#2
$$\begin{cases}
S_{n} = 50 \text{ KVA} \\
a = \frac{240}{2400} \\
f_{-60 \text{ HZ}}
\end{cases} = \frac{240}{2400} \\
CST : V_{esc} : 2400^{\circ}, I_{SCI} = 5.5A, P_{SCI} = 186
\end{cases}$$

$$R_{c} = \frac{V_{cc}}{P_{ec}} = \frac{48}{620} = 0.07 \text{ SL}$$

$$I_{c} = \frac{V_{cc}}{R_{c}} = \frac{48}{620} = 685 \text{ A}$$

$$I_{m}^{2} + I_{c}^{2} = I_{ec} = \gamma I_{m} = \sqrt{I_{cc}^{2} - I_{c}^{2}} = \sqrt{20^{2} - 685^{2}} = \sqrt{400 - 469225}$$

$$Req = \frac{P_{SC}}{|I_{Se}|^{2}} = \frac{186}{30.25} = 6.14, |I_{cc}|^{2} = \frac{V_{sc}}{I_{sc}} = \frac{240}{5.5} = 43.6 = \gamma Q_{c} = 36^{\circ}$$

$$|X_{eq}| = \sqrt{|I_{ce}|^{2} - Ray^{2}} = \sqrt{1900.96 - 37.6} = 43.16$$

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