s_src_ac_3ph (subcircuit)

Attributes

```
inputs:
outputs: a b c
e_left_nodes:
e_right_nodes:
e_top_nodes:
e_bottom_nodes:
b_left_nodes:
b_right_nodes:
b_top_nodes:
b_bottom_nodes:
parameters:
  a: 1
  f_hz: 50
  phi_a: 0
  phi_b: -120
  phi_c: -240
  t0: 0
```

Description

s_src_ac_3ph is a 3-phase AC source, with outputs given by,

$$
\begin{aligned}
a(t) &= A\ \sin(2\pi f(t - t_0) + \phi_a)\,, \\
b(t) &= A\ \sin(2\pi f(t - t_0) + \phi_b)\,, \\
c(t) &= A\ \sin(2\pi f(t - t_0) + \phi_c)\,,
\end{aligned}
$$

where A, f, t_0, ϕ_a, ϕ_b, ϕ_c are given by the parameters, a, f_hz, t0, phi_a, phi_b, phi_c, respectively. Note that phi_a, phi_b, phi_c need to be supplied in degrees. They are internally converted to radians.