

`vsrccac_3ph.xce`

Attributes

```
mainvars: va vb vc
rparms: a=0 f_hz=50 t0=0
+   phi_a=0 phi_b=-120 phi_c=-240
```

Description

`vsrccac_3ph.xce` gives three AC sources. The real parameters, `a`, `f_hz`, `t0`, `phi_a`, `phi_b`, and `phi_c` represent A , f , t_0 , ϕ_a , ϕ_b , ϕ_c , and V_0 , respectively, in the following equations:

$$V_a(t) = A \sin(2\pi f(t - t_0) + \phi_a).$$

$$V_b(t) = A \sin(2\pi f(t - t_0) + \phi_b).$$

$$V_c(t) = A \sin(2\pi f(t - t_0) + \phi_c).$$

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

In AC analysis, `vsrccac_3ph.xce` gives three phasors, $A\angle\phi_a$, $A\angle\phi_b$, and $A\angle\phi_c$.