Three-phase inverter development module

Overview

What is a three-phase inverter reference design?

Three-phase inverter reference design for 200-480VAC drives (Rev. A) This reference design realizes a reinforced isolated three-phase inverter subsystem using isolated IGBT gate drivers and isolated current/voltage sensors.

What is a three-phase string inverter system?

Three-phase string inverter systems convert the DC power generated by the photovoltaic (PV) panel arrays or 'string' into AC power fed into a 220V or higher three-phase grid connection.

Can pwr-tpi6020 be used as a three-phase inverter?

The module is optimized for use as a three-phase inverter. Its modular design, however, also makes it suitable as a full-bridge or a high-side or low-side driver. The PWR-TPI6020 enables you to control each single gate driver, and monitor the phase current and bus voltage of your closed-loop applications.

What is the power level of a 3 phase system?

The design of three-phase systems typically has a DC link operating at 1100 V or 1500 V. Power levels range from 8 kW to above 150 kW nowadays, used in large residential, commercial, and decentralized utility-scale applications.

What is an intelligent power module (IPM)?

This series of Intelligent Power Modules (IPM) for 3-phase motor drives contains a three-phase inverter stage, gate drivers. The SPM 31 design objective is to provide a minimized package and a low power consumption module with improved reliability.

Which Launchpad is used for inverter control?

The design uses a C2000TM LaunchPadTM for inverter control. An IMPORTANT

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