

Basic Motor Formulas And Calculations

The formulas and calculations which appear below should be used for estimating purposes only. It is the responsibility of the customer to specify the required motor Hp, Torque, and accelerating time for his application. The customer may wish to check the customer's specified values with the formulas in this section, however, if there is serious doubt concerning the customer's application or if the customer requires guaranteed motor/application performance, the Product Department Customer Service group should be contacted.

Rules Of Thumb (Approximation)

At 1800 rpm, a motor develops a 5 lb.ft. per hp.
 At 1200 rpm, a motor develops a 6.5 lb.ft. per hp.
 At 575 volts, a 3-phase motor draws 1 amp per hp.
 At 480 volts, a 3-phase motor draws 1.25 amp per hp.
 At 230 volts a 3-phase motor draws 2.5 amp per hp.
 At 230 volts, a single-phase motor draws 5 amp per hp.
 At 125 volts, a single-phase motor draws 10 amp per hp.

Mechanical Formulas

$$\text{Torque in lb.ft.} = \frac{\text{HP} \times 5250}{\text{rpm}} \quad \text{HP} = \frac{\text{Torque} \times \text{rpm}}{5250} \quad \text{rpm} = \frac{120 \times \text{Frequency}}{\text{No. of Poles}}$$

Temperature Conversion

Deg C = (Deg F - 32) x 5/9
 Deg F = (Deg C x 9/5) + 32

High Inertia Loads

$$t = \frac{WK^2 \times \text{rpm}}{308 \times T \text{ av.}} \quad \begin{array}{l} WK^2 = \text{inertia in lb.ft.}^2 \\ t = \text{accelerating time in sec.} \\ T = \text{Av. accelerating torque} \\ \text{Bb.ft.} \end{array}$$

$$= \frac{T \times WK^2 \times \text{rpm}}{308 \times t}$$

$$\text{inertia reflected to motor} = \text{Load Inertia} \left(\frac{\text{Load rpm}}{\text{Motor rpm}} \right)^2$$

Synchronous Speed, Frequency And Number Of Poles Of AC Motors

$$n_s = \frac{120 \times f}{P} \quad f = \frac{P \times n_s}{120} \quad P = \frac{120 \times f}{n_s}$$

Relation Between Horsepower, Torque, And Speed

$$\text{HP} = \frac{T \times n}{5250} \quad T = \frac{5250 \text{ HP}}{n} \quad n = \frac{5250 \text{ HP}}{T}$$

Basic Motor Formulas And Calculations

Michal Rosen-Zvi



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