



ELECTRIC POWERTRAIN SOLUTIONS

SMAC SERIE

TECHNICAL DATA SHEET
3-PHASE SYNCHRONOUS MOTOR

Code	51J20021019HT0804P0		
Rev.	00		
Date	01/06/2021		
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Motor Rated Power	25000W
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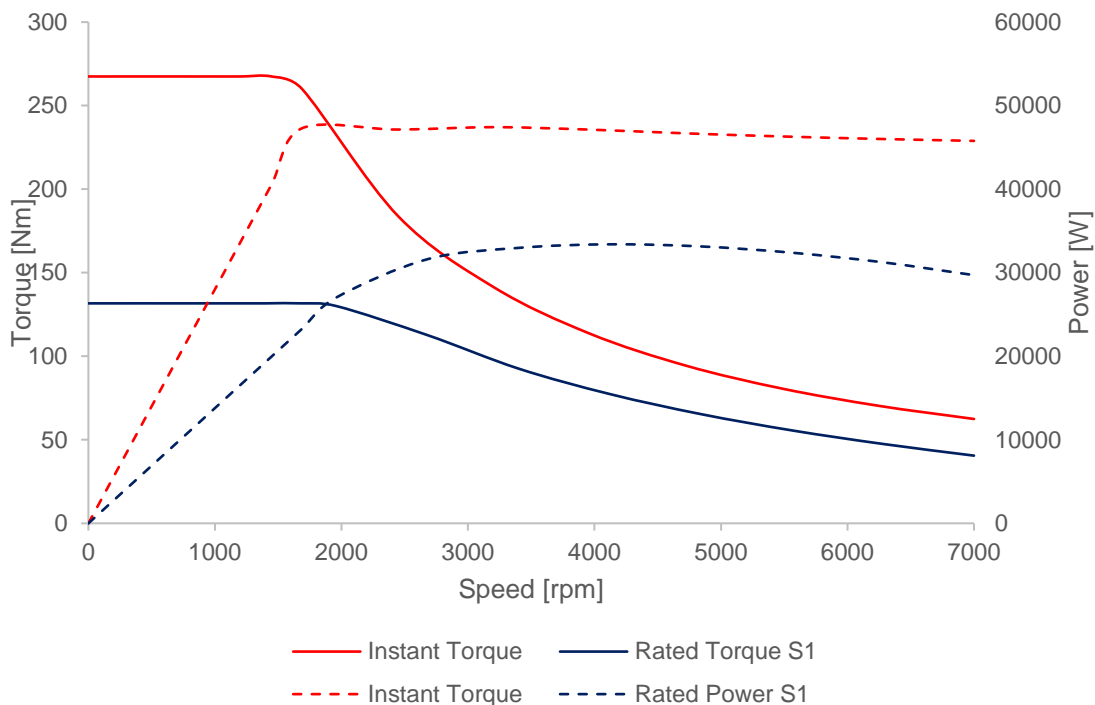
Inverter Power Supply	96Vdc
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Description	Symbol	Unit	
Duty	-	-	S1
Nominal Speed	n_n	rpm	2000
Frequency (N° poles)	$f (2p)$	Hz	133.3 (8)
Costant Voltage	K_e	Vrms/Krpm	28.0
Costant Torque	K_t	Nm/Arms	0.46
Instant Torque	T_i	Nm	265.0
Instant Current	I_i	Arms	730.0
Rated Torque S1	T_r	Nm	130.0
Rated Current S1	I_r	Arms	290.0
Rotor Inertia	J_r	kg x m ²	0.036
Ambient Temperature	θ_a	°C	-15 ÷ +40
Protection Degree	IP		IP67
Insulation Class	-	-	F
Thermal protection	-	-	PTY 84-130
Cooling system			Liquid

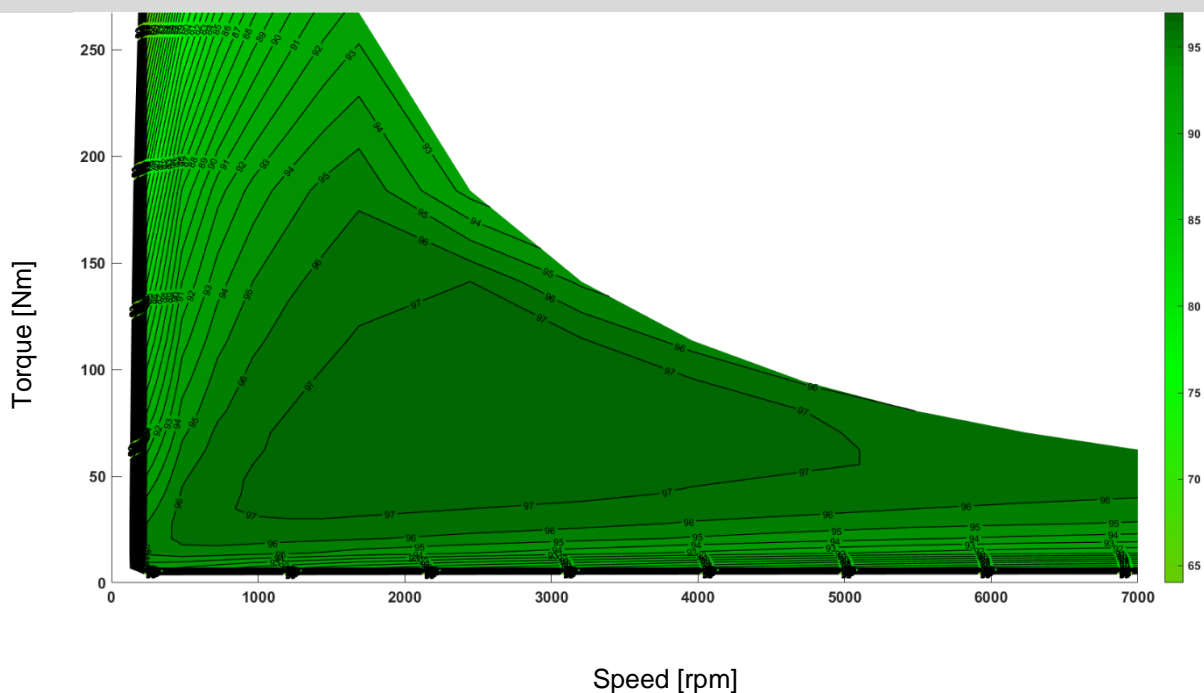
PRELIMINARY

Speed-Torque & Speed Power Motor Curves (*)

SMAC 200-210



Efficiency Map % (*)



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