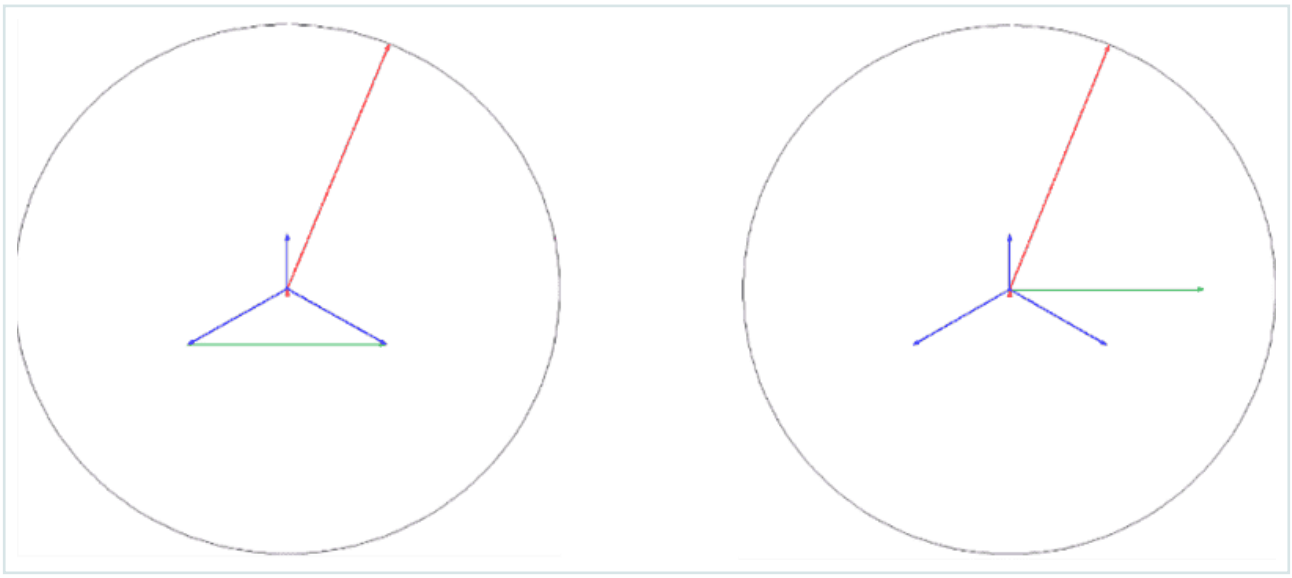
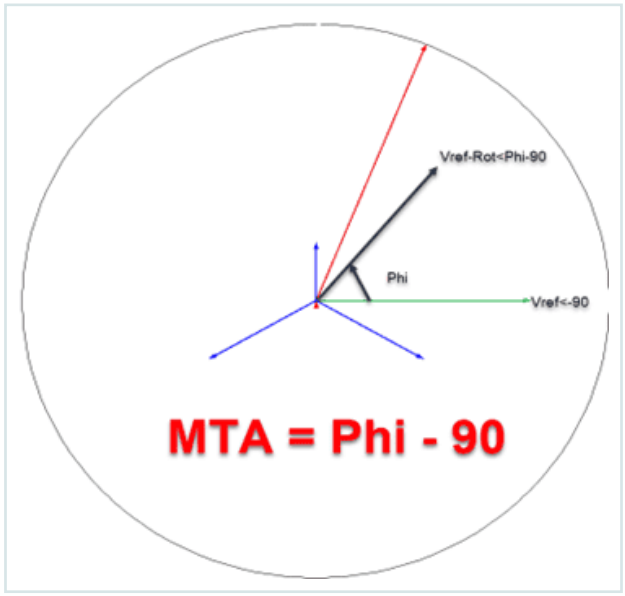
Yönlü Aşırı Akım

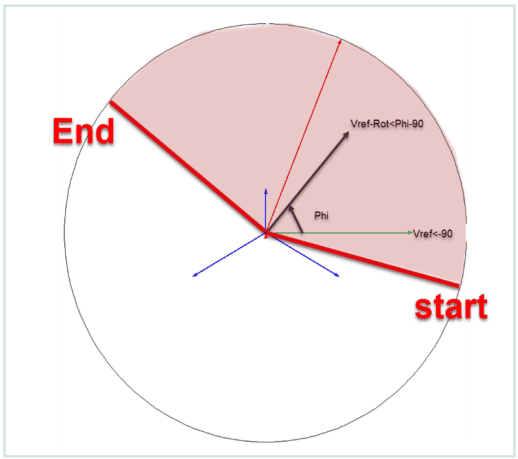
Kategory	**tester**
Bölüm	**AMT Aşırı Akım Modülü**
Dil	**Türkçe**
Oluşturuldu	**2026-11-04**



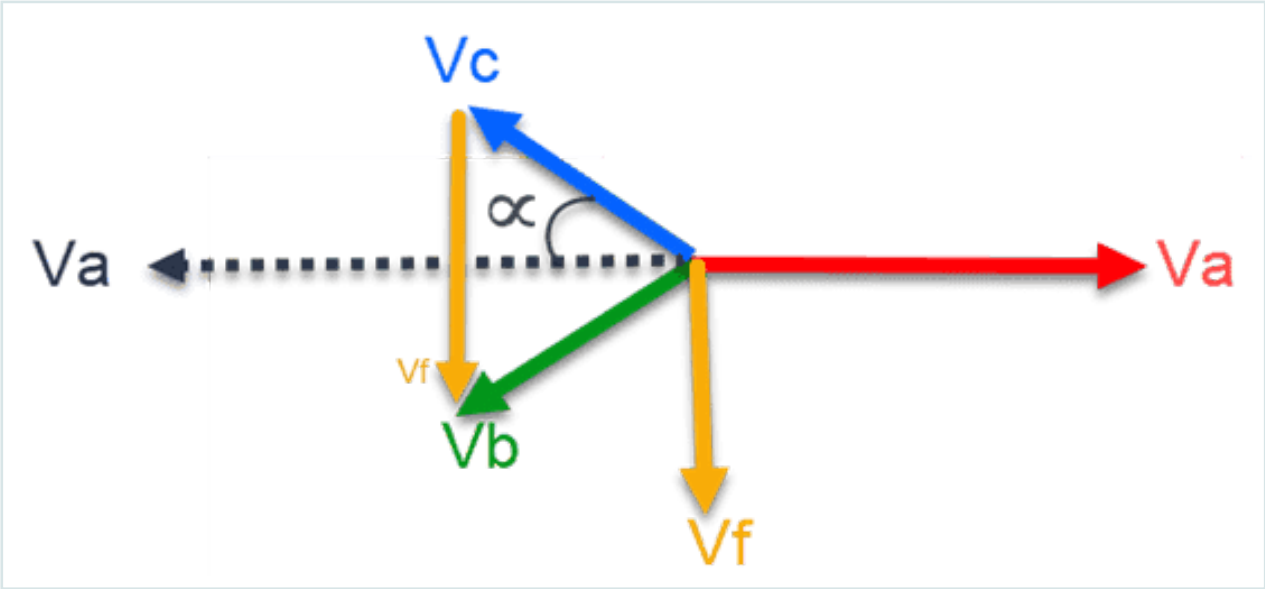
Şekil 1



Şekil 2



Şekil 3



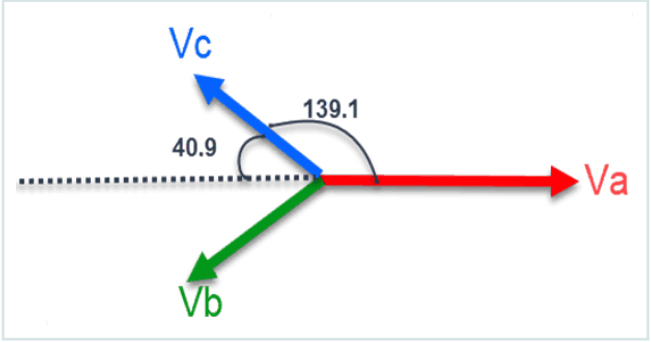
Şekil 4

$$V_B - V_C = V_f$$

$$V_B + V_C = V_a$$

$$\text{Tan}\,\alpha = \frac{V_f/2}{V_a/2} \Rightarrow \alpha = \tan^{-1}\left(\frac{Vf}{Va}\right)$$

Şekil 5



Şekil 6

$$Va \angle 0$$

$$Vb \angle -139.1$$

$$Vc \angle 139.1$$

Şekil 7

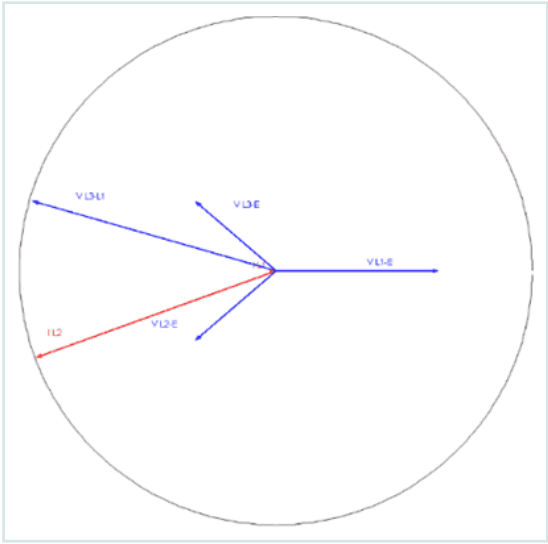
$$(I_B, V_{CA}) \Rightarrow V_C - V_A \Rightarrow 42.01 \angle 139.1 - 63.51 \angle 0 = 99.15 \angle 163.9$$

$$\rightarrow \text{MTA} = 163.9 + \varphi_{rot}$$

$$\text{if: } \varphi_{rot} = 90 \rightarrow \text{MTA} = 163.9 + 90 = 253.9 \Rightarrow 253.9 - 360 = -106.1$$

$$\text{Sector_Opening:} \begin{cases} \text{Start_Angle: } -16.1 \\ \text{End_Angle: } -196.1 \end{cases}$$

Şekil 8



Şekil 9

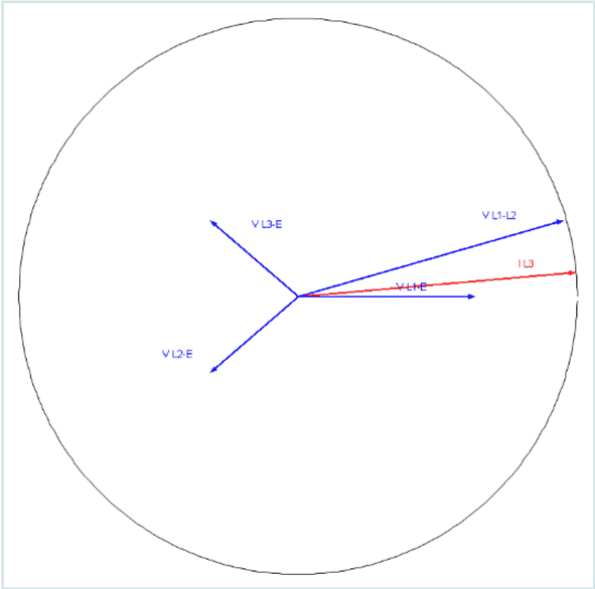
$$(I_B, V_{AB}) \Rightarrow VA - V_B \Rightarrow 63.51\angle 0 - 42.01\angle -139.1 = 99.15\angle 16.1$$

$$\rightarrow MTA = 16.1 + \varphi_{rot}$$

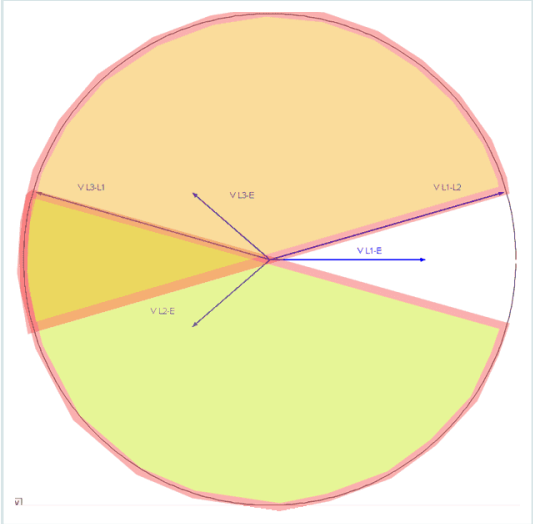
$$if: \varphi_{rot} = 90 \rightarrow MTA = 16.1 + 90 = 106.1$$

$$Sector_Opening: \begin{cases} Start_Angle: 16.1 \\ End_Angle: 196.1 \end{cases}$$

Şekil 10



Şekil 11



Şekil 12