



ELECTRIC POWERTRAIN SOLUTIONS

SMAC SERIE

TECHNICAL DATA SHEET

3-PHASE SYNCHRONOUS MOTOR

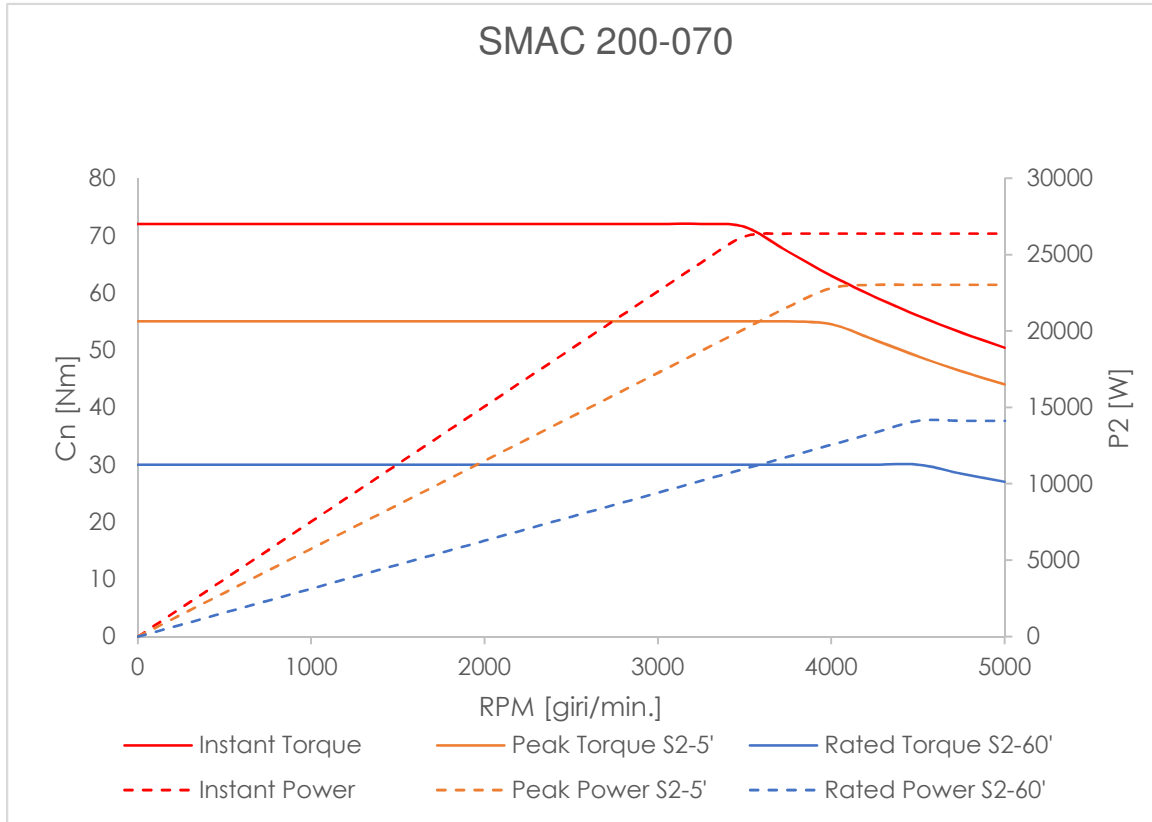
Code	51J20007028HT080400		
Rev.	01		
Date	03/03/2021		
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Motor Rated Power			12500W	
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Inverter Power Supply			96Vdc	
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Description	Symbol	Unit		
Duty	-	-	S2-60min	
Nominal Speed	n_n	rpm	4000	
Frequency (N° poles)	$f (2p)$	Hz	266.6 (8)	
Constant Voltage	K_e	Vrms/Krpm	13.0	
Constant Torque	K_t	Nm/Arms	0.21	
Instant Torque	T_{inst}	Nm	72.0	
Instant Current	I_{inst}	Arms	448	
Peak Torque S2-5min.	T_{peak}	Nm	55.0	
Peak Current S2-5min.	I_{peak}	Arms	298	
Nominal Torque S2-60min.	T_n	Nm	30.0	
Nominal Current S2-60min.	I_n	Arms	148	
Rotor Inertia	J_r	kg x m ²	0.012	
Ambient Temperature	θ_a	°C	-15 ÷ +40	
Protection Degree	IP		IP 54	up to IP67
Insulation Class	-	-	F	
Thermal protection	-	-	KTY 84-130	
Cooling system			Air	

Speed-Torque & Speed Power Motor Curves



Efficiency Map

