

MTE

POWER QUALITY. SOLVED.



dV Sentry™

Next Generation Motor Protection

dV Sentry™ Motor Protection Filter

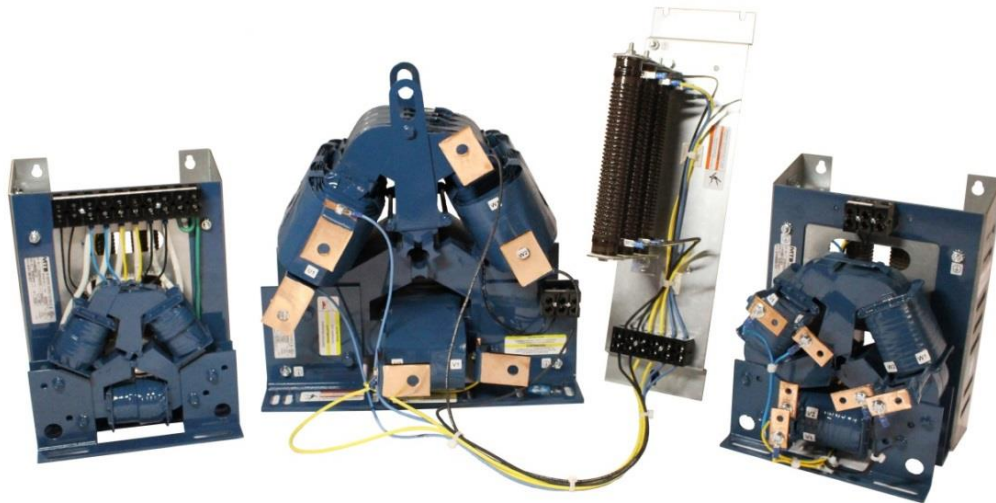
Patented core technology provides 3 in 1 motor protection – all in one filter

- Proven Common Mode Reduction up to 50%
- Peak Voltage Protection
- Rise Time Reduction

Small, Compact Design

Low Watts Loss

Three Year Warranty

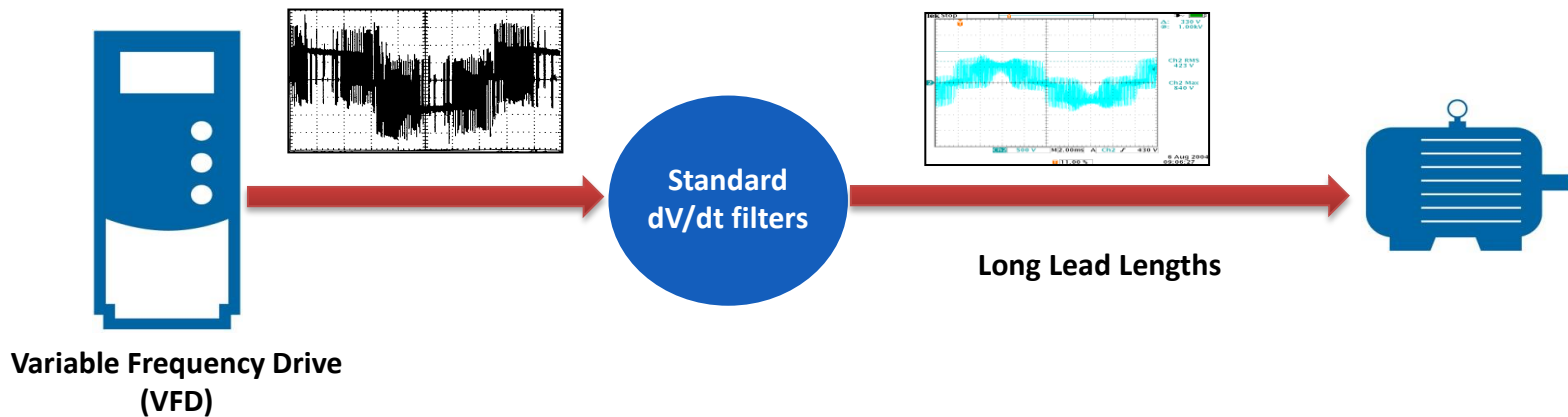


dV Sentry™ Product Family

dV Sentry™ Motor Protection Filter

Why are dV/dt filters used today?

Traditional dV/dt filters help ensure motor terminal voltages and rise times do not exceed to dangerous levels that can damage VFDs, cables and motors.



dV Sentry™ delivers new capabilities!

dV Sentry™ Motor Protection Filter

3 in 1 Protection

Patented *Triple Defense Core* Technology

1) Common Mode Reduction

- Proven common mode protection reduces exposure over 50%.

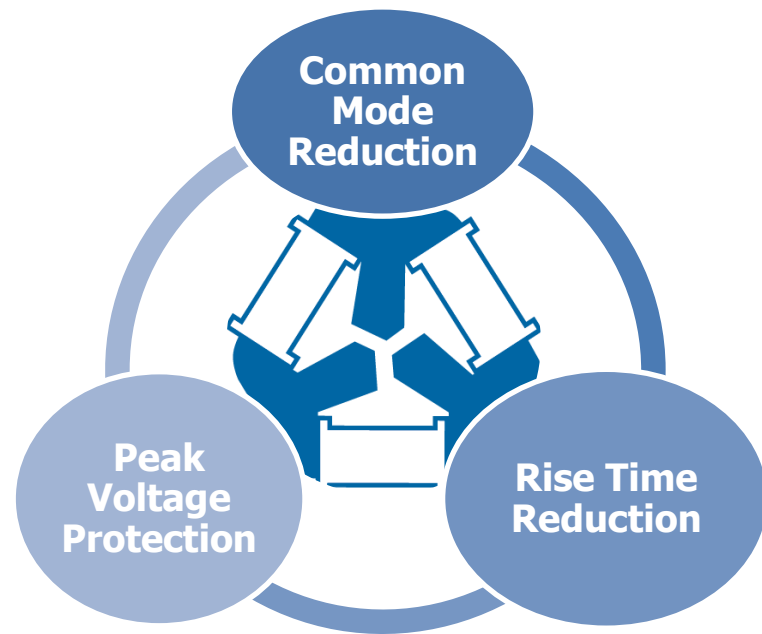
2) Peak Voltage Protection

- Core protects when voltage spikes reach dangerous levels.
- Max peak motor voltage with 1000 feet of cable 150% of DC bus voltage.

3) Rise Time Reduction

- Significantly reduces rise times and lowers heating of motor.
- Max rise time $\geq 0.1 \mu\text{s}$.

Only dV/dt filter to accomplish all three!



dV Sentry™ Motor Protection Filter

Triple Defense Core Technology

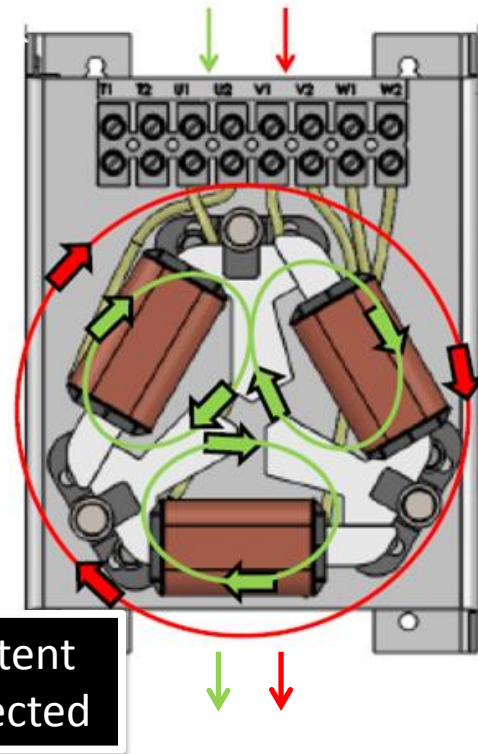
Unique dV Sentry™ geometry allows filtering in two paths that current dV/dt filters can't achieve.

Common Mode Reduction (→)

Power filters through outer core and reduces common mode current over **50%**.

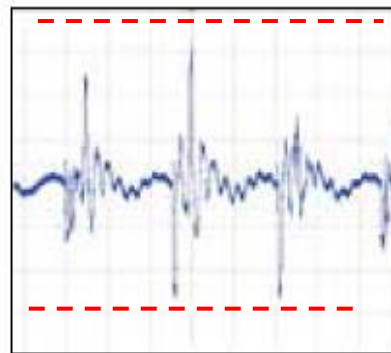
Peak Voltage Protection + Rise Time Reduction (→)

Power filters through inner core and reduces rise time and gives peak voltage protection.

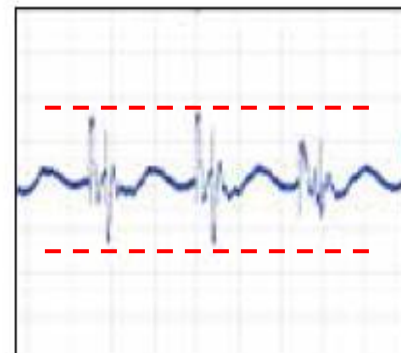


Proven Common Mode Reduction

- **dV Sentry's patented core design reduces Common Mode by over 50%!**
- **Symptoms of motors without Common Mode protection:**
 - Motor bearing damage
 - Unexpected ground fault trips
 - Erratic behavior of VFDs and PLCs (Programmable Logic Controller)
 - Premature motor insulation failure
 - Cable damage



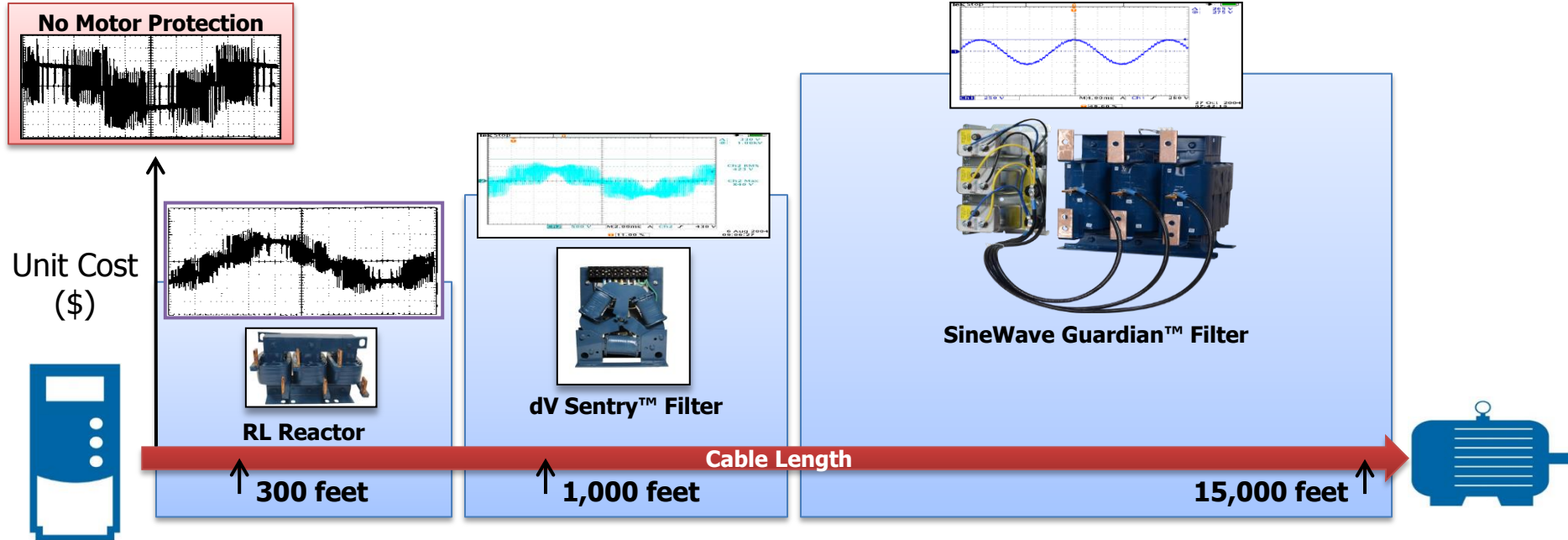
Without dV Sentry



With dV Sentry

dV Sentry™ Motor Protection Filter

MTE's Complete Motor Production Offering



**Speak to an
MTE representative
for more
information**



dV Sentry™
Filters