



ELECTRIC POWERTRAIN SOLUTIONS

SMAC SERIE
TECHNICAL DATA SHEET
3-PHASE SYNCHRONOUS MOTOR

Code	51J20007048PS080200		
Rev.	00		
Date	03/05/2021		
Page	1	di	2

Motor Rated Power			8000W	
--------------------------	--	--	--------------	--

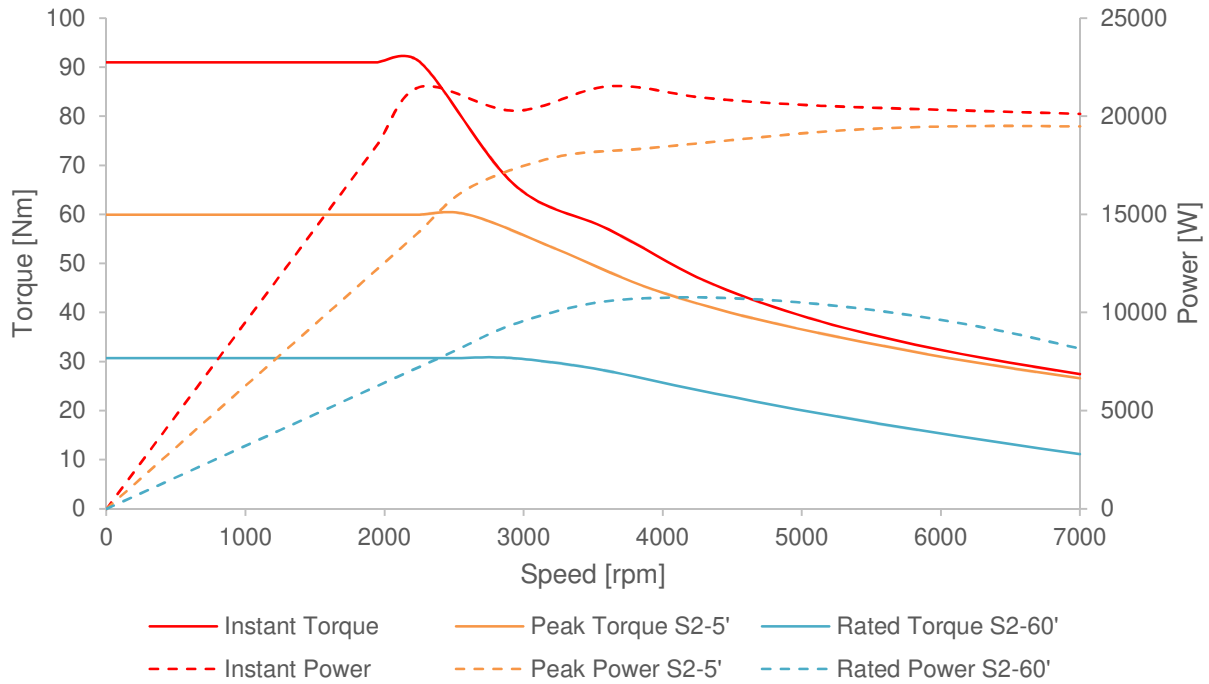
Inverter Power Supply			400Vdc	
------------------------------	--	--	---------------	--

Description	Symbol	Unit		
Duty	-	-	S2-60min	
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	
Peak Torque S2-5min.	T_p	Nm	60.0	
Peak Current S2-5min.	I_p	Arms	48.0	
Rated Torque S2-60min.	T_r	Nm	30.0	
Rated Current S2-60min.	I_r	Arms	24.0	
Rotor Inertia	J_r	kg x m ²	0.012	
Ambient Temperature	θ_a	°C	-15 ÷ +40	
Protection Degree	IP		IP67	
Insulation Class	-	-	F	
Thermal protection	-	-	PTY 84-130	
Cooling system			Air	

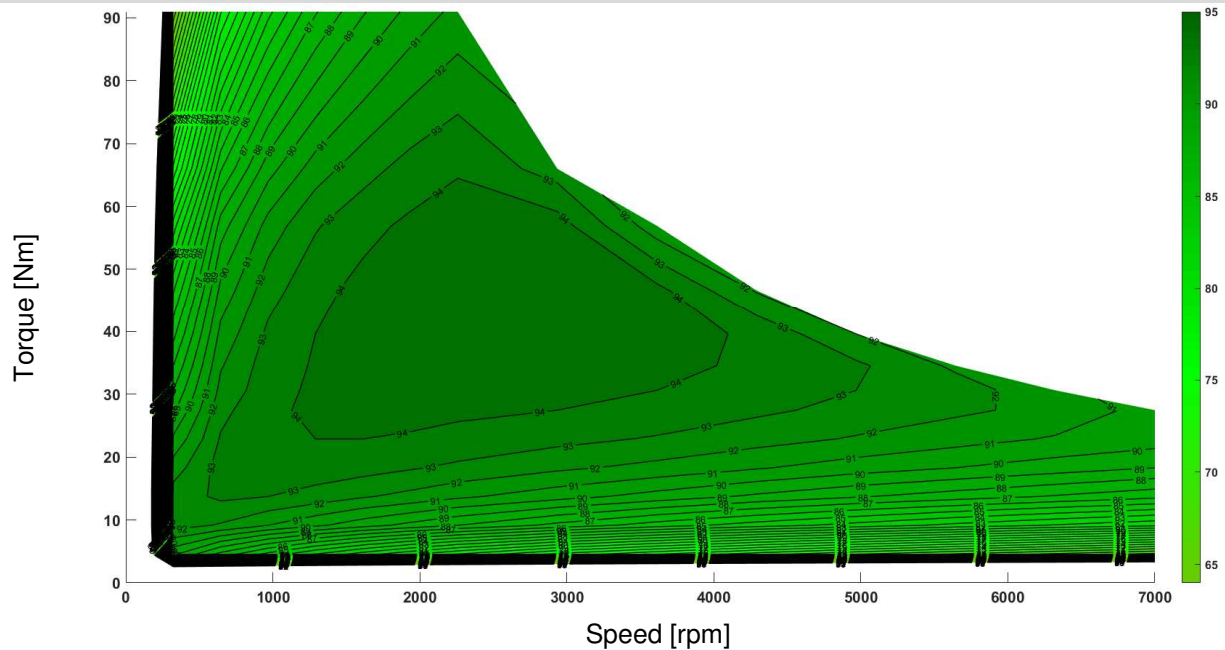
PRELIMINARY

Speed-Torque & Speed Power Motor Curves (*)

SMAC 200-070



Efficiency Map % (*)



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