optional detection of switching status

Key data

Ordering code	Type	Current capability [A]	Operating voltage [V]	Coil voltage [V]
B88269X1000C011	HVC200A-12	200	450	12
B88269X1010C011	HVC200A-24	200	450	24
B88269X1060C011	HVC200A-12S*	200	450	12
B88269X1060C011	HVC200A-24S*	200	450	24
B88269X1090C011	HVC300A-12	300	900	12
B88269X1100C011	HVC300A-24	300	900	24
B88269X1110C011	HVC300A-12S*	300	900	12
B88269X1120C011	HVC300A-24S*	300	900	24
B88269X1170C011	HVC500B-12	500	900	12
B88269X1180C011	HVC500B-24	500	900	24
B88269X1190C011	HVC500B-12S*	500	900	12
B88269X1200C011	HVC500B-24S*	500	900	24

* Including detection of switching status

About TDK Corporation

TDK Corporation is a leading electronics company based in Tokyo, Japan. It was established in 1935 to commercialize ferrite, a key material in electronic and magnetic products. TDK's portfolio includes passive components, such as ceramic, aluminum electrolytic and film capacitors, ferrites and inductors, high-frequency products, and piezo and protection components, as well as sensors and sensor systems and power supplies. These products are marketed under the product brands TDK, EPCOS, InvenSense, Micronas, Tronics and TDK-Lambda. TDK's further main product groups include magnetic application products, energy devices, and flash memory application devices. TDK focuses on demanding markets in the areas of information and communication technology and automotive, industrial and consumer electronics. The company has a network of design and manufacturing locations and sales offices in Asia, Europe, and in North and South America. In fiscal 2018, TDK posted total sales of USD 12 billion and employed about 103,000 people worldwide.

You can download this text and associated images from www.epcos.com/pressreleases.

Further information on the products can be found under www.epcos.com/hv_contactors.

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