



$$n = 40'000 \text{ d/min}$$

$$\omega = 4189$$

$$F_R = \omega^2 \cdot r \cdot m = 4189^2 \cdot 0,035 \cdot 0,0015$$

$$F_R = 927 \text{ N} \quad (P_{\text{Motor}} = 2,27 \text{ Ps})$$

$$P_{\text{motor}} = 1,67 \text{ kW} \quad P = F \cdot v \Rightarrow F = \frac{P}{v}$$

$$F_v = \frac{1670}{83} = 20 \text{ N}$$

$$\Rightarrow \frac{F_v}{F_R} = 2,17\% \leftarrow \text{Kritisch für } \Omega$$

Speedpopeller F2A gez. 9.2.08