



Servomotor MP66S

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0.7Nm

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



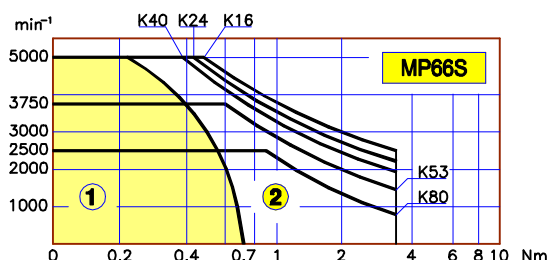
TYPE	Symbols	Units	MP66S				
Winding code	---	---	K16	K24	K40	K53	K80
Continuous stall torque	Cn	Nm	0.7	0.7	0.7	0.7	0.7
Continuous stall current	In	A	5	3.3	2	1.5	1
Peak stall torque	Cp	Nm	3.4	3.4	3.4	3.4	3.4
Peak current	Ip	A	24	16	9.6	7.2	4.8
Torque constant	Kt	Nm/A	0.14	0.21	0.35	0.48	0.72
Rated speed	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	1.6	3	9.7	17	38
Terminals resistance	Rm	ohm	1.8	3.2	10	17.3	38.3
Armature inductance	La	mH	3.8	8.6	25	44	104
Electrical time constant	Te	ms	2.1	2.7	2.5	2.6	2.7
Mechanical time constant	Tm	ms	19	15	17	16	16
Thermal time constant	Tt	min	25	25	25	25	25
Moment of inertia	J	Kgcm ²	2.1	2.1	2.1	2.1	2.1
Max. theoretical acceleration	a max.	rad/s ²	16190	16190	16190	16190	16190
Max. speed	n max	min ⁻¹	5000	5000	5000	3750	2500
Max. voltage	V max	V	80	120	200	200	200
Weight	---	Kg	2.9	2.9	2.9	2.9	2.9

Torque at 1500min ⁻¹	Duty S1	C1	Nm	0.63	0.63	0.63	0.63	0.63
Power at 1500min ⁻¹	Duty S1	P1	W	99	99	99	99	99
Current at 1500min ⁻¹	Duty S1	I1	A	4.6	3.1	1.84	1.38	1.38
Torque at 2000min ⁻¹	Duty S1	C2	Nm	0.6	0.6	0.6	0.6	0.6
Power at 2000min ⁻¹	Duty S1	P2	W	126	126	126	126	126
Current at 2000min ⁻¹	Duty S1	I2	A	4.4	3	1.8	1.4	0.9
Torque at 3000min ⁻¹	Duty S1	C3	Nm	0.5	0.5	0.5	0.5	0.5
Power at 3000min ⁻¹	Duty S1	P3	W	157	157	157	157	157
Current at 3000min ⁻¹	Duty S1	I3	A	3.7	2.5	1.5	1.1	0.8

Note/ notes

Form factor 1

Tolerance ±10%



1

CONTINUOUS DUTY

2

INTERMITTENT DUTY