

Table D**Approximate Flux Densities - Lines Per Square Inch***

Frame Type	Air Gap				Tooth	Back Iron
	2 Pole	4 Pole	6 Pole	8 Pole		
Today's 60 Hertz Motors	46,000	55,000	54,000	54,000	120,000	115,000
Today's 50 Hertz Motors	48,300	57,700	56,700	56,700	126,000	121,000
Pre-1960 Semi-closed Stator Slots	39,000	47,000	47,000	48,000	100,000	95,000
Pre-1960 Open Stator Slots	36,000	40,000	39,000	38,000	85,000	75,000

Approximate Flux Densities - Lines Per Square Centimeter*

Frame Type	Air Gap				Tooth	Back Iron
	2 Pole	4 Pole	6 Pole	8 Pole		
Today's 60 Hertz Motors	7,130	8,525	8,370	8,370	18,600	17,800
Today's 50 Hertz Motors	7,490	8,950	8,790	8,790	19,500	18,700
Pre-1960 Semi-closed Stator Slots	6,045	7,285	7,285	7,440	15,500	14,700
Pre-1960 Open Stator Slots	5,580	6,200	6,045	5,890	13,200	11,600

Pre-1960 motors - Class A temperature rise; today's motors - Class B temperature rise.

*1 Tesla = 64,500 lines per square inch = 10,000 Gauss = 1 Weber per square meter = 10,000 lines per square centimeter.