

FINHRM5C

Applications

- VFDs and servo drives
- Processing and industrial automation
- Water & wastewater
- Oil & gas
- HVAC systems
- SCRs - Silicon controlled rectifiers

Features

- Compact size – one of the smallest in the industry
- Maintains THDI <5% with an unbalanced voltage of 2.5%
- Rated current from 10 to 1400A
- Rated up to 690 Vac for the HV version
- Enclosure options available – NEMA 1 and 3R

Benefits

- UL approved for USA and Canada
- Ensures compliance for international standards IEEE-519 and IEC61000-3-12
- Low power loss and operating temperature
- Reduces system loss from harmonic distortion
- Unaffected by network conditions

Passive Harmonic Filter

The new Enerdoor FINHRM5C filter is the most advanced and innovative passive harmonic filter available with excellent attenuation of current harmonic distortion and overvoltage spikes.



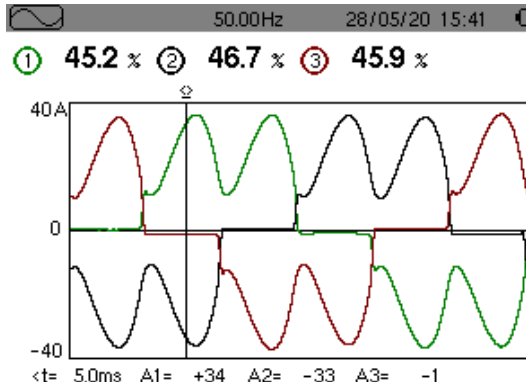
FINHRM5C

This filter features a compact size and is one of the smallest in the industry taking up much less cabinet space than other passive harmonic filters.

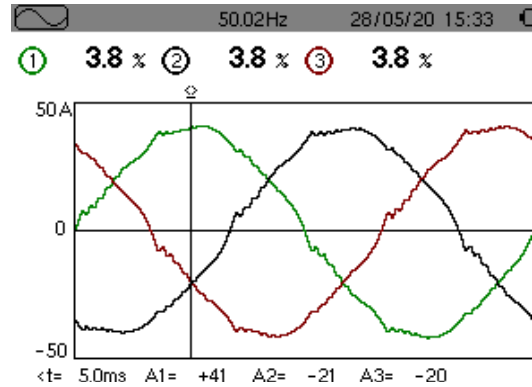
It ensures compliance with international IEEE-519 and IEC61000-3-12 harmonic standards, carries UL approval for the US and Canada, has support for applications up to 1400A and reduces THD to <5% with an unbalanced voltage of 2.5%.

This series has a low operating temperature and uses Class H Materials (180°C) allowing the filter to be used in ambient environments up to 70°C without derating. Under an 8-hour strenuous test at full load, the FINHRM5C series maintained a temperature under 70°C (158°F).

THD Current without and with FINHRM5C Harmonic Filtering



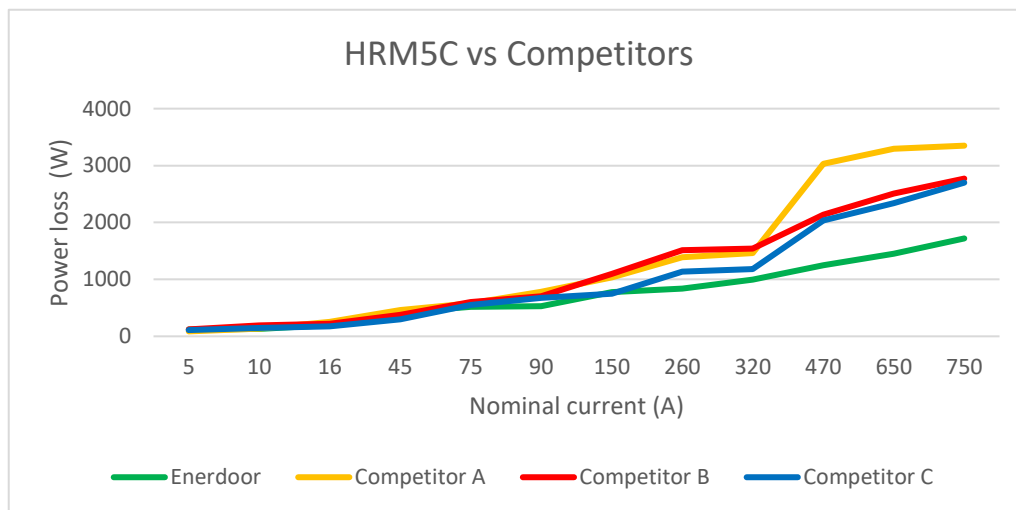
THD Current Distortion from VFD - No Filtering



THD Current Distortion from VFD – with FINHRM5C

With the FINHRM5C the end-user may ensure conformity with international harmonic emission standards, avoid utility fines for poor power quality, and mitigate issues that emerge from high harmonic emissions.

Power Loss Performance Comparing an Enerdoor HRM5C vs Three Major Competitor Filters



As the graph demonstrates, the Enerdoor passive harmonic filter FINHRM5C has much less power loss than the competition. This means lower temperatures inside the cabinet, resulting in decreased heat dissipation and energy costs.