

$$h := 0.605$$

$$N_1 := 16$$

$$I_{\max} := 1443 \cdot \sqrt{2}$$

$$\mu_0 := 4 \cdot \pi \cdot 10^{-7}$$

$$p_{\max} := \frac{1}{2} \cdot \mu_0 \cdot \left(\frac{N_1 \cdot I_{\max}}{h} \right)^2$$

$$p_{\max} = 1.83 \times 10^3 \quad \text{N/m}^2$$

$$p_{\max} := \frac{1}{2} \cdot \mu_0 \cdot \left(\frac{N_1 \cdot I_{\max}}{h} \right)^2 \cdot \frac{1}{9.81 \cdot 10^4}$$

$$p_{\max} = 0.019$$

$$E_n := \frac{400}{\sqrt{3}} \quad Z_{cc} := 4.39 \cdot 10^{-3}$$

$$I_{cc_reg} := \frac{E_n}{Z_{cc}} \quad I_{cc_reg} = 5.261 \times 10^4$$

$$I_{cc_max} := I_{cc_reg} \cdot \sqrt{2} \cdot 1.8$$

$$p_{\max_cc} := \frac{1}{2} \cdot \mu_0 \cdot \left(\frac{N_1 \cdot I_{cc_max}}{h} \right)^2 \cdot \frac{1}{9.81 \cdot 10^4}$$

$$p_{\max_cc} = 80.331$$