

Sine wave inverter emc





Overview

Can a sine wave filter be used with a PWM inverter?

Please note that Series A Sine Wave Filters can only be used with PWM inverters with switching frequencies between 2kHz and 8kHz. BASIC SPECIFICATION RANGES - The Sine Wave Filter is available in voltage ranges of 200-230VAC, 380-480VAC, or 550-600VAC & for motor sizes from 1.5 Hp to 700 Hp.

What is a sine wave filter?

For Variable Frequency Drive (VFD) applications, MTE Sine Wave Filters eliminate the problem of motor/cable insulation failures, heating, and audible noise. Sine Wave Filters also reduce electromagnetic interference (EMI) by eliminating the high dV/dt associated with inverter output waveforms.

What are MTE sine wave filters?

MTE Sine Wave Filters help eliminate the high dV/dt associated with inverter output waveforms in applications where the distance between the motor and the inverter is up to 15,000 feet.

How do I select a sine wave filter?

SINE WAVE FILTER SELECTION - For variable and constant torque applications, select filters based on the current rating of the motor. Filter current ratings have been designed to meet the NEC requirements.



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S500 SPEC_A2 14925.cdr

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EMC Filters

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Sine Wave Filter

A sine-wave filter, which reduces these interfering signals, provides a remedy. In addition, the voltage peaks are attenuated as well as the electromagnetic compatibility (EMC), which ...

Sine Wave Filters

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