

$$9eg: U = 224 10^{\circ} V$$

$$I = 20.6 A, I_1 = 12.5 A, I_2 = 8.9 A$$

$$\frac{L b s u n g}{P_L = U \cdot I_1 = 224 V \cdot 12.5 A = 2800 W}$$

$$U = 224/0^{\circ}$$

$$I = I_{2}/-\varphi_{m}$$

$$I = I/-\varphi$$

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$$I = Arc \cos\left(\frac{I_{1}^{2} + I_{2}^{2} - I^{2}}{2 \cdot I_{1} \cdot I_{2}}\right) = 148.1^{\circ}$$

$$\varphi = \arccos \left( \frac{I_1^2 + I^2 - I_2^2}{2 \cdot I_1 \cdot I} \right) = {}^{+}_{(-)} 13.2^{\circ}$$

$$P_{m} = U \cdot I_{2} \cdot \cos \varphi_{m} = 1693 W$$
  
 $P = U \cdot I \cdot \cos \varphi = 4493 W$