

What is a network-side filtering reactor?

They are used to filter the high-frequency ripple caused by the inverter's PWM, smoothing the voltage wave at its output. We manufacture a wide range of network-side filtering reactors designed to filter the high-frequency ripple caused by the inverter's PWM, smoothing the voltage wave at its output. What benefits do our reactors offer?

Where are high-frequency reactors used?

High-frequency reactors are used in a variety of locations in electric vehicles (EVs) and hybrid electric vehicles (HEVs). Examples include step-up DC/DC converters between the battery and the inverter and AC/DC converters in battery charging circuits.

Can high-frequency reactor loss be measured?

This article introduced a method for measuring and analyzing high-frequency reactor loss, with reference to an actual measurement example. High-frequency reactors are used in a variety of locations in electric vehicles (EVs) and hybrid electric vehicles (HEVs).

What is a single phase DC reactor?

The single-phase DC reactor is mainly used between the DC link and the inverter link of the frequency conversion system. The main purpose is to limit the AC component superimposed on the DC current to a certain value.

What is the main function of the output reactor?

The main function of the output reactor is to compensate for the influence of long-line (50-200m) distributed capacitance, suppress output harmonic currents, increase output high-frequency impedance, effectively suppress DV/DT and reduce high-frequency leakage current, thereby protecting the inverter and reducing the effect of equipment noise.

Can we measure reactor loss with a high-frequency band?

In recent years, progress in the commercialization of SiC and GaN elements has made possible switching frequencies greater than 100 kHz, spurring demand for measuring instruments with high-frequency bands. This paper describes a method for measuring reactor loss with a high degree of precision, with reference to an actual measurement example.

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