Solution of No. [2]

$$S = ? \longrightarrow V_{irms} = 70\% V_{dc}$$

$$V_{hrms} = \frac{4V_{dc}}{h_{V2}TT} \sin\left(\frac{nS}{2}\right)$$

$$V_{irms} = \frac{4V_{dc}}{V2} \sin\left(\frac{S}{2}\right)$$

$$\frac{70}{100} \cdot V_{dc} = \frac{4V_{dc}}{\sqrt{2}TT} \sin\left(\frac{S}{2}\right)$$

$$\approx \frac{5}{2} = 51.03^{\circ}$$

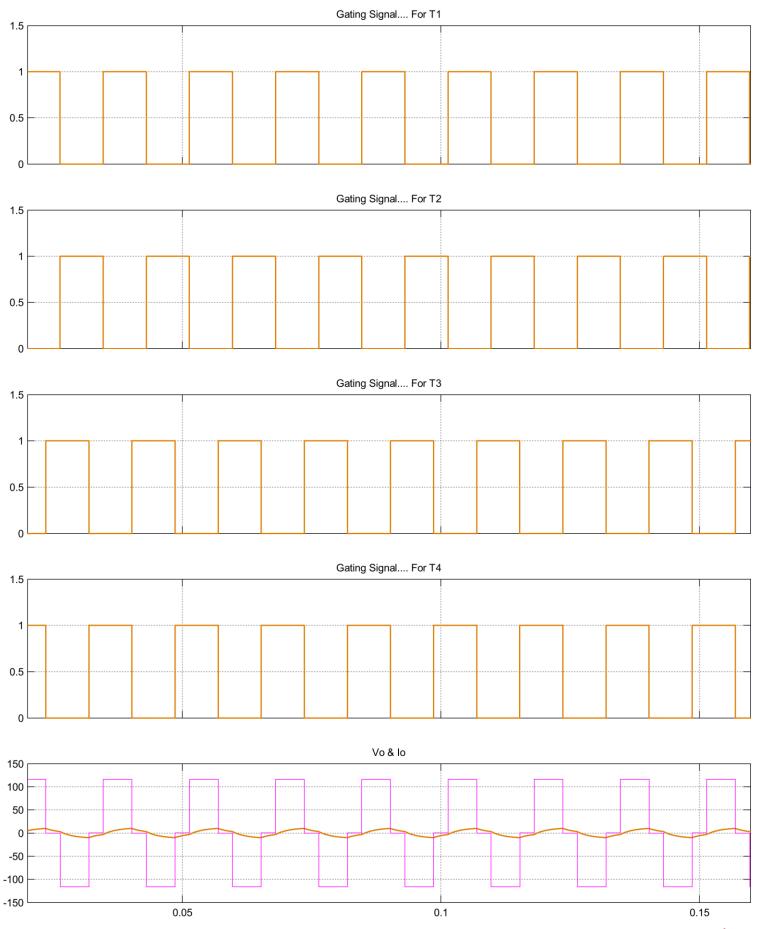
$$S = 102.07^{\circ}$$

Solution
$$\simeq F \times 16 \cdot 114$$

(d) $V_{\text{orms}} = V_{\text{s}} \sqrt{\frac{PS}{\pi}} = 220 \sqrt{\frac{5 \times 36^{5}}{120^{5}}} = 200 \cdot 83 \vee \text{mm}$
(b) $\therefore S = 35^{\circ}) \therefore \text{Vorms} = \text{Vorms} = 200 \cdot 83 \vee \text{ms}$
 $\therefore \quad \text{Varms} = \text{Vs} \sqrt{\frac{PS}{\pi}}$
 $200 \cdot 83 = \text{Vs} \sqrt{\frac{5 \times 35}{\pi}}$
 $\therefore \quad \text{Vs} = 200 \cdot 3 \cdot 68 \vee \text{mm}$
 $\therefore \quad \text{Vs} = 220 + 10\% (220) = 242 \vee \text{J} \rightarrow 8 = ? \text{J} \times \text{Varms} = \text{Vs} \text{ms}$
 $(c) \quad \therefore \quad \text{Vs} = 220 + 10\% (220) = 242 \vee \text{J} \rightarrow 8 = ? \text{J} \times \text{Varms} = \text{Vs} \text{ms}$
 $\therefore \quad \text{Varms} = \text{Vs} \sqrt{\frac{PS}{\pi}}$
 $200 \cdot 83 = 242 \sqrt{\frac{5 \times 5}{\pi}}$
 $\therefore \quad \text{Varms} = 242 \sqrt{\frac{5 \times 5}{\pi}}$
 $\therefore \quad \text{Varms} = 242 \sqrt{\frac{5 \times 5}{\pi}}$

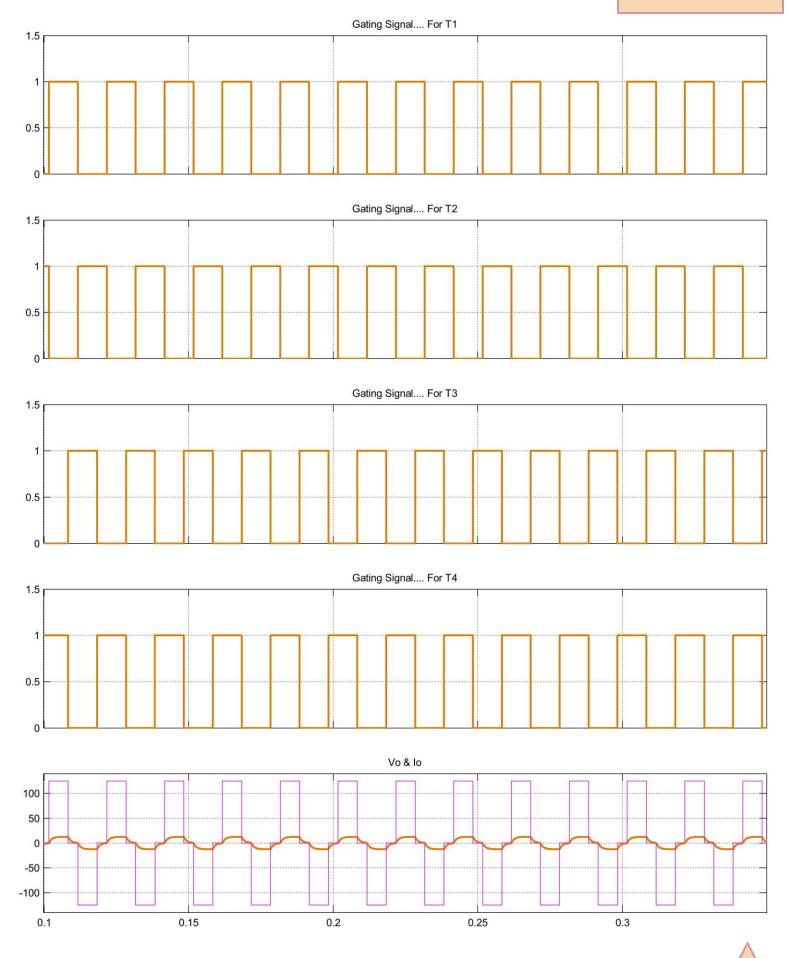


NO. 9 IN THIS SHEET



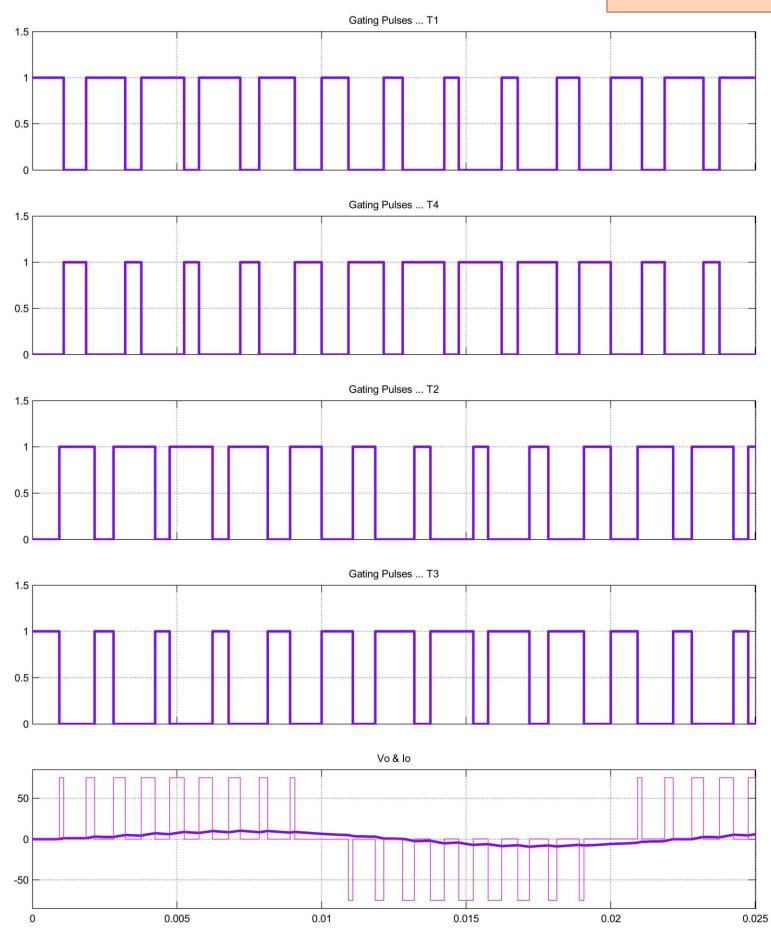


NO. 10 IN THIS SHEET

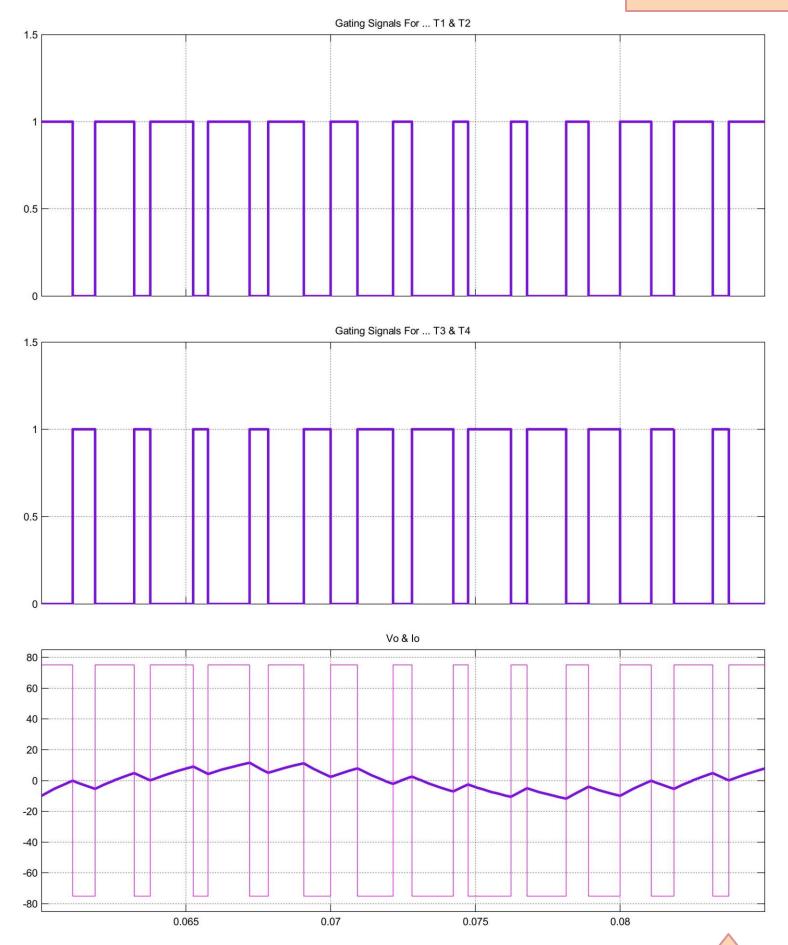




NO. 11 IN THIS SHEET







10

NO. 12 IN THIS SHEET