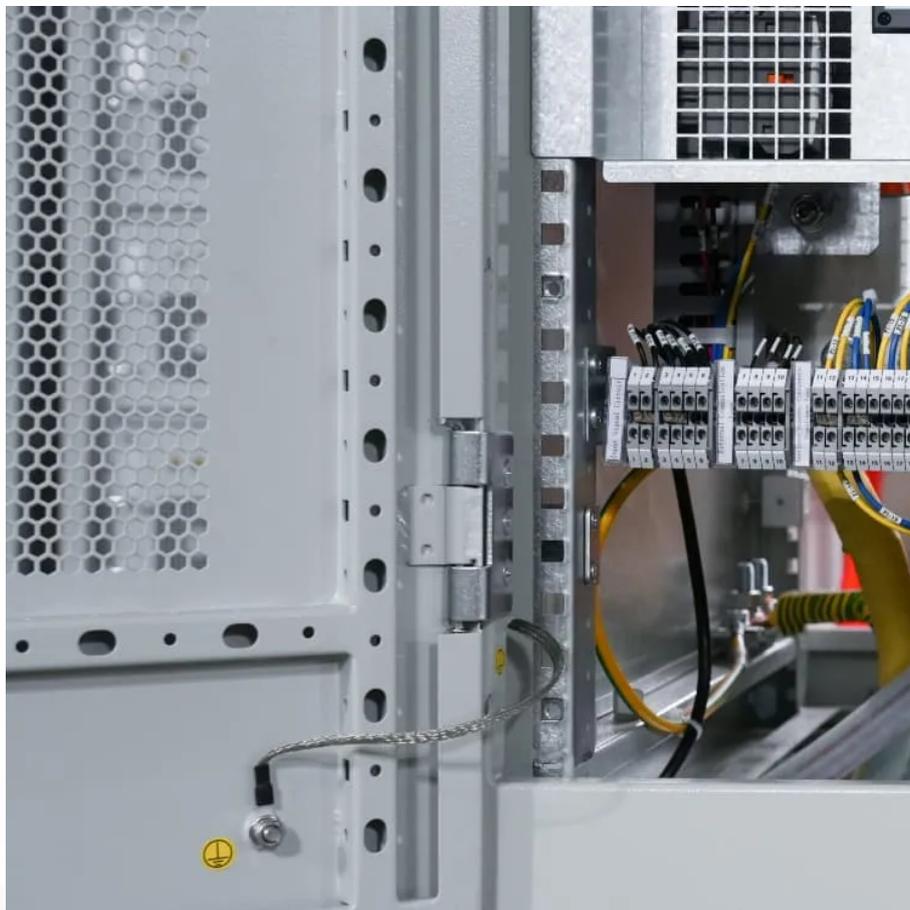


The current of one of the three phases of the inverter is high





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).



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

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