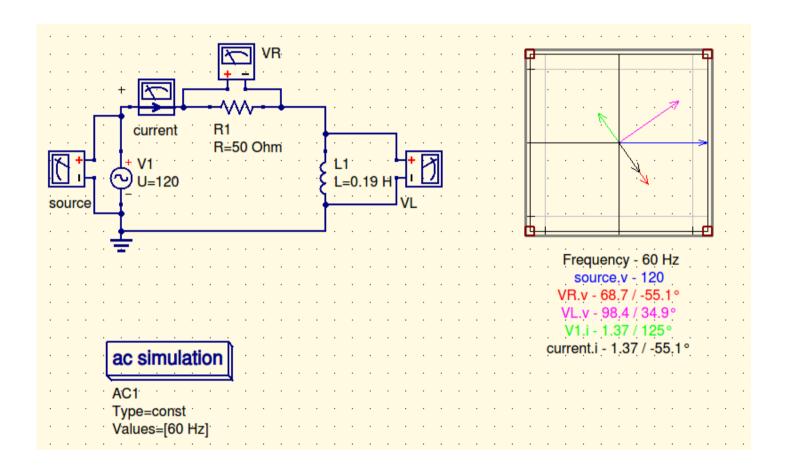
QUCS - New Modules

Phasor diagram

Only works in AC

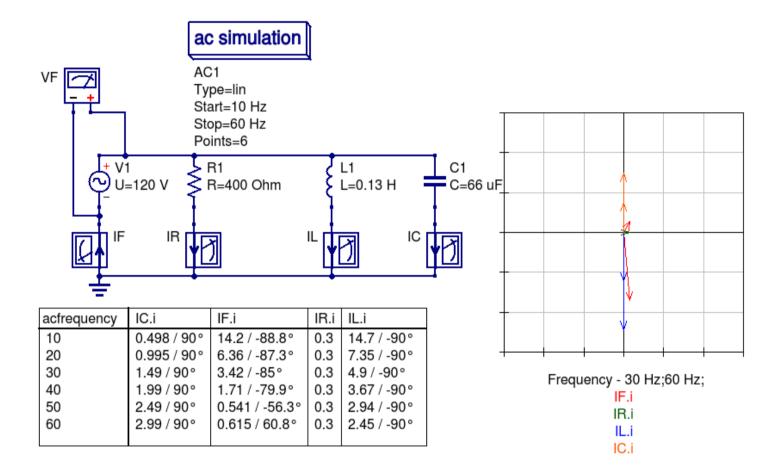
AC simulation constante



This example shows the phasor diagram for a simple RL circuit at a constant frequency representing the vectors of voltage and current at the same graphic representing their values below.

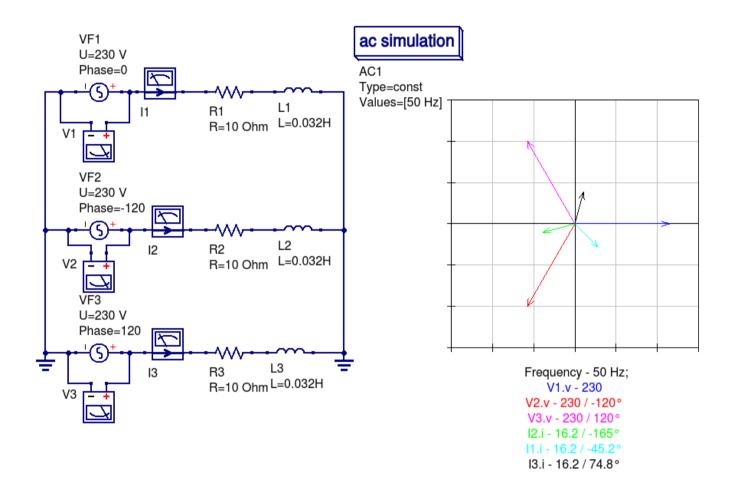
AC simulation linear

In this case it is represented the phasor diagram of an RLC circuit for various frequencies chosen in the diagram. The values of the vectors can be viewed from markers.



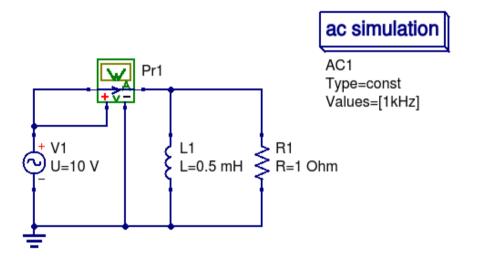
AC Three Phase Circuit

It just shows the functionality of the phasor diagram for a more complex circuit (three-phase circuit connected in Wye) representing the graphic chains and simple stresses in each branch

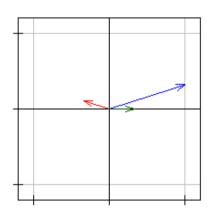


Wattmeter

Now it is possible to represent the potential of the circuit several from the wattmeter that le the current and voltage values and creates data for apparent power (VA), true power (W) and reactive power (VAR). Also it is only possible to represent the vector of the apparent power in the phasor diagram.



acfrequency	Pr1.VA	Pr1.var	Pr1.W	Pr1.i	Pr1.v
1e3	105 / 17.7°	31.8	100	10.5 / -17.7°	10

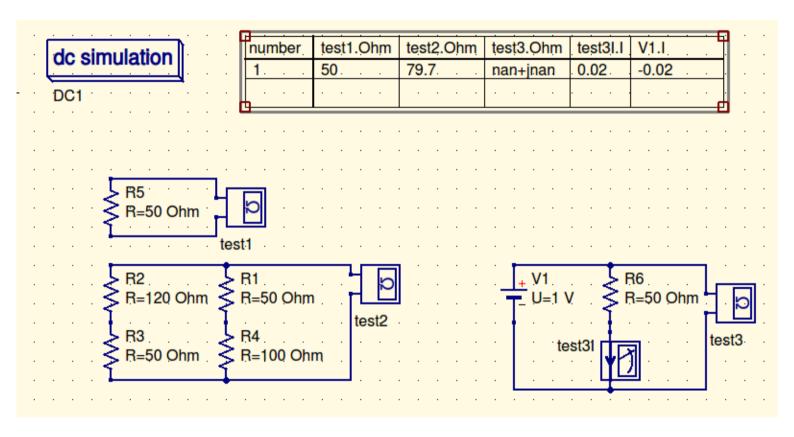


Frequency - 1 KHz; Pr1.VA - 105 / 17.7° V1.i - 10.5 / 162° Pr1.v - 10

Ohmmeter

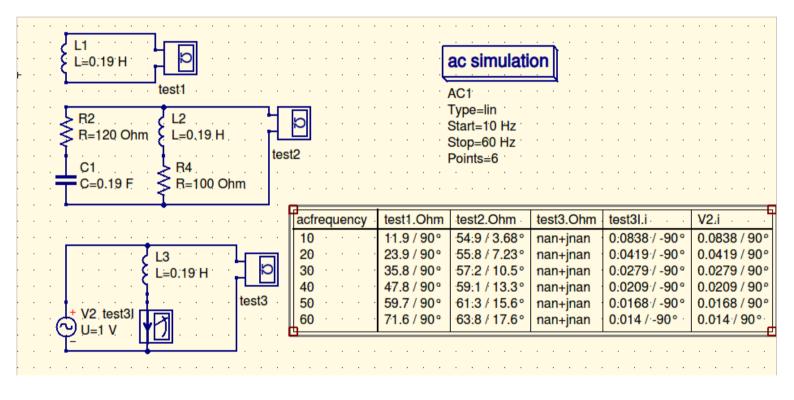
DC simulation

The ohmmeter in DC simulation can only calculate the resistance at its terminals from the internal constant current source and voltage values obtained if there is no external source connected to it, but is nan + jnan (invalid) and does not issue own current.



AC simulation

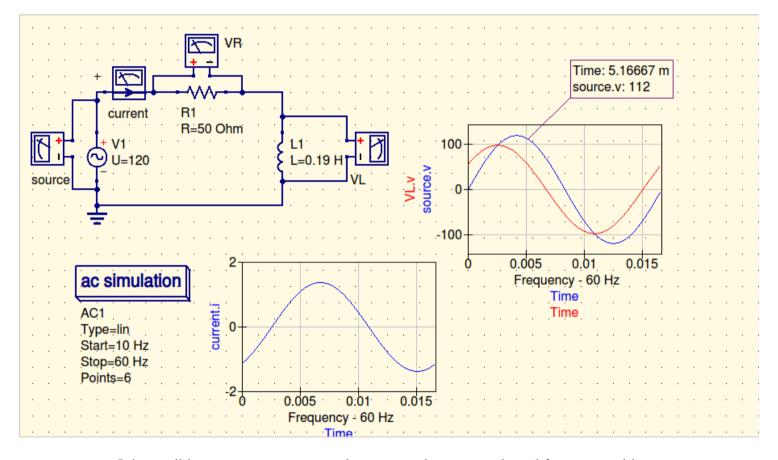
In AC can measure the impedance component to its terminals because of the alternating current source showing values for each existing frequency. Have the same behavior described in the previous example in case of external source



Temporal diagram

Only works in AC

AC simulation



It is possible to represent a temporal wave to only a user- selected frequency without using transient simulation while we are in a AC simulation using the temporal diagram that has the same style than Cartesian graph.