

Ordering data

6SL3210-1KE21-3AF1



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

Item no. :
Consignment no. :
Project :

Rated da	General tech. specifications				
Input		Power factor λ	0.7	0 0.85	
Number of phases	3 AC	Offset factor cos φ	0.9	95	
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.9	7	
Line frequency	47 63 Hz	Sound pressure level (1m)	63	63 dB	
Rated current (LO)	16.50 A	Power loss	0.1	0.18 kW	
Rated current (HO)	12.80 A	Ambient conditions			
Output		Cooling		a using on integrated for	
Number of phases	3 AC	Cooling	Air coolin	g using an integrated fan	
Rated voltage	400 V	Cooling air requirement	0.009 m ³ /	0.009 m³/s	
Rated power (LO)	5.50 kW	Installation altitude	1000 m		
Rated power (HO)	4.00 kW	Ambient temperature			
Rated current (IN)	12.80 A	Operation	-10 40	-10 40 °C (14 104 °F)	
Rated current (LO)	12.50 A	Transport	-40 70	-40 70 °C (-40 158 °F)	
Rated current (HO)	8.80 A	Storage	-40 70	-40 70 °C (-40 158 °F)	
Max. output current	17.60 A	Relative humidity			
Pulse frequency Output frequency for vector control	4 kHz 0 240 Hz	Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible		
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	erizable	Yes	
output frequency is restricted to 550 Hz		V/f with flux current control (FC	C)	Yes	
		V/f ECO linear / square-law		Yes	
Overload capability		Sensorless vector control		Yes	
Low Overload (LO)		Vector control, with sensor		No	
150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time		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		Comm	unication		
		Communication	PROFINE	Т	

SIEMENS Data sheet for SINAMICS G120C

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Mechanical data		Connections			
Degree of protection	IP20 / UL open type	Signal cable			
Size	FSB	Conductor cross-section	0.15 1.50 mm²	(28 16 AWG)	
Net weight	2.30 kg	Line side			
Width	100.0 mm	Version	Plug-in screw-typ	e terminals	
Height	196.0 mm	Conductor cross-section	4.00 6.00 mm ²	(12 10 AWG)	
Depth	225.0 mm	Motor end			
Inputs/ outputs		Version	Plug-in screw terr	ninals	
Standard digital inputs		Conductor cross-section	4.00 6.00 mm ²	(12 10 AWG)	
Number	6	DC link (for braking resisto	or)		
Switching level: 0→1	11 V	Version	Plug-in screw terminals		
Switching level: 1-→0	5 V	Conductor cross-section	4.00 6.00 mm ²	4.00 6.00 mm² (12 10 AWG)	
Max. inrush current	15 mA	PE connection	On housing with	//4 screw	
Fail-safe digital inputs		Max. motor cable length			
Number	1	Shielded	50 m		
Digital outputs		Unshielded	100 m		
Number as relay changeover cor	ntact 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	convertor (00%)	.49 %	
Output (resistive load)	DC 30 V, 1 A	100%)	-00	.49 /0	
Analog/ digital inputs		- I↑			
Number	1 (Differential input)	100% +	138.2 W (1.59 %)	5.1 W (1.90 %)	
Analog outputs					
Number	1 (Non-isolated output)	50% - 80.0 W (0.92 %)	86.8 W (1.00 %) 96	.0 W (1.10 %)	
PTC/ KTY interface		- 66.9 W (0.77 %)	70 W (0.80 %)		
1 motor temperature sensor input, connectable PTC, KTY, and Thermo-Click sensors, accuracy $\pm 5^{\circ}\text{C}$		25%			
Standards		5	50% 90%	f	
Compliance with standards CE, cULus, c-tick		The percentage values show the losses in			
	IC Directive 2004/108/EC, Low-Voltage ective 2006/95/EC	The diagram shows the losses for the poir generating current (I) over the relative mot version of the converter without options/cc *calculated values; increased by 10% accr	tor stator frequency(f). The values omponents.		