



ELECTRIC POWERTRAIN SOLUTIONS

SMAC SERIE

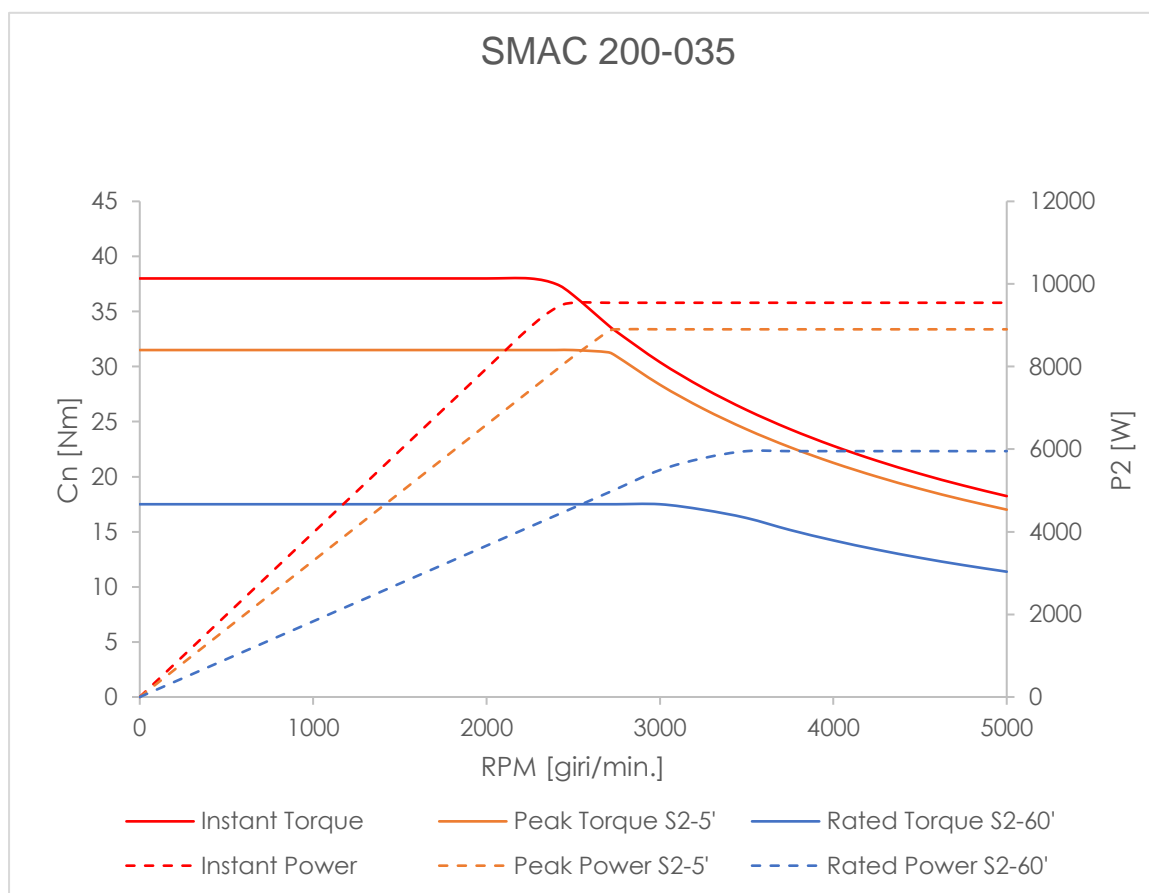
TECHNICAL DATA SHEET
3-PHASE SYNCHRONOUS MOTOR

Code	51J20003519CT080400		
Rev.	02		
Date	03/03/2021		
Page	1	di	2

Motor Rated Power			5500W
Inverter Power Supply			24Vdc

Description	Symbol	Unit		
Duty	-	-	S2-60min	
Nominal Speed	n_n	rpm	3000	
Frequency (N° poles)	$f (2p)$	Hz	200 (8)	
Constant Voltage	K_e	Vrms/Krpm	4.3	
Constant Torque	K_t	Nm/Arms	0.07	
Instant Torque	T_{inst}	Nm	38.0	
Instant Current	I_{inst}	Arms	700	
Peak Torque S2-5min.	T_{peak}	Nm	31.5	
Peak Current S2-5min.	I_{peak}	Arms	480	
Nominal Torque S2-60min.	T_n	Nm	17.5	
Nominal Current S2-60min.	I_n	Arms	250	
Rotor Inertia	J_r	kg x m ²	0.006	
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

