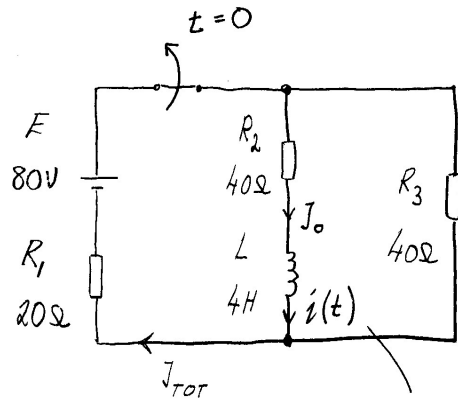


C9

sök  $i(0,050)$ .



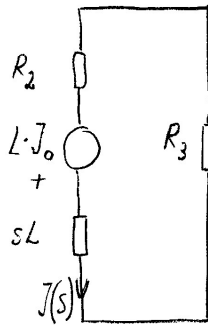
$$i(t) = J_0 \text{ då } t < 0$$

$WL = 0$  TY  $W = 0$  (LIKSTRÖM)

$$J_{TOT} = \frac{E}{R_{TOT}} = \frac{E}{R_1 + \frac{R_2 R_3}{R_2 + R_3}} \rightarrow J_{TOT} = 2A$$

STRÖMDELNING  $\rightarrow J_0 = J_{TOT} \cdot \frac{R_3}{R_2 + R_3} \Rightarrow J_0 = 1A$

OPERATORSKEMA



$$J(s) = \frac{L \cdot J_0}{R_2 + R_3 + sL} = \frac{J_0}{s + \frac{R_2 + R_3}{L}}$$

$$\rightarrow J(s) = \frac{1}{s + 20} \Rightarrow$$

$$i(t) = e^{-20t}$$

$$i(0,050) = e^{-20 \cdot 0,050} A =$$

$$= 0,37 A$$