



Servomotor MP44XL - MP40XL

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0.45Nm

Data sheet -----

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

Speed/torque/current linear characteristics - excellent dynamic response

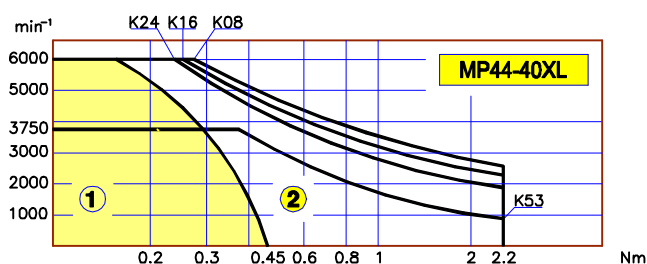
High torque increase at low speed - wide range speed regulation at constant torque

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



TYPE	Symbols	Units	MP44XL - MP40XL			
Winding code	---	---	K08	K16	K24	K53
Continuous stall torque	Cn	Nm	0.45	0.45	0.45	0.45
Continuous stall current	In	A	6.7	3.3	2.2	1
Peak stall torque	Cp	Nm	2.2	2.2	2.2	2.2
Peak current	Ip	A	32	15.9	10.6	4.8
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	0.32	2	4.8	22
Terminals resistance	Rm	ohm	0.62	2.6	5.1	22.3
Armature inductance	La	mH	0.8	2.6	7	34
Electrical time constant	Te	ms	1.3	1.3	1.4	1.5
Mechanical time constant	Tm	ms	8	8	7	6.2
Thermal time constant	Tt	min	45	45	45	45
Moment of inertia	J	Kgcm ²	0.58	0.58	0.58	0.58
Max. theoretical acceleration	a max.	rad/s ²	38000	38000	38000	38000
Max. speed	n max	min ⁻¹	6000	6000	6000	3750
Max. voltage	V max	V	48	96	144	200
Weight	MP44 - MP40	Kg	1.7 - 1.6	1.7 - 1.6	1.7 - 1.6	1.7 - 1.6

Torque at 1500min ⁻¹	Servizio/Duty S1	C1	Nm	0.4	0.4	0.4	0.4
Power at 1500min ⁻¹	Servizio/Duty S1	P1	W	63	63	63	63
Current at 1500min ⁻¹	Servizio/Duty S1	I1	A	5.8	2.9	1.95	0.88
Torque at 2000min ⁻¹	Servizio/Duty S1	C2	Nm	0.38	0.38	0.38	0.38
Power at 2000min ⁻¹	Servizio/Duty S1	P2	W	80	80	80	80
Current at 2000min ⁻¹	Servizio/Duty S1	I2	A	5.7	2.8	1.9	0.85
Torque at 3000min ⁻¹	Servizio/Duty S1	C3	Nm	0.32	0.32	0.32	0.32
Power at 3000min ⁻¹	Servizio/Duty S1	P3	W	100	100	100	100
Current at 3000min ⁻¹	Servizio/Duty S1	I3	A	4.8	2.4	1.6	0.7
notes			Form factor 1	Tolerance ±10%			



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CONTINUOUS DUTY

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INTERMITTENT DUTY