# SIEMENS

Data sheet for SINAMICS G120C

### Article No. :

### 6SL3210-1KE13-2UP2



Figure similar

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

Rated data			
3 AC			
380 480 V +10 %	‰ -20 %		
47 63 Hz			
4.10 A			
3.20 A			
3 AC			
400V IEC	480V NEC <sup>1)</sup>		
1.10 kW	1.50 hp		
0.75 kW	1.00 hp		
3.10 A			
2.20 A			
3.20 A			
4.40 A			
4 kHz			
0 240 Hz			
0 550 Hz			
	3 AC 3 80 480 V +10 % 47 63 Hz 4.10 A 3.20 A 3 AC 400V IEC 1.10 kW 0.75 kW 3.10 A 2.20 A 3.20 A 4.40 A 4.40 A 4 kHz 0 240 Hz		

#### **Overload capability**

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

High Overload (HO)

200% base load current IH for 3 s, followed by 150% base load current IH for 57 s in a 300 s cycle time

General tech. specifications			
Power factor $\lambda$	0.70 0.85		
Offset factor $\cos \phi$	0.95		
Efficiency η	0.97		
Sound pressure level (1m)	49 dB		
Power loss	48.1 W		
Filter class (integrated)	Unfiltered		
Co	ommunication		

Communication

PROFIBUS DP

ltem no. : Consignment no. : Project :

Inputs / outputs				
Standard digital inputs				
Number	6			
Switching level: $0 \rightarrow 1$	11 V			
Switching level: $1 \rightarrow 0$	5 V			
Max. inrush current	15 mA			
Fail-safe digital inputs				
Number	1			
Digital outputs				
Number as relay changeover contact	1			
Output (resistive load)	DC 30 V, 0.5 A			
Number as transistor	1			
Output (resistive load)	DC 30 V, 0.5 A			
Analog / digital inputs				
Number	1 (Differential input)			
Resolution	10 bit			
Switching threshold as digital input				
0→1	4 V			
1→0	1.6 V			
Analog outputs				
Number	1 (Non-isolated output)			
PTC/ KTY interface				
1 motor temperature sensor input, sensors that can be connected PTC, KTY and Thermo-Click, accuracy $\pm 5~^\circ\text{C}$				
Closed-loop cor	ntrol techniques			
V/f linear / square-law / parameterizable	Yes			
V/f with flux current control (FCC)	Yes			
V/f ECO linear / square-law	Yes			
Sensorless vector control	Yes			

Vector control, with sensor No Encoderless torque control No Torque control, with encoder No

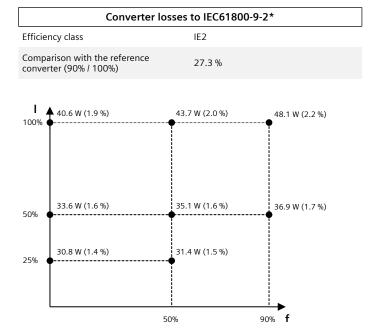
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Ambi	ent conditions
Cooling	Air cooling using an integrated fan
Cooling air requirement	0.005 m³/s (0.177 ft³/s)
Installation altitude	1,000 m (3,280.84 ft)
Ambient temperature	
Operation	-10 40 °C (14 104 °F)
Transport	-40 70 °C (-40 158 °F)
Storage	-40 70 °C (-40 158 °F)
Relative humidity	
Max. operation	95 % At 40 °C (104 °F), condensatior and icing not permissible
Co	onnections
Signal cable	
Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)
Line side	
Version	Plug-in screw terminals
Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)
Motor end	
Version	Plug-in screw terminals
Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)
DC link (for braking resistor)	
Version	Plug-in screw terminals
Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)
Line length, max.	15 m (49.21 ft)
PE connection	On housing with M4 screw
Max. motor cable length	
Shielded	150 m (492.13 ft)
Unshielded	150 m (492.13 ft)
Мес	hanical data
Degree of protection	IP20 / UL open type
Frame size	FSAA
Net weight	1.40 kg (3.09 lb)
Dimensions	
Width	73 mm (2.87 in)
Height	173 mm (6.81 in)
Depth	155 mm (6.10 in)
9	Standards
Compliance with standards	UL, cUL, CE, C-Tick (RCM)
CE marking	EMC Directive 2004/108/EC, Low- Voltage Directive 2006/95/EC



The percentage values show the losses in relation to the rated apparent power of the converter.

The diagram shows the losses for the points (as per standard IEC61800-9-2) of the relative torque generating current (I) over the relative motor stator frequency (f). The values are valid for the basic version of the converter without options/components.

\*calculated values

 $^{1)}\mbox{The}$  output current and HP ratings are valid for the voltage range 440V-480V