
In this paper, the frequency domain discrete representation will be used to perform a preliminary loss model. The aim is to provide a fast and effective loss modelling method ...

This means that all high-frequency components of the fundamental wave are lost as useless energy (in the form of heat, sound, and vibration). As a result, engineers developing high ...

Motor drive systems using pulse width modulation (PWM) control techniques experience high-frequency switching losses in the ...

Motor drive systems using pulse width modulation (PWM) control techniques experience high-frequency switching losses in the inverter, while high-frequency motor losses ...

It is found that separate full-bridge inverters are preferable for designs in which switching losses are dominant, whereas three-phase inverters are prefer-able for designs in which conduction ...

For a total inverter power loss of approximately 20 W under high-load conditions, the coreless system could generate 2.3x to 2.6x more inverter output power at motor speeds ...

The paper presents efficiency and power loss analysis in a high-frequency, seven-level diode-clamped inverter (7LDCB). The inverter is composed of four-level (4L) diode ...

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The virtues of Wide Band Gap (WBG) devices and the increasing importance of inverters in the future grid have laid the foundation for high-frequency inverters t

o Mutual impact of different control sample times and carrier frequencies on IPMSM core loss is evaluated. o Relations of distortions in IPMSM voltage, current and flux density to ...

The high frequency loss is thoroughly analyzed, some of which are not taken into consideration in low frequency applications. Moreover, the loss distribution based on the new method can offer ...

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