

Motor Rated Power			20000W
--------------------------	--	--	---------------

Inverter Power Supply			600Vdc
------------------------------	--	--	---------------

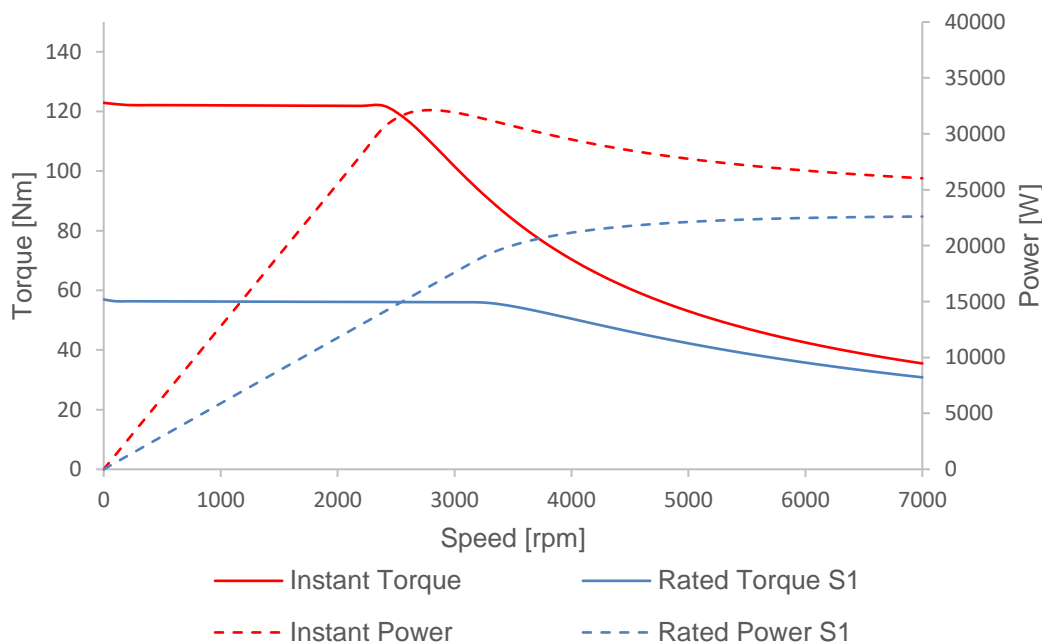
Description	Symbol	Unit	
Duty	-	-	S1
Nominal Speed	n_n	rpm	3500
Frequency (N° poles)	$f (2p)$	Hz	233.3 (8)
Costant Voltage	K_e	Vrms/Krpm	97.0
Instant Torque	T_i	Nm	122.0
Instant Current	i_i	Arms	100.0
Rated Torque S1	T_r	Nm	56.0
Rated Current S1	I_r	Arms	42.0

Short Circuit Current	I_{SC}	Arms	38.0
Rotor Inertia	J_r	kg x m ²	0.016
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

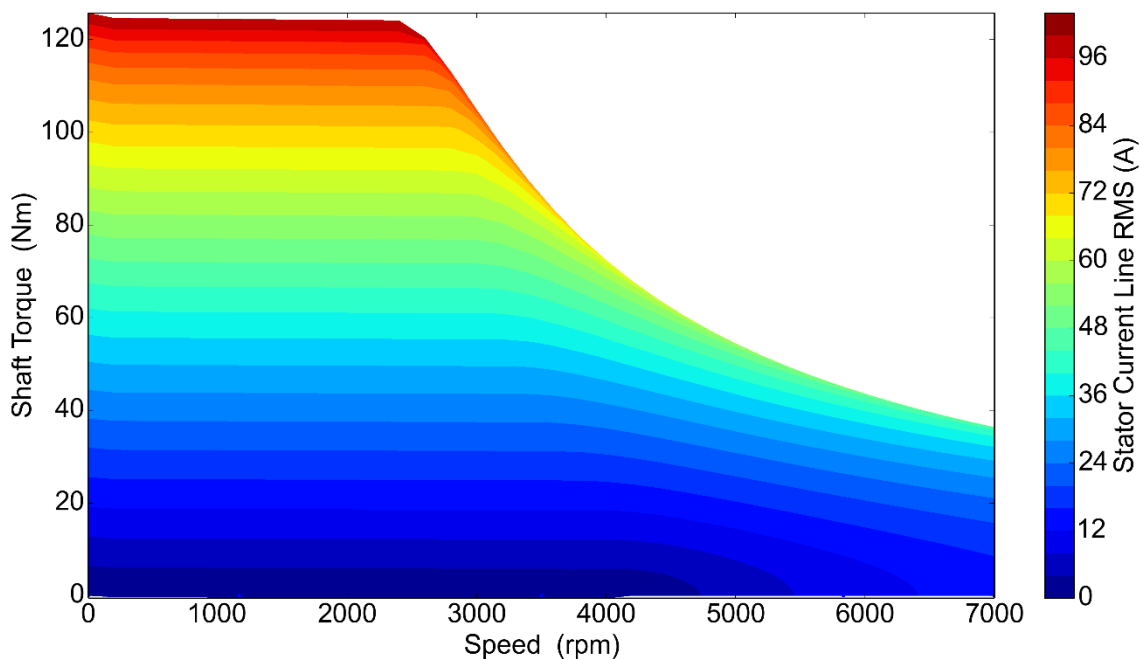
Cooling system			Liquid
----------------	--	--	--------

Speed-Torque & Speed Power Motor Curves (*)

SMAC 200-105



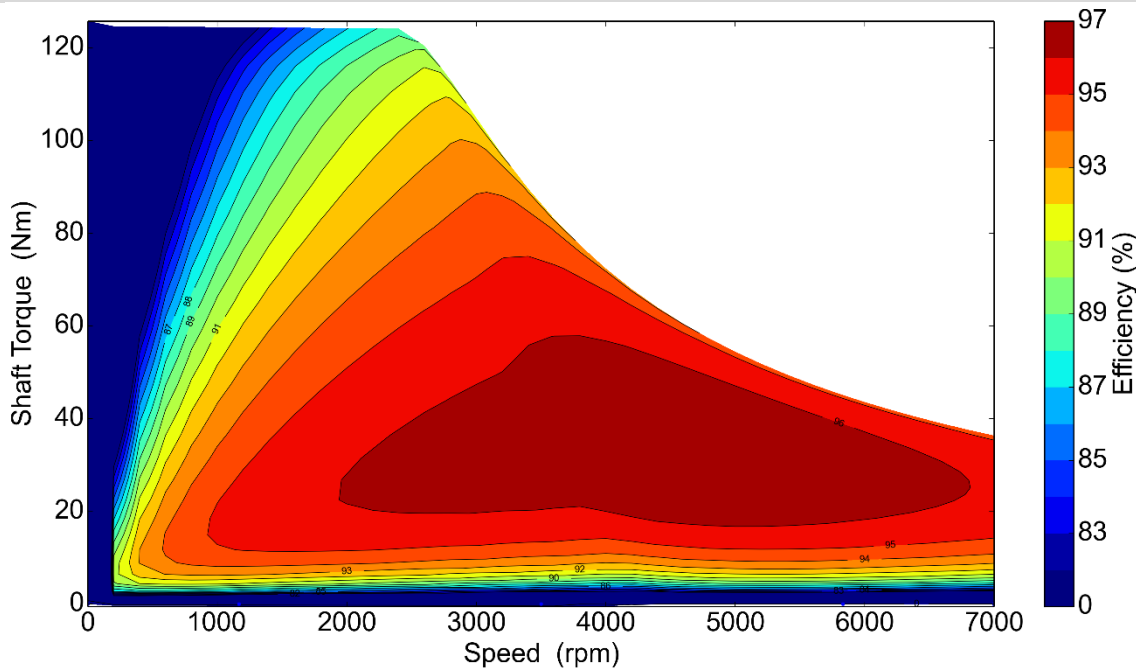
Current Map [Arms]



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

Simulation Only

Efficiency Map % (*)



PRELIMINARY - Simulated Data