

Induction Motor Formulas

Speed, frequency, and poles

$$\eta_{sync} = \frac{120 f}{p}$$

η_{sync} = Synchronous speed

f = frequency

P = poles

Motor slip calculation

$$s = \frac{\eta_{sync} - \eta_m}{\eta_{sync}} * 100\%$$

η_{sync} = Speed of magnetic field

η_m = Mechancial shaft speed

Torque, HP, and Speed

$$\tau_{ind} = \frac{P}{\omega_m}$$

$$\tau_{ind} = Nm$$

P = Power in kW

ω_m = r/min

Starting current calculator

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$$I_L = \frac{S_{start}}{\sqrt{3} V_T}$$

S_{start} = rated HP * code factor

V_T = Rated voltage

Formulas For Induction Motor

**Nin Bizys, Andrejus Henrikas
Marcinkevičius**



Formulas For Induction Motor:

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