

CTM Magnetics

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Subject: Common Mode Noise

Application: All Magnetic Applications

Case Study: CTM vs. Competitor Filters

COMMON MODE NOISE

Overview:

Common-mode (bearing) current can have disastrous effects on induction motors, leading to electric fluting and premature bearing failure. Conventional sine wave filters introduce substantial common mode noise that will damage the motor. Some companies even sell common mode filters to reduce the noise produced by their very own sine wave filters. That’s just not right.

CTM Magnetics offers sine wave filters that do not introduce common-mode currents.

CTM vs. COMPETITOR FILTER PERFORMANCE

Below is a graph comparing the common mode noise produced by three different sine wave filters. This is actual measured field data. It was provided to CTM by one of our customers. Stop compromising on filters that introduce more common mode noise. Better solutions exist today. Choose CTM.

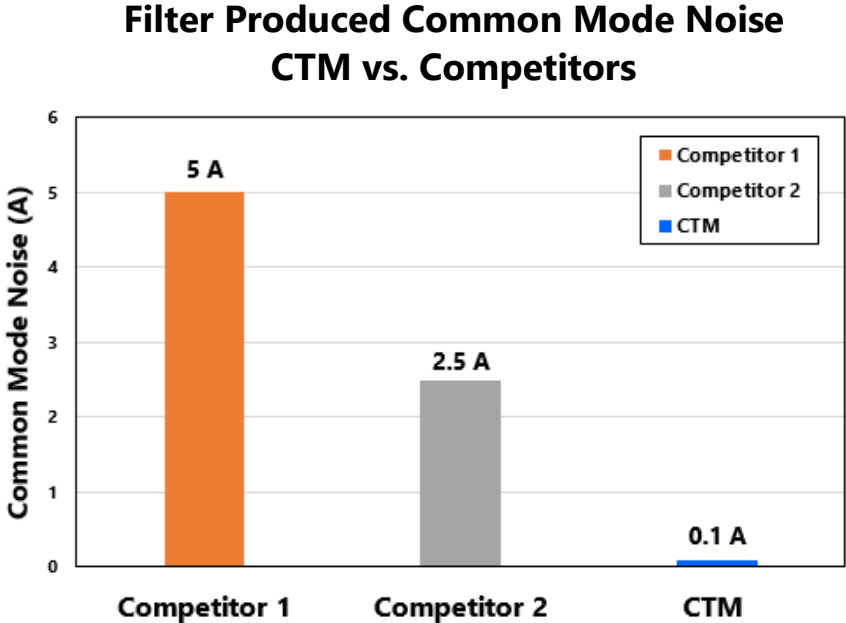


Figure 1. Common Mode Noise Comparison