Motor Characteristics

Type of Driven Machinery	Motor Type Designation	Speed R.P.M.	Approx. Starting Torque in % of full Load Torque	Approx. Max. Torque in % of full Load Torque	Approx. Starting Current in % of full Load Current	Approx. Speed Regulation % Slip	Load Conditions
Pumps, Centrifugals, Westco Peripheral, Rotary, Propeller	NEMA Design A & B	1800 1200 900	125-275 125-180 115-150	200-300 200-275 200-250	450-550 450-550 450-550	2-4 2-4 2-4	A
Pumps, Positive Displacement	Ratings 3 H.P. & Larger NEMA Design C	1800 1200 900	225-275 200-250 190-225	200-300 200-275 190-250	450-550 450-550 450-550	3-5 3-5 3-5	B
Pump, Centrifugal Propeller	30 H.P. & Larger NEMA Design F	1800 1200 900	75-100 75-100 75-100	150-160 150-160 150-160	350-400 350-400 350-400	3-5 3-5 3-5	C
Pumps, Positive Displacement	Multi-Speed Constant Torque	1800/900 1800/1200/900/600	125-180 125-180	200-250 200-250	450-550 450-550	2-4 2-4	A
Pumps, Centrifugal	Multi-Speed Variable Torque	1800/900 1800/1200/900/600	125-180 125-180	200-250 200-250	450-550 450-550	2-4 2-4	A

A: Require normal starting torque for continuous duty. Infrequent load fluctuations. Motor provides service factor for overload conditions. Constant speed. No special conditions.

B: Compressors and pumps requiring less than 7 1/2Hp. under certain conditions may be successfully handled by type KZK

Motors. Heavy starting, continuous or intermittent duty; service factor for overload conditions.

C: Low starting and maximum torque. Low starting current. Continuous duty, service factor 1.0 and no overload capacity.