 ELECTRIC POWERTRAIN SOLUTIONS	SMAC SERIE		Code	51J20021028PT0802P0	
	TECHNICAL DATA SHEET		Rev.	00	
			3-PHASE SYNCHRONOUS MOTOR		Date
			Page	1	di

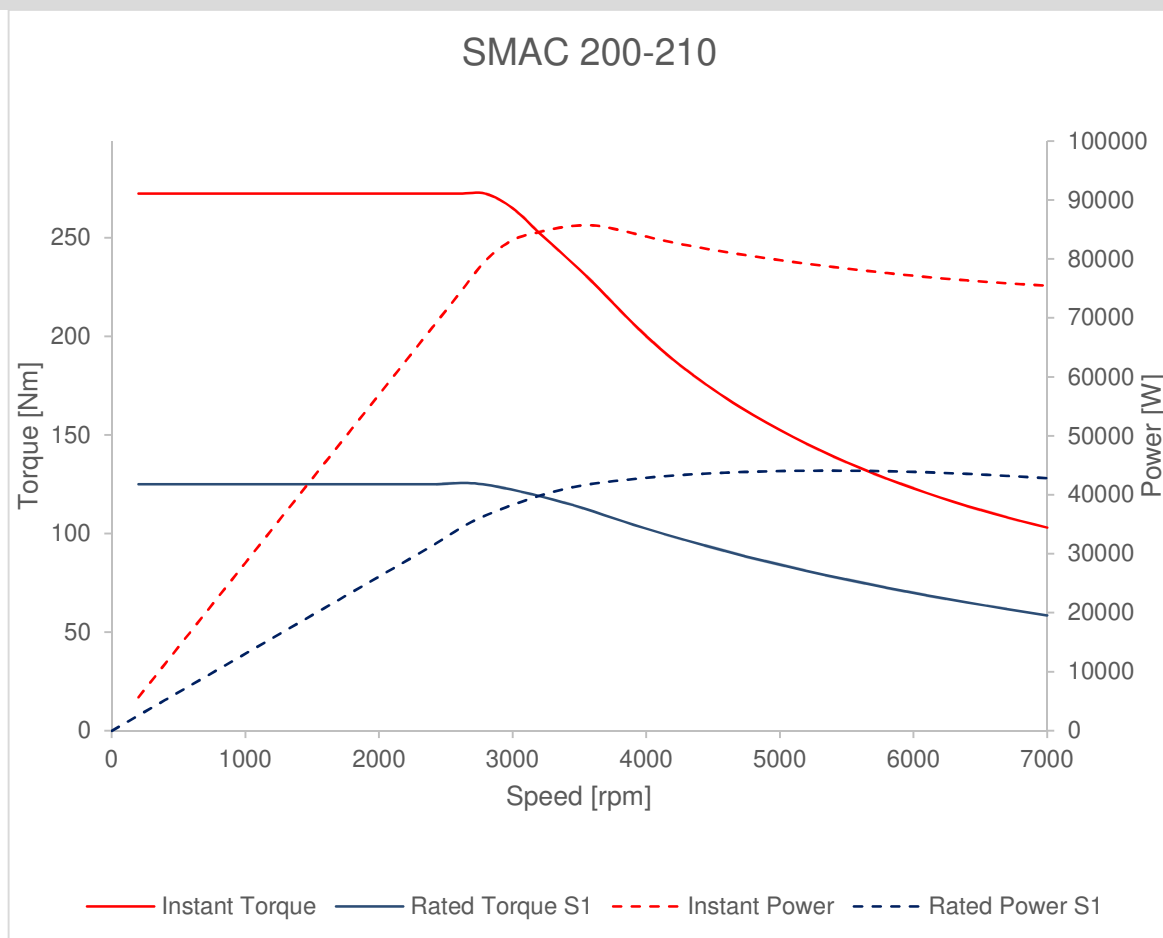
Motor Rated Power		30000W	
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Inverter Power Supply		400Vdc	
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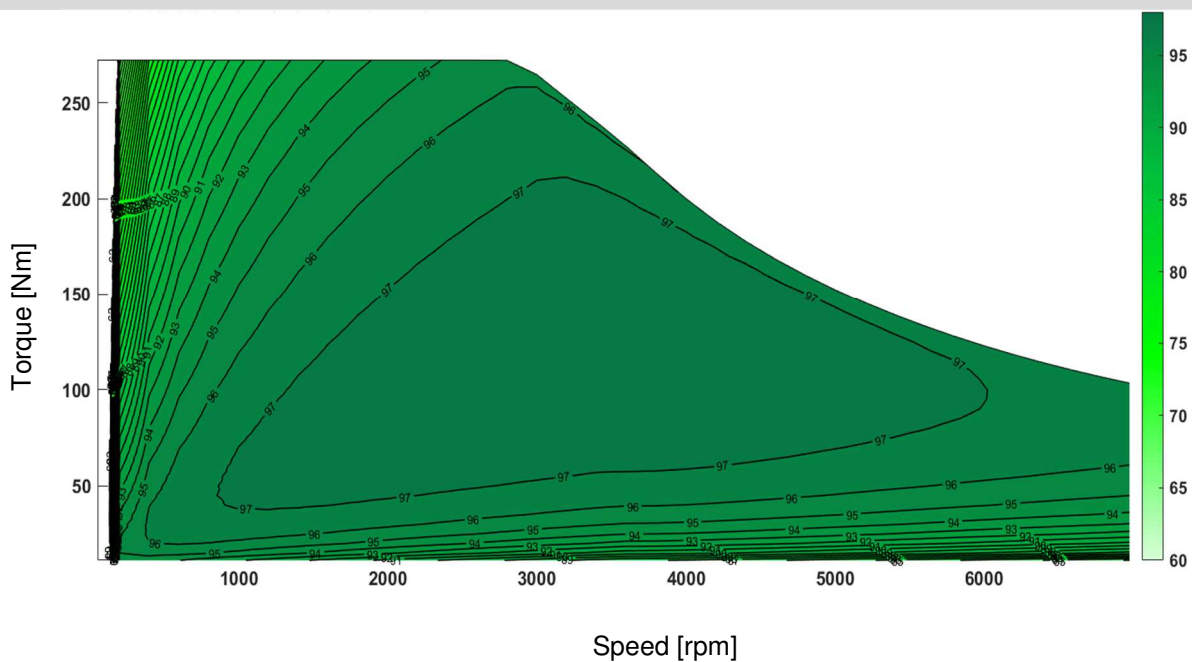
Description	Symbol	Unit		
<i>Duty</i>	-	-	S1	
<i>Nominal Speed</i>	n_n	<i>rpm</i>	2500	
<i>Frequency (N° poles)</i>	$f (2p)$	<i>Hz</i>	166.6 (8)	
<i>Costant Voltage</i>	K_e	<i>Vrms/Krpm</i>	75.0	
<i>Costant Torque</i>	K_t	<i>Nm/Arms</i>	1.20	
<i>Instant Torque</i>	T_i	<i>Nm</i>	270.0	
<i>Instant Current</i>	I_i	<i>Arms</i>	260.0	
<i>Rated Torque</i> S1.	T_r	<i>Nm</i>	125.0	
<i>Rated Current</i> S1	I_r	<i>Arms</i>	95.0	
<i>Rotor Inertia</i>	J_r	<i>kg x m²</i>	0.030	
<i>Ambient Temperature</i>	θ_a	<i>°C</i>	-15 ÷ +40	
<i>Protection Degree</i>	<i>IP</i>		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 (*)



Efficiency Map % (*)



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