



$$P_{AG} = 3I_2^2 \frac{1}{s} R_2$$

$$P_{rcL} = 3I_2^2 R_2$$

$$P_{conv} = 3I_2^2 \frac{(1-s)}{s} R_2$$

$$\frac{P_{conv}}{P_{AG}} = \frac{(1-s)}{1}$$

$$R_2 + \frac{(1-s)}{s} R_2$$

$$= \frac{sR_2}{s} + \frac{(1-s)}{s} R_2$$

$$= \frac{1}{s} R_2$$

$$n_{\text{sync}} = \frac{120 f_{se}}{p}$$

$$= \frac{60 f_{se}}{p/2} \quad \text{r/minute}$$

$$n_{\text{sync in r/s}} = \frac{f_{se}}{p/2} \quad \text{r/s}$$

$$\omega_{\text{sync}} = \frac{f_{se}}{p/2} \cdot 2\pi \quad \text{rad/s}$$