

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 the revolutionary solution for motor protection with its unique all-in-one design. It is the only filter on the market proven to provide common mode and rise time reduction, as well as peak voltage protection. 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.

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.

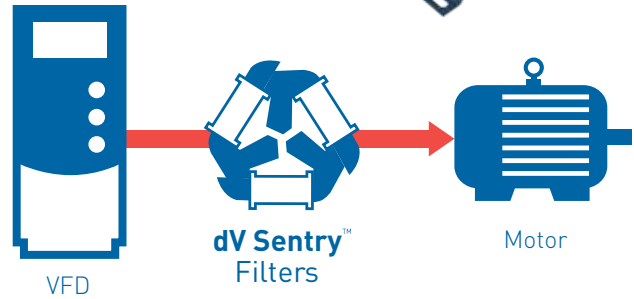
Low watts loss reduces heating in systems.

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.

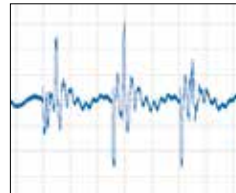
Runs quieter, comparable to a normal conversation.

dV Sentry™

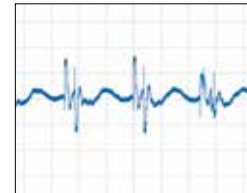


Performance Specifications	
Input Voltage	208V - 600V +/- 10%; 60Hz
Current Range	3A - 600A (2 HP - 600 HP)
Inverter Operating Frequency	Up to 90Hz without derating Up to 120Hz with derating
Maximum Ambient Temperature	-40C to +60C modular filter -40C to +50C enclosed filter
Insertion Loss (Voltage)	1.7% @ 60Hz; 2.6% @ 90Hz
Efficiency	>99%
Altitude Without Derating	3,300 feet above sea level
Maximum Motor Lead Length	1,000 feet
Relative Humidity	0% to 99% non-condensing
Current Rating	100% RMS continuous 150% for 1 minute 200% for 10 sec
Carrier Frequency Range	3A - 110A; 900Hz - 10kHz (up to 14kHz with derating) 130A - 600A; 900Hz - 5kHz
Motor Audible Noise	Less than 65dB
Rise Time	Less than 0.1 uS
Peak Voltage	150% of DC bus voltage up to 1,000 feet
Common Mode Reduction	50%+ peak current reduction typical

Common Mode Reduction:



Without dV Sentry

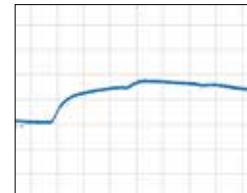


With dV Sentry

Peak Rise Protection:

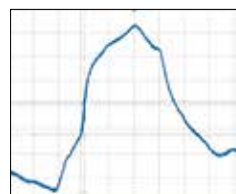


Without dV Sentry

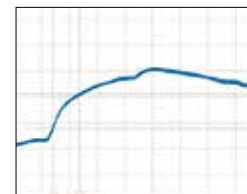


With dV Sentry

Rise Time Reduction:



Without dV Sentry



With dV Sentry

Final product specifications subject to change at anytime.



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