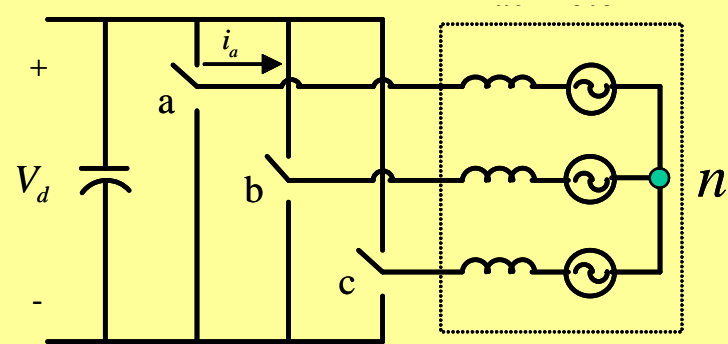
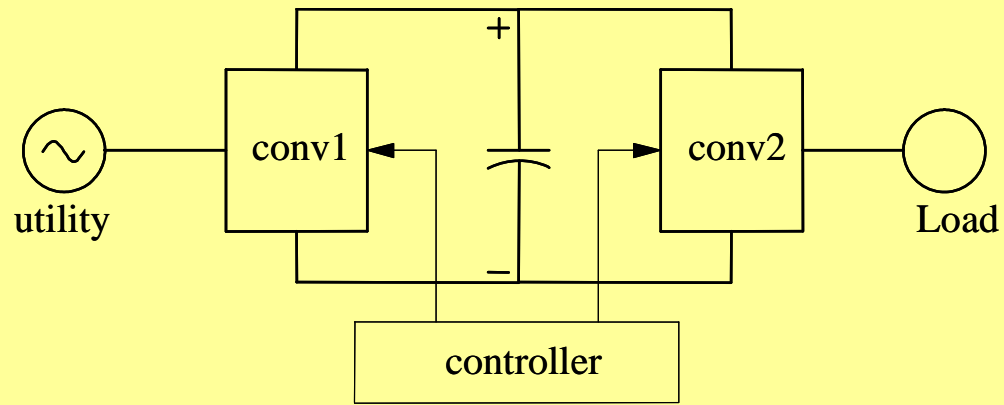
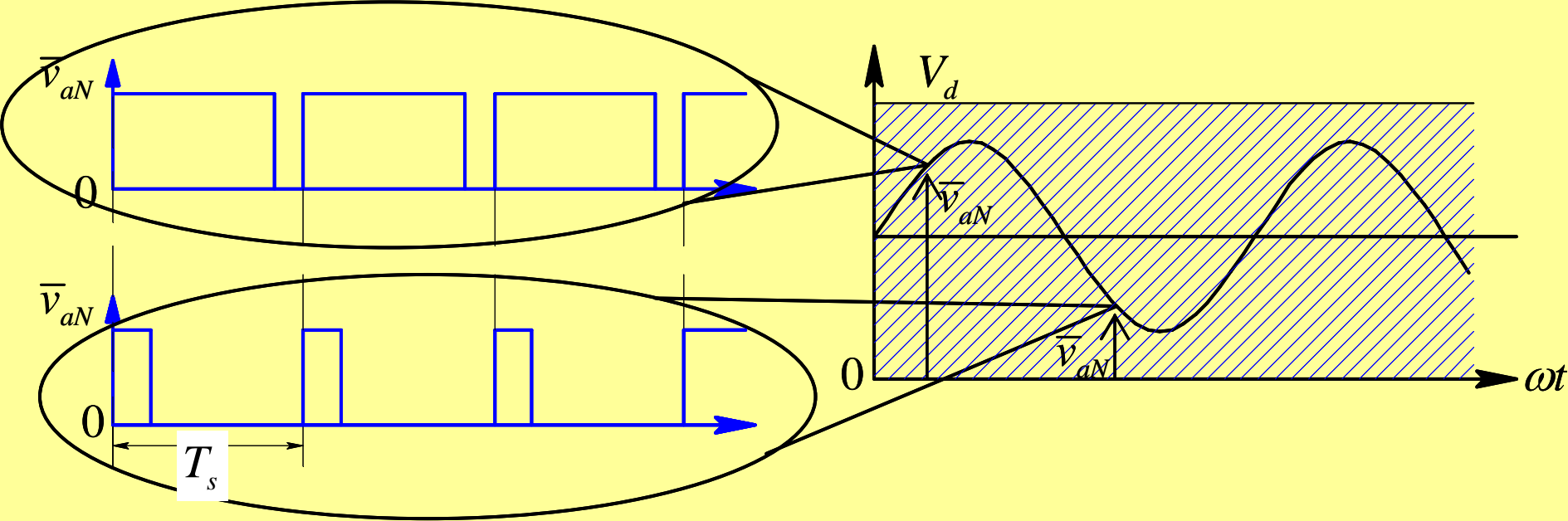


Synthesis of Three-Phase AC

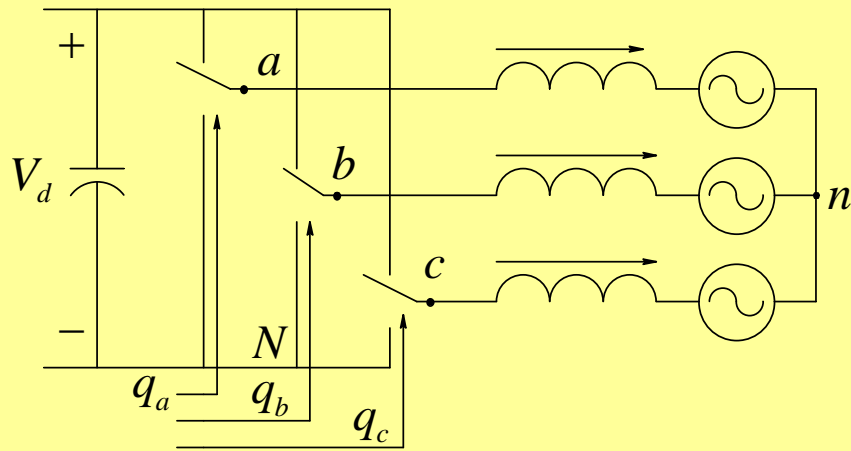
- Applications:
 - Electric Drives
 - UPS
 - PV Systems
 - Power Systems



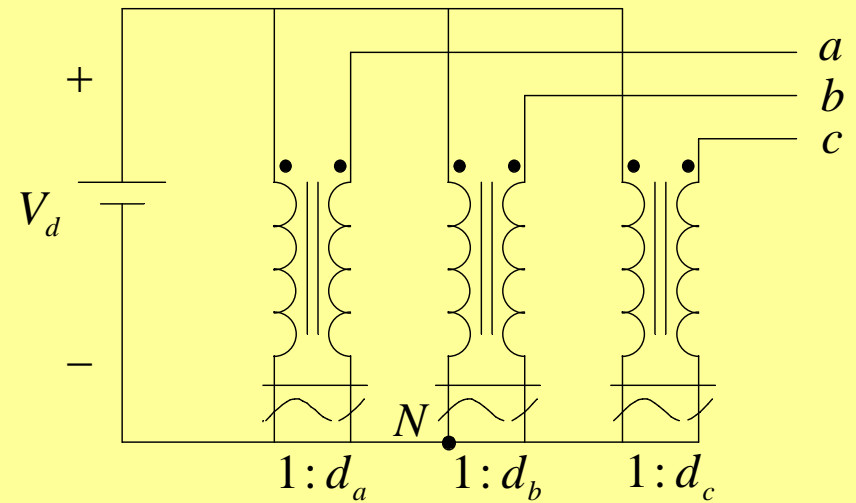
Synthesis of Low-Frequency AC:



Three-Phase Inverters

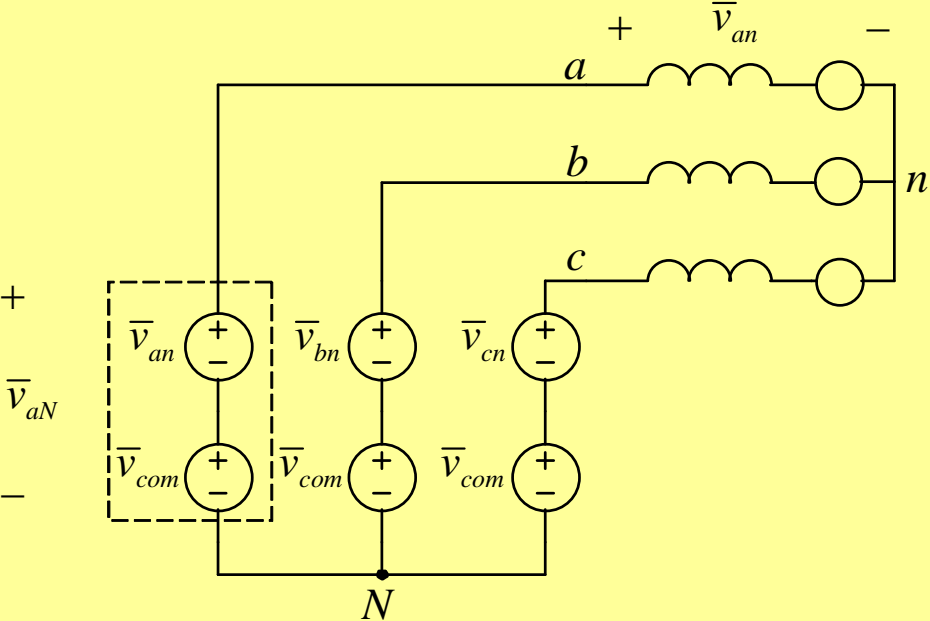


(a)

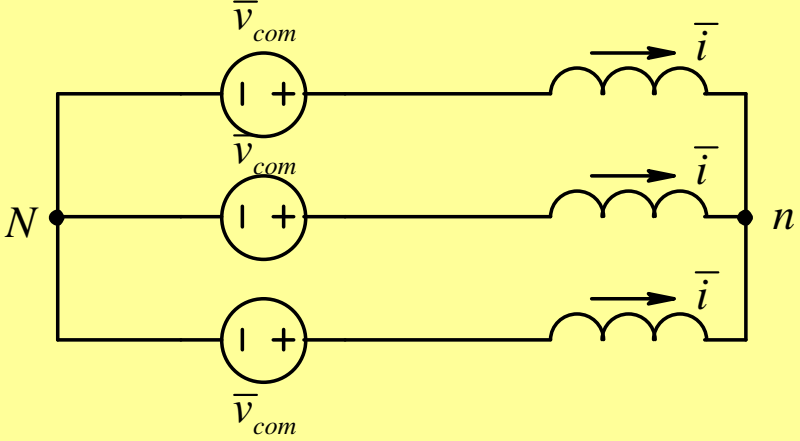


(b)

Superposition -

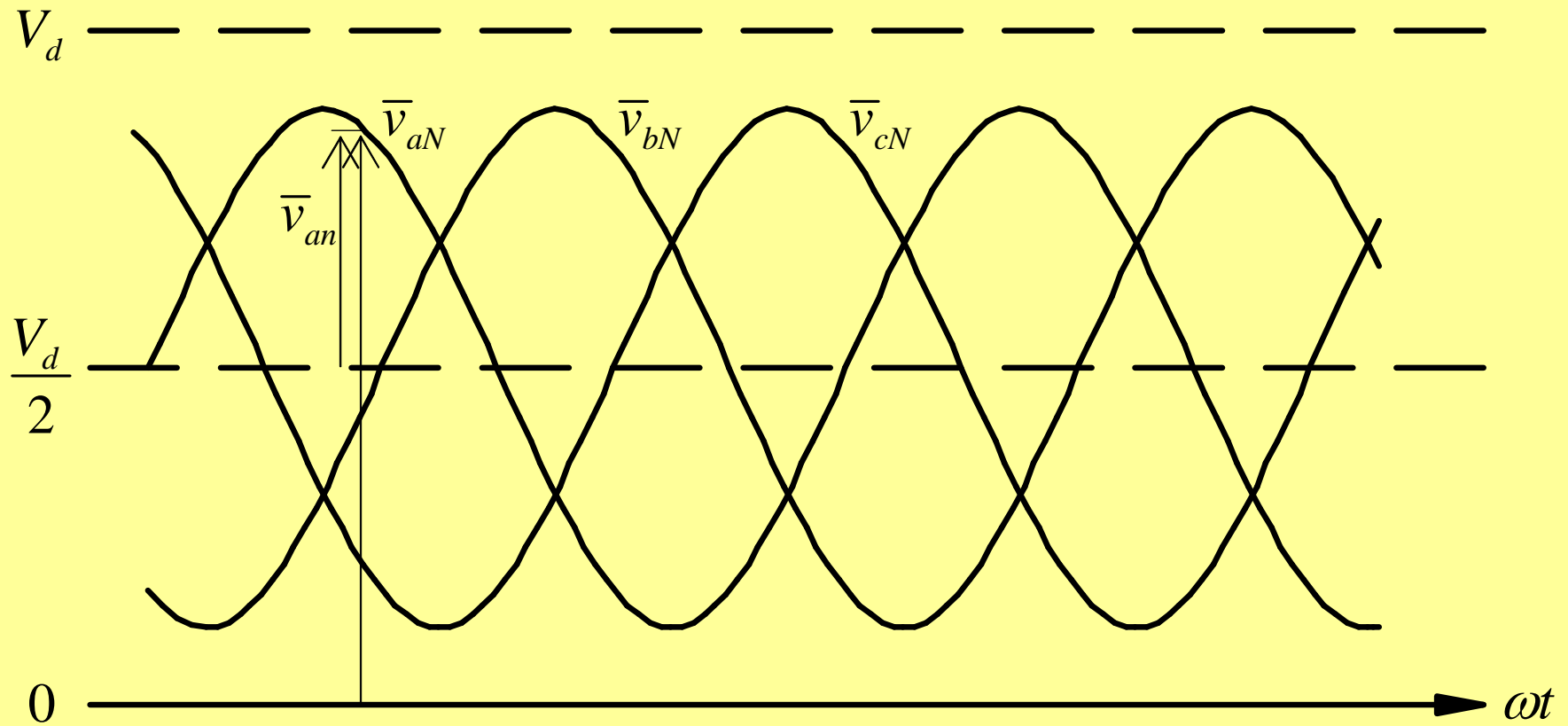


(a)

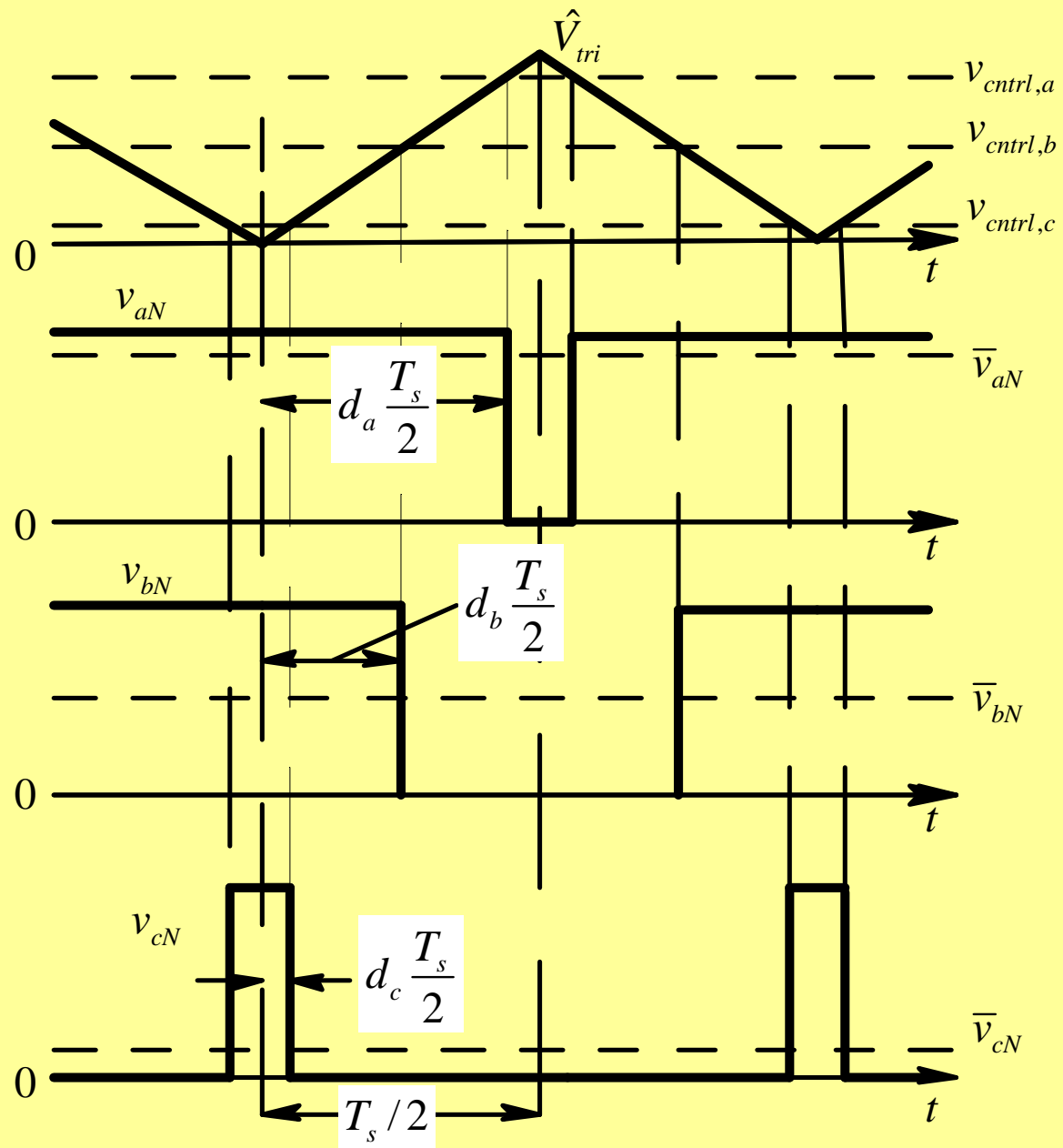


(b)

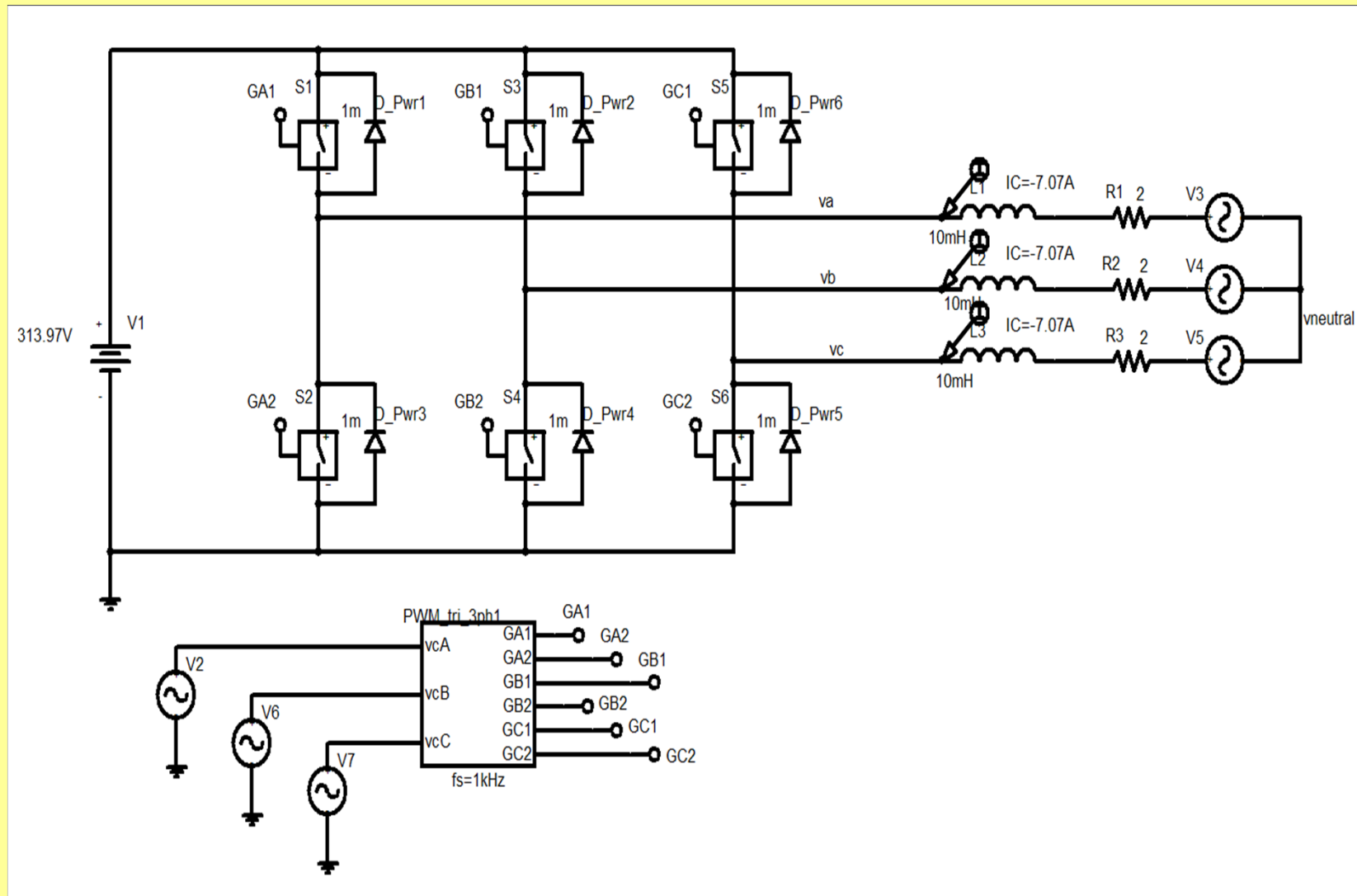
Sine PWM



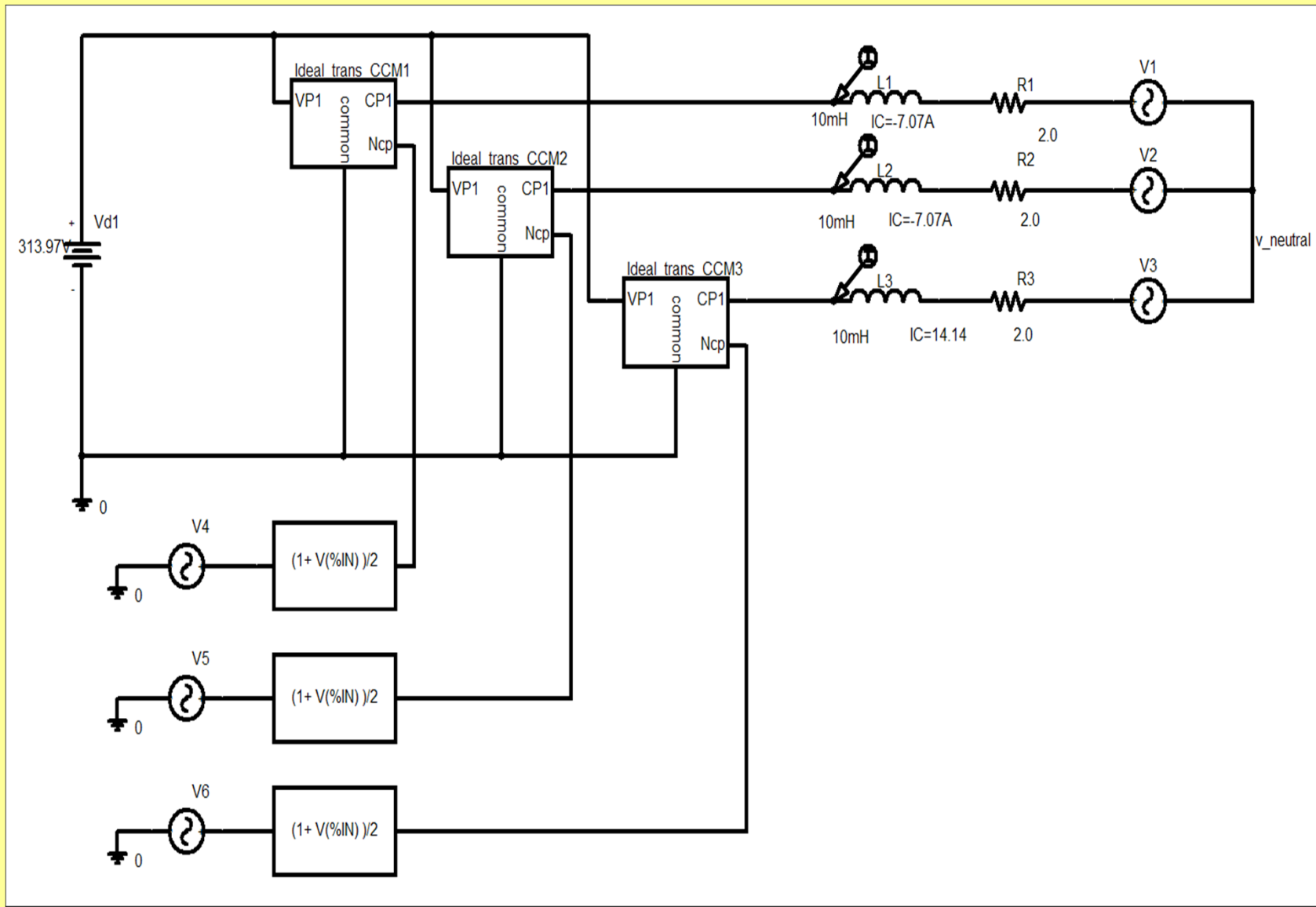
Waveforms



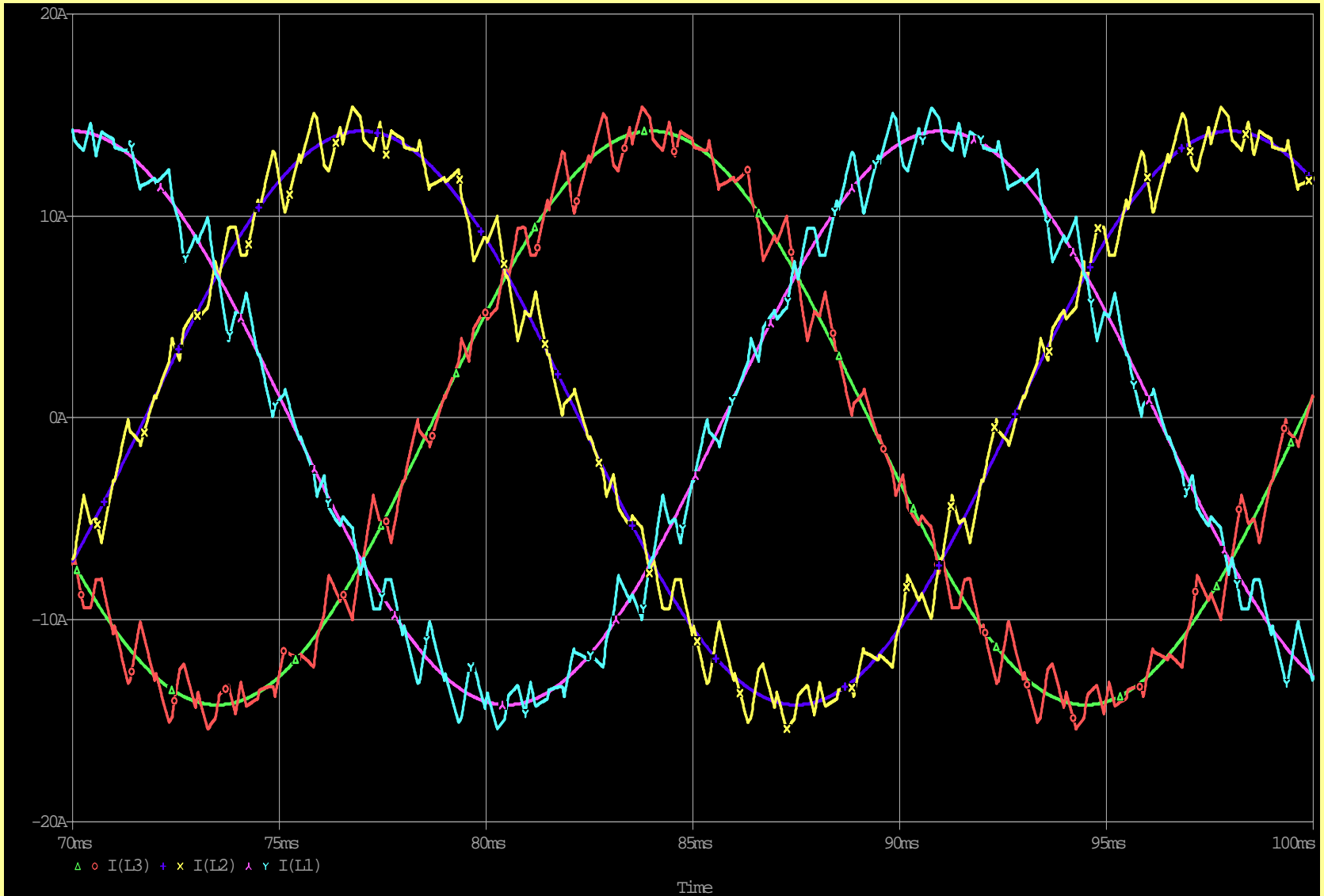
PSpice Modeling:



PSpice Modeling:



Simulation Results



Summary

Synthesis of dc and low-frequency ac waveforms

- Applications in DC-DC Motor Drives
- Applications in Single-Phase AC
- Application in Three-Phase AC Motor Drives