

s_xfmr_level3_1ph (subcircuit)

Attributes

```
inputs:  
outputs:  
e_left_nodes:  
e_right_nodes:  
e_top_nodes: p_p s_p  
e_bottom_nodes: p_n s_n  
b_left_nodes:  
b_right_nodes:  
b_top_nodes:  
b_bottom_nodes:  
parameters:  
  ip0: 0  
  is0: 0  
  k: 1  
  l1: 1m  
  l2: 1m  
  p_ll: 1n  
  p_rs: 1m  
  r_large: 1G  
  s_ll: 1n  
  s_rs: 1m
```

Description

s_xfmr_level3_1ph is the single-phase transformer model shown in the figure where xfmr1 is a basic transformer model with self inductances and coupling coefficient as parameters (see the documentation for xfmr_1112.ebe). The parameters l1, l2, k of s_xfmr_level3_1ph correspond to l1, l2, k of xfmr_1112.ebe, respectively.

Large resistances (r_large) are included on both sides of xfmr1 to avoid singular matrix situations.

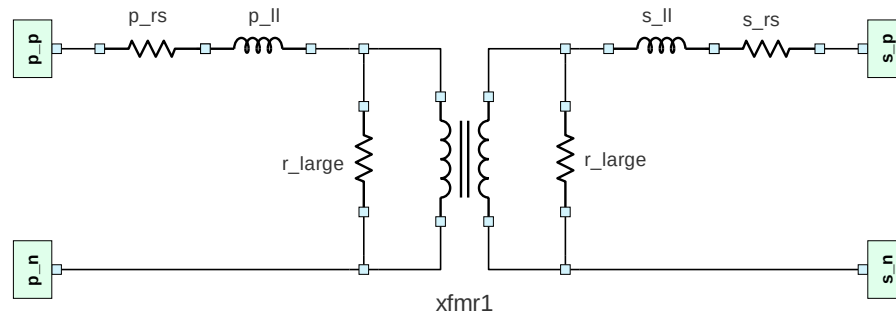


Figure 1: Schematic diagram of s_xfmr_level3_1ph.