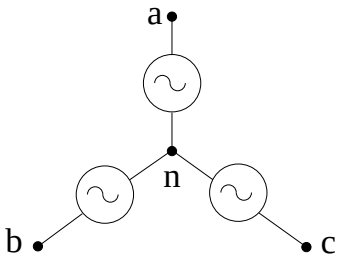
vsrcac3.ece



Attributes

```
  mainnodes: a b c n
  rparms:
+   v_a=0
+   v_b=0
+   v_c=0
+   f_hz=1
+   phi_a=0
+   phi_b=-120
+   phi_c=-240
+   t0=0
```

Description

`vsrcac3.ece` is a 3-phase AC voltage source connected as shown in the figure. The real parameters, `v_a`, `v_b`, `v_c`, `phi_a`, `phi_b`, `phi_c`, `f_hz`, and `t0` represent $\hat{V_a}$, $\hat{V_b}$, $\hat{V_c}$, ϕ_a, ϕ_b, ϕ_c, f, and t_0, respectively, in the following equations for the voltages:

$$\begin{aligned} V_{an}(t) &= \hat{V_a}\ \sin(2\pi f(t-t_0)+\phi_a), \\ V_{bn}(t) &= \hat{V_b}\ \sin(2\pi f(t-t_0)+\phi_b), \\ V_{cn}(t) &= \hat{V_c}\ \sin(2\pi f(t-t_0)+\phi_c)\ . \end{aligned} \tag{1}$$

Note that the values of `phi_a`, `phi_b`, `phi_c` need to be supplied in degrees. They are internally converted to radians.

AC behaviour is not implemented.