

PLC three-phase inverter





Overview

This guide will focus on the implementation of a 3 phase inverter with open-loop generation of 3 phase sinusoidal currents in a resistive load. The topology of this converter is shown in the following diagram. It is simply made of three half-bridge modules, each connected to an inductor in series with a resistor.

To be able to properly retrieve the measurements, the analog input channels of the B-Box RCP need to be configured properly (more information on the analog).

Two pieces of software are required to develop the B-Box control code. The imperix Automated Code Generation Software Development Kit (ACG SDK).

One could then connect the 3 phase inverter to the grid and replace the DC power supply with a photovoltaic panel with a boost stage, to form a Three-phase PV.



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[Design and implementation of PLC-based monitoring control system for](#)

Tests of the induction motor system driven by inverter and controlled by PLC prove a higher accuracy in speed regulation as compared to a conventional V/f control system. ...

[Design and Implementation of PLC-Based Monitoring Control ...](#)

Abstract-- This paper presents a design and implementation of a monitoring and control system for the three-phase induction motor based on programmable logic controller (PLC) technology. ...



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This paper presents a design and implementation of a monitoring and control system for the three-phase induction motor based on programmable logic controller (PLC) technology. Also, ...



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The PLC correlates the operational parameters to the speed requested by the user and monitors the system during normal operation and under trip conditions. Tests of the induction motor ...



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