

Motor Parameters ILM38x12

Performance characteristics (interconnection star–serial)

Rated power (P)	[W]	190
Rated torque (T_{rated})	[Nm]	0,2
Peak torque (T_{max}) (20% linearity deviation)	[Nm]	0,7
Rated voltage (V_{rated})	[V]	48
Rotational speed (s_{max})* @ U_{rated}	[1/min]	9000
Rated current (I_{rated}) (phase current amplitude)	[A]	5
Loss from standstills ($P_{L,\text{rated}}$) @ T_{rated}	[W]	9,3
Torsional constant (phase current amplitude) (k_T)	[Nm/A]	0,046
Motor constant (k_M) @ 20°C	[Nm/ \sqrt{W}]	0,067
Terminal resistance (R) @ 20°C	[m Ω]	530
Terminal inductance (L)	[μ H]	375
Rotor inertia (I)	[kgcm ²]	0,02
Number of polpairs	–	7
Max. efficiency (η)	%	88
Weight of stator rotor kit (m)	[g]	86

* Theoretically achievable no–load speed



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T/I-diagram ILM38x12 (star-serial)

