

Motor Rated Power			5000W
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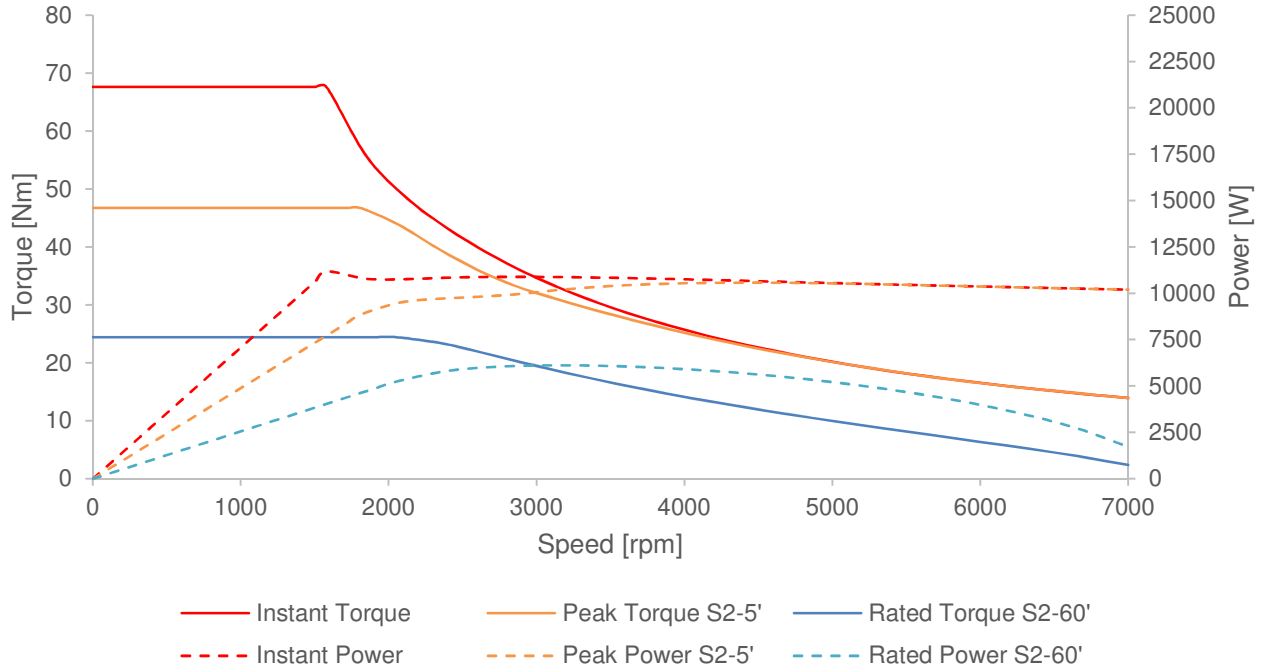
Inverter Power Supply			48Vdc
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Description	Symbol	Unit	
<i>Duty</i>	-	-	S2-60min
<i>Nominal Speed</i>	n_n	<i>rpm</i>	2000
<i>Frequency (N° poles)</i>	$f (2p)$	<i>Hz</i>	133.3 (8)
<i>Costant Voltage</i>	K_e	<i>Vrms/Krpm</i>	13.5
<i>Costant Torque</i>	K_t	<i>Nm/Arms</i>	0.21
<i>Instant Torque</i>	T_i	<i>Nm</i>	67.0
<i>Instant Current</i>	I_i	<i>Arms</i>	380.0
<i>Peak Torque S2-5min.</i>	T_p	<i>Nm</i>	46.0
<i>Peak Current S2-5min.</i>	I_p	<i>Arms</i>	220.0
<i>Rated Torque S2-60min.</i>	T_r	<i>Nm</i>	24.0
<i>Rated Current S2-60min.</i>	I_r	<i>Arms</i>	110.0
<i>Rotor Inertia</i>	J_r	<i>kg x m²</i>	0.009
<i>Ambient Temperature</i>	θ_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>	-	-	KTY 84-130
<i>Cooling system</i>			Air

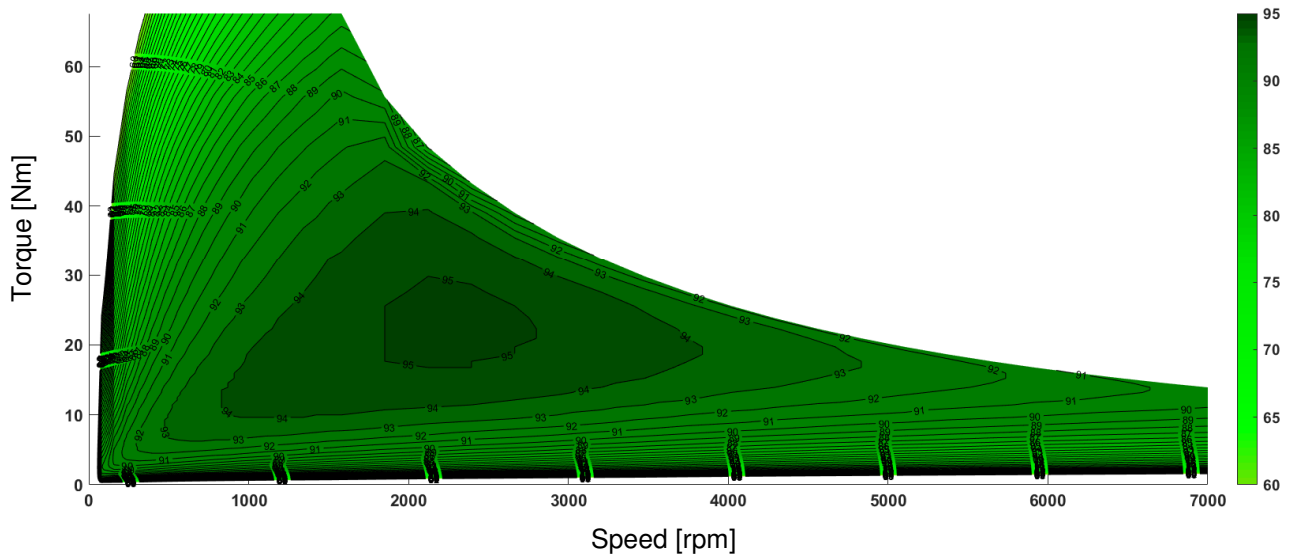
PRELIMINARY

Speed-Torque & Speed Power Motor Curves (*)

SMAC 200-052



Efficiency Map % (*)



* MTPA Field Weakening strategy control & Optimized Advance Angle