



ELECTRIC POWERTRAIN SOLUTIONS

**SMAC SERIE**  
**TECHNICAL DATA SHEET**  
**3-PHASE SYNCHRONOUS MOTOR**

Code	51J13205024CT080400		
Rev.	00		
Date	19/03/2021		
Page	1	di	2

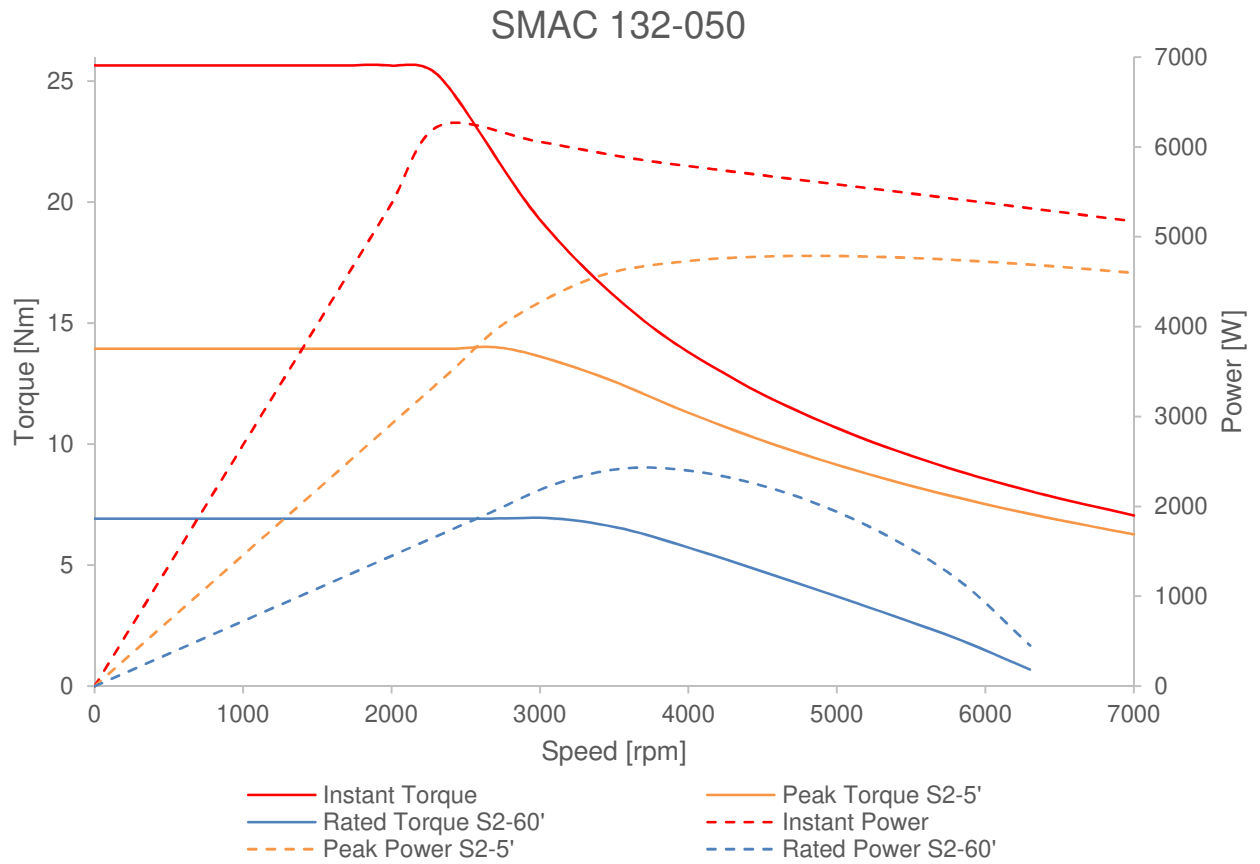
<b>Motor Rated Power</b>			<b>2200W</b>
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<b>Inverter Power Supply</b>			<b>24Vdc</b>
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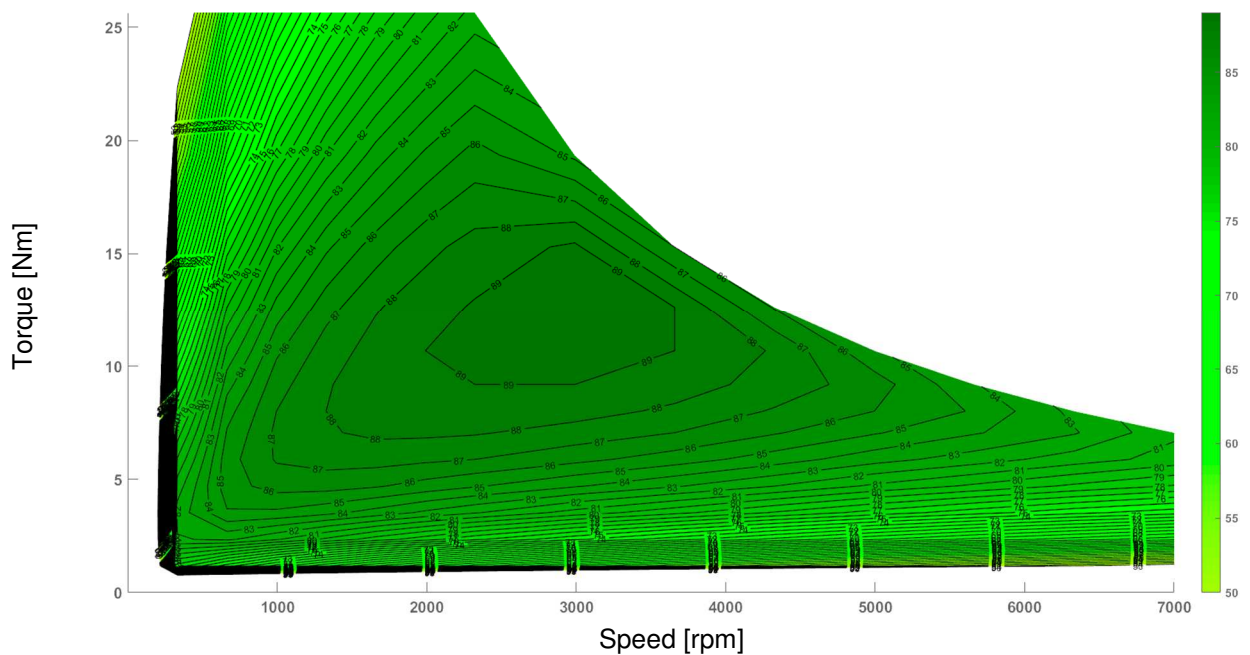
Description	Symbol	Unit		
Duty	-	-	S2-60min	
Nominal Speed	$n_n$	rpm	3000	
Frequency (N° poles)	$f (2p)$	Hz	200.0 (8)	
Costant Voltage	$K_e$	Vrms/Krpm	4.5	
Costant Torque	$K_t$	Nm/Arms	0.07	
Instant Torque	$T_i$	Nm	25.5	
Instant Current	$I_i$	Arms	400.0	
Peak Torque	$T_p$	Nm	14.0	
Peak Current	$I_p$	Arms	190.0	
Rated Torque	$T_r$	Nm	7.0	
Rated Current	$I_r$	Arms	95.0	
Rotor Inertia	$J_r$	kg x m <sup>2</sup>	0.007	
Ambient Temperature	$\theta_a$	°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 (\*)



Efficiency Map % (\*)



\* MTPA Field Weakening strategy control & Optimized Advance Angle