 ELECTRIC POWERTRAIN SOLUTIONS	SMAC SERIE			Code	51J20021019HT080400	
	TECHNICAL DATA SHEET			Rev.	02	
				3-PHASE SYNCHRONOUS MOTOR		
				Page	1	di

Motor Rated Power			20000W	
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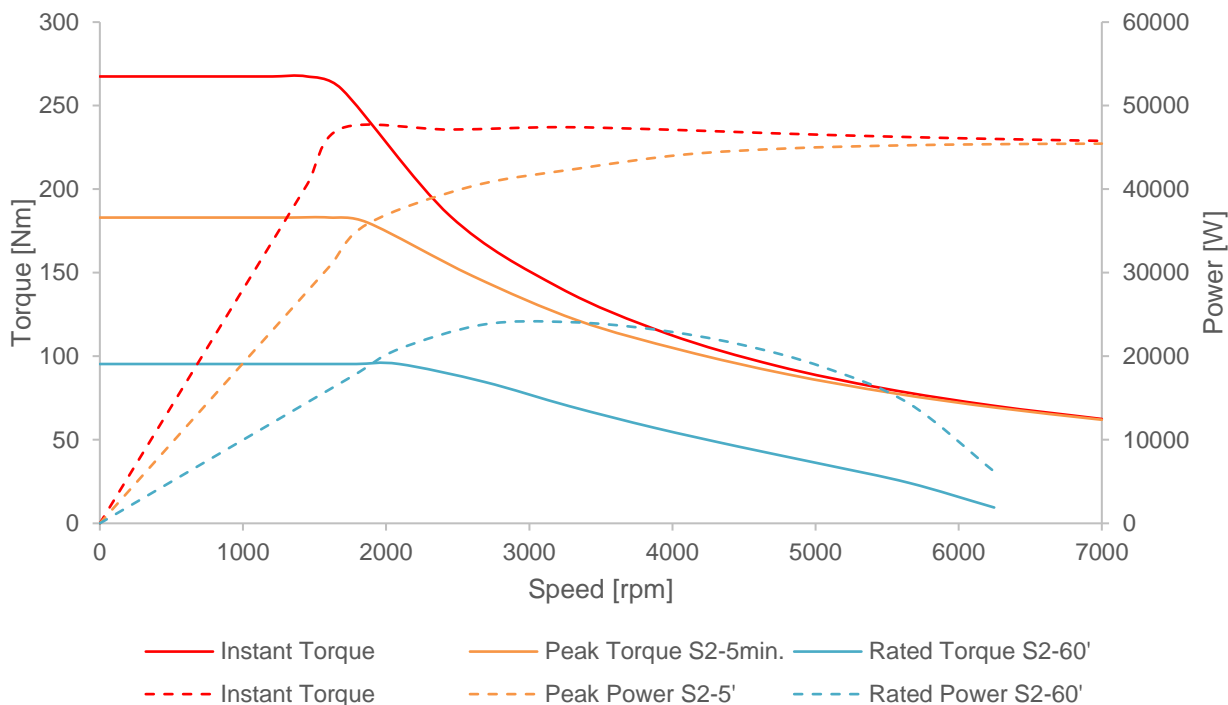
Inverter Power Supply			96Vdc	
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Description	Symbol	Unit		
Duty	-	-	S2-60min	
Nominal Speed	n_n	rpm	2000	
Frequency (N° poles)	$f (2p)$	Hz	133.3 (8)	
Costant Voltage	K_e	Vrms/Krpm	28.0	
Costant Torque	K_t	Nm/Arms	0.46	
Instant Torque	T_i	Nm	265.0	
Instant Current	I_i	Arms	730.0	
Peak Torque S2-5min	T_p	Nm	180.0	
Peak Current S2-5min	I_p	Arms	420.0	
Rated Torque S2-60min	T_r	Nm	95.0	
Rated Current S2-60min	I_r	Arms	210.0	
Rotor Inertia	J_r	kg x m ²	0.036	
Ambient Temperature	θ_a	°C	-15 ÷ +40	
Protection Degree	IP		IP54	
Insulation Class	-	-	F	
Thermal protection	-	-	PTY 84-130	
Cooling system			Air	

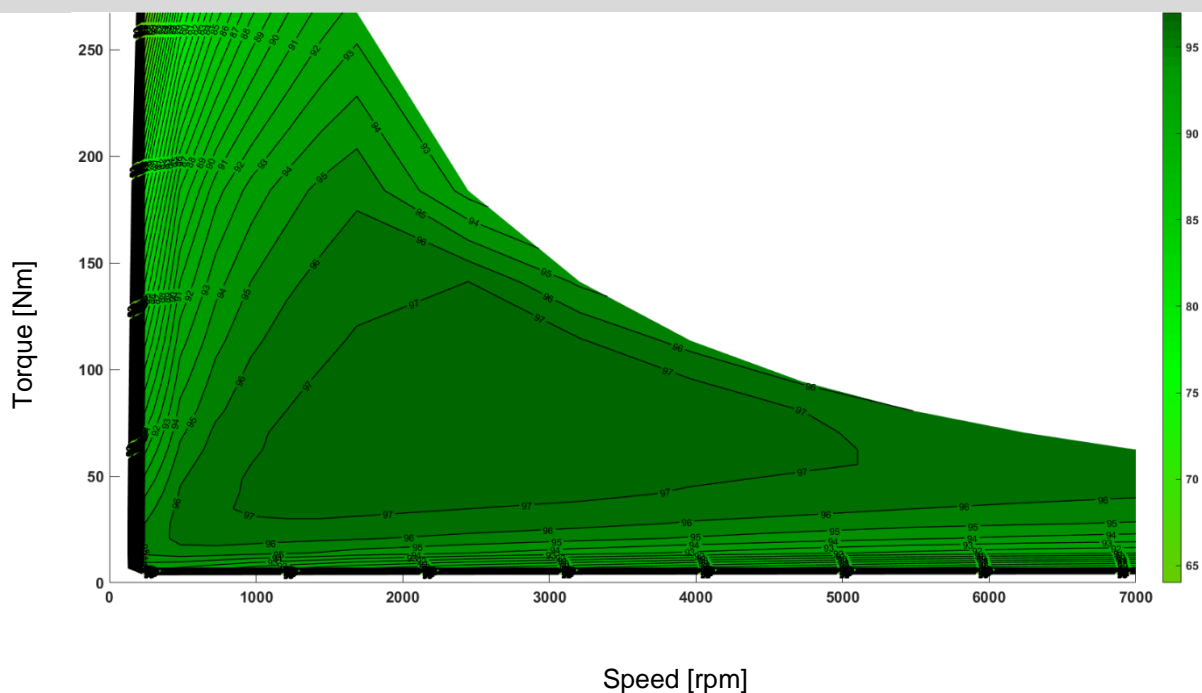
PRELIMINARY

Speed-Torque & Speed Power Motor Curves (*)

SMAC 200-210



Efficiency Map % (*)



* MTPA – MTPV Field Weakening strategy control & Optimized Advance Angle