Yani's cheap plastic AC generation handout

Consider this very simplified representation
of an AC generator:

The rotating magnetic field induces a voltage across the aa' winding.
The electrical representation of that is:

This produces sinusoidal voltage/current:

Consider the cross-sectional view of this generator:

Let's add two other windings bb' and cc', all separated at 120°

The voltages induced on these windings will be 120° apart:

Two ways to connect the three windings: