 ELECTRIC POWERTRAIN SOLUTIONS	<b>SMAC SERIE</b>		MDS	51J13202540CT080400	
	<b>MOTOR CURVE</b>		Rev.	02	
			Date	18/01/2023	
	<b>3-PHASE SYNCHRONOUS MOTOR</b>		Page	1	di

<b>Motor Rated Power</b>			<b>1500W</b>	
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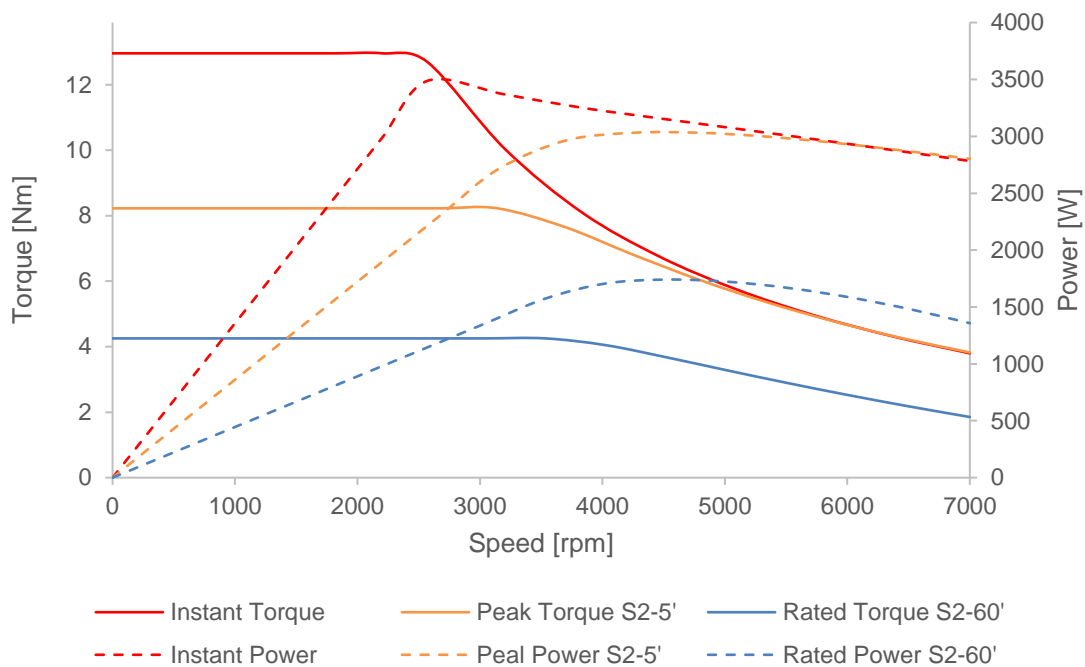
<b>Inverter Power Supply</b>			<b>24Vdc</b>	
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<b>Description</b>	<b>Symbol</b>	<b>Unit</b>		
<i>Duty</i>	-	-	S2-60min	
<i>Nominal Speed</i>	$n_n$	<i>rpm</i>	3000	
<i>Frequency (N° poles)</i>	$f (2p)$	<i>Hz</i>	200.0 (8)	
<i>Costant Voltage</i>	$K_e$	<i>Vrms/Krpm</i>	3.6	
<i>Costant Torque</i>	$K_t$	<i>Nm/Arms</i>	0.066	
<i>Instant Torque</i>	$T_i$	<i>Nm</i>	13.0	
<i>Instant Current</i>	$I_i$	<i>Arms</i>	250.0	
<i>Peak Torque S2-5min</i>	$T_p$	<i>Nm</i>	8.2	
<i>Peak Current S2-5min</i>	$I_p$	<i>Arms</i>	145.0	
<i>Rated Torque S2-60min</i>	$T_r$	<i>Nm</i>	4.3	
<i>Rated Current S2-60min</i>	$I_r$	<i>Arms</i>	73.0	
<i>Rotor Inertia</i>	$J_r$	<i>kg x m<sup>2</sup></i>	0.008	
<i>Ambient Temperature</i>	$\theta_a$	<i>°C</i>	-15 ÷ +40	
<i>Protection Degree</i>	<i>IP</i>		IP 54	up to IP67
<i>Insulation Class</i>	-	-	F	
<i>Thermal protection</i>	-	-	PTY 84-130	
<i>Cooling system</i>			Air	

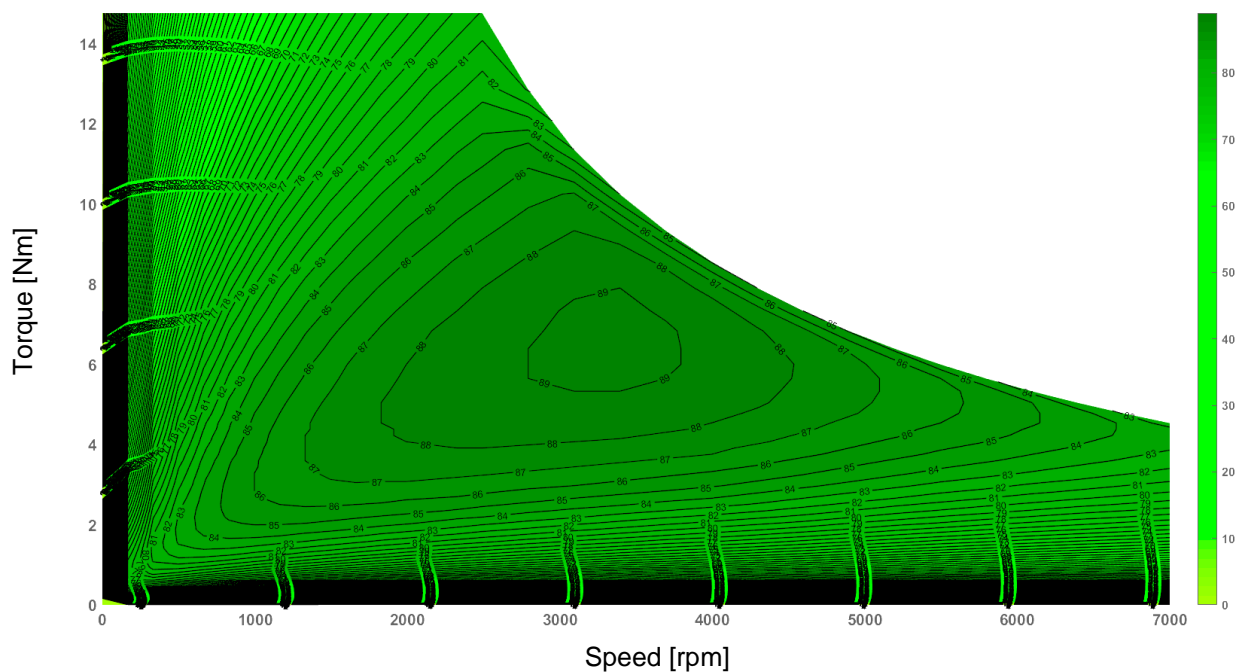
**PRELIMINARY**

Speed-Torque & Speed Power Motor Curves (\*)

SMAC 132-025



Efficiency Map % (\*)



\* MTPA Field Weakening strategy control & Optimized Advance Angle