

# NEWS RELEASE

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PLEASE REFER TO THIS NUMBER: SCH-A-7926



## ECOsine™ Power Quality Filters Calm Down Harmonic Waves

*The introduction of Schaffner ECOsine™ filters concludes the era of bulky passive harmonic mitigation products. Superior filter topology and advanced temperature management result in high performance filters in a surprisingly compact, lightweight and contemporary package.*

**Edison, N.J. May 2008** – With the introduction of ECOsine™, Schaffner, the international leader in the fields of electromagnetic compatibility and power quality, is raising the bar for harmonic mitigation products. The new load-applied passive harmonic filters represent the ideal solution for three-phase power electronics with 6-pulse rectifier front ends, such as AC and DC motor drives.

As a result of the significant reduction in total harmonic current distortion (THID) to <5%, ECOsine™ filters can uniquely guarantee compliance with the toughest requirements of IEEE 519 and other stringent international power quality standards. Rectifier peak and RMS input current are reduced and a pure sine wave is drawn from the grid. The reduction in current consumption for the same power level saves precious energy and helps to make better use of existing electric system capacity. For new installations, the use of ECOsine™ filters even allows electric conductors, fuses and breakers to be downsized, or enables a greater number of drives to be powered by a given size of distribution transformer.

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ECOsine™ harmonic filters are available in two ranges: one for 50 Hz grids (FN 3410 series) and the other for 60 Hz systems (FN 3412 series). They can easily be selected on the basis of the actual input power demand of an individual load or a group of loads. Because of their compact package, they can be installed right inside the electrical cabinet next to the drive. A simple plug-and-play concept allows for quick installation, wiring and commissioning, without the need for system analysis or the involvement of highly trained specialists.

A standard safety feature continuously monitors filter temperature, controls the internal fans and provides an NC/C contact for seamless integration into a machine or system control unit.

ECOsine™ FN 3410 filters are designed for 380 V to 500 V, 50 Hz grids and are available for power ratings from 4 kW to 160 kW. FN 3412 filters are suitable for 440 V to 480 V, 60 Hz grids with standard ratings ranging from 5 HP to 250 HP. All filters are UL-approved, CE-marked and RoHS-compliant. As a custom design specialist, Schaffner can always provide solutions beyond standard filter specifications for higher power ratings, different grid types or to meet local utility requirements. Please visit [www.myecosine.com](http://www.myecosine.com) for more details, a full color brochure and a comprehensive application note.

Pricing for OEM quantities of the ECOsine™ filter start at \$650 each. Delivery after July 2008 is 4-6 weeks ARO.

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For more information, please contact Amelia Carrasquillo, Schaffner EMC Inc., 52 Mayfield Avenue, Edison, N.J. 08837. Tel: (732) 225-9533 ext. 253; Fax: (732) 225-4789; E-mail: [usasales@schaffner.com](mailto:usasales@schaffner.com). Web: [www.schaffnerusa.com](http://www.schaffnerusa.com).

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**READER SERVICE INQUIRIES:** Please forward all reader service inquiries to Amelia Carrasquillo, Schaffner EMC Inc., 52 Mayfield Avenue, Edison, N.J. 08837.

**EDITOR'S NOTE:** Schaffner EMC Inc. is an international leader in electromagnetic compatibility and power quality. It offers the world's largest range of EMI components and EMC modules, which guarantee the smooth and efficient interaction of electric and electronic systems, as well as power magnetics, reactors and transformers. The company focuses on high-growth sectors such as the automotive industry, building automation, industrial electronics, consumer goods, aerospace, medical technology, power supply systems telecommunications, transportation and alternative energy production.

