

$$P = U \cdot I$$

$$360 = 24[V] \cdot 15[A]$$


ω Prikon

$$v_{\text{kon}} = 240$$

$$\eta = 66\%$$

$$n = 2100 \text{ rpm}$$

$$\varphi' = \omega$$

$$[^\circ] = [\text{rad/s}]$$


$$\omega = 2 \cdot \pi \cdot n / 60$$

$$i = \frac{12}{70} = \frac{6}{35} \approx \frac{1}{6}$$

$$D = 50,8 [\text{cm}] = 0,508 [\text{m}]$$

obvodova rychlost kola

$$\omega \cdot R = V$$

$$[\text{rad/s}] \cdot [\text{m}] = [\text{m/s}]$$



$$V_{\text{km/h}} = V_{\text{m/s}} \cdot 3,6$$

Rychlost formule $\rightarrow 3 \text{ m/s}$

$$= 33,48 \text{ km/h}$$

$R \cdot \omega$  Wolf

$$V_{\text{km/h}} = \frac{R^2 \cdot i \cdot n \cdot 3,6}{60 \cdot 6}$$

$$((0.254 \cdot 2 \cdot \pi \cdot 2100 / 60) / 6) \cdot 3,6$$

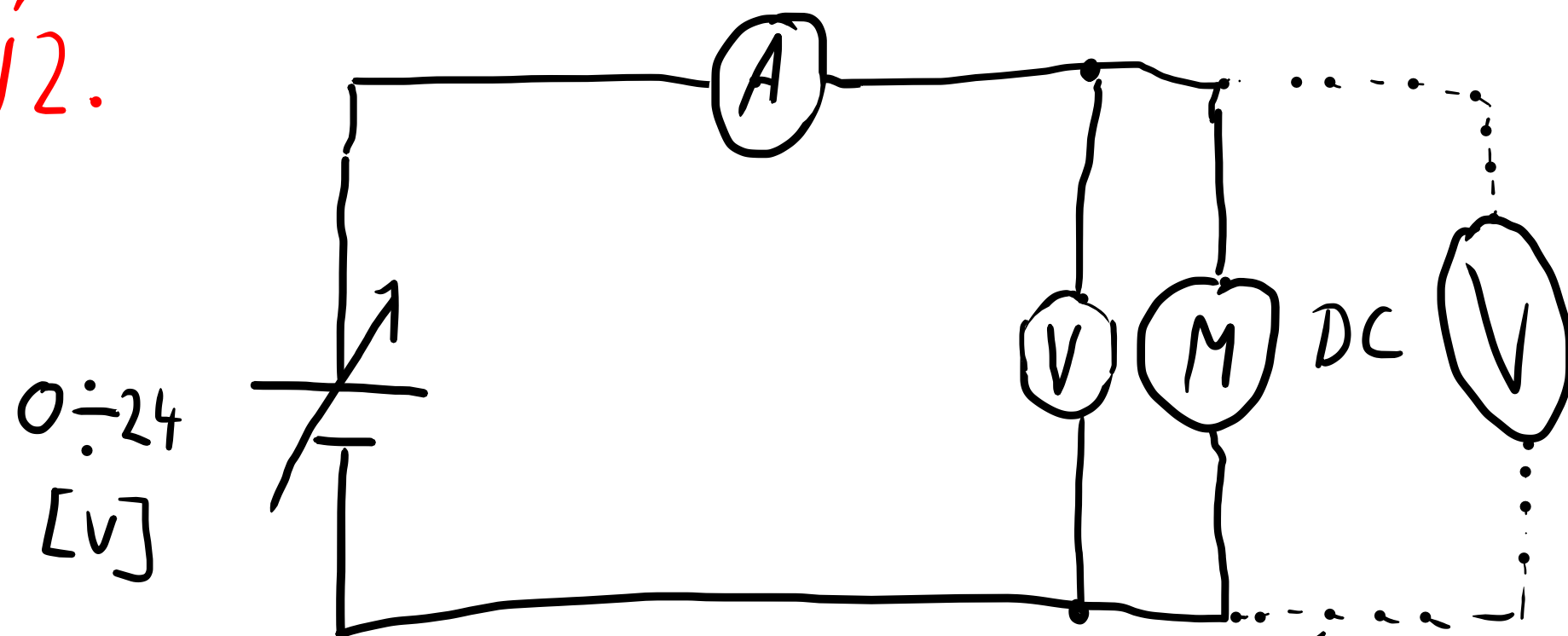
$$\rightarrow = 33.51451042849592$$

Extended Keyboard Upload

Input

2100

Ú2.



$$\frac{\sqrt{a^2 + b^2 + c^2}}{\sqrt{x^2 + y^2 + z^2}}$$

