



Servomotor MP44M - MP40M

Servomotor MP44M - MP40M

0.2Nm

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



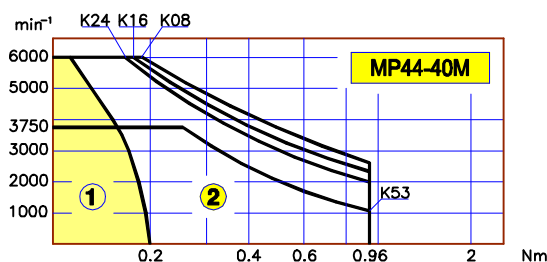
TYPE	Symbols	Units	MP44M - MP40M			
Winding code	---	---	K08	K16	K24	K53
Continuous stall torque	Cn	Nm	0.2	0.2	0.2	0.2
Continuous stall current	In	A	3	1.5	1	0.45
Peak stall torque	Cp	Nm	1	1	1	1
Peak current	Ip	A	14.4	7.2	4.8	2.2
Torque constant	Kt	Nm/A	0.067	0.137	0.207	0.458
Rated speed	n	min ⁻¹	3000	3000	3000	3000
Befm rated speed	E	V	21	43	65	144
Voltage constant	Ke	Vs/rad	0.067	0.137	0.207	0.458
Armature resistance	Ra	ohm	1.35	6.5	12	64.5
Terminals resistance	Rm	ohm	1.65	6.8	12.3	64.8
Armature inductance	La	mH	2	8.8	19	94
Electrical time constant	Te	ms	1.2	1.3	1.5	1.45
Mechanical time constant	Tm	ms	9.9	9.8	7.7	8.3
Thermal time constant	Tt	min	20	20	20	20
Moment of inertia	J	Kgcm ²	0.27	0.27	0.27	0.27
Max. theoretical acceleration	a max.	rad/s ²	37000	37000	37000	37000
Max. speed	n max	min ⁻¹	6000	6000	6000	3750
Max. voltage	V max	V	48	96	144	200
Weight	MP44 – MP40	Kg	1 – 0.9	1 – 0.9	1 – 0.9	1 – 0.9

Torque at 1500min ⁻¹	Duty S1	C1	Nm	0.185	0.185	0.185	0.185
Power at 1500min ⁻¹	Duty S1	P1	W	29	29	29	29
Current at 1500min ⁻¹	Duty S1	I1	A	2.7	1.34	0.9	0.4
Torque at 2000min ⁻¹	Duty S1	C2	Nm	0.17	0.17	0.17	0.17
Power at 2000min ⁻¹	Duty S1	P2	W	36	36	36	36
Current at 2000min ⁻¹	Duty S1	I2	A	2.5	1.25	0.84	0.38
Torque at 3000min ⁻¹	Duty S1	C3	Nm	0.14	0.14	0.14	0.14
Power at 3000min ⁻¹	Duty S1	P3	W	44	44	44	44
Current at 3000min ⁻¹	Duty S1	I3	A	2.1	1.1	0.7	0.32

Note/ notes

Form factor 1

Tolerance ±10%



①

CONTINUOUS DUTY

②

INTERMITTENT DUTY