

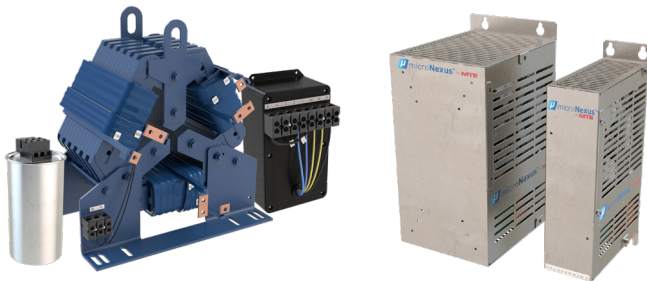
SineWave Nexus® and microNexus™ 5-Year Motor Bearing Warranty

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

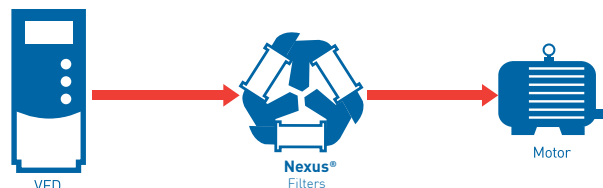
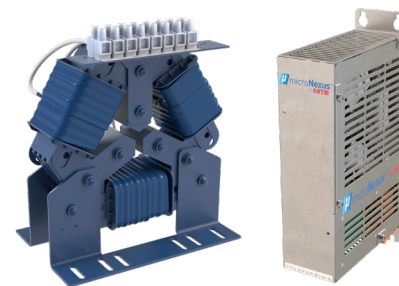
- The SineWave Nexus or microNexus filters must be connected in common mode assembly DC bus configuration to assure low impedance filter connection back to the drive.
- New bearings or a new unused motor must be installed at the time of initial application of the SineWave Nexus or microNexus filter for 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.

mtecorp.com



SineWave
Nexus® and
microNexus™

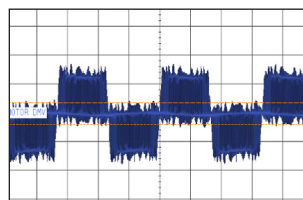


Performance Specifications

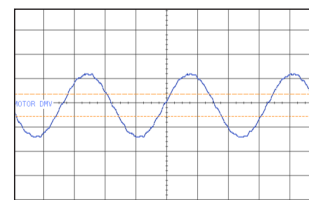
Input Voltage	<ul style="list-style-type: none"> • SineWave Nexus: 380V - 600V +/- 10%; 60Hz • microNexus: 380V - 480V +/- 10%; 60Hz
Current Range	<ul style="list-style-type: none"> • SineWave Nexus: 2A - 160A (≤1 HP - 125 HP) • microNexus: 2A - 22A (≤1 HP - 15 HP)
Harmonic Voltage Distortion	<ul style="list-style-type: none"> • SineWave Nexus: 5% maximum @ 4-8kHz • microNexus: 5% maximum @ 4kHz
Inverter Switching Frequency	<ul style="list-style-type: none"> • SineWave Nexus: 2kHz to 8kHz • microNexus: 4kHz
Inverter Operating Frequency	6Hz to 75Hz; >75Hz to 120Hz with derating
Insertion Loss (Voltage)	10% maximum @ 60Hz
Efficiency	>98%
Common Mode Attenuation	-20dB (>90% PWM common mode RMS voltage reduction) @ 4-8kHz
Maximum Sound Level	75dB @ 1 meter
Maximum Ambient Temperature	<ul style="list-style-type: none"> • SineWave Nexus Modular Filter: -40C to +60C • Enclosed Filter: -40C to +55C • microNexus: -40C to +40C • Storage for Both: -40C to +90C
Altitude Without Derating	3,300 feet above sea level
Maximum Motor Lead Length	15,000 feet
Relative Humidity	0% to 95% non-condensing
Current Rating	100% RMS continuous; 150% for 1 minute intermittent

Nexus Performance:

Total Harmonic Voltage Distortion

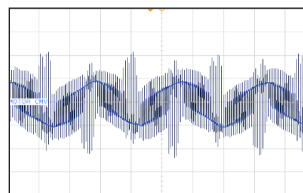


Without Nexus

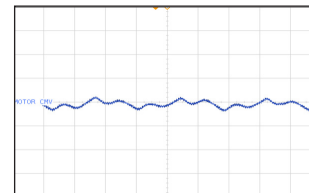


With Nexus

Common Mode Voltage



Without Nexus

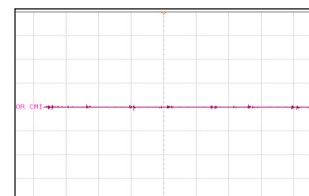


With Nexus

Common Mode Current



Without Nexus



With Nexus

Final product specifications subject to change at anytime.



MTE Corporation
(800) 455-4683 • (262) 253-8200



MTE
POWER QUALITY. SOLVED.
A STEEL PARTNERS COMPANY

FORM: SWN-WAR-E 063023