

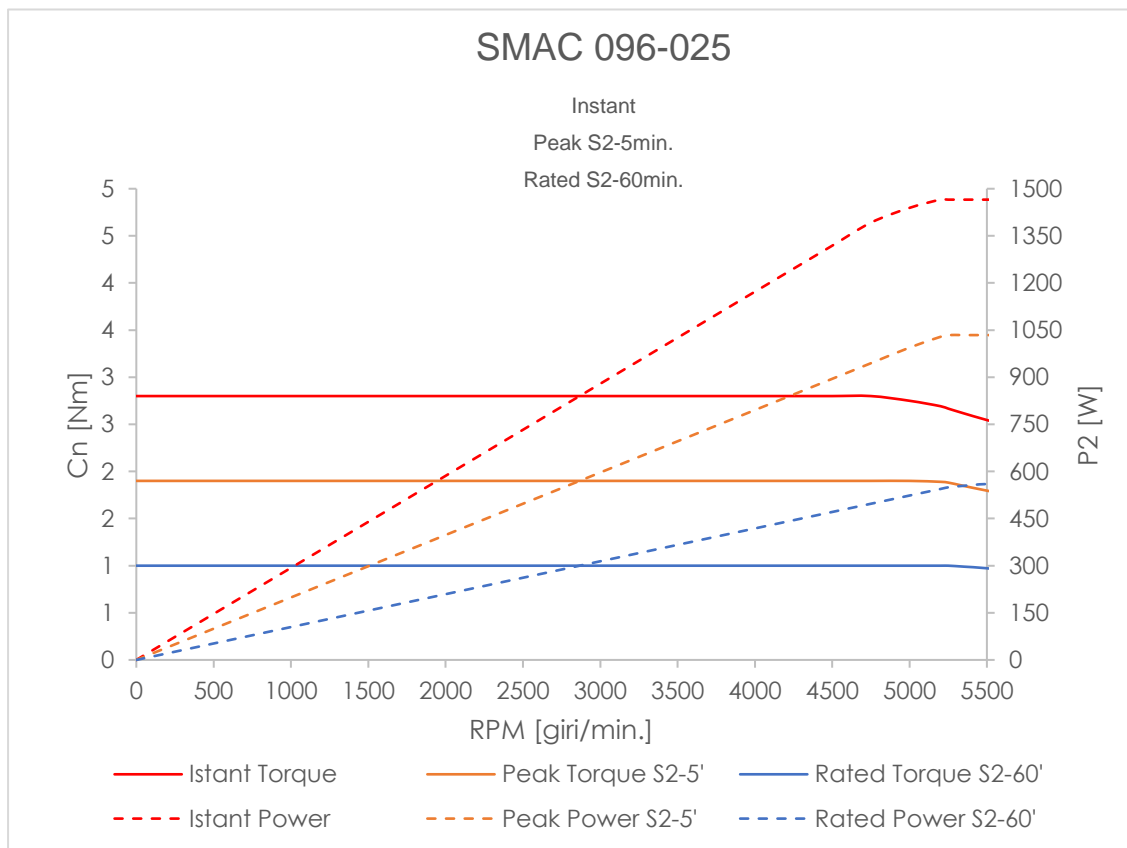
Motor Rated Power			500W	
--------------------------	--	--	-------------	--

Inverter Power Supply			24Vdc	
------------------------------	--	--	--------------	--

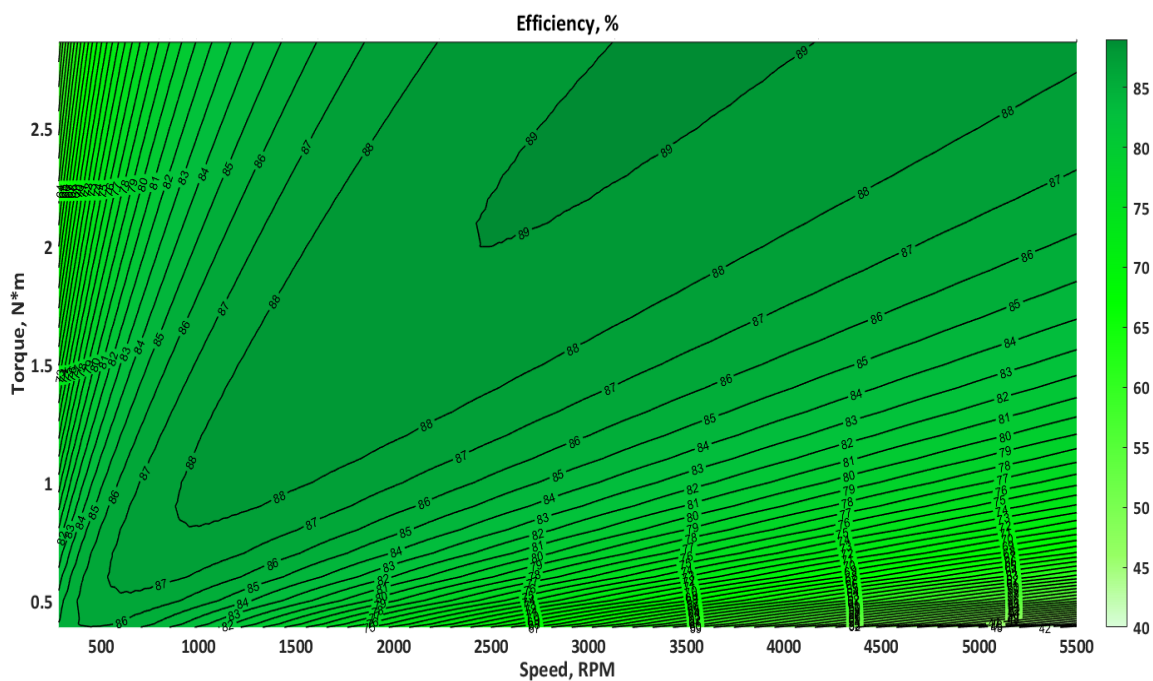
Description	Symbol	Unit		
Duty	-	-	S2-60min	
Nominal Speed	n_n	rpm	5000	
Frequency (N° poles)	$f (2p)$	Hz	250.0 (6)	
Maximum speed	n_{MAX}	rpm	5500	
Costant Voltage	K_e	Vrms/Krpm	3.1	
Costant Torque	K_t	Nm/Arms	0.04	
Instant Torque	T_{inst}	Nm	2.8	
Instant Current	I_{inst}	Arms	60.0	
Peak Torque S2-5min.	T_{peak}	Nm	1.9	
Peak Current S2-5min.	I_{peak}	Arms	40.0	
Nominal Torque S2-60min.	T_n	Nm	1.0	
Nominal Current S2-60min.	I_n	Arms	20.0	
Rotor Inertia	J_r	kg x m ²	5.5 x 10 ⁻⁴	
Ambient Temperature	θ_a	°C	-15 ÷ +40	
Protection Degree	IP		IP 54	up to IP67
Insulation Class	-	-	F	
Thermal protection	-	-	KTY 84-130	
Motor Weight	M	kg	2.0	

PRELIMINARY

Speed-Torque & Speed Power Motor Curves



Efficiency Map





TECHNICAL DATA SHEET
3-PHASE SYNCHRONOUS MOTOR

Mod.	SMAC 096 025 36		
Rev.	00		
Date	21/10/2020		
Page	3	di	3