



Servomotor MP44L - MP40L

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0.3Nm

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



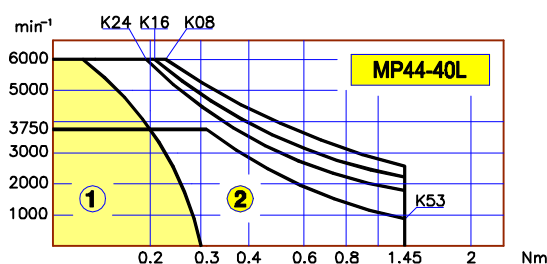
TYPE	Symbols	Units	MP44L - MP40L			
Winding code	---	---	K08	K16	K24	K53
Continuous stall torque	Cn	Nm	0.3	0.3	0.3	0.3
Continuous stall current	In	A	4.5	2.2	1.45	0.66
Peak stall torque	Cp	Nm	1.45	1.45	1.45	1.45
Peak current	Ip	A	21.6	10.6	7	3.2
Torque constant	Kt	Nm/A	0.067	0.137	0.207	0.458
Rated speed	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	0.8	3.3	8	33
Terminals resistance	Rm	ohm	1.1	3.6	8.3	33.3
Armature inductance	La	mH	1.3	5.5	12	55
Electrical time constant	Te	ms	1.2	1.5	1.4	1.6
Mechanical time constant	Tm	ms	9	7.4	7.5	6.2
Thermal time constant	Tt	min	35	35	35	35
Moment of inertia	J	Kgcm ²	0.39	0.39	0.39	0.39
Max. theoretical acceleration	a max.	rad/s ²	37200	37200	37200	37200
Max. speed	n max	min ⁻¹	6000	6000	6000	3750
Max. voltage	V max	V	48	96	144	200
Weight	MP44 - MP40	Kg	1.3 - 1.2	1.3 - 1.2	1.3 - 1.2	1.3 - 1.2

Torque at 1500min ⁻¹	Duty S1	C1	Nm	0.28	0.28	0.28	0.28
Power at 1500min ⁻¹	Duty S1	P1	W	44	44	44	44
Current at 1500min ⁻¹	Duty S1	I1	A	4.1	2.1	1.4	0.62
Torque at 2000min ⁻¹	Duty S1	C2	Nm	0.25	0.25	0.25	0.25
Power at 2000min ⁻¹	Duty S1	P2	W	52	52	52	52
Current at 2000min ⁻¹	Duty S1	I2	A	3.8	1.9	1.3	0.55
Torque at 3000min ⁻¹	Duty S1	C3	Nm	0.21	0.21	0.21	0.21
Power at 3000min ⁻¹	Duty S1	P3	W	66	66	66	66
Current at 3000min ⁻¹	Duty S1	I3	A	3.2	1.6	1.1	0.5

Note/ notes

Form factor 1

Tolerance ±10%



①

CONTINUOUS DUTY

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INTERMITTENT DUTY