 <small>ELECTRIC POWERTRAIN SOLUTIONS</small>	SMAC SERIE		Code	51J20005268PS0802P0	
	TECHNICAL DATA SHEET		Rev.	00	
			Date	04/05/2021	
	3-PHASE SYNCHRONOUS MOTOR		Page	1	di

Motor Rated Power			8000W	
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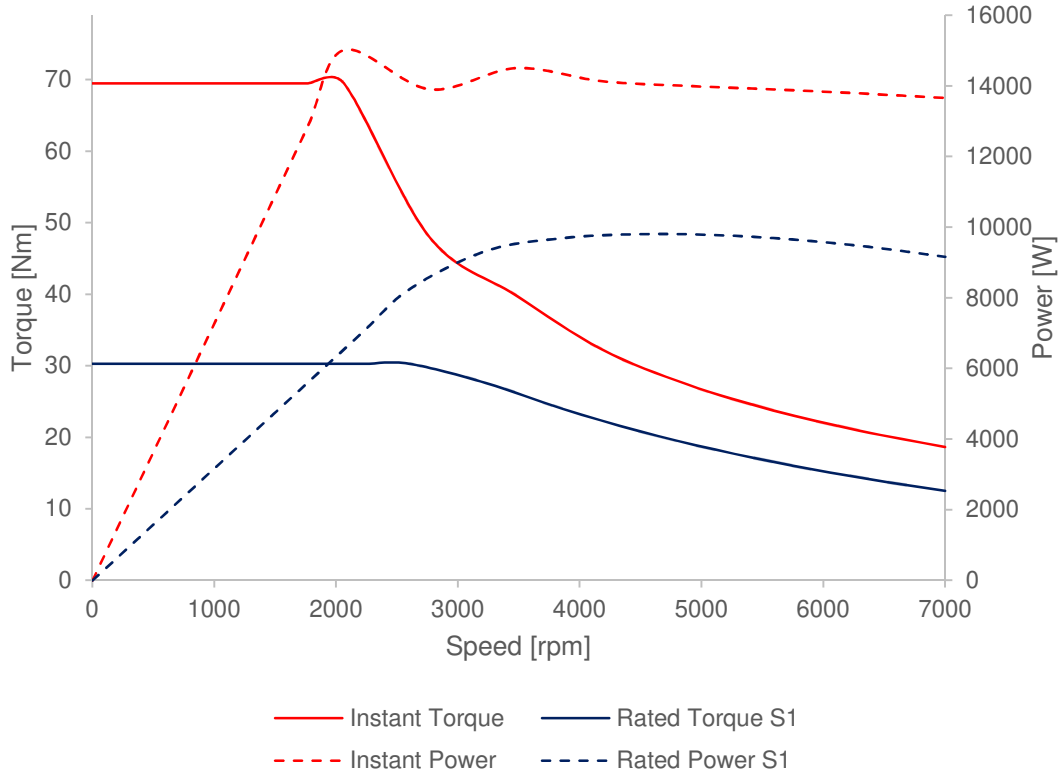
Inverter Power Supply			400Vdc	
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Description	Symbol	Unit		
<i>Duty</i>	-	-	S1	
<i>Nominal Speed</i>	n_n	<i>rpm</i>	2500	
<i>Frequency (N° poles)</i>	$f (2p)$	<i>Hz</i>	166.6 (8)	
<i>Costant Voltage</i>	K_e	<i>Vrms/Krpm</i>	85.0	
<i>Costant Torque</i>	K_t	<i>Nm/Arms</i>	1.4	
<i>Instant Torque</i>	T_i	<i>Nm</i>	70.0	
<i>Instant Current</i>	I_i	<i>Arms</i>	62.0	
<i>Rated Torque S1.</i>	T_r	<i>Nm</i>	30.0	
<i>Rated Current S1.</i>	I_r	<i>Arms</i>	23.0	
<i>Rotor Inertia</i>	J_r	<i>kg x m²</i>	0.009	
<i>Ambient Temperature</i>	θ_a	<i>°C</i>	-15 ÷ +40	
<i>Protection Degree</i>	IP		IP67	
<i>Insulation Class</i>	-	-	F	
<i>Thermal protection</i>	-	-	PTY 84-130	
<i>Cooling system</i>			Liquid	

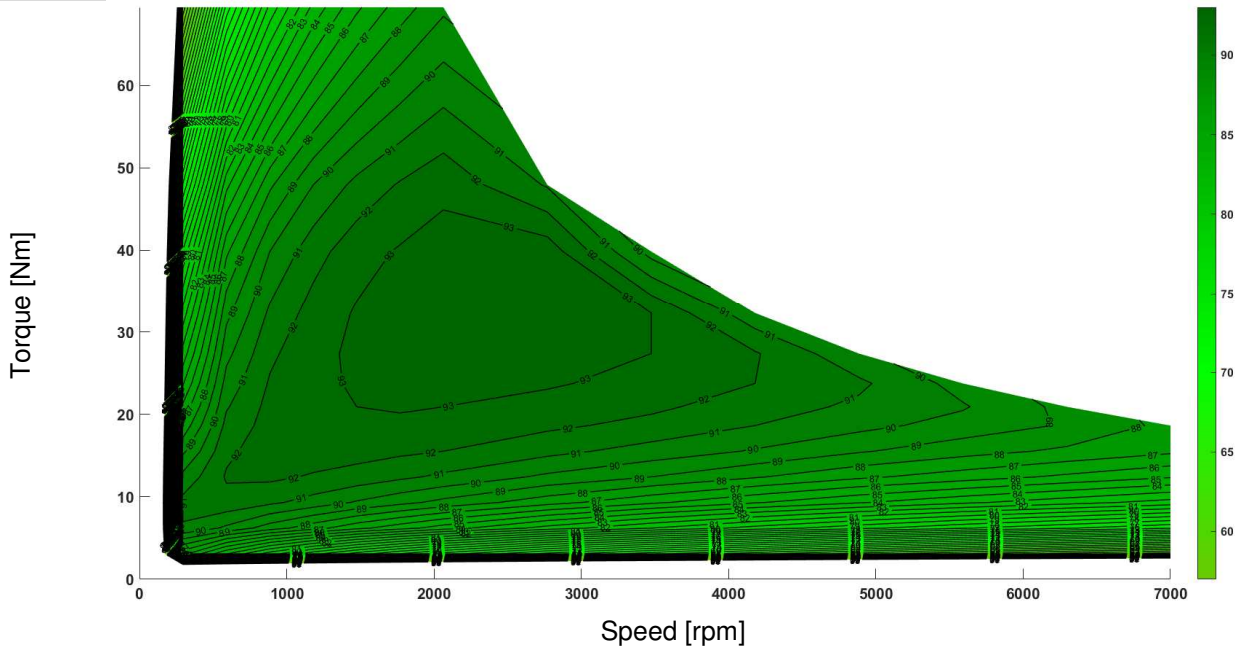
PRELIMINARY

Speed-Torque & Speed Power Motor Curves (*)

SMAC 200-052



Efficiency Map % (*)



* MTPA Field Weakening strategy control & Optimized Advance Angle