

Str. 126 / úloha 646

$$\eta = ? \quad [-]$$

$$U_1 = 250 \text{ V}$$

$$I_1 = 5 \text{ A}$$

$$U_2 = 1000 \text{ V}$$

$$I_2 = 1 \text{ A}$$

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$$\eta = \frac{P}{P_0} \cdot 100 \%$$

$$\eta = \frac{1000}{1250} \cdot 100 \%$$

$$\eta = 80 \%$$

$$\eta = 0,8$$

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$$P = U_2 \cdot I_2$$

$$P = 1000 \cdot 1$$

$$P = 1000 \text{ W}$$

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$$P_0 = U_1 \cdot I_1$$

$$P_0 = 250 \cdot 5$$

$$P_0 = 1250 \text{ W}$$

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Účinnost transformátora je 80%.