

New Low Leakage Current Filters from Schaffner Meet Market Demands with High Mounting Flexibility

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Schaffner's new [FN304X](#) series of low leakage current filters are filling a significant gap in the robotics market and other industrial applications for low-profile 3-Phase filters.

Anticipating supply challenges creating hurdles in the market, Schaffner developed flexibility in its manufacturing processes to mitigate this impact which has resulted in high availability of its new low leakage current filters. The [FN3040, FN3041, FN3042 and FN3043](#) electromagnetic compatibility (EMC) filters are rated for currents of 10 A–30 A at 50°C. Produced specifically to meet customer demands, the tight-packaged filters are smaller than their predecessors yet offer superior performance in different levels (Ferrite or Nano Crystalline versions), Flexible design possibilities are available thanks to the embedded terminals being easy to connect and optional (FN3042 / 43) DIN Rail mounting.

Meeting European EMC Requirements

Designed to satisfy the particular EMC requirements of the European market, the [FN304X](#) filters are especially well-suited to grids with very tough requirements and other applications that have safety and reliability as a main focus. A plastic housing combined with a metal ground plate achieves the lowest possible product weight without compromising EMC behavior while fixed, hinged terminal covers enhance safety levels by protecting against contact with live conductors.

Other features of the industry standard form factor filters include leakage current between 0 mA and 0.40 mA depending on voltage level and inductance from 0.5 mH to 12.9 mH at 1 kHz.

Ecologically Designed

The new low leakage current filters are ideal for use in applications such as robotics, electrical and electronic equipment, industrial automation, test & measurement devices and small machines. Designed with sustainability in mind, the filters feature raw materials that can be easily separated at the end of the product's working life for environmentally safe disposal.

For more information, visit the Schaffner website at [schaffner.com](https://www.schaffner.com)

Schaffner plays a vital role in building a sustainable future in the new era of electrification. Headquartered in Switzerland and with subsidiaries around the world, Schaffner is a global leader in electromagnetic solutions that ensure the efficient and reliable operation of electronic systems. The Schaffner Group are experts in EMC filter solutions, harmonic filters, electromagnetic components and electromagnetic solutions. Our passionate and knowledgeable employees empower our customers to develop reliable electronic devices and systems that meet compliance standards and deliver increased energy efficiency.

This is how we deliver...

MORE POWER TO YOU.

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