Ti three-phase inverter

Since SiC MOSFET switches much faster than i devices, the reverse recovery is much more severe. Si IGBT have higher conduction loss at light load, but the reverse recovery can be lower if a fast ...

This reference design is a three-phase inverter drive for controlling AC and Servo motors. It comprises of two boards: a power stage module and a control module.

This reference design provides an overview on how to implement a bidirectional three-level, three-phase, SiC-based active front end (AFE) inverter and power factor correction (PFC) stage.

Read more about this Reference design for reinforced isolation 3-phase inverter with current: voltage and temp protection.

With a modular design, this reference design supports both the C2000TM MCU and MSPM0 series microcontroller daughter-board on the same motherboard. The hardware and software available with ...

The document describes a reference design for a 10 kW bidirectional three-phase three-level (T-type) inverter and PFC that implements high-efficiency power conversion using SiC MOSFETs and ...

TIDM-02014 is an 800-V, 300 kW SiC-based traction inverter system reference design developed by Texas Instruments and Wolfspeed which provides a foundation for design engineers to create high ...

The three-phase inverter reference design shows how to design a compact hardware-protected power stage with low BOM count, in-phase current sensing, fault diagnostic capabilities and high efficiency.

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