

$$P := 4 \text{ kW}$$

$$f := 2900 \cdot \frac{1}{\text{min}}$$

Use here the dimension $\frac{1}{\text{min}}$ and define *min* as Unit and all will be fine

$$M_t := \frac{P}{2 \pi \cdot f} = 13.171 \text{ N} \cdot \text{m}$$