

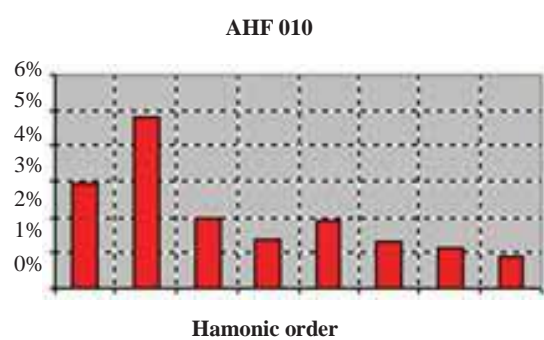
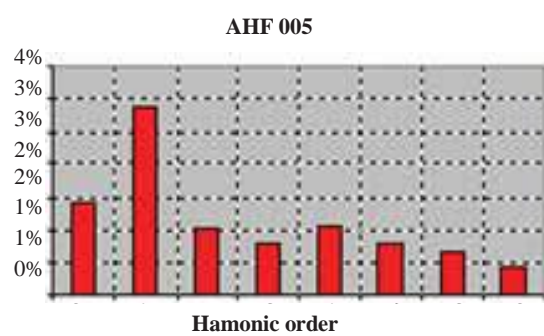
# VLT® Harmonic Filter AHF 005/010



The Danfoss AHF 005 and AHF 010 are advanced harmonic filters not to be confused with traditional harmonic trap filters. The Danfoss harmonic filters have been specially designed to match the Danfoss frequency drives.

AHF 010 reduces the harmonic current to less than 10% and the AHF 005 reduces the harmonic current to less than 5%.

## Excellent performance



Danfoss harmonic filters perform excellently.

The figures show the reduction of each of the sub-harmonic orders at full load.

Calculation Danfoss has created a PC based program MCT31 for calculation of harmonics with different principles for suppression. It can calculate the harmonics for Danfoss Frequency Converters depending on actual system (transformer, cables, other loads etc.)

## Features

- Small compact housing that fits into a panel
- Easy to use in retrofit applications
- AHF 010 reduces the total harmonic current distortion to 10%
- AHF 005 reduces the total harmonic current distortion to 5%
- One filter module can be used for several frequency drives
- High efficiency (> 0.98)
- User-friendly commissioning – no adjustment necessary
- No routine maintenance required

# Specifications

## **General technical data:**

The reduction of the low harmonic current emission to the rated THiD implies, that the THvD of the non-influenced mains voltage is lower than 2% and the ratio of short circuit power to installed load (R SCE ) is at least 66%.

Under these conditions the THiD of the mains current of the frequency converter is reduced to 10% or 5% (typical values at nominal load).

If these conditions are not or only partially fulfilled, a significant reduction of the harmonic components can still be achieved, but the rated THiD values may not be achieved.

