

Definitions

Reluctance = R; Force = F; Flux = ϕ ; Flux Density = B; Induct = L;
 Electromotor Force = EMF; Current = I; Flux Linkage = λ ; Turns = N; Field
 intensity = H; field energy = wf; coenergy = wf'; Torque = T; short circuit
 ratio = SCR; unsat synchronous reactance = Xus; sat synch react = Xss;
 Line Voltage open circuit characteristic = Voc; Armature current short
 circuit test = lasc; open circuit field current = AFNL; short circuit field
 current = AFSC; unsat -> unsat motor region; sat -> saturated motor
 region..

Chapter 1 Equations

R	$\text{len}/(\mu\epsilon\text{ua}\text{A})$	F	$N\text{*I}$
I	F_{tot}/N	F	$H\text{*coreLen}$
ua	$1.26\text{*}10^{-6}\text{Hm}^{-1}$	F	$\phi\text{*R}$
L	N^2/R_{eq}	B	$\phi/A \text{ [T]}$
L	λ/i	Perm	$1/R_{\text{tot}}$
L	$N^2(\mu_0)(Ag)/g$		



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