

Industrial frequency inverter reverse output voltage





Overview

How does an inverter control a motor?

An inverter uses this feature to freely control the speed and torque of a motor. This type of control, in which the frequency and voltage are freely set, is called pulse width modulation, or PWM. The inverter first converts the input AC power to DC power and again creates AC power from the converted DC power using PWM control.

What is the basic design of a frequency inverter?

The basic design of a frequency inverter consists of just electronic components, without any mechanically moving components. Frequency inverters are made up of the following main assemblies: The rectifier converts the AC voltage on the input side into DC voltage.

How does a frequency inverter work?

The inverter circuit converts the smoothed voltage of the intermediate circuit into a three-phase alternating voltage. The system parameters are monitored in the subsequent control circuit. There is a motor at the output of the frequency inverter circuit. A current flows through it, which has been transformed accordingly by the inverter.

How does an inverter control circuit work?

The control circuit monitors and adjusts parameters, ensuring that the output frequency and voltage are perfectly tailored to the motor's needs. By altering the frequency, the inverter can slow down or speed up the motor, offering exceptional flexibility for processes requiring variable speeds.



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