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## 320v voltage inverter

What is a 320-vdc input 3 phase power stage?

This reference design demonstrates a high-efficiency, 320-VDC input 3-phase power stage using six fast switching GaN-FETs with integrated driver, protection and temperature reporting with hot-side MCU control especially for motor-integrated servo drives and robotics applications.

What is IES2 AC input 3 phase inverter?

AC input 3-phase inverters with high energy efficiency up to IEC 61800-9 energy class IES2 not only help reduce the global energy footprint, but also enable smaller form factor and higher power density designs with reduced heat sink size.

What is a motor integrated 3 phase inverter?

Motor integrated 3-phase inverters are often supplied from single-phase 200- to 230-VAC input, equivalent to a rectified 320 VDC. Input power levels are typically less than 3 kW. Today the vast majority of 230-VAC-input servo drives leverage IGBT-based power switches with PWM switching frequencies from 8 kHz to 16 kHz.

How much power does a 230 volt servo drive use?

Input power levels are typically less than 3 kW. Today the vast majority of 230-VAC-input servo drives leverage IGBT-based power switches with PWM switching frequencies from 8 kHz to 16 kHz. Due to the power losses of the insulated-gate bipolar transistors (IGBTs), the size of the heat sink can be more than 30% of the overall 3-phase inverter size.

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