



ELECTRIC POWERTRAIN SOLUTIONS

SMAC SERIE

TECHNICAL DATA SHEET
3-PHASE SYNCHRONOUS MOTOR

Code	51J20005268PS080200		
Rev.	00		
Date	04/05/2021		
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Motor Rated Power			6300W	
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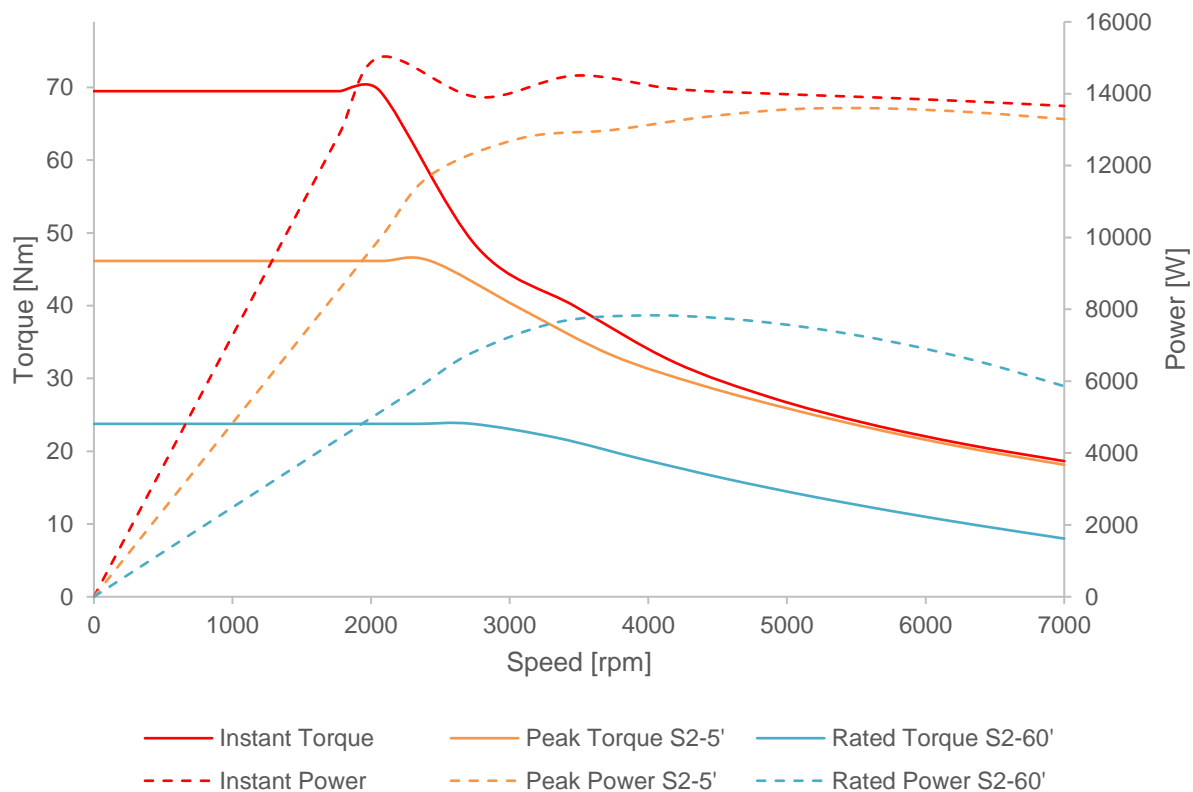
Inverter Power Supply			400Vdc	
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Description	Symbol	Unit		
Duty	-	-	S2-60min	
Nominal Speed	n_n	rpm	2500	
Frequency (N° poles)	$f (2p)$	Hz	166.6 (8)	
Costant Voltage	K_e	Vrms/Krpm	85.0	
Costant Torque	K_t	Nm/Arms	1.4	
Instant Torque	T_i	Nm	70.0	
Instant Current	I_i	Arms	62.0	
Peak Torque S2-5min	T_p	Nm	46.0	
Peak Current S2-5min	I_p	Arms	36.0	
Rated Torque S2-60min	T_r	Nm	24.0	
Rated Current S2-60min	I_r	Arms	18.0	
Rotor Inertia	J_r	kg x m ²	0.009	
Ambient Temperature	θ_a	°C	-15 ÷ +40	
Protection Degree	IP		IP54	up to IP67
Insulation Class	-	-	F	
Thermal protection	-	-	PTY 84-130	
Cooling system			Air	

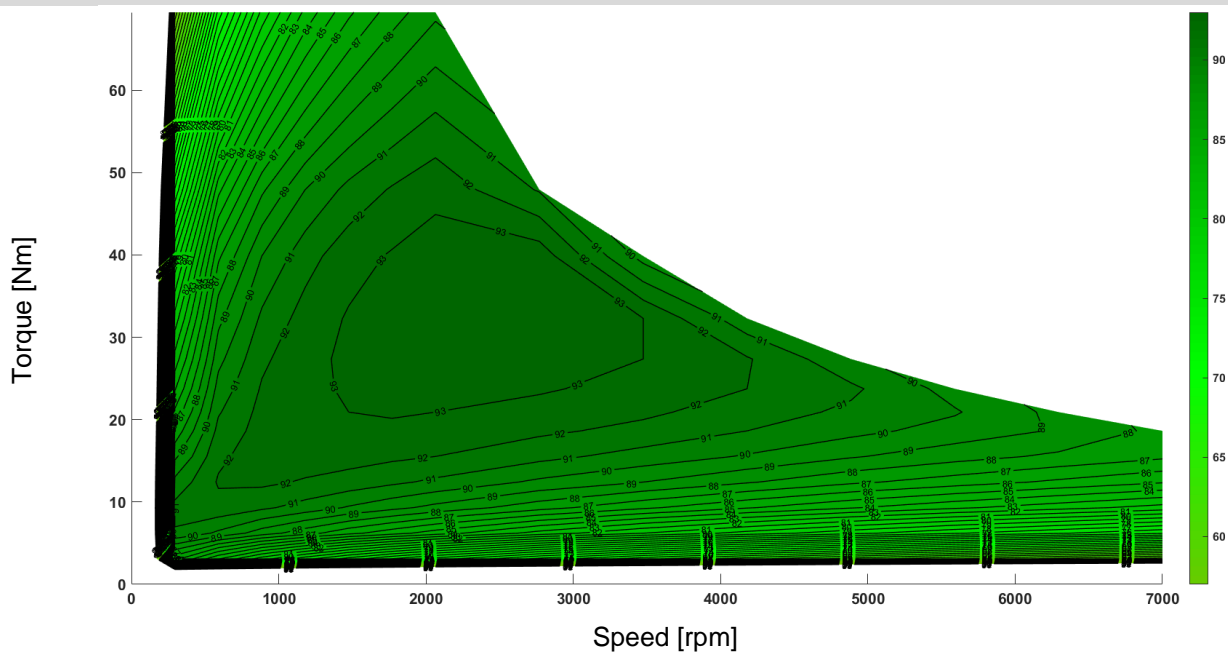
PRELIMINARY

Speed-Torque & Speed Power Motor Curves (*)

SMAC 200-052



Efficiency Map % (*)



* MTPA Field Weakening strategy control & Optimized Advance Angle