

Date: 28/05/2014
Description: Noise Trace of the LFR/03/3

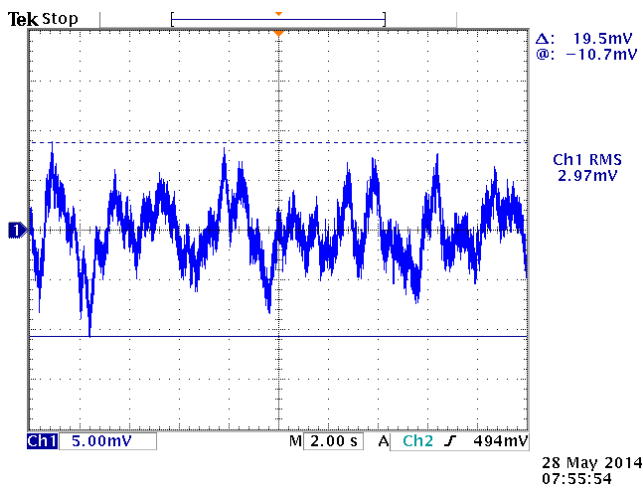
LFR Noise Measurements

The low frequency noise of each model is quoted in mVrms on the datasheet. For the LFR03/3 the typical noise values are as follows:

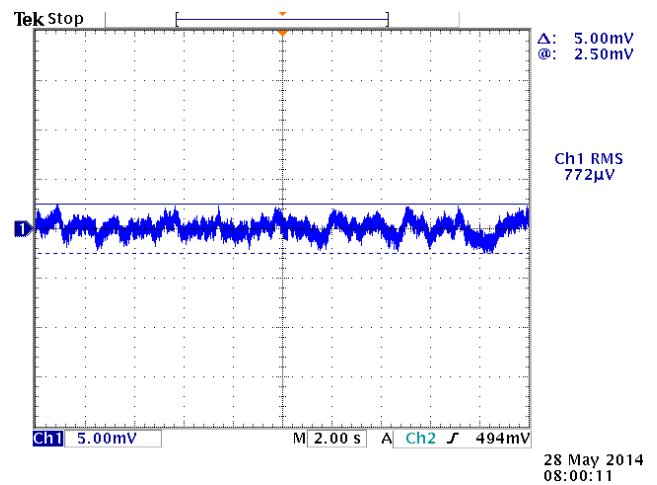
x10 range	x1 Range
3mVrms	1mVrms

An oscilloscope is used to capture the typical noise waveform for each current range below:

x10 range (100mV/A)



x1 range (10mV/A)

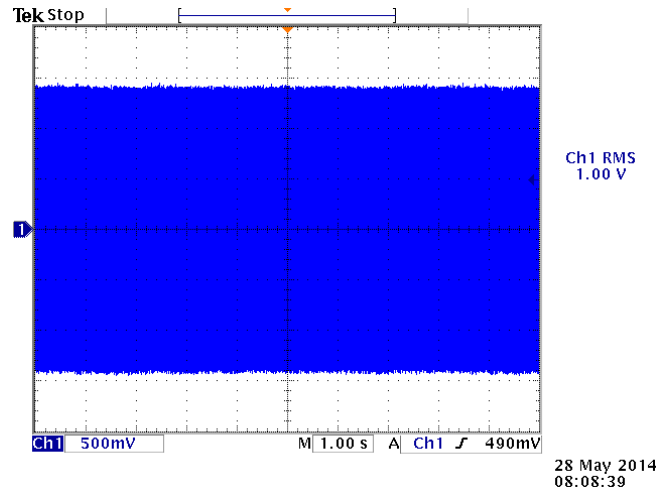
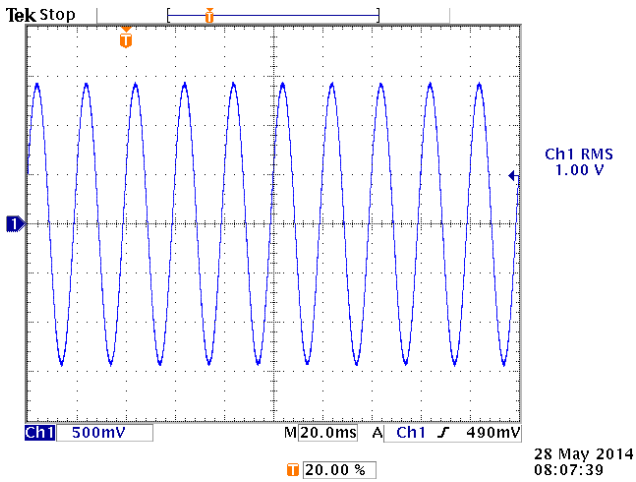


The majority of the noise is very low frequency and is centred on the low frequency bandwidth, which is 0.45Hz for the LFR03/3.

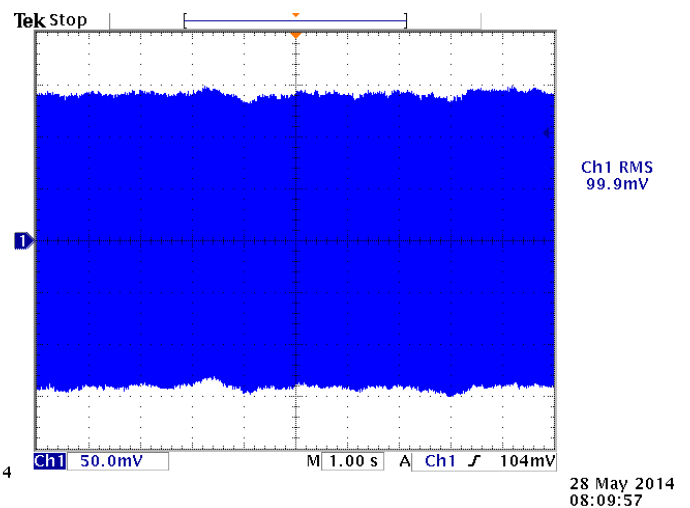
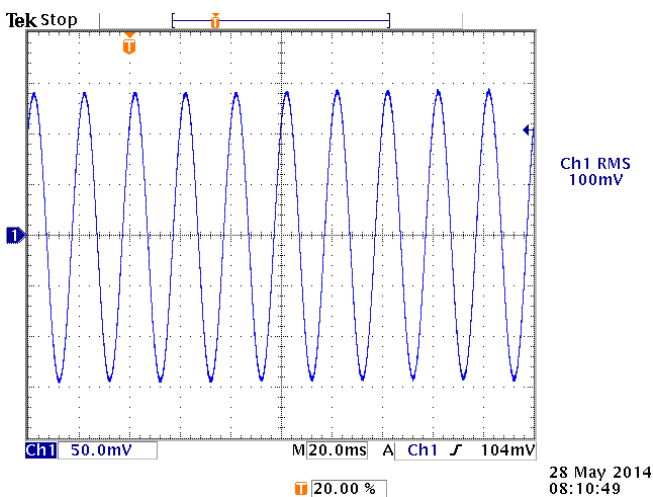
LFR Signal to Noise Considerations

In the following traces the LFR03/3 has been used to measure 50Hz currents of different magnitudes to illustrate the effect of noise on the measurement. All measurements are made on the x10 range.

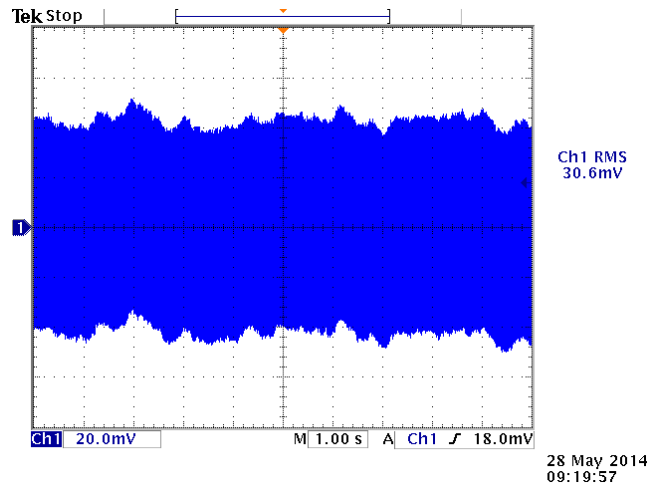
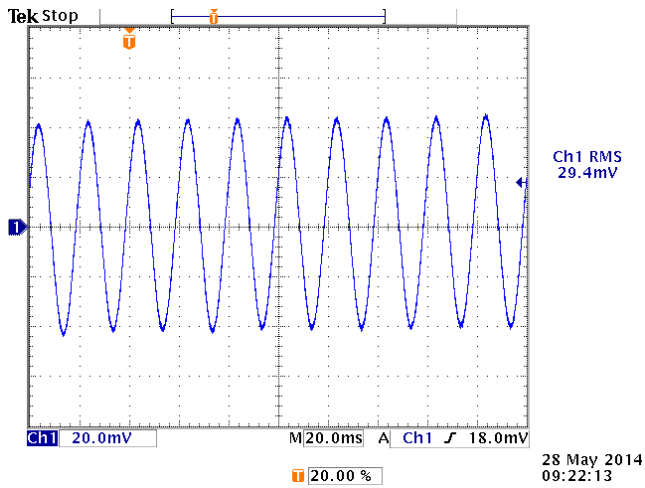
10Arms, 50Hz



1Arms, 50Hz



300mArms, 50Hz



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