



Servomotor MP5946

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0.28Nm

Data sheet -----

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

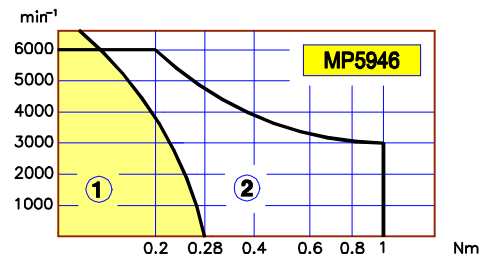
Speed/torque/current linear characteristics – excellent dynamic response

Wide range speed regulation at constant torque – enclosed no ventilated IC410

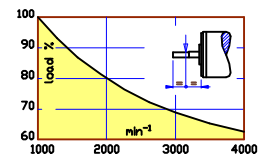
Ambient temperature max.+40°C – F/H class insulation – IP54 protection



TYPE	Symbols	Units	MP5946	
Winding code	---	---	K06	K08
Continuous stall torque	Cn	Nm	0.28	0.28
Continuous stall current	In	A	5.6	4.2
Peak stall torque	Cp	Nm	1	1
Peak current	Ip	A	20	15
Torque constant	Kt	Nm/A	0.05	0.067
Befm rated speed	E	V	21	21
Voltage constant	Ke	Vs/rad	0.05	0.067
Rated speed	n	min ⁻¹	4000	3000
Armature resistance	Ra	ohm	0.7	1.1
Terminals resistance	Rm	ohm	1.3	1.7
Armature inductance	La	mH	1.2	1.6
Electrical time constant	Te	ms	0.92	0.94
Moment of inertia	J	Kgcm ²	0.30	0.30
Max. speed	n max	min ⁻¹	6000	6000
Max. voltage	V max	V	36	48
Weight	---	Kg	1.3	1.3



① CONTINUOUS DUTY
② INTERMITTENT DUTY



type MP5946
Radial load at 1000min⁻¹: 60N
Axial load : 1/10 Radial load

Torque at 2000min ⁻¹	Duty S1	C2	Nm	0.24	0.24
Power at 2000min ⁻¹	Duty S1	P2	W	50	50
Current at 2000min ⁻¹	Duty S1	I2	A	4.8	3.6
Torque at 3000min ⁻¹	Duty S1	C3	Nm	0.2	0.2
Power at 3000min ⁻¹	Duty S1	P3	W	63	63
Current at 3000min ⁻¹	Duty S1	I3	A	4	3
Torque at 4000min ⁻¹	Duty S1	C4	Nm	0.17	0.17
Power at 4000min ⁻¹	Duty S1	P4	W	70	70
Current at 4000min ⁻¹	Duty S1	I4	A	3.4	2.5

Note/ notes

Form factor 1

Tolerance ±10%

