



SMAC SERIE
TECHNICAL DATA SHEET
3-PHASE SYNCHRONOUS MOTOR

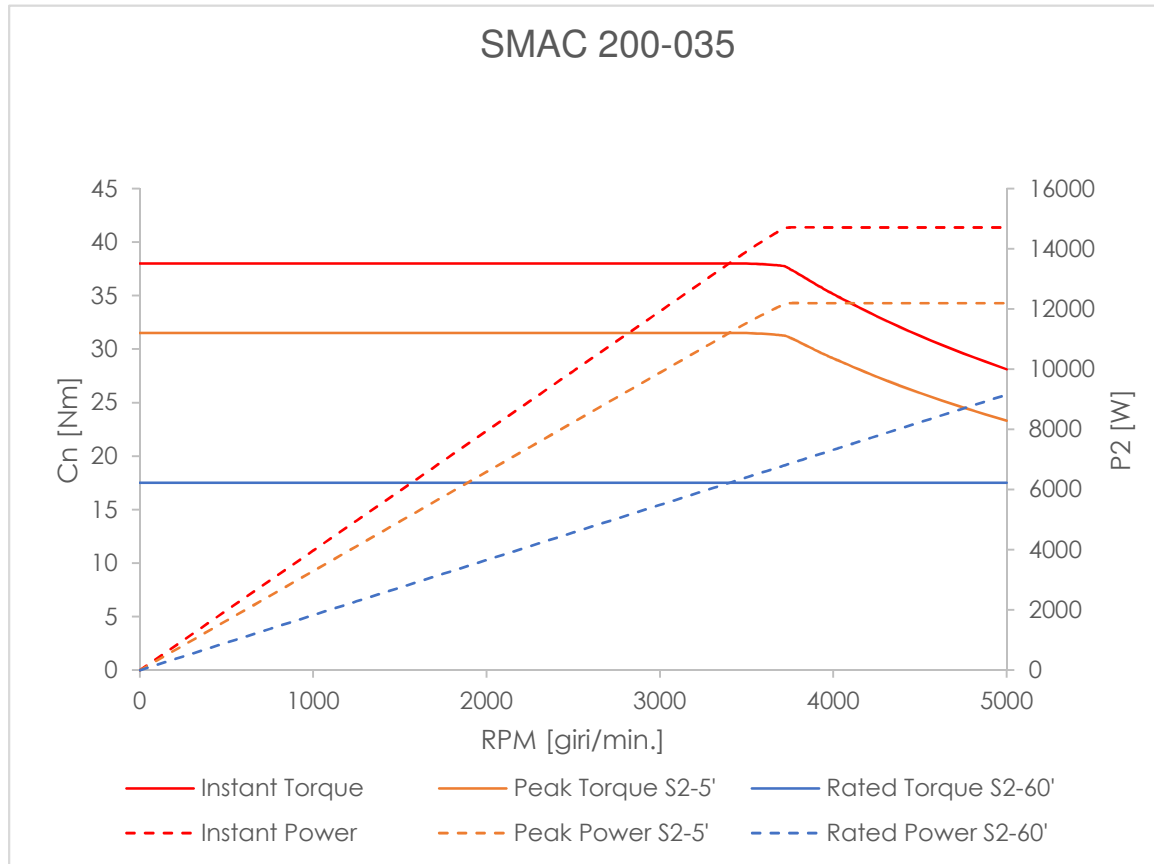
Code	51J20003528ET080400		
Rev.	03		
Date	03/03/2021		
Page	1	di	2

Motor Rated Power			5500W
--------------------------	--	--	--------------

Inverter Power Supply			48Vdc
------------------------------	--	--	--------------

Description	Symbol	Unit		
Duty	-	-	S2-60min	
Nominal Speed	n_n	<i>rpm</i>	3000	
Frequency (N° poles)	$f (2p)$	Hz	200 (8)	
Constant Voltage	K_e	<i>Vrms/Krpm</i>	6.6	
Constant Torque	K_t	<i>Nm/Arms</i>	0.10	
Instant Torque	T_{inst}	<i>Nm</i>	38.0	
Instant Current	i_{inst}	<i>Arms</i>	460	
Peak Torque S2-5min.	T_{peak}	<i>Nm</i>	31.5	
Peak Current S2-5min.	i_{peak}	<i>Arms</i>	340	
Nominal Torque S2-60min.	T_n	<i>Nm</i>	17.5	
Nominal Current S2-60min.	I_n	<i>Arms</i>	170	
Rotor Inertia	J_r	<i>kg x m²</i>	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

