

AC 270-050-06 48V

Motor Rated Power			13000W	
Inverter Power Supply			48Vdc	

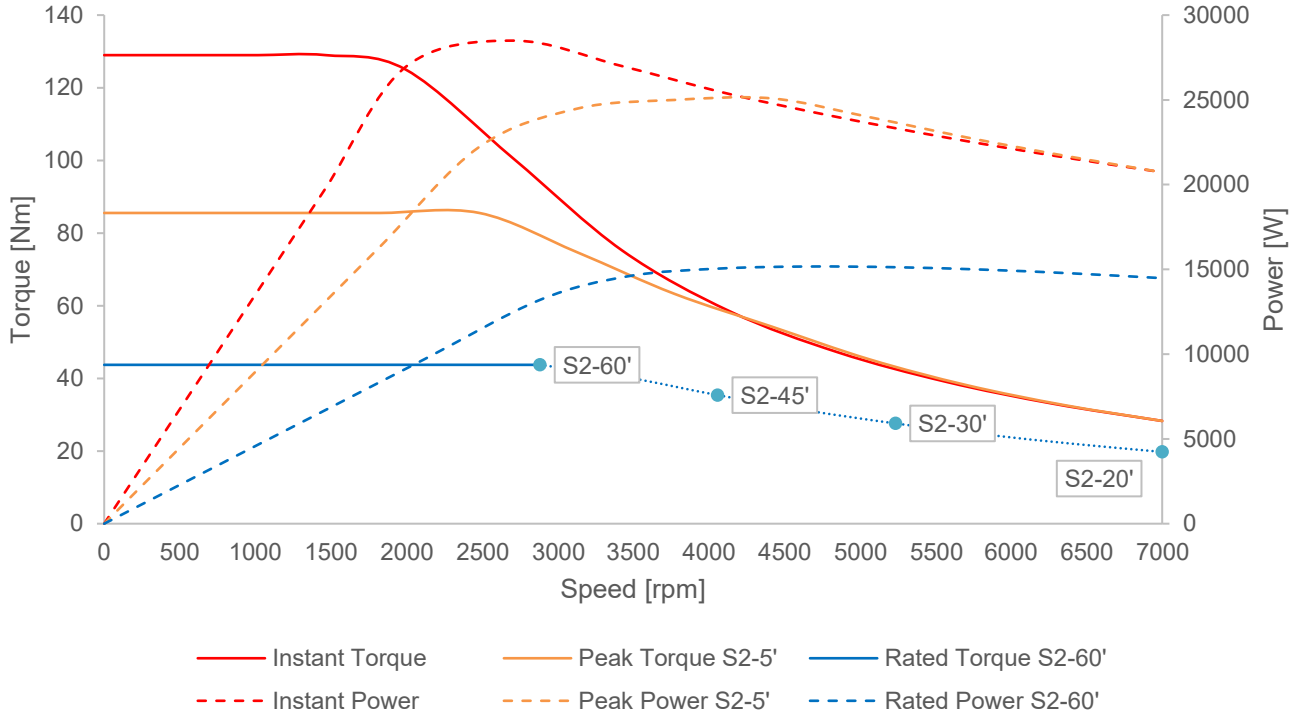
Description	Symbol	Unit		
<i>Duty</i>	-	-	S2-60min	
<i>Nominal Speed</i>	n_n	<i>rpm</i>	3000	
<i>Frequency (N° poles)</i>	$f (2p)$	<i>Hz</i>	150.0 (6)	
<i>Costant Voltage</i>	K_e	<i>Vrms/Krpm</i>	7.5	
<i>Instant Torque</i>	T_i	<i>Nm</i>	130.0	
<i>Instant Current</i>	I_i	<i>Arms</i>	900.0	
<i>Peak Torque</i> S2-5min.	T_p	<i>Nm</i>	85.0	
<i>Peak Current</i> S2-5min.	I_p	<i>Arms</i>	560.0	
<i>Rated Torque</i> S2-60min.	T_r	<i>Nm</i>	44.0	
<i>Rated Current</i> S2-60min.	I_r	<i>Arms</i>	280.0	
<i>Rotor Inertia</i>	J_r	<i>kg x m²</i>	0.04	
<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>	-	-	PTY 84-130	
<i>Cooling system</i>			Air	

**PRELIMINARY
Simulated Data**

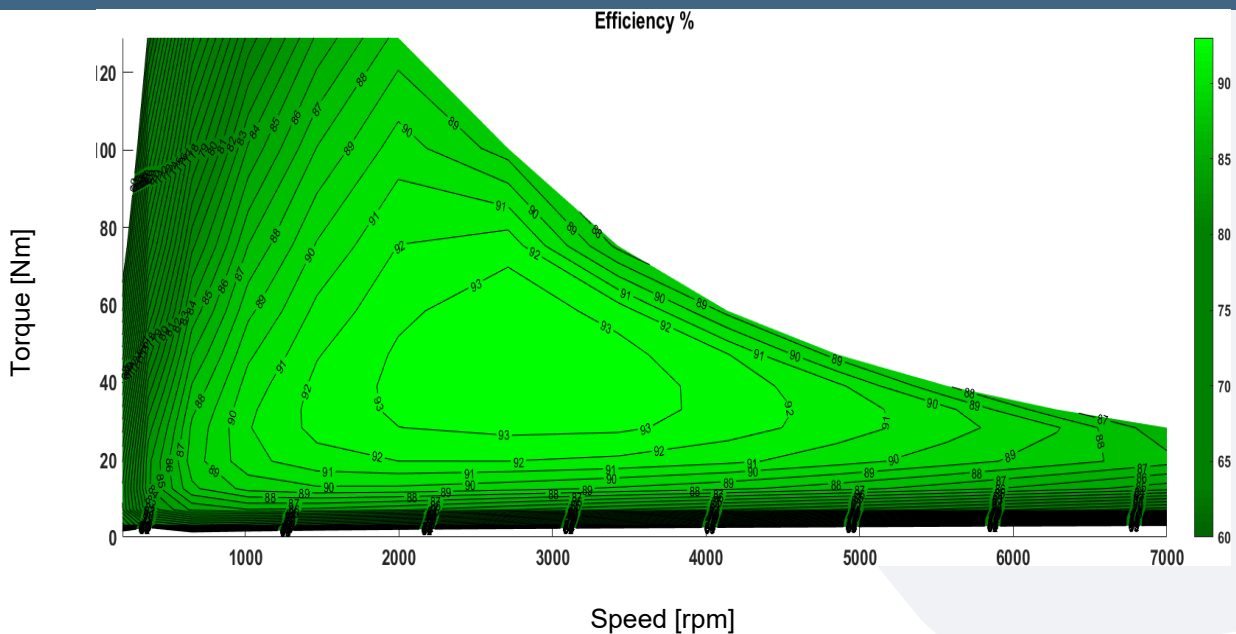
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Speed-Torque & Speed Power Motor Curves (*)

AC 270-050



Efficiency Map % (*)



* MTPA – MTPV Field Weakening strategy control & Optimized Advance Angle
(Ref. Simulation temperature 20.0°C)

Simulated Data