



ELECTRIC POWERTRAIN SOLUTIONS

**SMAC SERIE**  
**TECHNICAL DATA SHEET**  
**3-PHASE SYNCHRONOUS MOTOR**

Code	51J20003528HT080200		
Rev.	01		
Date	03/03/2021		
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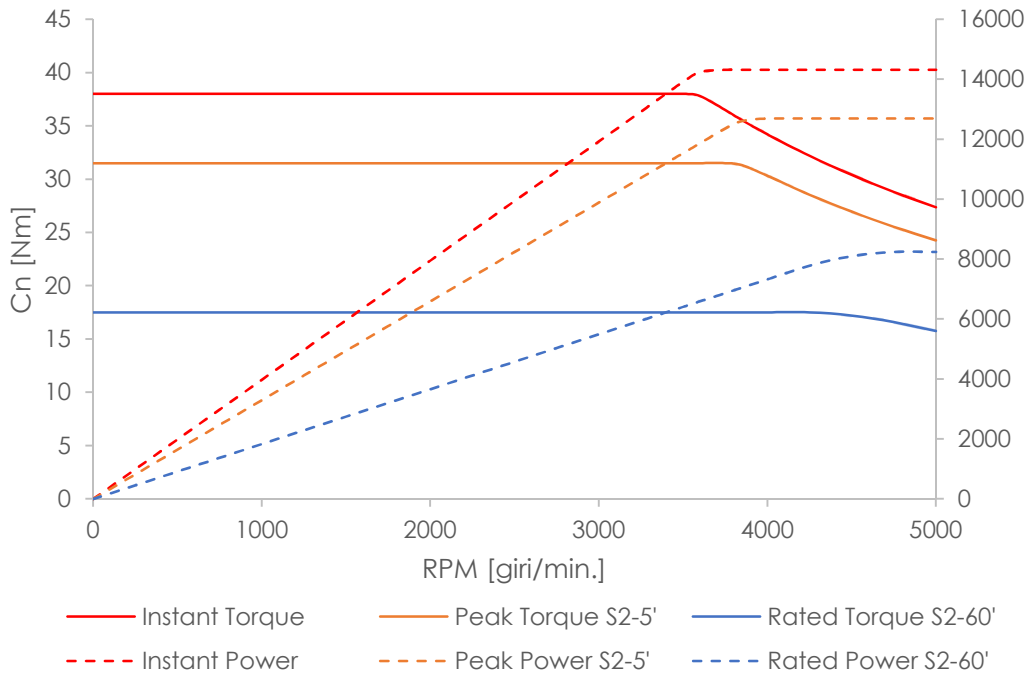
<b>Motor Rated Power</b>			<b>6400W</b>
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<b>Inverter Power Supply</b>			<b>96Vdc</b>
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<b>Description</b>	<b>Symbol</b>	<b>Unit</b>	
Duty	-	-	S2-60min
Nominal Speed	$n_n$	rpm	3500
Frequency (N° poles)	$f (2p)$	Hz	233.3 (8)
Costant Voltage	$K_e$	Vrms/Krpm	13.0
Costant 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

SMAC 200-035



Efficiency Map

