

Motor Rated Power			575W
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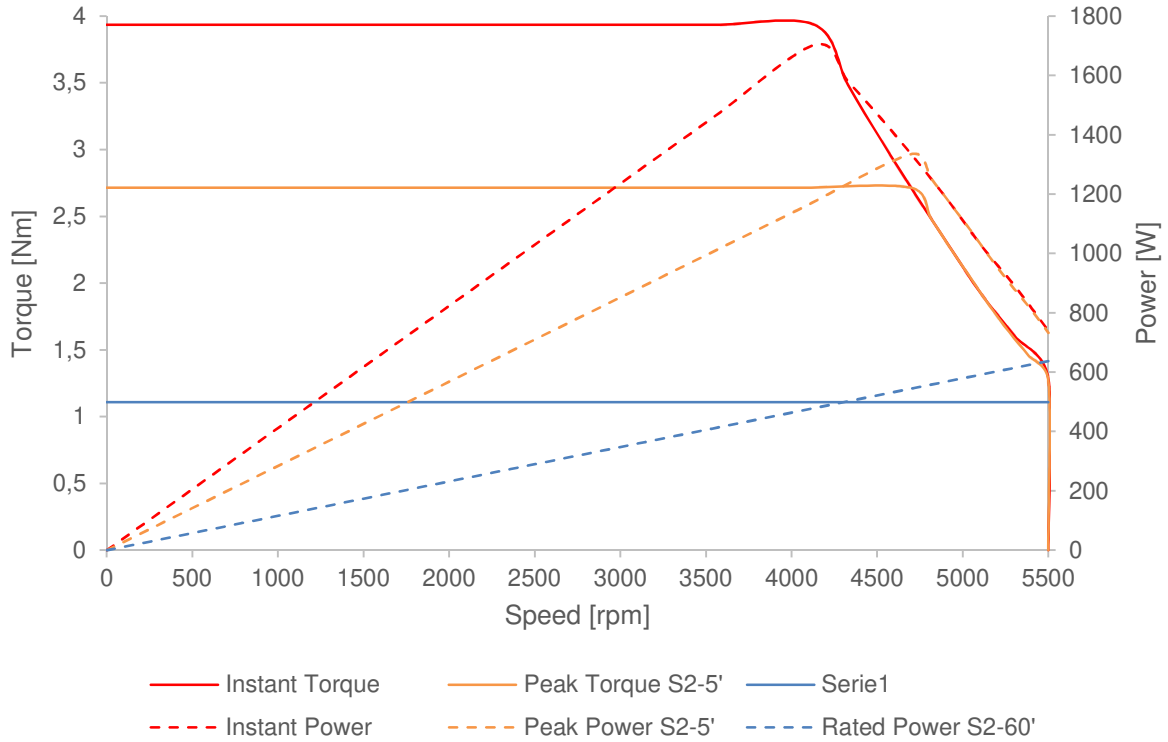
Inverter Power Supply			24Vdc
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Description	Symbol	Unit	
Duty	-	-	S2-60min
Nominal Speed	n_n	rpm	5000
Frequency (N° poles)	$f (2p)$	Hz	250.0 (6)
Maximum speed	n_{MAX}	rpm	5500
Costant Voltage	K_e	Vrms/Krpm	2.8
Costant Torque	K_t	Nm/Arms	0.045
Instant Torque	T_{inst}	Nm	3.90
Instant Current	I_{inst}	Arms	90.0
Peak Torque S2-5min	T_{peak}	Nm	2.70
Peak Current S2-5min	I_{peak}	Arms	62.0
Nominal Torque S2-60min	T_n	Nm	1.1
Nominal Current S2-60min	I_n	Arms	27.0
Rotor Inertia	J_r	kg x m ²	1.0 x 10 ⁻⁴
Ambient Temperature	θ_a	°C	-15 ÷ +40
Protection Degree	IP		IP 54
Insulation Class	-	-	F
Thermal protection	-	-	PTY 84-130
Cooling system			Air

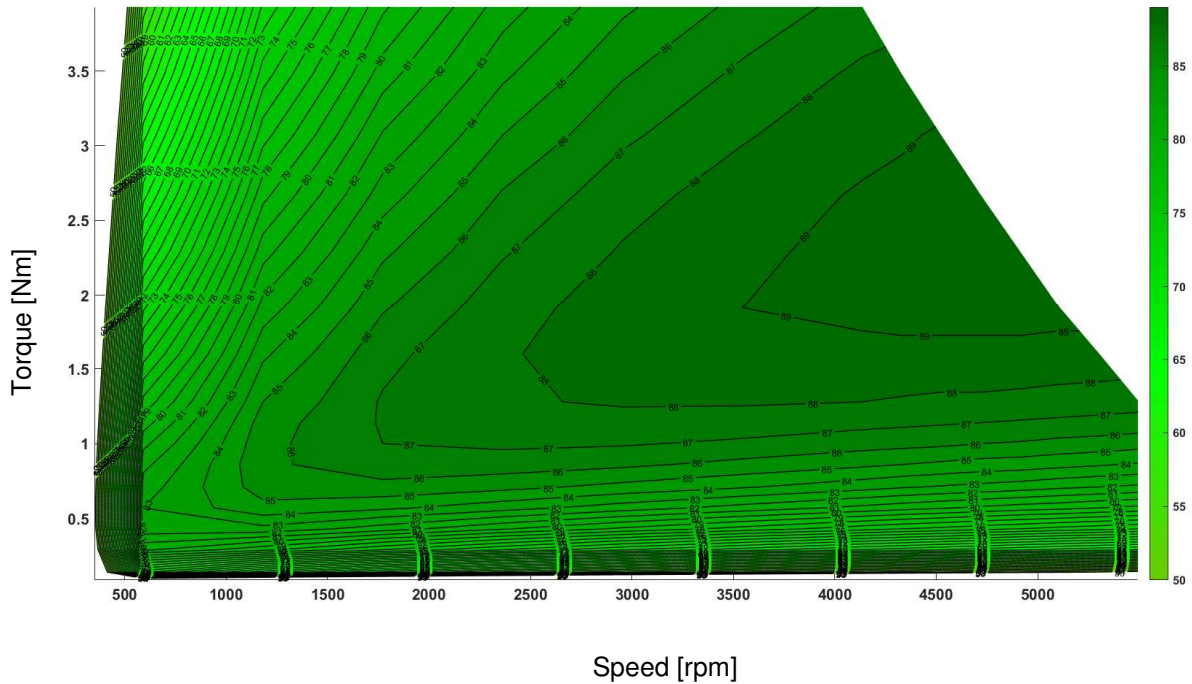
PRELIMINARY

Speed-Torque & Speed Power Motor Curves

SMAC 077-050



Efficiency Map % (*)



* MTPA Field Weakening strategy control & Optimized Advance Angle