

Power Quality Problems?

- ***motors over-heating?***
- ***insulation failures?***
- ***excessive motor squeal?***
- ***electrical equipment noise issues?***
- ***RFI or EMI interference?***
- ***excessive power factor?***

*Meet IEEE-519 with
GUARANTEED
Results
see our Web Site for*

MTE, the International Power Quality Resource, offers a variety of power quality solutions improving the reliability and performance of variable speed drive systems and minimizing interference with other equipment.

MTE **Matrix** Filters solve input power harmonic distortion problems on virtually any kind of six pulse rectifier. These power supplies are commonly found in three phase electronic equipment such as adjustable speed motor drives, HVAC, uninterruptable power supplies (UPS), welders, battery chargers, servo drives and a wide array of other equipment.

New MTE Series A **Sine-Wave** filters provide a sine-wave output voltage for motor protection when driven from PWM inverters with switching frequencies from 2 kHz to 8 kHz. For drive applications, these filters eliminate the problem of motor insulation failures and reduce electromagnetic interference by eliminating the high dV/dT associated with inverter output waveforms where the distance between the motor and the inverter is up to 15,000 feet. In addition, MTE Series A Sine Wave Filters eliminate the audible noise produced in inverter driven motors.

MTE Series A **dV/dT** filters are also designed to protect AC motors from the destructive effects of peak voltages facilitated by cable runs up to 1,000 feet between the inverter and motor. Depending on the turn-on time (Semiconductor risetime) of the power semiconductors used in the inverter, and the size of the motor, these peak voltages can be extreme. Cable lengths as short as eight feet can result in motor peak voltages that exceed the rating of the motor's insulation system.

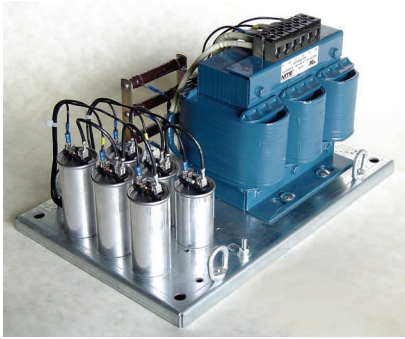
MTE also offers a broad line of AC Line/Load **Reactors**, DC **Link Chokes**, RFI/**EMI Filters**, Surge Arrestors and more.

If you're experiencing any of the problems listed above, or have any other power quality concerns, contact MTE, one of our Representatives, or our world-wide network of distributors for a recommendation of the right solution.

www.mtecorp.com

MTE Power Quality Solutions

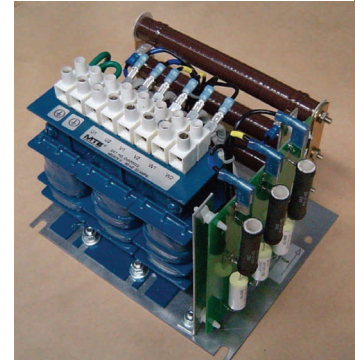
For both input power to the drive and output power to the motor.



Sine Wave Filters
For cables over 1,000 feet
and up to 15,000 feet



DC link Chokes
For DC Bus (AC voltage
source inverters) or on
the output of a DC Drive



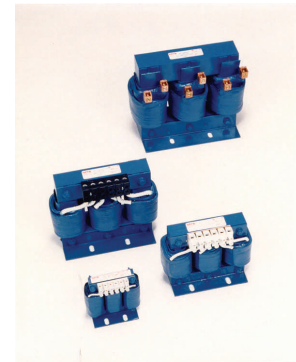
dV/dT Filters
For cables up to 1,000 feet



RFI/EMI Filters
For eliminating high
frequency electrical
noise



Matrix Harmonic Filters
For controlling input
harmonics



AC Line/Load Reactors
For drive and motor
protection

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