s_xfmr_level1_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
  p_ll: 1n
  p_rs: 1m
  p_turns: 1
  r_large: 1G
  s_ll: 1n
  s_rs: 1m
  s_turns: 1
```

Description

s_xfmr_level1_1ph is the single-phase transformer model shown in the figure where xfmr1 is an ideal transformer model with p_turns and s_turns on the primary and secondary sides, respectively (see the documentation for xfmr_level0_1ph.ebe).

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

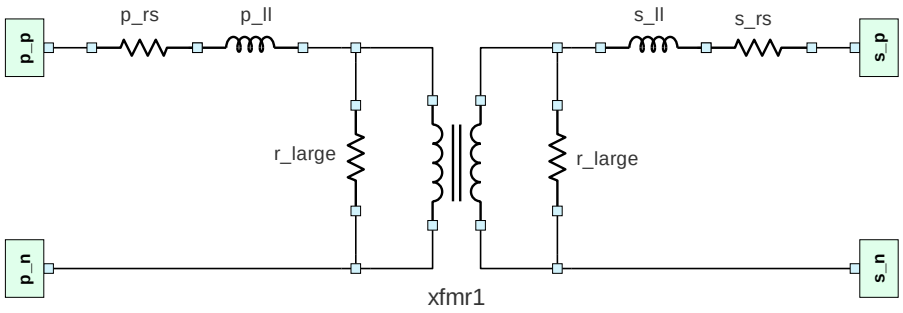

Figure 1: Schematic diagram of s_xfmr_level1_1ph.