

Power Factor P.F. 
$$\emptyset$$

$$Cos \emptyset = 0.8$$

$$\emptyset = Cos^{-1} 0.8$$

$$= 0.643^{\circ}$$

Active current Ip

$$\frac{1600}{v \cdot \cos \theta} = 1p$$

$$1p = \frac{1600}{400 \cdot 0.8} = 5 \text{ ampere}$$