 ELECTRIC POWERTRAIN SOLUTIONS	<b>SMAC SERIE</b>			Code	51J20007048PS0802P0		
	<b>TECHNICAL DATA SHEET</b>			Rev.	00		
				<b>3-PHASE SYNCHRONOUS MOTOR</b>			Date
				Page	1	di	2

<b>Motor Rated Power</b>			<b>10000W</b>	
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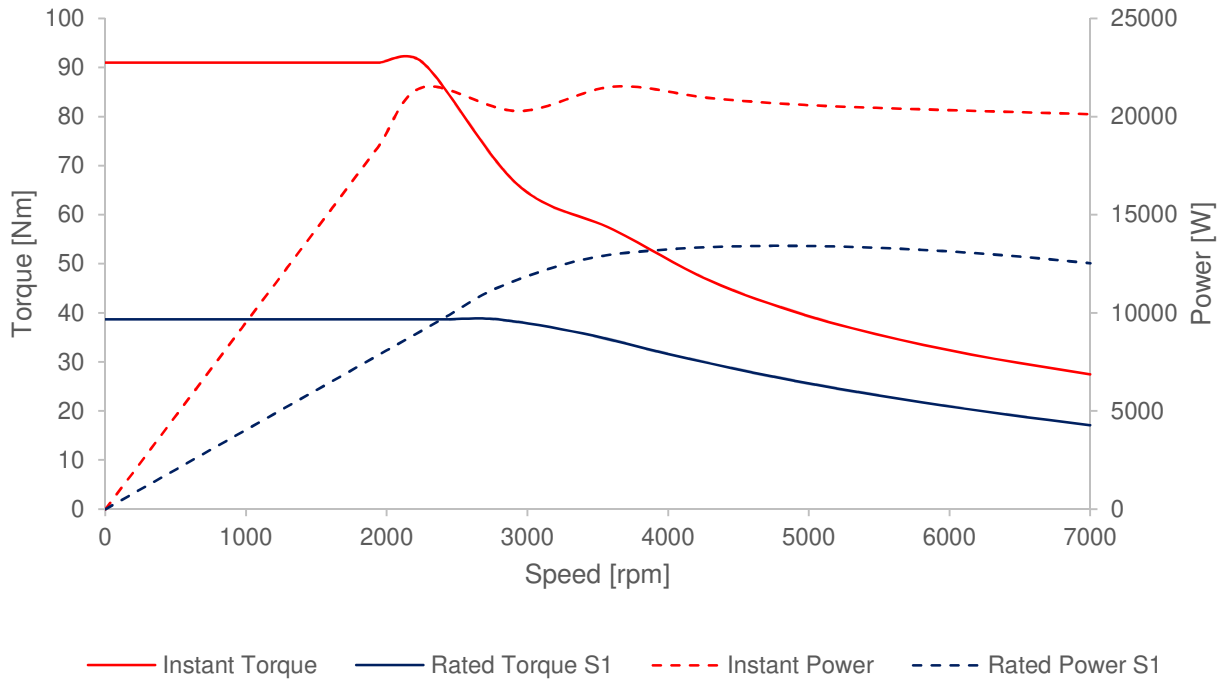
<b>Inverter Power Supply</b>			<b>400Vdc</b>	
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<b>Description</b>	<b>Symbol</b>	<b>Unit</b>		
Duty	-	-	S1	
Nominal Speed	$n_n$	rpm	2500	
Frequency (N° poles)	$f (2p)$	Hz	133.3 (8)	
Costant Voltage	$K_e$	Vrms/Krpm	80.0	
Costant Torque	$K_t$	Nm/Arms	1.3	
Instant Torque	$T_i$	Nm	90.0	
Instant Current	$I_i$	Arms	84.0	
Rated Torque S1.	$T_r$	Nm	38.0	
Rated Current S1.	$I_r$	Arms	30.0	
Rotor Inertia	$J_r$	kg x m <sup>2</sup>	0.012	
Ambient Temperature	$\theta_a$	°C	-15 ÷ +40	
Protection Degree	IP		IP67	
Insulation Class	-	-	F	
Thermal protection	-	-	PTY 84-130	
Cooling system			Liquid	

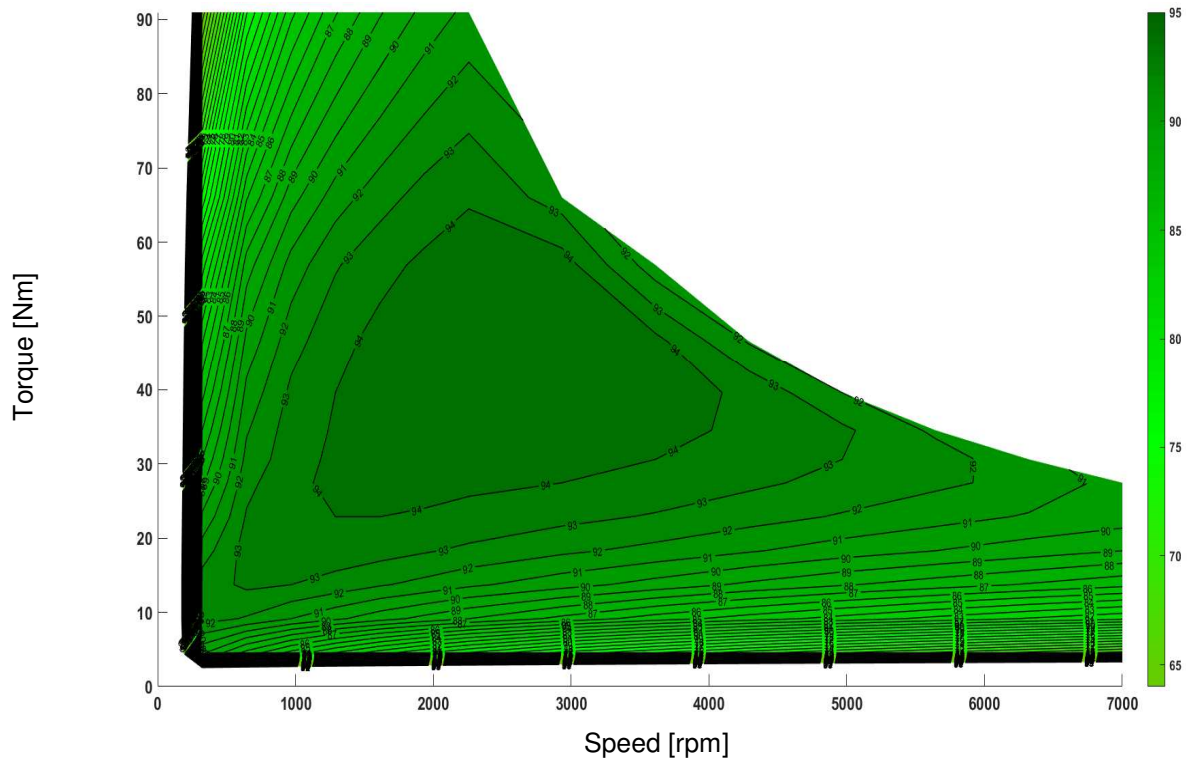
**PRELIMINARY**

Speed-Torque & Speed Power Motor Curves (\*)

SMAC 200-070



Efficiency Map % (\*)



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