



NEMA Design	Locked Rotor Torque	Breakdown Torque	Locked Rotor Current	% Slip	Relative Efficiency
B	70-275%*	175-300%*	600-700%	.05-5%	Medium or High
	Applications: Fans, blowers, centrifugal pumps and compressors, motor-generator sets, etc., where starting torque requirements are relatively low.				
C	200-250%*	190-225%*	600-700%	1-5%	Medium
	Applications: Conveyors, crushers, stirring machines, agitators, reciprocating pumps and compressors, etc., where starting under load is required.				
D	275%	275%	600-700%	5-8% 8-13% 15-25%	Medium
	Applications: High peak loads with or without flywheels, such as punch presses, shears, elevators, extractors, winches, hoists, oil-well pumping, and wire-drawing machines.				
E	75-190%*	160-200%*	800-1000%	0.5-3%	High
	Applications: Fans, blowers, centrifugal pumps and compressors, motor-generator sets, etc., where starting torque requirements are relatively low.				

Based on NEMA Standards MG 10, Table 2-1. NEMA Design A is a variation of Design B having higher locked-rotor current.

*Higher values are for motors having lower horsepower ratings.