

SIEMENS

Data sheet for SINAMICS G120C



Ordering data

6SL3210-1KE21-7UB1

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Rated data		General tech. specifications	
Input		Power factor λ	0,70 ... 0,85
Number of phases	3 AC	Offset factor $\cos \varphi$	0,95
Line voltage	380 ... 480 V +10 % -20 %	Efficiency η	0,97
Line frequency	47 ... 63 Hz	Sound pressure level (1m)	63 dB
Rated current (LO)	21,50 A	Power loss	0,24 kW
Rated current (HO)	18,20 A	Ambient conditions	
Output		Cooling	Raffreddamento ad aria mediante ventilatore integrato
Number of phases	3 AC	Cooling air requirement	0,009 m ³ /s
Rated voltage	400 V	Installation altitude	1000 m
Rated power (LO)	7,50 kW	Ambient temperature	
Rated power (HO)	5,50 kW	Operation	-10 ... 40 °C (14 ... 104 °F)
Rated current (IN)	18,20 A	Transport	-40 ... 70 °C (-40 ... 158 °F)
Rated current (LO)	16,50 A	Storage	-40 ... 70 °C (-40 ... 158 °F)
Rated current (HO)	12,50 A	Relative humidity	
Max. output current	25,00 A	Max. operation	95 % a 40 °C (104 °F), condensa e formazione di ghiaccio non ammesse
Pulse frequency	4 kHz		
Output frequency for vector control	0 ... 240 Hz		
Output frequency for V/f control	0 ... 650 Hz		
A causa delle disposizioni di legge, a partire dal firmware V4.7 la frequenza max. di uscita è limitata a 550 Hz.			

Overload capability

Low Overload (LO)

150 % corrente di carico base IL per 3 s, successivamente 110 % corrente di carico base IL per 57 s in un tempo di ciclo di 300 s

High Overload (HO)

200 % corrente di carico base IH per 3 s, successivamente 150 % corrente di carico base IH per 57 s in un tempo di ciclo di 300 s

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Mechanical data

Degree of protection	IP20 / UL open type
Size	FSB
Net weight	2,30 kg
Width	100,0 mm
Height	196,0 mm
Depth	203,0 mm

Inputs/ outputs

Standard digital inputs

Number	6
Switching level: 0→1	11 V
Switching level: 1→0	5 V
Max. inrush current	15 mA

Fail-safe digital inputs

Number	1
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Digital outputs

Number as relay changeover contact	1
Output (resistive load)	DC 30 V, 1 A
Number as transistor	1
Output (resistive load)	DC 30 V, 1 A

Analog/ digital inputs

Number	1 (Ingresso differenziale)
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Analog outputs

Number	1 (Uscita non isolata)
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PTC/ KTY interface

1 ingresso per sensore di temperatura, sensori collegabili PTC, KTY e Thermo-Click, con precisione ± 5 °C

Connections

Signal cable

Conductor cross-section	0,15 ... 1,50 mm ² (28 ... 16 AWG)
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Line side

Version	Morsetti a vite innestabili
Conductor cross-section	4,00 ... 6,00 mm ² (12 ... 10 AWG)

Motor end

Version	Morsetti a vite innestabili
Conductor cross-section	4,00 ... 6,00 mm ² (12 ... 10 AWG)

DC link (for braking resistor)

Version	Morsetti a vite innestabili
Conductor cross-section	4,00 ... 6,00 mm ² (12 ... 10 AWG)
PE connection	Sulla custodia con vite M4

Max. motor cable length

Shielded	50 m
Unshielded	100 m

Communication

Communication	RS485
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Closed-loop control techniques

V/f linear / square-law / parameterizable	Sì
V/f with flux current control (FCC)	Sì
V/f ECO linear / square-law	Sì
Sensorless vector control	Sì
Vector control, with sensor	No
Encoderless torque control	No
Torque control, with encoder	No

Standards

Compliance with standards	CE, cULus, c-tick
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CE marking	Direttiva EMC 2004/108/CE, Direttiva sulla bassa tensione 2006/95/CE
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