

xfmr_l112.ebe

Attributes

```
ebe name=xfmr_l112
#
# l1,l2,m model (m is computed)
# leakage inductances and winding resistances are not included
#
Jacobian: constant
nodes: p_p s_p p_n s_n
state_vars:
aux_vars: i1 i2 i1d i2d
aux_vars_startup:
x_vars:
iparms:
sparms:
rparms:
+ l1=1m
+ l2=1m
+ k=1
+ m=0
stparms:
+ i10=0 i20=0
igparms:
outparms: ip is vp vs
```

Description

xfmr_l112.ebe is a basic transformer model without coil resistances and leakage inductances. The parameters have the following meaning:

l1: self inductance of the first coil,

l2: self inductance of the second coil,

k: coupling coefficient.

The currents i_p , i_s , V_p , V_s (see figure) are made available as output variables ip, is, vp, vs, respectively.

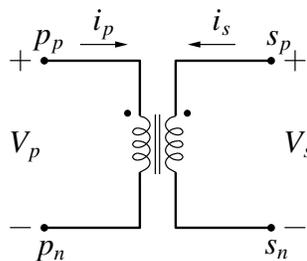


Figure 1: xfmr_l112 model.