



Servomotor MP66M

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1.4Nm

Data sheet -----

Motor CEI and IEC standards – permanent magnet – 2 poles – low loss magnetic lamination

Speed/torque/current linear characteristics – excellent dynamic response

High torque increase at low speed – wide range speed regulation at constant torque

Rotation regularity at low rpm with minimum torque ondulation – skewed slots armature



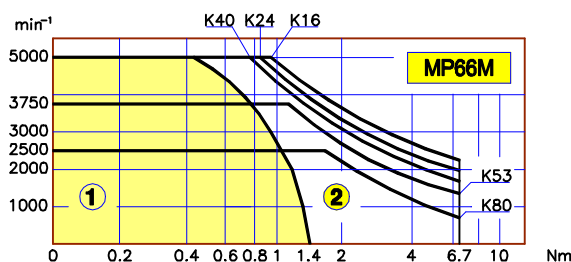
TYPE	Symbols	Units	MP66M				
Winding code	---	---	K16	K24	K40	K53	K80
Continuous stall torque	Cn	Nm	1.4	1.4	1.4	1.4	1.4
Continuous stall current	In	A	10	6.6	4	3	2
Peak stall torque	Cp	Nm	6.7	6.7	6.7	6.7	6.7
Peak current	Ip	A	48	32	19	14	9.6
Torque constant	Kt	Nm/A	0.14	0.21	0.35	0.48	0.72
Rated speed	n	min ⁻¹	3000	3000	3000	3000	2000
Befm rated speed	E	V	44	66	110	151	151
Voltage constant	Ke	Vs/rad	0.14	0.21	0.35	0.48	0.72
Armature resistance	Ra	ohm	0.6	1.3	3.8	6.2	14
Terminals resistance	Rm	ohm	0.8	1.5	4.1	6.5	14.3
Armature inductance	La	mH	1.5	4	11	18	44
Electrical time constant	Te	ms	1.9	2.7	2.7	2.8	3
Mechanical time constant	Tm	ms	15	13	13	11	11
Thermal time constant	Tt	min	40	40	40	40	40
Moment of inertia	J	Kgcm ²	3.9	3.9	3.9	3.9	3.9
Max. theoretical acceleration	a max.	rad/s ²	17180	17180	17180	17180	17180
Max. speed	n max	min ⁻¹	5000	5000	5000	3750	2500
Max. voltage	V max	V	80	120	200	200	200
Weight	---	Kg	4.3	4.3	4.3	4.3	4.3

Torque at 1500min ⁻¹	Duty S1	C1	Nm	1.3	1.3	1.3	1.3	1.3
Power at 1500min ⁻¹	Duty S1	P1	W	200	200	200	200	200
Current at 1500min ⁻¹	Duty S1	I1	A	9.2	6.2	3.7	2.8	1.85
Torque at 2000min ⁻¹	Duty S1	C2	Nm	1.2	1.2	1.2	1.2	1.2
Power at 2000min ⁻¹	Duty S1	P2	W	250	250	250	250	250
Current at 2000min ⁻¹	Duty S1	I2	A	8.7	5.8	3.5	2.6	1.8
Torque at 3000min ⁻¹	Duty S1	C3	Nm	1	1	1	1	1
Power at 3000min ⁻¹	Duty S1	P3	W	315	315	315	315	315
Current at 3000min ⁻¹	Duty S1	I3	A	7.2	4.8	2.9	2.1	1.5

Note/ notes

Form factor 1

Tolerance ±10%



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CONTINUOUS DUTY

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INTERMITTENT DUTY