

Service

TDK selection tool for PTC inrush current limiters

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TDK Corporation (TSE:6762) presents a new, user-friendly tool to help users select the right PTC inrush current limiters (ICL) for a range of different power supply and converter topologies. The intuitive tool is available online and does not need to be downloaded. The selection process is divided into four stages: After specifying the circuit structure and the capacitor bank's total capacitance, the developer must then enter the charging voltage and the maximum ambient temperature of the PTC inrush current limiter. After this has been done, the tool displays a list of suitable components for the user, and if a parallel connection is required, the number of components required is also shown. The most important key figures are also shown, as well as links to service distributors that sell the PTC ICLs.

One significant advantage of PTC inrush current limiters is the fact that they are intrinsically safe. In the event of an internal short circuit in the device when it is switched on, this component quickly limits the current to non-critical levels. Furthermore, this component ensures gentle charging of the DC link capacitors.

In addition to their use in converters and power supplies for industrial and household electronics, PTC inrush current limiters are also used in the field of e-mobility – such as in on-board charging circuits and for the charging and discharging of DC link capacitors in hybrid and electric drives.

About TDK Corporation

TDK Corporation, headquartered in Tokyo, Japan, is a leading global supplier of electronic solutions for a smart society. In keeping with its motto of 'Attracting Tomorrow', TDK uses its comprehensive materials expertise to help transform society from the pinnacle of technological progress. The company was founded in 1935 to market ferrites, which are key materials in the production of electronic and magnetic products. TDK's comprehensive, innovation-driven product range covers everything from passive components such as ceramic, aluminium electrolytic and film capacitors to magnetic, radio frequency, piezo and protective components. Our product portfolio also encompasses sensors and sensor-based systems, including temperature and pressure sensors as well as magnetic and MEMS sensors. TDK also provides voltage supplies, energy-related components, magnetic heads and more. Our products are sold under the brand names TDK, EPCOS, InvenSense, Micronas, Tronics and TDK-Lambda. TDK's business is focused on demanding markets in the automotive, industrial and consumer electronics sectors, as well as ICT (Information and Communications Technology). The company has R&D and manufacturing facilities as well as sales offices in Asia, Europe and North and South America. In the 2020 financial year, TDK achieved a turnover of USD 12.5 billion and employed around 107,000 people worldwide.

You can download the text and images of this communication at www.tdk-electronics.tdk.com/en/210217.

You can find further information about the products at www.tdk-electronics.tdk.com/en/ptc_icl_tool

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