

The current of one of the three phases of the inverter is high





Overview

What is a three-phase inverter?

A three-phase inverter is used in high-power applications and produces three-phase currents at its output. The energy produced by the inverter should be of high quality, with sinusoidal currents, to avoid disrupting the grid.

What should the output currents of a three-phase inverter be?

Three-phase currents produced at the inverter output should be close to sinusoidal for high energy quality. Three-phase inverters are used in high-power applications. While energy is being transferred to the grid, it is requested that the energy produced by the inverter be of high quality in order not to create a disruptive effect on the grid.

Where are multilevel three-phase inverters commonly used?

Multilevel three-phase inverters have been mainly finding applications in high-power UPS systems, motor drives, and traction systems. Multilevel three-phase inverters are preferred to conventional two-level inverters due to their improved waveforms quality (lower THD).

What does VSI stand for in a three-phase inverter?

For the three-phase inverter, we sub-divide into VSI (voltage source inverter) and CSI (current source inverter). We study the VSI (voltage waveforms, harmonics, calculation of the output voltage).



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Figure 22: Typical Phase to Neutral Voltages in Three-Phase Inverter Figure 23: Typical Phase Current for Three-Phase Inverter with RL Load It is crucial to note that freewheeling diodes ...

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