

Motor Rated Power			13000W	
--------------------------	--	--	---------------	--

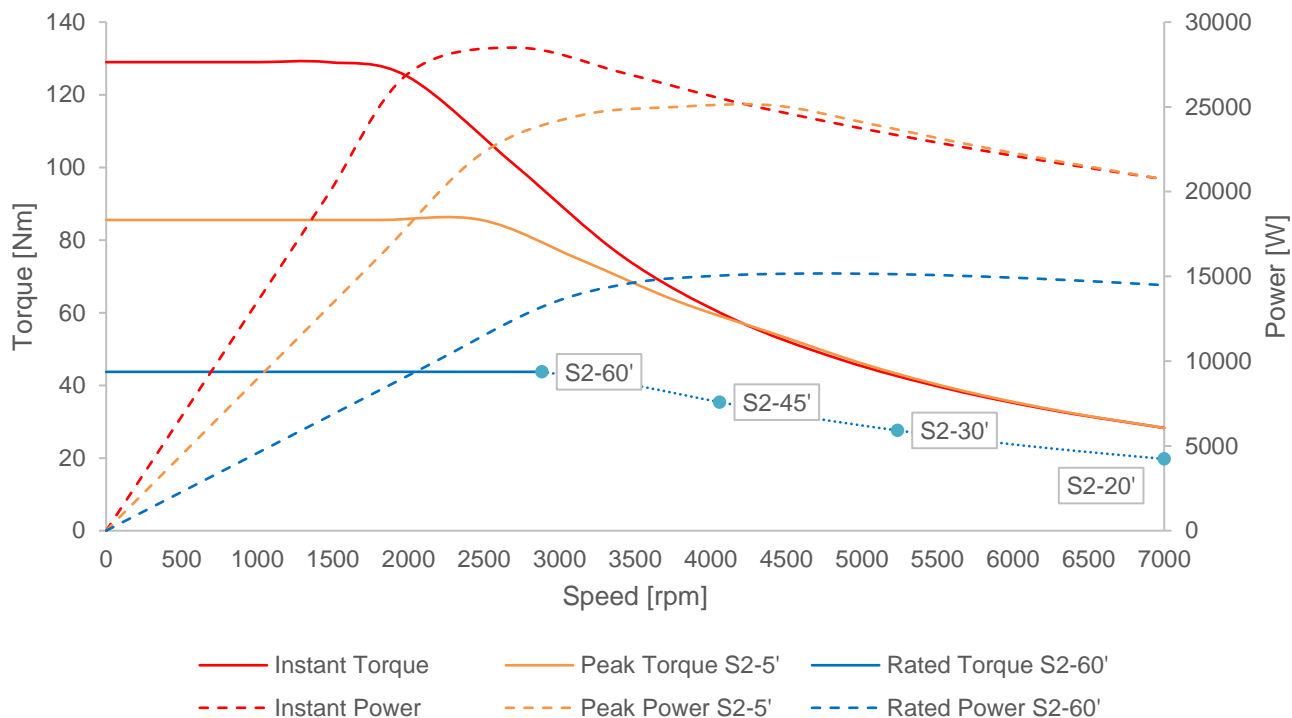
Inverter Power Supply			48Vdc	
------------------------------	--	--	--------------	--

Description	Symbol	Unit		
<i>Duty</i>	-	-	S2-60min	
<i>Nominal Speed</i>	n_n	rpm	3000	
<i>Frequency (N° poles)</i>	$f (2p)$	Hz	150.0 (6)	
<i>Costant Voltage</i>	K_e	Vrms/Krpm	7.5	
<i>Instant Torque</i>	T_i	Nm	130.0	
<i>Instant Current</i>	I_i	Arms	900.0	
<i>Peak Torque S2-5min.</i>	T_p	Nm	85.0	
<i>Peak Current S2-5min.</i>	I_p	Arms	560.0	
<i>Rated Torque S2-60min.</i>	T_r	Nm	44.0	
<i>Rated Current S2-60min.</i>	I_r	Arms	280.0	
<i>Rotor Inertia</i>	J_r	kg x m ²	0.04	
<i>Ambient Temperature</i>	θ_a	°C	-15 ÷ +40	
<i>Protection Degree</i>	IP		IP 54	up to IP67
<i>Insulation Class</i>	-	-	F	
<i>Thermal protection</i>	-	-	PTY 84-130	
<i>Cooling system</i>			Air	

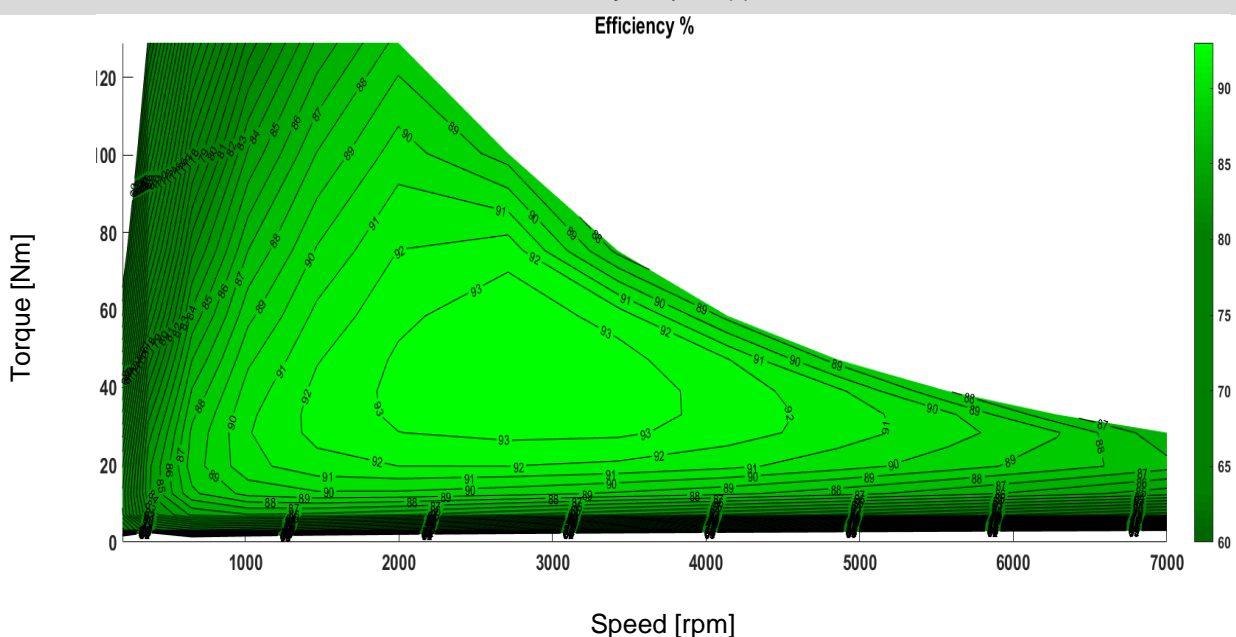
PRELIMINARY
Simulated Data

Speed-Torque & Speed Power Motor Curves (*)

SMAC 270-050



Efficiency Map % (*)



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

Simulated Data