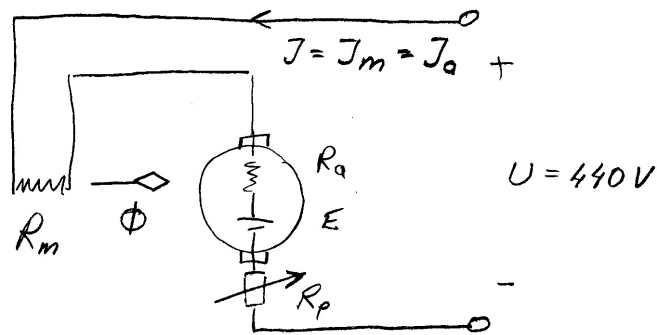


3.3

## SERIEMOTOR MED STARTPÅDRAG



$$R_m + R_a = 1,9 \Omega$$

$$U - (R_m + R_a) J_a - E - R_p J_a = 0 \dots (1)$$

$\uparrow$   
 $E = k, \Phi n$

$$\left. \begin{array}{l} P_2 = 2,5 \text{ kW} \\ \eta = 0,76 \\ \epsilon = \frac{P_2}{P_1} \end{array} \right\} \Rightarrow P_1 = 3289 \text{ W}$$

$$P_1 = U \cdot J_a \Rightarrow J_a = 7,48 \text{ A}$$

$\uparrow$   
 $440V$

$$\text{VID START : } J_a = 7,48 \cdot 1,6 = 12 \text{ A}$$

INS I (1)  $\rightarrow$

$$+ 440 - 1,9 \cdot 12 - k, \Phi \cdot 0 - R_p \cdot 12 = 0$$

$$\Rightarrow R_p = 35 \Omega \quad (34,8 \Omega)$$