

## 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

$$\begin{aligned} \text{Deg C} &= (\text{Deg F} - 32) \times 5/9 \\ \text{Deg F} &= (\text{Deg C} \times 9/5) + 32 \end{aligned}$$

## High Inertia Loads

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

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

## 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

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

# Motor Formulas And Calculations

**SB Merriam**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular glow behind it.

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