s_vsrc_ac_3ph (subcircuit)

Attributes

```
inputs:
outputs:
e_left_nodes:
e_right_nodes: a b c
e_top_nodes:
e_bottom_nodes: n
b_left_nodes:
b_right_nodes:
b_top_nodes:
b_bottom_nodes:
parameters:
  f_hz: 50
 phi_a_deg: 0
  phi_b_deg: -120
  phi_c_deg: -240
 v_a: 1
  v_b: 1
  v_c: 1
```

Description

s_vsrc_ac_3ph is a 3-phase AC source, with outputs given by,

```
V_{an}(t) = V_a \sin(2\pi f t + \phi_a),

V_{bn}(t) = V_b \sin(2\pi f t + \phi_b),

V_{cn}(t) = V_c \sin(2\pi f t + \phi_c),
```

where V_a , V_b , V_c , f, ϕ_a , ϕ_b , ϕ_c are given by the parameters, v_a , v_b , v_c , f_hz , ghi_a_deg , ghi_b_deg , ghi_c_deg , ghi_c_deg , ghi_c_deg , ghi_deg ,

The source currents are made available as output variables i_a, i_b, i_c.