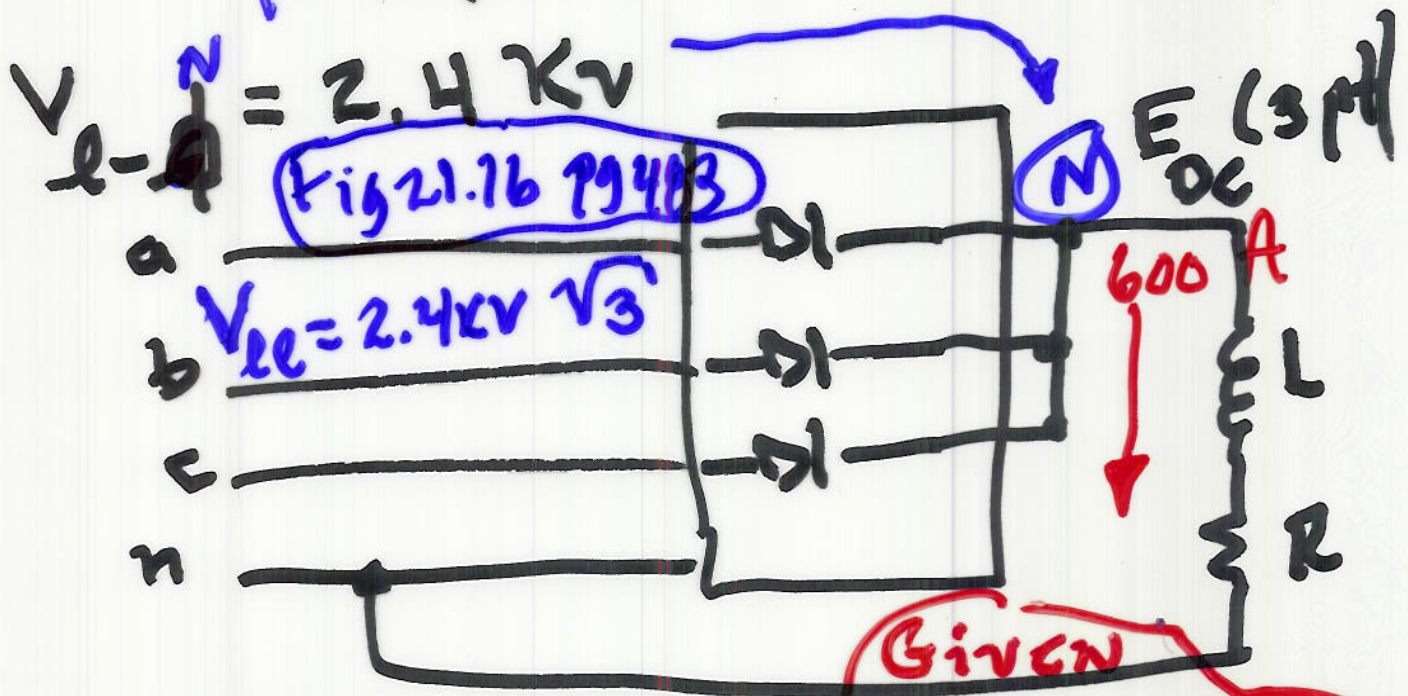


~~V_{en}(Y) = 2400~~
 For 3 pulse rectifier 1-26



$I_{Dc}(\text{eff}) = 600 \text{ A}$

$E_{Dc}(3 \text{ pt}) = .675 V_{l-d}(\text{rms})$

$E_{Dc} = 1620 \text{ V}$ via $\left\{ \begin{array}{l} 3 \text{ point} \\ \frac{1}{2} \text{ wave rectif} \\ \text{relations} \end{array} \right.$

Each diode carries $\frac{I_{Dc}}{3} = 200 \text{ A}$

Peak diode current
 Max diode current = ?

Worst Case $600 \text{ A} \approx 3 \times \text{peak}$

$\uparrow 600 \text{ @ } \frac{1}{3} \text{ duty cycle}$
 $\Rightarrow 200 \text{ A DC} = I_{AV}$

$I_{Dc}(\text{eff})$

AV current not peak

diode peak