



ELECTRIC POWERTRAIN SOLUTIONS

## SMAC SERIE

TECHNICAL DATA SHEET  
3-PHASE SYNCHRONOUS MOTOR

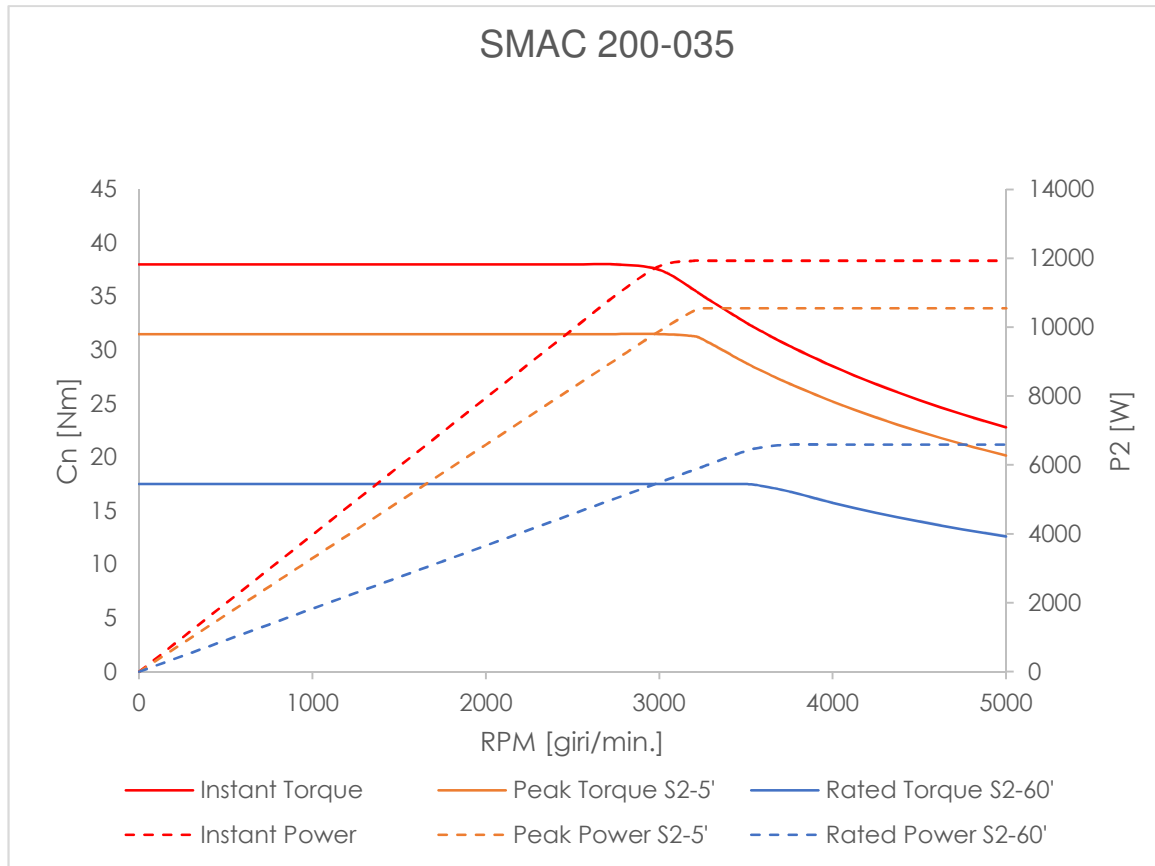
Code	51J20003528GT080200		
Rev.	03		
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<b>Motor Rated Power</b>			<b>6400W</b>
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<b>Inverter Power Supply</b>			<b>80Vdc</b>
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Description	Symbol	Unit		
Duty	-	-	S2-60min	
Nominal Speed	$n_n$	rpm	3500	
Frequency (N° poles)	$f (2p)$	Hz	233.3 (8)	
Constant Voltage	$K_e$	Vrms/Krpm	13.0	
Constant Torque	$K_t$	Nm/Arms	0.21	
Instant Torque	$T_{inst}$	Nm	38.0	
Instant Current	$I_{inst}$	Arms	255	
Peak Torque S2-5min.	$T_{peak}$	Nm	31.5	
Peak Current S2-5min.	$I_{peak}$	Arms	170	
Nominal Torque S2-60min.	$T_n$	Nm	17.5	
Nominal Current S2-60min.	$I_n$	Arms	85	
Rotor Inertia	$J_r$	kg x m <sup>2</sup>	0.018	
Ambient Temperature	$\theta_a$	°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

