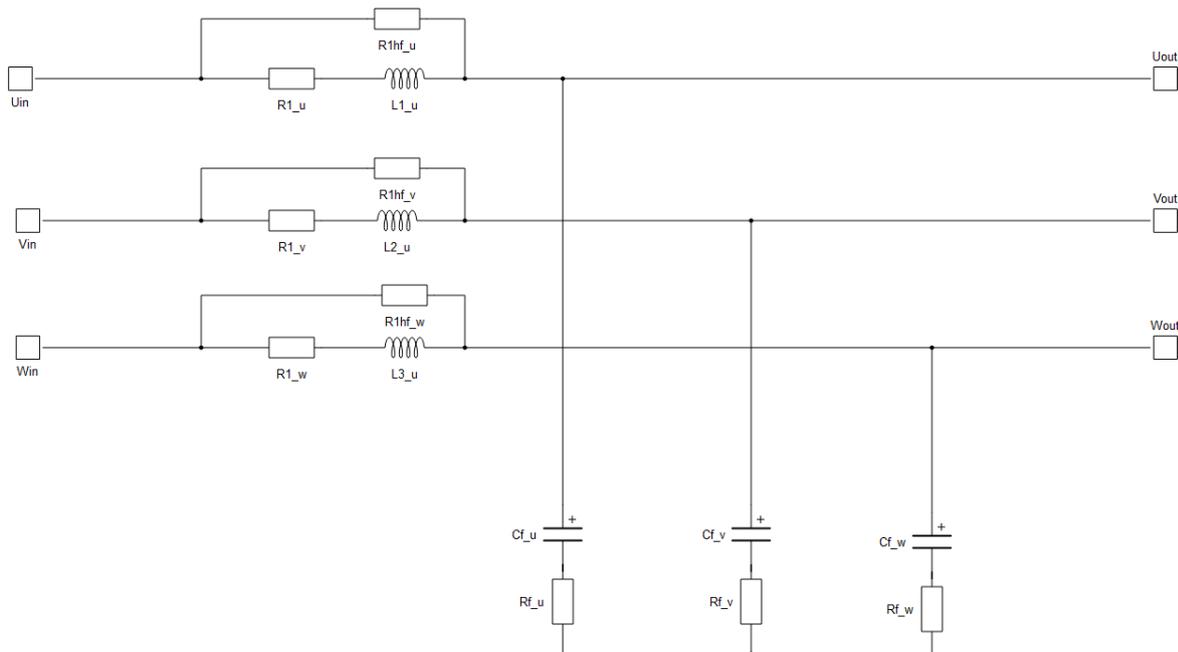


Motor Filters: Sine-Wave and dU/dt

General Description

The motor filters (Sine-Wave and dU/dt) consist of inductors and capacitors in a differential mode low pass filter arrangement, see figure below.



The differences between the two filter types are mainly the value of the cut-off frequency, which for Sine-Wave filters is below the switching frequency and for dU/dt filters the cut-off frequency is above the switching frequency. With a dU/dt filter the voltage waveform at the motor terminals is still pulse shaped, whereas the Sine-Wave filter has a sinusoidal phase to phase voltage waveform.

The data for selecting a specific filter size is loaded by selecting the corresponding *.json* file, using the load data property in the component.

The filters can be used for both VLT Drives and iC7 Freestanding and System Drives.

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