TYPE 16 BRUSHLESS PERMANENT MAGNET MOTOR

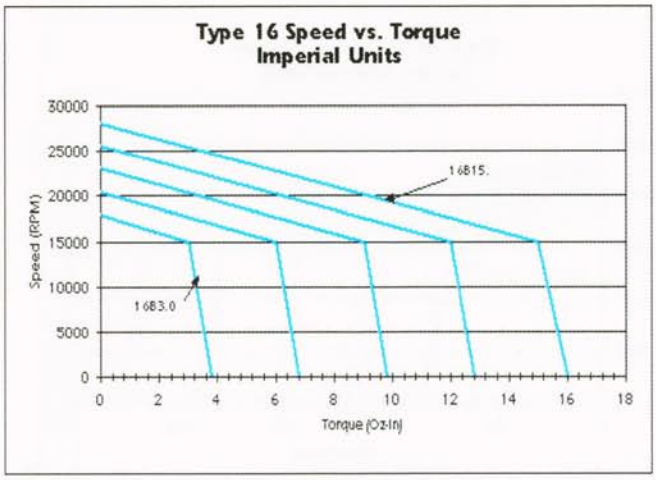
PERFORMANCE AT +25° C UNIT TEMPERATURE

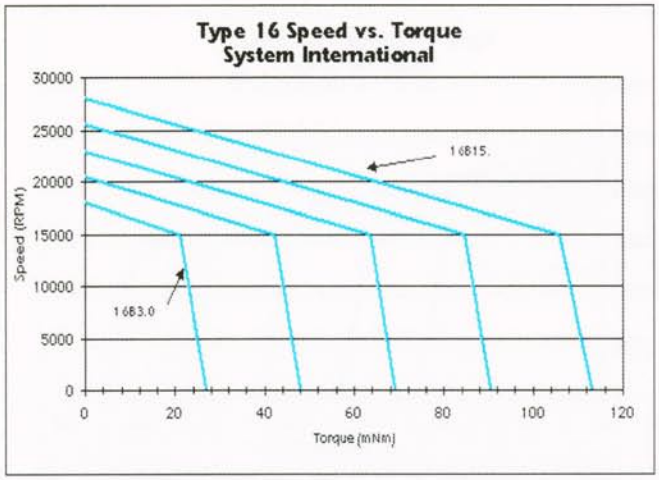
Km=2.0

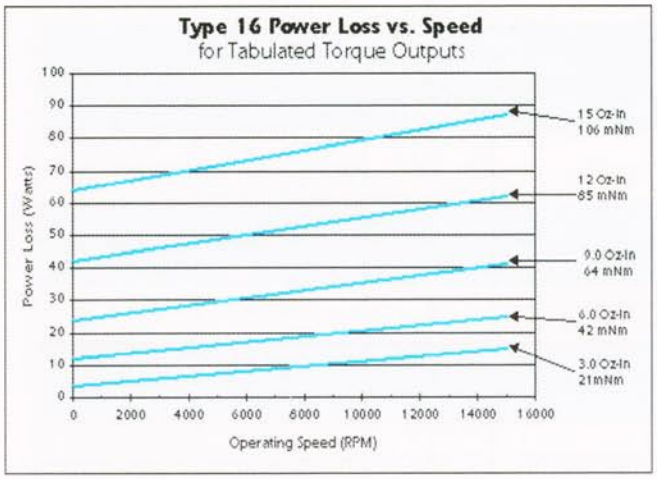
MOTOR TYPE	DATA AT MAXIMUM POWER OUTPUT					DATA AT STALL			NO LOAD SPEED	TORQUE CONSTANT	
	MOTOR TORQUE		MOTOR SPEED	POWER OUTPUT	POWER LOSS	MOTOR TORQUE		POWER LOSS		270 VOLT SUPPLY (SEE NOTE 3)	
	Oz-In	mNm	RPM	WATTS	WATTS	Oz-In	mNm	Watts	RPM	Oz-In/Amp	mNm/Amp
16B3.0	3.0	21	15000	33	15	3.8	26	3.6	19000	18.7	132
16B6.0	6.0	42	15000	67	25	6.8	48	12	20000	17.7	124
16B9.0	9.0	64	15000	100	41	9.8	69	24	22500	15.8	112
16B12.	12	85	15000	133	62	13	90	42	25500	14.2	100
16B15.	15	106	15000	166	87	16	110	64	28500	12.8	90

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 16 CONSTANTS (@ 25° C - For Reference Only)			
Parameter	**Symbol**	**Units**	**Value**
Inertia	J_M	Oz-In-sec^2	3.4 E-05
		kgm^2	2.4 E-07
Motor Constant	K_M	Oz-In/w$^{.5}$	2.0
		mNm/w$^{.5}$	14
Electrical Time Constant (L/R)	τ_e	sec	6.0 E-04
Coulomb Friction	F_C	Oz-In	0.35
		mNm	2.47
Viscous Friction	B_V	Oz-In/rpm	5.33 E-05
		mNm/rpm	3.77 E-04