

Motor Rated Power	40000W
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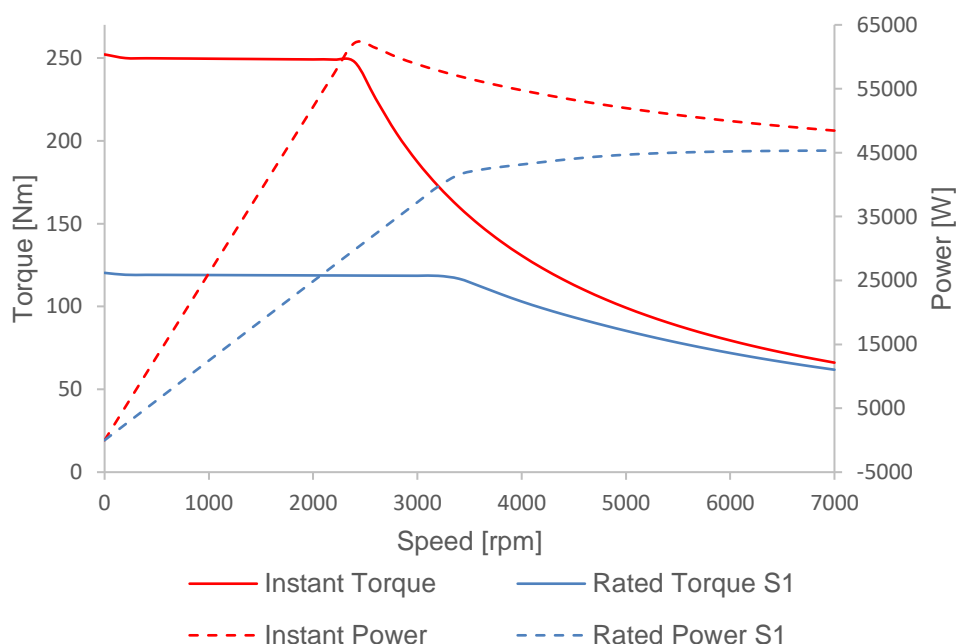
Inverter Power Supply	400Vdc
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Description	Symbol	Unit	
Duty	-	-	S1
Nominal Speed	n_n	rpm	3500
Frequency (N° poles)	$f (2p)$	Hz	233.3 (8)
Constant Voltage	K_e	Vrms/Krpm	69.0
Instant Torque	T_i	Nm	250.0
Instant Current	I_i	Arms	290.0
Rated Torque S1	T_r	Nm	118.0
Rated Current S1	I_r	Arms	107.0

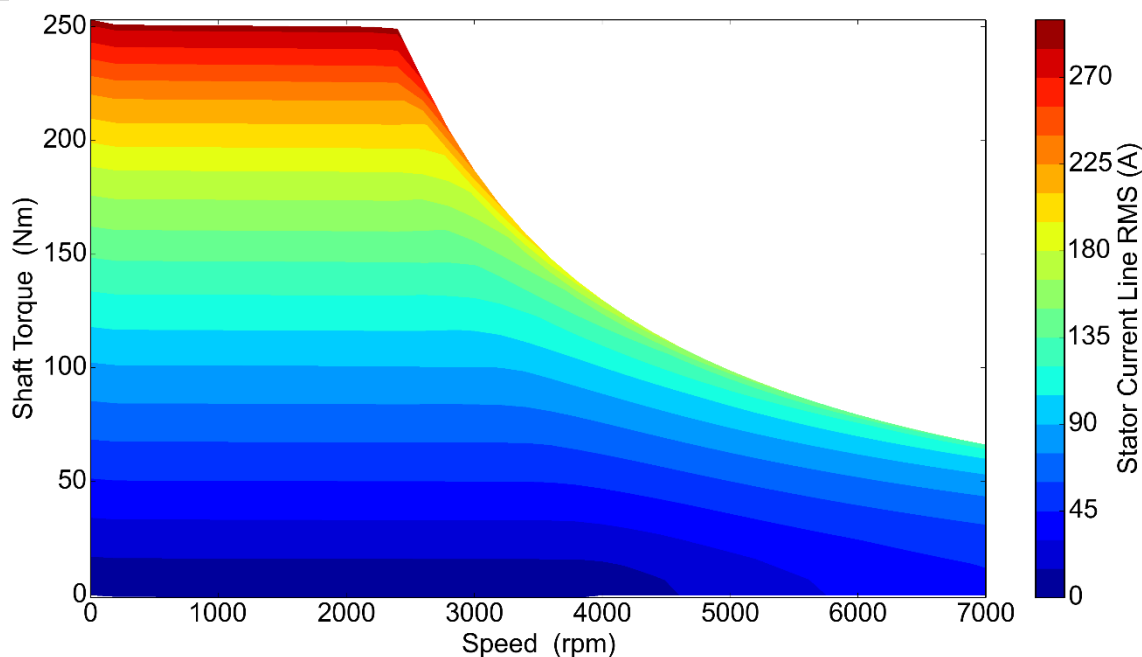
Short Circuit Current	I_{sc}	Arms	119.0
Rotor Inertia	J_r	kg x m ²	0.031
Ambient Temperature	θ_a	°C	-15 ÷ +40
Protection Degree	IP		IP 54 up to IP67
Insulation Class	-	-	F
Thermal protection	-	-	PTY 84-130 Alternative to KTY 84-130
Cooling system			Liquid

Speed-Torque & Speed Power Motor Curves (*)

SMAC 200-210



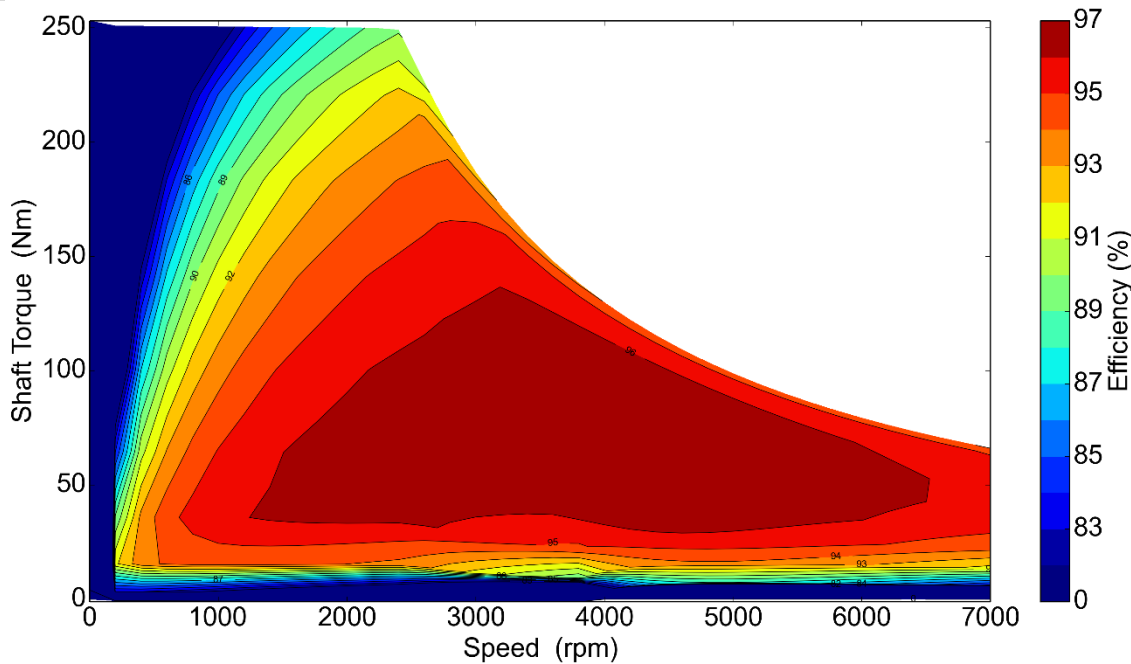
Current Map [Arms]



* MTPA – MTPV Field Weakening strategy control & Optimized Advance Angle
(Ref. Simulation temperature 20.0°C)

Simulation Only

Efficiency Map % (*)



PRELIMINARY - Simulated Data