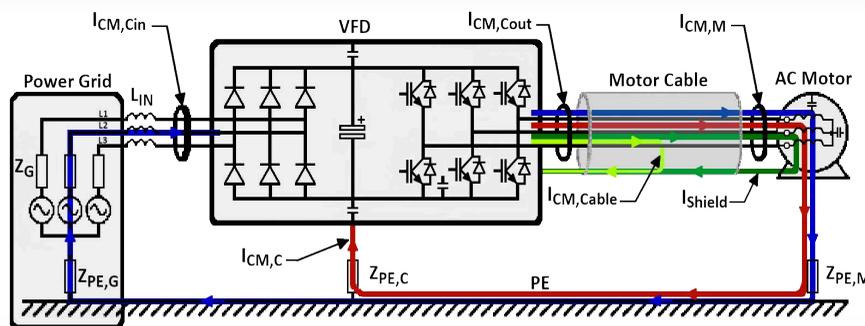


APPLICATION GUIDE

MH&W presents **Nanotech™** solutions, for the highest reliability and longevity of your VFD motor system!

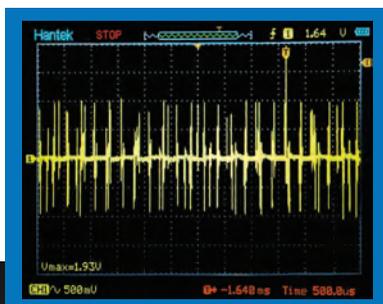
VFD's create high frequency damaging common mode currents which go out simultaneously from all outputs to the motor, but also couple back to earth ground.

If these currents aren't "absorbed" the effect will be lubrication breakdown and electrical discharge machining (EDM) damage in the motor bearing, and electromagnetic interference which affects control signals, encoder feedback, communication links for programmable logic controllers, Remote I/O, metal detectors, pump monitors, and other types of sensors including, ultrasonic sensors, bar code/vision systems, weight, and temperature sensors.

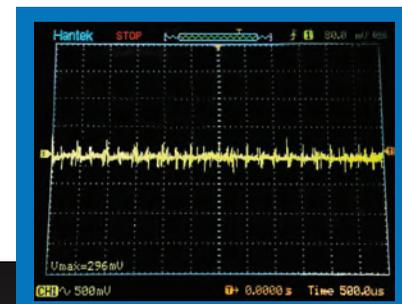


What is Nanotech™?

Nanotech™ CMC and DMC chokes are magnetic nanocrystalline cores that absorb high frequency damaging current before it gets transmitted to the motor and coupled back to earth ground. This method eliminates damaging motor bearing currents, EMI, maintenance costs, and standstill periods.



250HP without Nanotech™



250HP with Nanotech™

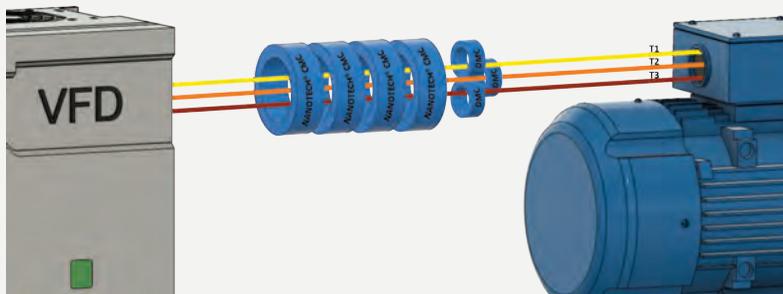
No Maintenance...unlike shaft grounding devices which are subject to rust, dirt, grease, and worn grounding brushes. **Nanotech™** eliminates the need for insulated bearings.

Nanotech™ Kit Application Guide

PER VFD HORSEPOWER/CABLE LENGTH

VFD Size	Cable Length			
	1-150'	151-300'	301-450'	451'+
UP TO 1HP	OKIT.0-1HP-150	OKIT.0-1HP-300	OKIT.0-1HP-450	OKIT.0-1HP-451+
1.1-10HP	OKIT1.1-10HP-150	OKIT1.1-10HP-300	OKIT1.1-10HP-450	OKIT1.1-10HP-451+
11-40HP	OKIT11-40HP-150	OKIT11-40HP-300	OKIT11-40HP-450	OKIT11-40HP-451+
41-50HP	OKIT41-50HP-150	OKIT41-50HP-300	OKIT41-50HP-450	OKIT41-50HP-451+
51-100HP	OKIT51-100HP-150	OKIT51-100HP-300	OKIT51-100HP-450	OKIT51-100HP-451+
101-428HP	OKIT101-428HP-150	OKIT101-428HP-300	OKIT101-428HP-450	OKIT101-428HP-451+
429-1631HP	RKIT429-1631HP-150	RKIT429-1631HP-300	RKIT429-1631HP-450	RKIT429-1631HP-451+
1632HP+	OKIT1632+HP-150	OKIT1632+HP-300	OKIT1632+HP-450	OKIT1632+HP-451+

- It is important to select kit based on VFD size, not motor: size to ensure you use the correct kit per application.
- Brackets are available from MH&W to help hold cores in place.
- Kits are applicable for servo and DC motors too.



A POWERFUL SOLUTION

NEW
FROM MH&W

MH&W presents **Nanotech™ REC Tube (Radiated Emission Choke)** for use instead of shielded motor cabling. To use, install the **REC Tube** (correct product per application guide) over the L1+L2+L3 cable. With the use of unshielded motor cables, the **REC Tube** absorbs the disrupting, radiated high frequency noise.

MH&W presents **THE SHIELD**, a VFD Induced High Frequency Common Mode Choke and EMI Absorber in an industrial enclosure for the highest reliability and longevity of your VFD motor system!

THE SHIELD uses specially designed common, differential, and radiated mode chokes to absorb damaging high frequency noise (frequencies from approximately 150 KHz-1GHz). EMI and RFI are unwanted electrical noise that can interfere with digital, analog, and communication equipment and processes.

Contact MH&W for more information on all our products.

FOR MORE INFORMATION

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