

Institute of Engineering Studies (IES, Bangalore DC MACHINES : -

Electrical Machines Formula Sheet

	Lap Winding	Wave Winding
(1) Coil Span:	$Y_{CS} = \frac{S}{P}$	$Y_{cs} = \frac{s}{p}$
(2) Back Pitch	$Y_{b} = U Y_{cs}$	$Y_b = U Y_{cs}$
(3) Commutator Pitch	$Y_c = 1$ for Progressive winding $Y_c = -1$ for Retrogressive winding	$Y_c = \frac{2(c+1)}{p}$ for Progressive winding $Y_c = \frac{2(c+1)}{p}$ for Restrogressive winding (Y _L Must be integer)
(4) Front Pitch	$Y_f = Y_b + 2$ for Progressive winding $Y_f = Y_b - 2$ for Retrogressive winding	CASAS AND
(5) Parallel Paths	A = P	A = 2
(6) Conductor Current	$I_c = \frac{I_a}{\Lambda}$	$I_c = \frac{I_B}{2}$
(7) No of brushes	No of brushes = A = P	No of brushes = 2

- S = No of commutator segments
- P = No of poles #
- U = No of coil sides / No of poles
- C = No of coils on the rotor.
- A = No of armature parallel paths
- I. = Armature current
 - \rightarrow Distribution factor $(K_d) = \frac{\text{phasor sum coil emf}}{\text{arthematic sum of coil emf}} = \frac{\text{chord}}{\text{arc}} = \frac{2}{\pi}$ \rightarrow Pitch factor $(K_p) = \frac{\text{electrical angle of coil}}{100^9} * 100\%$

 - $\rightarrow \theta_{\text{electrical}}^0 = \frac{P}{z} \theta_{\text{mechanical}}^0$

 - → Armature mmf/Pole (Peak) , AT_a = ZI_a / 2AP
 → AT (Compensating Winding) = ZI_a / Pole arc pole pitch

Formula Sheet For Power Machines N6

A Loxley

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