TYPE 24 BRUSHLESS PERMANENT MAGNET MOTOR

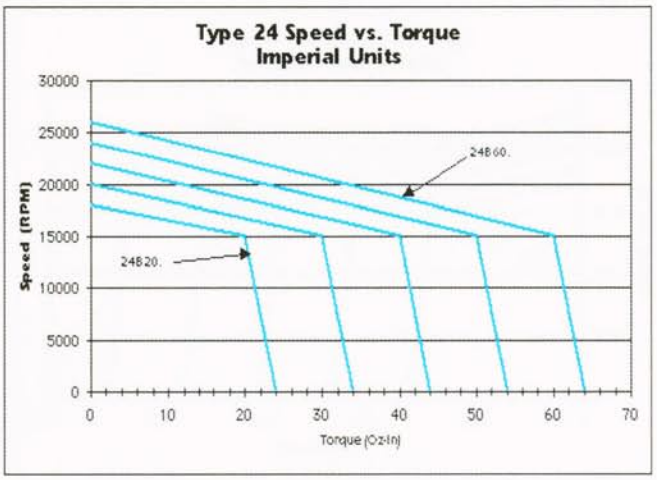
PERFORMANCE AT +25° C UNIT TEMPERATURE

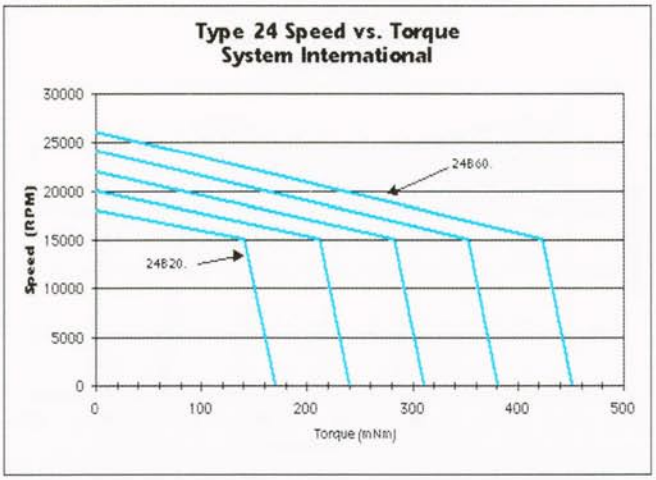
Km=6.0

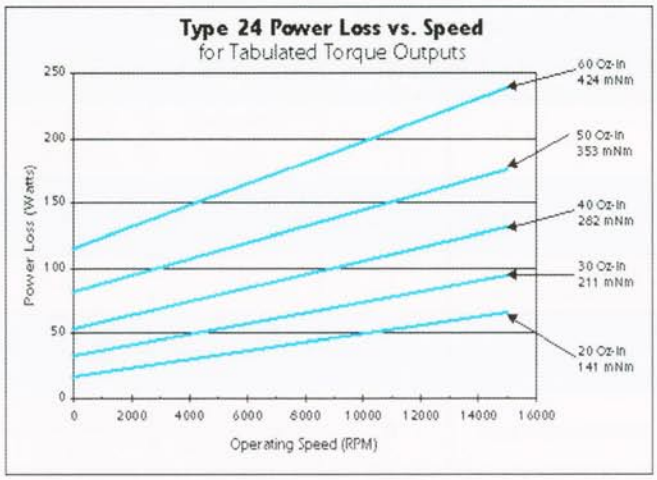
MOTOR TYPE	DATA AT MAXIMUM POWER OUTPUT					DATA AT STALL			NO LOAD SPEED	TORQUE CONSTANT	
	MOTOR TORQUE		MOTOR SPEED	POWER OUTPUT	POWER LOSS	MOTOR TORQUE		POWER LOSS		270 VOLT SUPPLY (SEE NOTE 3)	
	Oz-In	mNm	RPM	WATTS	WATTS	Oz-In	mNm	Watts	RPM	Oz-In/Amp	mNm/Amp
24B20.	20	141	15000	222	65	24	169	16	18000	19.1	135
24B30.	30	212	15000	333	94	34	240	32	19000	17.2	121
24B40.	40	282	15000	444	130	44	311	53	21000	16.1	114
24B50.	50	353	15000	555	175	54	381	81	23000	15.5	109
24B60.	60	424	15000	666	238	64	452	114	26000	13.9	98

Notes:

1. Other performance characteristics are available on request.
2. Two phase or three phase windings as required.
3. To determine torque constant at other supply voltages, multiply the tabulated torque constant by your operational voltage, then divide this figure by 270.
4. Unit operational temperature range: -80° C to +225° C. Wider temperature ranges available.
5. See pages 14 through 17 for motor temperature rise data.







TYPE 24 CONSTANTS
(@ 25° C - For Reference Only)

Parameter	Symbol	Units	Value
Inertia	J_M	Oz-In-sec^2	2.5 E-04
		kgm^2	1.8 E-06
Motor Constant	K_M	Oz-In/w$^{.5}$	6.0
		mNm/w$^{.5}$	42
Electrical Time Constant (L/R)	τ_e	sec	1.2 E-03
Coulomb Friction	F_C	Oz-In	1.2
		mNm	8.5
Viscous Friction	B_V	Oz-In/rpm	2.67 E-04
		mNm/rpm	1.88 E-03