

Sinewave Filters | Load Side



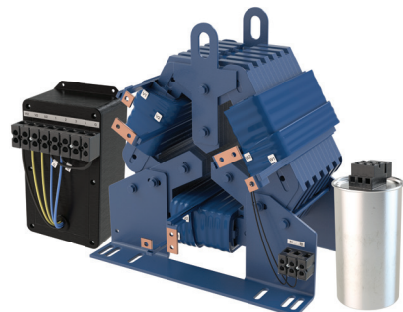
Nexus® Family

The only filter to provide complete protection from both common mode and differential mode VFD-induced issues.

Effectively mitigates all common-mode issues!

- Bearing damage
- Cable and winding overheating
- Longer run time for more efficient operation
- Eliminates need for: shaft grounding rings, VFD cable or inductive absorbers
- 5-year motor bearing warranty

SineWave Nexus®



microNexus®



- Extends motor life by eliminating failures caused by bearing currents
- Reduces motor noise and heating
- Lowers cable and winding heating
- Allows for multiple cables in the same conduit
- 5-year motor bearing warranty

- microNexus® offers the same protection plus:**
- Compact, space-saving design
 - Provisions for mounting VFD to the front of filter to save panel space and wiring
 - No need for additional cable trays in the cabinet

Protect Against:

- Motor Bearing Failure**
- Cable Heating**
- Motor Noise & Heating**
- VFD Faults**

WHEN TO CHOOSE:

- Time Sensitive Industries**
- Frequent Motor Failure**
- Limited Panel Space**

Reactors | Line or Load Side



Reduce harmonic levels by over 50%

- Extend equipment life
- Minimize downtime risk
- Maintain a cleaner power supply
- Enhance equipment reliability
- Save energy
- Reduce costs

RL Reactors



- Top tier overload protection
- Most robust, highest continuous service factor
- Low watts loss
- Premium performance and durability

RLW Reactors



- Proven performance in the field
- Reliable and economical
- Compact and light-weight
- Ideal for OEM's, integrators and panel builders

Protect Against:

- Surge Currents**
- Power Line Disturbances**
- Voltage Distortions**
- Nuisance VFD Tripping**

WHEN TO CHOOSE:

- Critical VFD Usage**
- Reliable Performance**
- Economical Solutions**

Energy Resilience



Cloud Uptime



Cooling Efficiency



Trusted by leading industries.

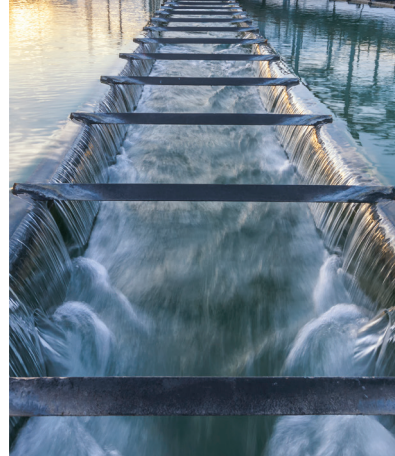
At MTE, we leverage our know-how to provide not just any solution, but the perfect solution customized to fit even the most demanding industries. As the power quality partner of choice for hundreds of leading companies, we protect your most valuable assets by combining our knowledge, expertise, and support to increase uptime and improve your bottom line.

Whatever the power quality problem, **MTE is the trusted solution.**

Expedited Delivery



Supply Assurance



Food Safety



Production Uptime



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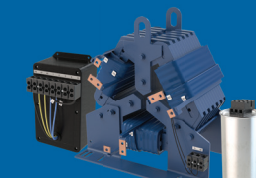
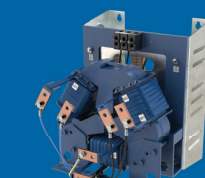
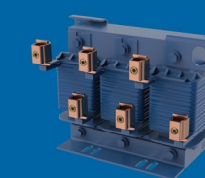
MTE
POWER QUALITY. SOLVED.
A STEEL PARTNERS COMPANY

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Power Quality Solutions

MTE is the power quality partner of choice for hundreds of leading companies.

- Solutions designed for your needs
- Reliable performance you can count on
- Partnership founded on trust & integrity



REACTORS // HARMONIC FILTERS // ACTIVE HARMONIC FILTERS // dV/dt FILTERS // SINEWAVE FILTERS

mtecorp.com

Harmonic Filters | Line Side



Matrix® AP



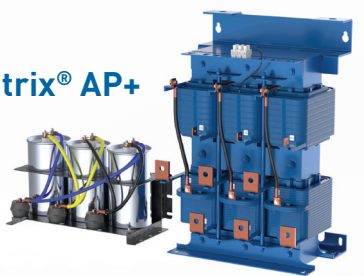
Advanced Passive Filtering

- Adapts to varying power loads
- Best performance in the industry
- Generator Friendly
- Performance guarantee

Improve power quality and reduce downtime

- Help prevent blown fuses, and tripped circuit breakers
- Optimize system efficiency
- Extend service life of electrical equipment

Matrix® AP+



- The ideal solution for environments with THVD up to 15%
- Helps eliminate drive faults due to high THVD
- Reliable mitigation even with fluctuating upstream THVD
- Integrated overload protection with auto reset
- Prevents magnetics-related saturation and instability

Matrix® E-Series



- Meets essential harmonic distortion requirements
- Flexible, compact design
- Easy to integrate and install

Matrix® One



- Single-phase solution
- Reduces system downtime
- Easy to install and maintain
- Increases energy efficiency

Protect Against:

- Overheated Components
- Circuit Breaker Trips
- Equipment Malfunction

WHEN TO CHOOSE:

- IEEE-519 Compliance
- Sensitive Equipment
- Energy Efficiency

SyntriX AHF®

The next generation of Active Harmonic Filter

Cutting Edge Silicon Carbide and Advanced Software Deliver Superior Results

Protect Against:

- Overheated Components
- Excessive Harmonic Distortion
- Poor Power Factor
- Nuisance VFD Tripping
- Utility Penalties

Available in Modular or Rack configurations!



Real-Time Harmonic Control

SyntriX AHF® continuously monitors and corrects harmonic distortion as system conditions change. Unlike passive solutions, it adapts instantly to fluctuating loads, reducing THID, improving power factor, and protecting critical electrical infrastructure. Its compact, modular design makes it ideal for both retrofit and new installations where compliance, efficiency, and scalability are essential.

- Real-time harmonic correction
- Effective for fluctuating loads
- Handles multiple harmonic signatures at once - 6 Pulse VFD / EC Fans / LEDs / etc.
- Corrects harmonics up to the 50th order
- Reduce THID to less than 5%

WHEN TO CHOOSE:

- IEEE-519 Compliance
- Mission Critical Facilities
- Fluctuating Loads

dV/dt Filters | Load Side



Protect your motors from VFD-induced damage

While VFDs enable precise motor control and energy savings, they also introduce power distortions that can lead to premature motor failure, ground fault trips, and erratic behavior. MTE's motor protection filters effectively mitigate — and often eliminate these issues. Delivering reliable protection even in the most extreme environments, from 50 ft to 15,000 ft.

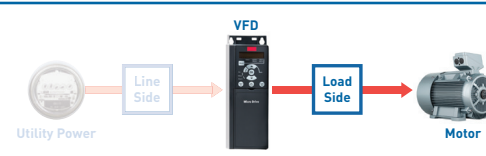
Compact, optimized design

- 60% more efficient than other dV/dt filters
- Convenient setup & handling

Protect Against:

- Reflective Waves
- Fast Rise Times
- High Peak Voltage

Sinewave Filters | Load Side



Easy to integrate, install & service

- Highest ambient temperature rating
- Extends motor life
- Reduces downtime
- Modular design for easy integration

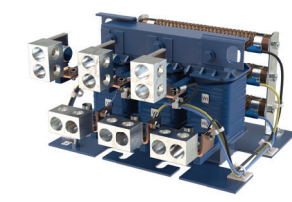
Protect Against:

- High Switching Frequency
- Voltage Peaks
- Motor and Cable Heating

WHEN TO CHOOSE:

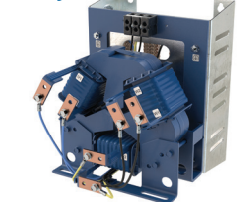
- Remote Locations
- High Switching Frequency
- Long Cable Runs

dV E-Series



- Rise time improvement
- Peak voltage protection
- Low watts loss (heat)
- Easy to install; Footprint and mounting compatible with competitive options
- Silent operation: Quiet as a conversation

dV Sentry®



- True common mode protection, peak voltage reduction, and rise time improvement
- World leading motor protection technology
- Low watts loss
- Compact design, easily installed
- Quiet as a conversation

WHEN TO CHOOSE:

- Cost Conscious Operations
- Voltage Spike Protection
- Short to Medium Cable Runs

SineWave Guardian®



- Increases motor life
- Easy to integrate, install and service
- Operates in high ambient temperatures
- High performance and reliability

Note: Available in variants optimized for use with high frequency motors.