

Troubleshooting A Variable Frequency Drive

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Variable speed drive is a sensitive electronic device. The drive will respond to fluctuations in system conditions and eventually drop off on a fault indication, depending on what part of the system is malfunctioning.

~~Troubleshooting a Variable Frequency Drive~~

Put a braking resistor on variable frequency drive. If the VFD has provisions for DC Bus voltage control utilizing an external resistor, buy the resistor and install it. If the variable frequency drive does not have that control, it can be added as an option package on most drive models. Otherwise the only way to compensate for this is to change the variable frequency drive parameters to prevent the VFD from decelerating the motor too quickly causing the regeneration which jacks up the bus ...

~~Variable Frequency Drive Troubleshooting~~

When that variable frequency drive (VFD) goes down, you're under pressure to get it back online. Don't let this pressure make you take even longer to resolve the problem. Instead, remember the VFD troubleshooting checkpoints: check the basics (the controller display, connections, and temperatures), check the motor, and check the drive - then check a little closer.

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Disconnect all power sources. Visually verify disconnection (when possible). Implement approved lock out / tag out procedure. Identify power sources (e.g., review drawings / documentation). Confirm electrically safe status (e.g., voltmeter measurement). Ground equipment as needed (e.g., capacitive energy storage).

~~Variable Frequency Drives Troubleshooting~~

There are many ways to control a variable frequency drive, but often the analogue and digital inputs are used. These can be programmed in many different ways. On Invertek's E3 drive parameters P-15 and P-12 can be used to select favourite settings for the two digital and two analogue or digital inputs. On P2 and Eco drives P1-13 and P1-12 do this, and there is more flexibility with these drives.

~~Commissioning and Troubleshooting Variable Frequency Drives~~

The multimeter should have at least a 1,000-V CAT III rating and the ability to make diode checks. Set the multimeter to Vdc. Connect the + (Red) and - (Black) leads from the meter to the dc bus terminals on the VFD. If the value is above 10 Vdc but reducing, wait until the excess dc bus voltage is below 10 Vdc.

~~VFD Troubleshooting 101 — with no power checks~~

Repair or replace motor: Incorrect drive set up: Verify/adjust parameter settings: Drive/motor not matched to load: Verify application requirements: Overtemp: Clogged filter: Clean, repair, or replace filter: Change in ambient temperature: Provide for additional cooling/ventilation: Fan blade damage or fan loss: Repair or replace fan: No power on drive

~~Plant Engineering | Troubleshooting VFDs~~

Troubleshooting Your VFDs. Variable-frequency drives (VFDs), also known as adjustable-speed drives (ASDs) have become the preferred method of controlling speed to meet load requirements. The most common drives use a pulse width modulation (PWM) design, which is affordable, reliable, and cost effective for most applications. While simple in their design, they can give you problems when it comes to taking operational and troubleshooting.

~~Troubleshooting Your VFDs | EC&M~~

A variable-frequency drive is a device used in a drive system consisting of the following three main sub-systems: AC motor, main drive controller assembly, and drive/operator interface.: 210–211 AC motor. The AC electric motor used in a VFD system is usually a three-phase induction motor. Some types of single-phase motors or synchronous motors can be advantageous in some situations, but ...

~~Variable-frequency drive — Wikipedia~~

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~~Variable Frequency Drives: Installation & Troubleshooting ...~~

Oftentimes when a drive trips on under voltage or over voltage, it becomes necessary to measure the DC bus voltage. Many drives can display real time DC bus voltage on the HMI screen. However, if it is desired to do data logging of the DC voltage or if it is suspected that the DC voltage sensing circuit is malfunctioning, then it may be required to measure DC bus

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voltage.

~~Troubleshooting VFD Problems—How to Measure DC Bus ...~~

Typically, the power supply to the variable frequency controller will start out as 3-phase AC power. The AC signal will be rectified and converted to a DC signal. The DC signal is then pulse width modulated (PWM) and filtered to feed a clean power signal to the motor.

~~VFD Fundamentals & Troubleshooting.ppt~~

Eaton's goal is to enhance your product competency, troubleshooting skills and safe operation of Eaton variable frequency drives. Eaton offers self-guided, eLearning and instructor-led training to achieve this goal.

~~Variable Frequency Drives—VFD—Eaton~~

In a typical variable frequency drive application the Setpoint (say pressure) may be set by an analogue input or fixed value, and the actual value by a pressure transducer connected to another analogue input. The error then continually adjusts the motor speed. Now to get good control as well as stability you need to process the error signal.

~~Closed Loop Control with Variable Frequency Drives | iKnow ...~~

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