

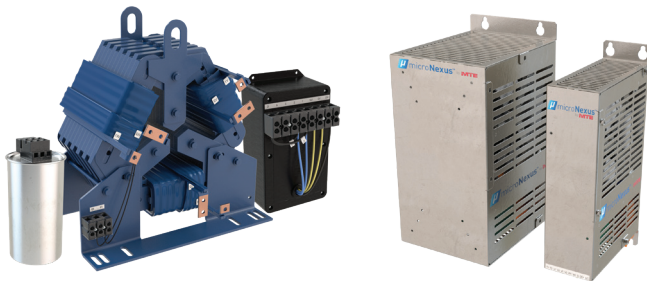
SineWave Nexus® and microNexus™ 5-Year Motor Bearing Warranty

mtecorp.com

Protect Your Motor Bearings from Harmful Electrical Fluting Damage - GUARANTEED

Product Overview

The SineWave Nexus and microNexus filters are the optimal solution for reducing common mode and differential mode voltages and currents. These filters provide complete motor protection - for any application - at any cable length.



Nexus Product Benefits

- Only comprehensive motor protection solution on the market
- Eliminates common mode and differential mode noise
- Pricy “VFD” cable and insulated bearings not required
- Extends the life of non-inverter and inverter duty motors
- Combines the protection of an isolation transformer and sinewave filter in one compact solution
- Ideal solution for critical applications and hazardous (Class 1&2) locations



For full warranty details and a registration form, scan the QR code or visit: www.mtecorp.com

Warranty Overview

MTE Corporation warrants AC induction motor bearings against failure from electrical fluting damage when MTE’s SineWave Nexus or microNexus filters have been installed with a new motor. If damage does occur, MTE will pay the current Vaughen’s National Average Price for “Furnish/Install 2 Standard Ball Bearings” and will also replace the SineWave Nexus or microNexus filter.



Warranty Requirements

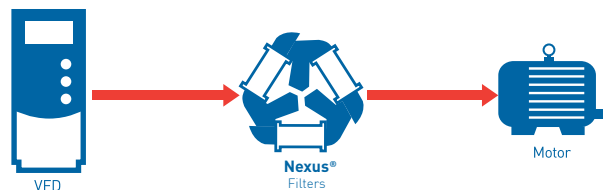
- The SineWave Nexus or microNexus filters must be connected in common mode assembly DC bus configuration to assure low impedance filter connection back to the drive.
- New bearings or a new unused motor must be installed at the time of initial application of the SineWave Nexus or microNexus filter for the warranty to be valid.
- There must be an approved registration within one (1) month of system commissioning. The warranty begins after registration approval and lasts for 5 years.

The optimal solution for reducing common mode
and differential mode voltages and currents.

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SineWave Nexus® and microNexus™



Performance Specifications

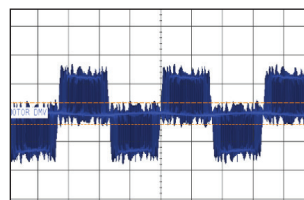
Current Range	2A - 160A	200A and Up
Input Voltage	380V - 480V +/- 10%; 50/60Hz	380V - 480V +/- 10%; 50/60Hz
Harmonic Voltage Distortion	<5% maximum @ 4kHz	<10% maximum @ 2kHz
Inverter Switching Frequency	2kHz to 8kHz	2kHz to 8kHz
Inverter Operating Frequency	6Hz to 75Hz	6Hz to 75Hz
Insertion Loss (Voltage)	10% maximum @ 60Hz	10% maximum @ 60Hz
Efficiency	>98%	>98%
Common Mode Attenuation	-20dB (>90% PWM common mode RMS voltage reduction) @ 4-8kHz	-20dB (>90% PWM common mode RMS voltage reduction) @ 4-8kHz
Maximum Ambient Temperature	Modular Filter -40C to +60C Enclosed Filter -40C to +55C Storage -40C to +90C	Modular Filter -40C to +40C Enclosed Filter -40C to +40C Storage -40C to +90C
Altitude Without Derating	3,300 feet above sea level	3,300 feet above sea level
Maximum Motor Lead Length	15,000 feet	15,000 feet
Relative Humidity	0% to 95% non-condensing	0% to 95% non-condensing
Current Rating	100% RMS continuous; 150% for 1 minute intermittent	100% RMS continuous; 150% for 1 minute intermittent

Final product specifications subject to change at anytime.

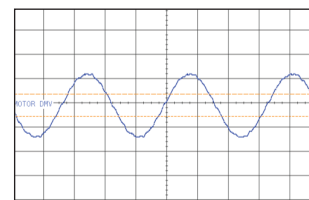


Nexus Performance:

Total Harmonic Voltage Distortion

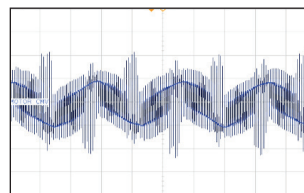


Without Nexus

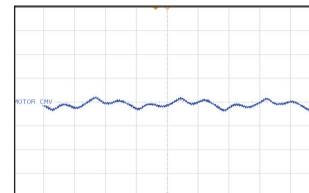


With Nexus

Common Mode Voltage

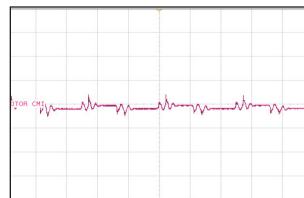


Without Nexus

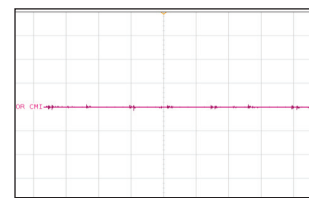


With Nexus

Common Mode Current



Without Nexus



With Nexus

MTE Corporation
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FORM: SWN-WAR-E 101623