



ELECTRIC POWERTRAIN SOLUTIONS

SMAC SERIE
TECHNICAL DATA SHEET
3-PHASE SYNCHRONOUS MOTOR

Code	51J13205048ET080400		
Rev.	00		
Date	25/03/2021		
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Motor Rated Power			2200W
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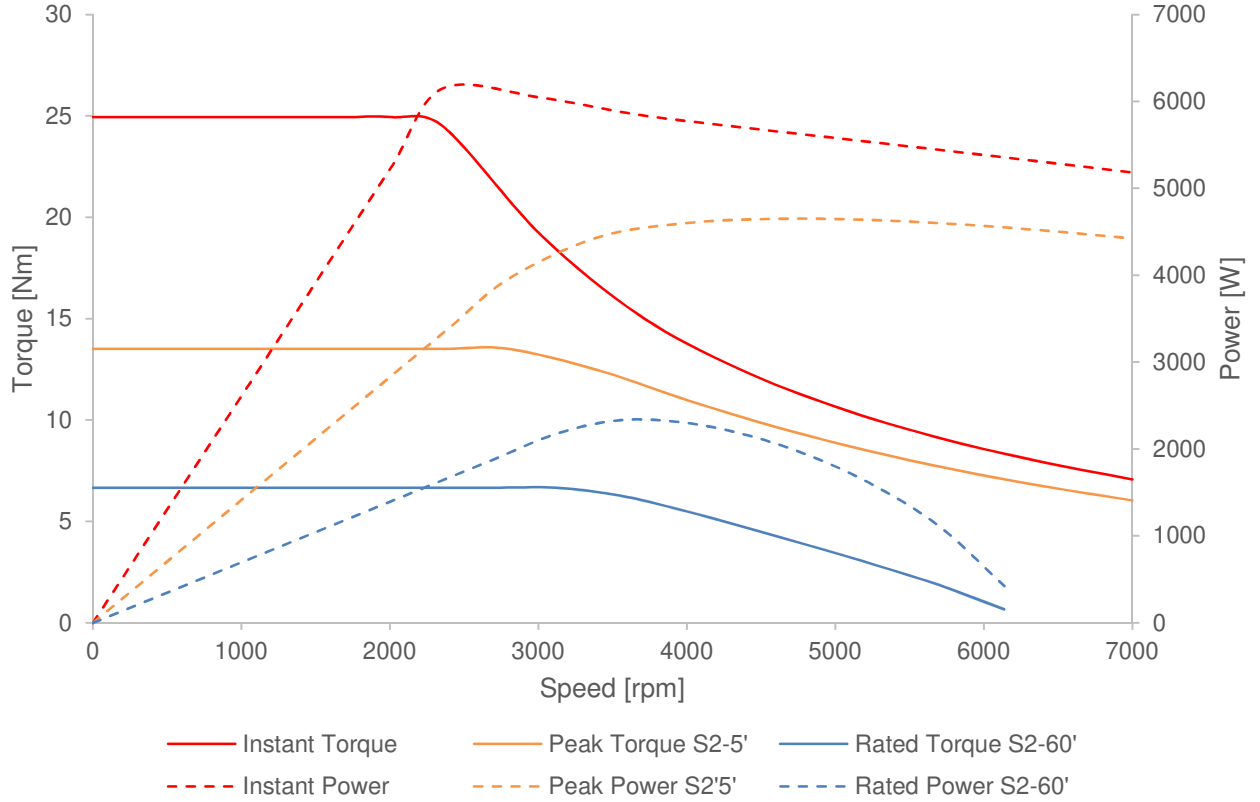
Inverter Power Supply			48Vdc
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Description	Symbol	Unit		
Duty	-	-	S2-60min	
Nominal Speed	n_n	rpm	3000	
Frequency (N° poles)	$f (2p)$	Hz	200.0 (8)	
Costant Voltage	K_e	Vrms/Krpm	9.4	
Costant Torque	K_t	Nm/Arms	0.15	
Instant Torque	T_i	Nm	25.5	
Instant Current	I_i	Arms	200.0	
Peak Torque S2-5min.	T_p	Nm	14.0	
Peak Current S2-5min.	I_p	Arms	93.0	
Rated Torque S2-60min.	T_r	Nm	7.0	
Rated Current S2-60min.	I_r	Arms	47.0	
Rotor Inertia	J_r	kg x m ²	0.007	
Ambient Temperature	θ_a	°C	-15 ÷ +40	
Protection Degree	IP		IP 54	up to IP67
Insulation Class	-	-	F	
Thermal protection	-	-	KTY 84-130	
Cooling system			Air	

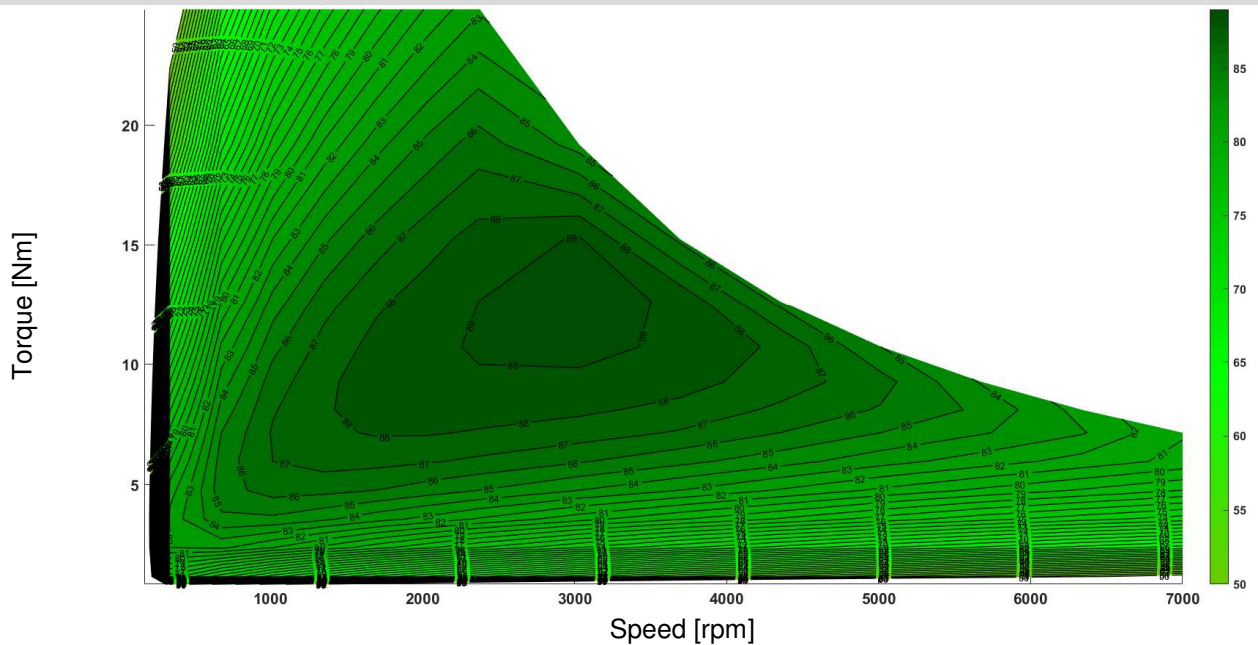
PRELIMINARY

Speed-Torque & Speed Power Motor Curves (*)

SMAC 132-050



Efficiency Map % (*)



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