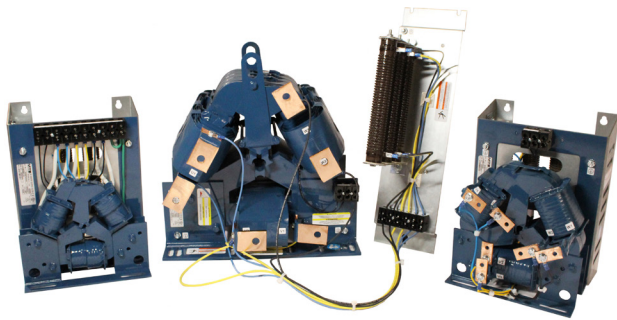


# dV/dt Filters dV Sentry™

Next generation  
motor protection



- True common mode reduction, peak voltage protection, and rise time reduction
- World leading motor protection technology in the market
- Low watts loss
- Small, advanced, robust design, easily installed
- Quiet as a conversation
- Three-year warranty

## The future is here.

The dV Sentry™ is like nothing you've seen before. Our latest technological innovation has made the dV Sentry the revolutionary solution for motor protection. With its patented design, the dV Sentry is the first proven filter that provides common mode reduction, peak voltage protection and rise time reduction – all in one unit. This gives greater motor protection over time. It features a small footprint and easy terminations to make installation faster and easier. Plus, it runs quietly and radiates less heat than previous filters. The dV Sentry is unique, and when it comes to motor protection, there is nothing better.



Power quality.  
Solved.

# With the patented dV Sentry™, you get the most advanced motor protection in its class.

The unique design of the dV Sentry allows for greater load side protection from voltage spikes and common mode voltages for your AC motors, cable and VFDs.

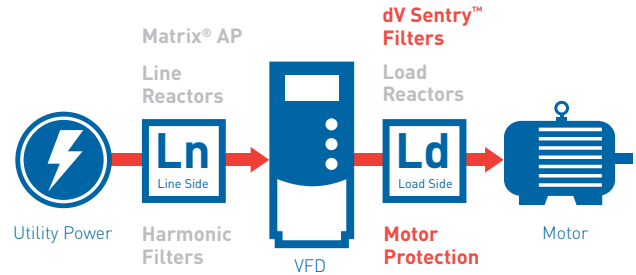
**Patented design** provides over 50% common mode reduction, peak voltage protection, and rise time reduction - all in one filter.

**Low watts loss** reduces heating in systems.

**Small footprint**, with a unique flat design, allows filter to be easily integrated.

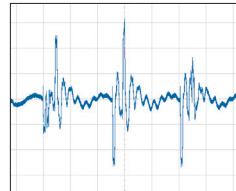
**Strong robust design** allows the filter to withstand installation and other difficult environments.

**Runs quieter**, comparable to a normal conversation.

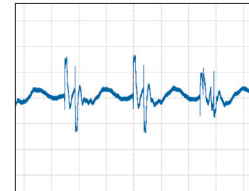


Input Voltage	380V - 600V, 50/60Hz
Current Range	3A - 600A
Available Form Factors	Panel NEMA 1/2 NEMA 3R
Max Peak motor Voltage	150% of DC bus voltage at 1000 feet
Rise Time	Less than 0.1uS
Insertion Loss	No more than 1.7% at 60Hz No more than 2.6% at 90Hz
Intermittent Current Ratings	150% continuous RMS (1 minute) 200% continuous RMS (10 seconds)
Carrier Frequency Range	3A - 110A: 900Hz - 10kHz (up to 14kHz with derating) 130A - 600A: 900Hz - 5kHz
Motor Frequency	Up to 90Hz without de-rating Up to 120Hz with de-rating
Agency Approvals	UL, cUL, CE, and RoHS
Motor Audible Noise	Less than 65dB
Service Temperatures	Enclosed -40C to 50C Open -40C to 60C
Warranty	THREE years from the date of shipment

## Common Mode Reduction:

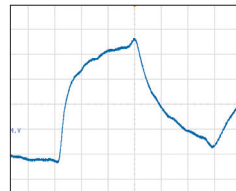


Without dV Sentry

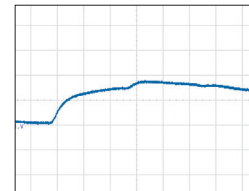


With dV Sentry

## Peak Rise Protection:

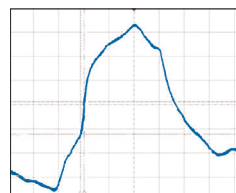


Without dV Sentry

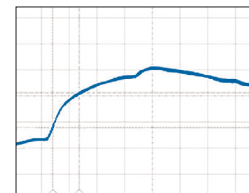


With dV Sentry

## Rise Time Reduction:



Without dV Sentry



With dV Sentry



Power quality.  
Solved.

## MTE Corporation

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