

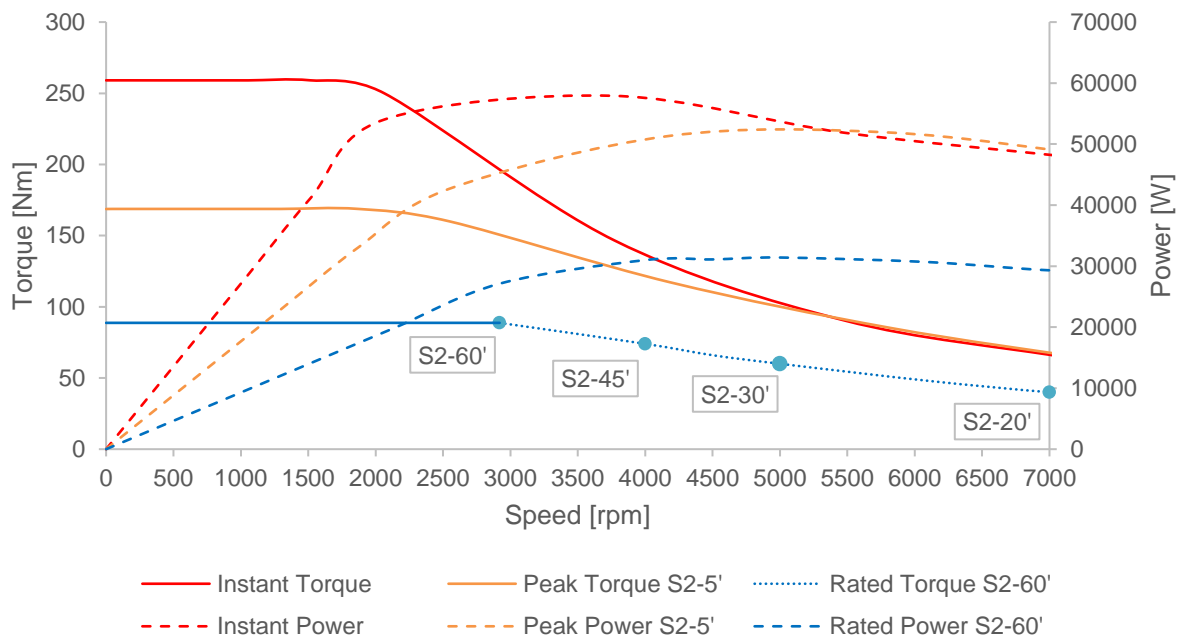
Motor Rated Power			27000W	
--------------------------	--	--	---------------	--

Inverter Power Supply			96Vdc	
------------------------------	--	--	--------------	--

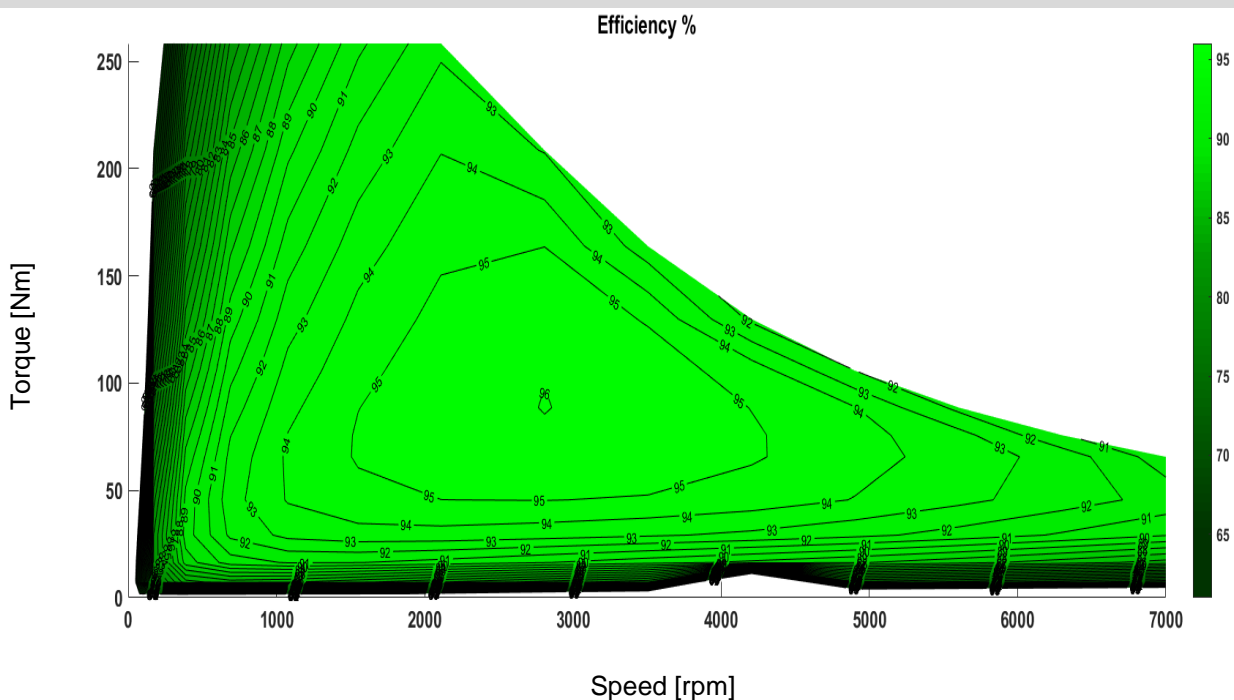
Description	Symbol	Unit		
Duty	-	-	S2-60min	
Nominal Speed	n_n	rpm	3000	
Frequency (N° poles)	$f (2p)$	Hz	150.0 (6)	
Constant Voltage	K_e	Vrms/Krpm	15.0	
Instant Torque	T_i	Nm	260.0	
Instant Current	I_i	Arms	900.0	
Peak Torque S2-5min.	T_p	Nm	170.0	
Peak Current S2-5min.	I_p	Arms	560.0	
Rated Torque S2-60min.	T_r	Nm	90.0	
Rated Current S2-60min.	I_r	Arms	280.0	
Rotor Inertia	J_r	kg x m ²	0.07	
Ambient Temperature	θ_a	°C	-15 ÷ +40	
Protection Degree	IP		IP 54	up to IP67
Insulation Class	-	-	F	
Thermal protection	-	-	PTY 84-130	
Cooling system			Air	

Speed-Torque & Speed Power Motor Curves (*)

SMAC 270-100



Efficiency Map % (*)



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

Simulated Data