

Ordering data

6SL3210-1KE11-8AF1



Client order no. : Order no. : Offer no. : Remarks :

Item no. :
Consignment no. :
Project :

Rated da	ta	General tech	General tech. specifications		
Input		Power factor λ	0.70 0.85		
Number of phases	3 AC	Offset factor cos φ	set factor cos φ 0.95		
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.97		
Line frequency	47 63 Hz	Sound pressure level (1m)	52 dB		
Rated current (LO)	2.30 A	Power loss	0.04 kW		
Rated current (HO)	1.90 A	Ambient conditions			
Output		Occline	Air an alian wainer an interreta difer		
Number of phases	3 AC	Cooling	Air cooling using an integrated fan		
Rated voltage	400 V	Cooling air requirement	ling air requirement 0.005 m³/s		
Rated power (LO)	0.55 kW	Installation altitude	1000 m		
Rated power (HO)	0.37 kW	Ambient temperature			
Rated current (IN)	1.90 A	Operation	-10 40 °C (14 104 °F)		
Rated current (LO)	1.70 A	Transport	-40 70 °C (-40 158 °F)		
Rated current (HO)	1.30 A	Storage	-40 70 °C (-40 158 °F)		
Max. output current	2.60 A	Relative humidity			
Pulse frequency	4 kHz	Max. operation95 % At 40 °C (104 °F), condensation and icing not permissible			
Output frequency for vector control	0 240 Hz				
Output frequency for V/f control	0 650 Hz	Closed-loop control techniques			
In firmware V4.7 and higher, due to legal requirements, the maximum		V/f linear / square-law / paramet	terizable Yes		
output frequency is restricted to 550 Hz		V/f with flux current control (FC	C) Yes		
Overland canability		V/f ECO linear / square-law	Yes		
Overload capability		Sensorless vector control	Yes		
Low Overload (LO) 150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time		Vector control, with sensor	No		
		Encoderless torque control	No		
High Overload (HO)		Torque control, with encoder	No		
200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a 300 s cycle time		Communication			
		Communication	PROFINET		

SIEMENS Data sheet for SINAMICS G120C

Ordering data





Mechanical data		Connections			
Degree of protection	IP20 / UL open type	Signal cable			
Size	FSA	Conductor cross-section	0.15 1.50	0 mm² (28 16 AWG	
Net weight	1.70 kg	Line side			
Width	73.0 mm	Version	Plug-in scre	ew-type terminals	
Height	196.0 mm	Conductor cross-section	1.00 2.50	0 mm² (16 14 AWG	
Depth	225.0 mm	Motor end			
Inputs/ outputs		Version	Plug-in scre	ew terminals	
Standard digital inputs		Conductor cross-section	1.00 2.50	0 mm² (16 14 AWG	
Number	6	DC link (for braking resist	tor)		
Switching level: 0→1	11 V	Version	Plug-in scr	ew terminals	
Switching level: 1→0	5 V	Conductor cross-section	1.00 2.50	0 mm² (16 14 AWG	
Max. inrush current	15 mA	PE connection	On housing	g with M4 screw	
ail-safe digital inputs		Max. motor cable length			
Number	1	Shielded	50 m		
Digital outputs		Unshielded	100 m		
Number as relay changeover co	ontact 1	Converter losses to EN 50598-2*			
Output (resistive load)	DC 30 V, 1 A	Efficiency class		IE2	
Number as transistor	1	Comparison with the reference	Comparison with the reference converter (90% /		
Output (resistive load)	DC 30 V, 1 A	100%)		-80.64 %	
nalog/ digital inputs		I↑			
Number	1 (Differential input)	100% 27.5 W (2.30 %)	29.0 W (2.41 %)	••	
Analog outputs					
Number	1 (Non-isolated output)	50% - 25.8 W (2.15 %)	26.5 W (2.21 %)	• 27.4 W (2.28 %)	
PTC/ KTY interface		25.5 W (2.13 %)	26 W (2.17 %)		
1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy ± 5 °C		25% -			
		_ +	50%	90% f	
Standards		The percentage values show the losses			
Compliance with standards	ompliance with standards CE, cULus, c-tick The percentage values show the losses in relation to the rated apparent power of The diagram shows the losses for the points (as per standard EN 50598) of the			0598) of the relative torque	
	MC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC	version of the converter without options/	/components.	e values are valid for the ba	
		*calculated values; increased by 10% ad	ccording to the standard		