

- Now, we consider 3 coil  $C_1$ (R-phase),  $C_2$ (Y-phase) and  $C_3$ (B-phase), which are displaced  $120^\circ$  from each other on the same axis. This is shown in fig. 2.44.
- The coils are rotating in a uniform magnetic field produced by the N and S poles in the counter clockwise direction with constant angular velocity.
- According to Faraday's law, emf induced in three coils. The emf induced in these three coils will have phase difference of  $120^\circ$ . I.e. if the induced emf of the coil  $C_1$  has phase of  $0^\circ$ , then induced emf in the coil  $C_2$  lags that of  $C_1$  by  $120^\circ$  and  $C_3$  lags that of  $C_2$   $120^\circ$ .

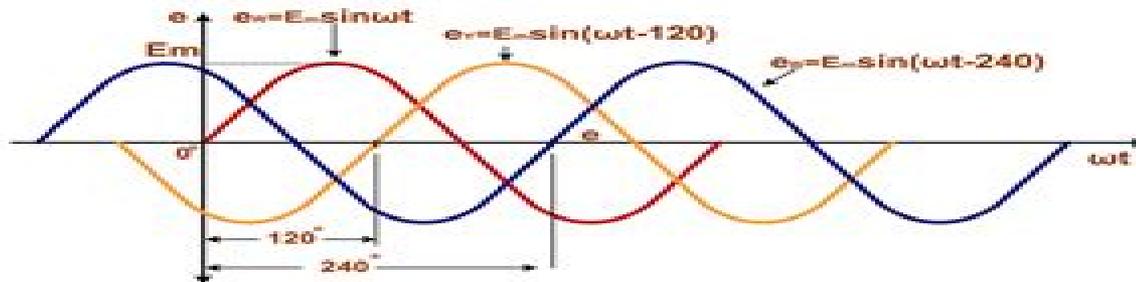


Figure 2.45 Waveforms of Three-Phase EMF

- Thus, we can write,
 
$$e_x = E_m \sin \omega t$$

$$e_y = E_m \sin(\omega t - 120^\circ)$$

$$e_z = E_m \sin(\omega t - 240^\circ)$$
- The above equation can be represented by their phasor diagram as in the Fig. 2.46.

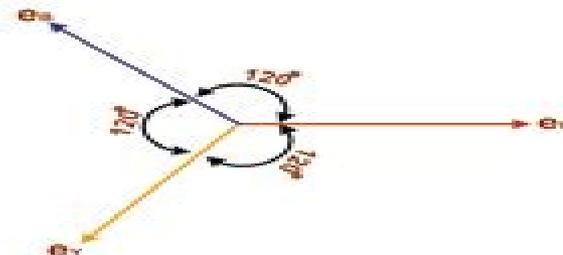


Figure 2.46 Phasor Diagram of Three-Phase EMF

## 2.15 Important definitions

### ➤ Phase Voltage

It is defined as the voltage across either phase winding or load terminal. It is denoted by  $V_{ph}$ . Phase voltage  $V_{RN}$ ,  $V_{YN}$  and  $V_{BN}$  are measured between R-N, Y-N, B-N for star connection and between R-Y, Y-B, B-R in delta connection.

# Electrical Engineering Fundamentals Ac Circuit Analysis

**G Psacharopoulos**



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