

- Now, we consider 3 coil C_1 (R-phase), C_2 (Y-phase) and C_3 (B-phase), which are displaced 120° 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° . I.e. if the induced emf of the coil C_1 has phase of 0° , then induced emf in the coil C_2 lags that of C_1 by 120° and C_3 lags that of C_2 120° .

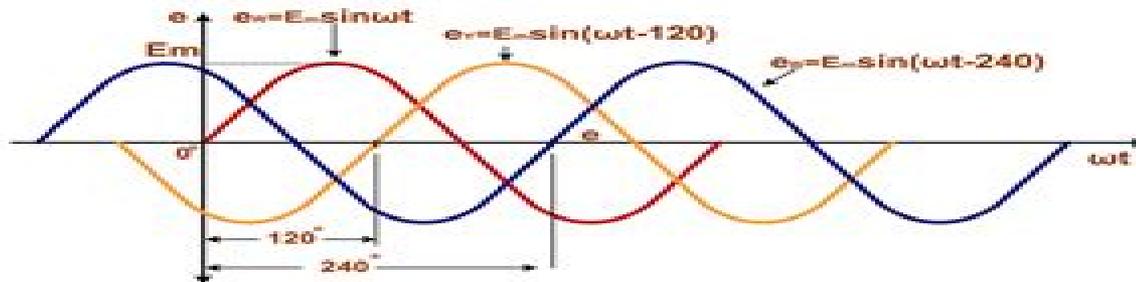


Figure 2.45 Waveforms of Three-Phase EMF

- 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.

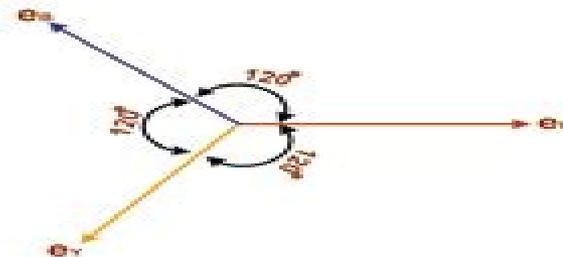


Figure 2.46 Phasor Diagram of Three-Phase EMF

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.

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