

TYPE 48 BRUSHLESS PERMANENT MAGNET MOTOR

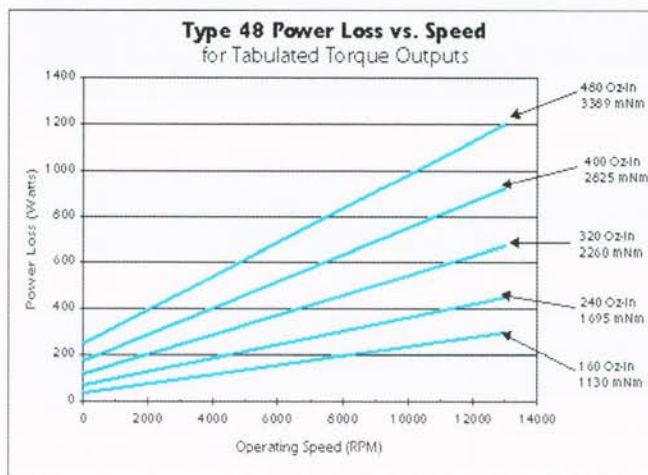
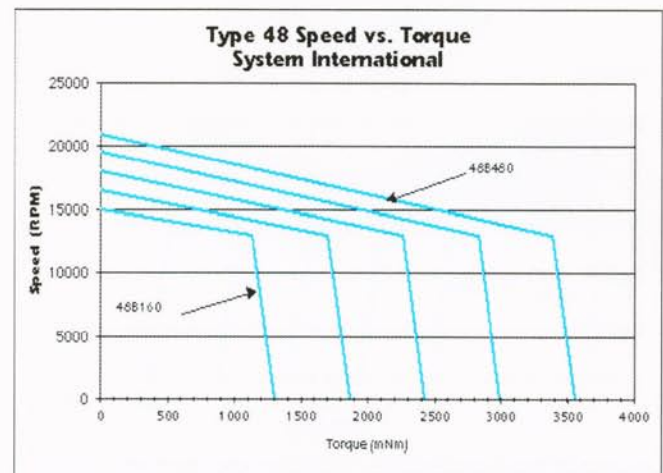
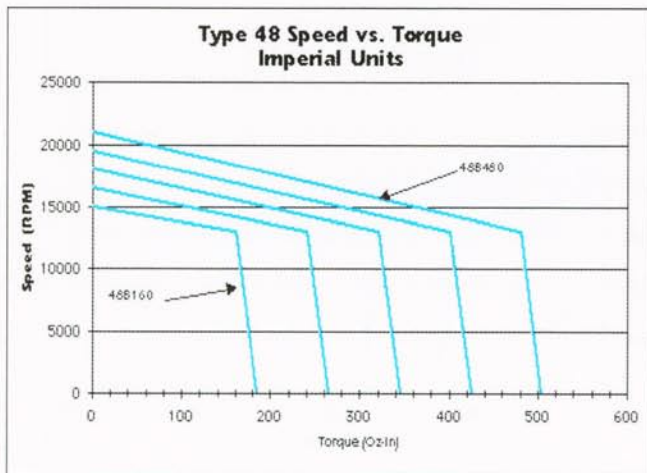
Km=32

PERFORMANCE AT +25° C UNIT TEMPERATURE

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
48B160	160	1130	13000	1538	300	184	1300	33	15000	24	169
48B240	240	1694	13000	2307	450	264	1864	68	16000	22	155
48B320	320	2260	13000	3077	670	344	2428	115	17000	21	148
48B400	400	2824	13000	3846	920	424	2993	175	19000	19	134
48B480	480	3390	13000	4615	1200	504	3558	248	21000	17	120

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 48 CONSTANTS (@ 25° C - For Reference Only)			
Parameter	Symbol	Units	Value
Inertia	J_M	Oz-In-sec ²	2.6 E-03
		kgm ²	1.9 E-05
Motor Constant	K_M	Oz-In/w ⁻⁵	31
		mNm/w ⁻⁵	219
Electrical Time Constant (L/R)	τ_e	sec	4.0 E-03
Coulomb Friction	F_c	Oz-In	5.0
		mNm	35
Viscous Friction	B_v	Oz-In/rpm	1.84 E-03
		mNm/rpm	1.30 E-02